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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



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

NOAA Technical Memorandum NMFS

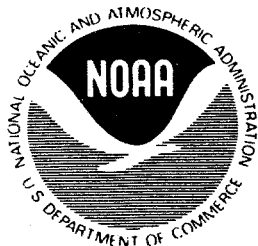
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NOAA Technical Memorandum NMFS

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U.S. DEPARTMENT OF COMMERCE
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REPORT OF A MARINE MAMMAL SURVEY OF THE EASTERN TROPICAL PACIFIC
ABOARD THE RESEARCH VESSEL McARTHUR
JULY 29 - DECEMBER 6, 1986

Rennie S. Holt
and
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

Cruise Leaders

Steve Reilly, SWFC
 Rennie Holt, SWFC
 Alan Jackson, SWFC

Legs

1
 2
 3-4

Identification Specialists

Michael Newcomer, SWFC
 Scott Sinclair, SWFC

1-4
 1-4

Observers

Scott Benson, SWFC
 Carla Bisbee, SWFC
 Larry Robertson, SWFC
 David Scordal, SWFC

1-4
 1-4
 1-4
 1-4

Other Scientists

Alan Jackson, SWFC	2
Oscar Vallarino, Smithsonian Tropical Research Institute and Scripps Institution 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 Fuginon¹ 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 CAMAC¹ 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.

¹Reference 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 Canon¹ 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 Panasonic¹ VHS recorder and a Panasonic¹ 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)². 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

²Ralston, 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

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

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

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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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
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	7.10
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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
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		6.17
02	07	860802	18.52	63	38	05	12	12	1	208		1.85
02	08	860802	18.52	63	38	61	12	12	1	208	21 45 N 120 05 W	1.23
02	09	860802	18.52	38	61	63	12	12	1	208		3.09
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	21 16 N 120 22 W	6.17
04	03	860802	18.52	63	61	38	03	02	1	206		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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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		6.17
08	03	860803	18.52	63	38	61	03	02	3	193	17 43 N 121 46 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	03	03	190			8.64
01	03	860804	18.52	63	61	38	03	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	12	190	14 51 N	122 30 W	6.17
02	22	860804	18.52	55	64	05	03	12	190			6.17
02	23	860804	18.52	64	05	55	03	12	190			6.17
02	24	860804	18.52	05	55	64	03	01	190	14 42 N	122 33 W	6.17
02	25	860804	18.52	63	61	38	03	01	190			6.17
02	26	860804	18.52	61	38	63	03	01	190			6.17
02	27	860804	18.52	38	63	61	03	01	190	14 33 N	122 35 W	6.17
02	28	860804	18.52	63	61	38	03	01	190			8.03
02	29	860804	18.52	55	64	55	03	01	190			6.17
02	30	860804	18.52	64	55	05	03	01	190	14 25 N	122 36 W	2.16
02	31	860804	18.52	63	61	38	03	02	190			5.25

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	32	860804	18.52	55	64	05	03	5	190	14 13 N	122 39 W	7.10
02	33	860804	18.52	64	05	55	03	5	190			6.17
02	34	860804	18.52	05	55	64	03	5	190			6.17
02	35	860804	18.52	55	64	05	03	5	190			6.17
02	36	860804	18.52	64	05	55	03	5	190			6.17
02	37	860804	18.52	05	55	64	03	5	190	13 59 N	122 41 W	5.25
01	01	860805	18.52	05	55	64	09	5	190	12 22 N	123 01 W	6.17
01	02	860805	18.52	55	64	05	09	5	190			6.17
01	03	860805	18.52	64	05	55	09	5	190			3.40
02	01	860805	18.52	61	63	38	09	5	190	12 15 N	123 06 W	6.17
02	02	860805	18.52	63	38	61		5	190			3.09
02	03	860805	18.52	61	38	63		5	190	12 09 N	123 07 W	6.17
02	04	860805	18.52	38	61	55		5	190			6.17
02	05	860805	18.52	61	65	38		6	190			6.17
02	06	860805	18.52	65	38	61		6	190			2.47
02	07	860805	18.52	65	38	61	09	6	190	11 59 N	123 10 W	4.94
02	08	860805	18.52	38	61	65	09	6	190			3.70
02	09	860805	18.52	55	64	05	09	6	190			6.17
02	10	860805	18.52	64	05	55	09	6	190			6.17
02	11	860805	18.52	05	55	64	09	6	190	11 50 N	123 13 W	6.17
02	12	860805	18.52	55	64	05	09	6	190			6.17
02	13	860805	18.52	64	05	55	12	6	190	11 39 N	123 15 W	6.17
02	14	860805	18.52	05	55	64	12	6	190			3.09
02	15	860805	18.52	05	55	64	12	6	190			0.93
03	01	860805	18.52	38	61	65	12	5	190	11 30 N	123 17 W	6.17
03	02	860805	18.52	61	65	38	12	5	190			6.17
03	03	860805	18.52	65	38	61	12	5	190			3.40
03	04	860805	18.52	65	38	61	12	5	190			0.93
04	01	860805	18.52	38	61	65	02	4	190			6.17
04	02	860805	18.52	61	65	38	03	4	190			6.17
04	03	860805	18.52	55	64	05	03	5	190	11 10 N	123 23 W	3.09
05	01	860805	18.52	64	05	55	03	5	190	11 06 N	123 24 W	11.73
05	02	860805	18.52	05	55	64	03	5	190	11 02 N	123 24 W	4.32
05	03	860805	18.52	05	55	64	03	5	190			1.85
05	04	860805	18.52	55	64	05	03	5	190			6.17
05	05	860805	18.52	64	05	55	03	5	190			6.17
05	06	860805	18.52	63	61	38	03	5	190	10 50 N	123 27 W	6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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	09	02	190			4.01
03	03	860806	18.52	64	05	55	09	02	190	08 35 N	123 42 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz. Vert.			Latitude	Longitude	
02	02	860808	18.52	55	64	05			168	01 40 N	125 21 W	0.31
03	01	860808	18.52	55	64	05	04	02	168	00 34 N	125 17 W	6.17
03	02	860808	18.52	64	05	55	04	02	168	00 29 N	125 16 W	2.47
04	01	860808	18.52	64	05	55	04	02	168	00 28 N	125 16 W	2.16
04	02	860808	18.52	05	55	64	04	02	168			6.17
04	03	860808	18.52	55	64	05	04	02	168			6.79
04	04	860808	18.52	55	64	05	04	02	168	00 21 N	125 15 W	0.31
01	01	860809	18.52	64	55	38	12	12	257	00 48 S	125 02 W	6.17
01	02	860809	18.52	55	38	64	12	12	257			6.17
01	03	860809	18.52	38	64	55	12	12	257			6.17
01	04	860809	18.52	64	55	38	12	12	257	00 51 S	125 11 W	6.17
01	05	860809	18.52	55	38	64	12	12	257			6.17
01	06	860809	18.52	38	64	55	12	12	257			1.85
02	01	860809	18.52	61	63	05	12	12	257	00 53 S	125 21 W	6.17
02	02	860809	18.52	63	05	61	02	01	257			1.23
02	03	860809	18.52	63	05	61	02	01	257	00 54 S	125 28 W	3.09
03	01	860809	18.52	63	05	61	02	01	257	00 55 S	125 31 W	0.62
03	02	860809	18.52	05	61	63	02	01	257	00 55 S	125 31 W	6.17
03	03	860809	18.52	61	63	05	02	01	257			7.72
03	04	860809	18.52	63	05	61	02	01	257			7.72
03	05	860809	18.52	55	64	38	02	01	257	00 58 S	125 41 W	6.17
03	06	860809	18.52	64	38	55	02	01	257			6.17
03	07	860809	18.52	05	61	63	02	02	257	01 00 S	125 50 W	6.79
03	08	860809	18.52	38	55	64	01	01	257			9.26
03	09	860809	18.52	55	64	38	01	02	257			6.17
03	10	860809	18.52	64	38	55	01	02	257	01 03 S	126 02 W	3.40
04	01	860809	18.52	63	61	05	01	02	257	01 04 S	126 05 W	1.85
04	02	860809	18.52	63	61	05	11	02	315			0.62
04	03	860809	18.52	63	61	05	01	02	257			8.03
04	04	860809	18.52	63	61	05	01	03	257	01 04 S	126 10 W	0.31
01	01	860810	18.52	05	61	63	06	03	265	01 36 S	127 48 W	6.17
01	02	860810	18.52	61	63	05	06	03	265			7.10
02	01	860810	18.52	55	64	38	06	01	265	01 42 S	128 07 W	8.95
02	02	860810	18.52	64	38	55	06	01	265			9.57
03	01	860810	18.52	61	63	05			262	01 46 S	128 15 W	6.17
03	02	860810	18.52	63	05	61	05	01	262	01 47 S	128 17 W	1.23
03	03	860810	18.52	38	55	64	05	01	262			4.63

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
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	55	64	38	12	02	3	275		6.17
06	09	860810	18.52	64	38	55	12	02	3	275		6.17
06	10	860810	18.52	64	38	55	12	02	3	275	01 48 S 129 25 W	1.85
06	11	860810	18.52	64	38	55	01	02	3	257		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			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			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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
03	08	860811	18.52	64	55	38	09	12	096			8.33
03	09	860811	18.52	63	61	05	09	12	096			6.17
03	10	860811	18.52	61	05	63	09	12	096	02 05 S	129 46 W	6.17
03	11	860811	18.52	05	63	61	12	12	096			7.10
03	12	860811	18.52	63	61	05	12	12	096	02 04 S	129 41 W	6.17
03	13	860811	18.52	61	05	63	12	12	096			6.17
03	14	860811	18.52	05	63	61	07	01	096			5.25
03	15	860811	18.52	55	64	38	07	01	096			6.17
03	16	860811	18.52	64	38	55	07	01	096	02 06 S	129 28 W	2.47
03	17	860811	18.52	63	61	05	07	01	096			6.79
03	18	860811	18.52	64	38	55	07	01	096			6.17
03	19	860811	18.52	38	55	64	07	01	096	02 08 S	129 20 W	6.17
03	20	860811	18.52	55	64	38	07	02	096			6.17
03	21	860811	18.52	64	38	55	07	02	096			5.25
03	22	860811	18.52	63	05	61	07	02	096			4.01
03	23	860811	18.52	63	05	61	07	02	096	02 09 S	129 09 W	2.16
03	24	860811	18.52	05	61	63	07	02	096			6.17
04	01	860811	18.52	61	63	05			096			6.79
04	02	860811	18.52	63	05	61	07	03	096	02 10 S	129 00 W	6.48
04	03	860811	18.52	63	05	61	07	03	096	02 10 S	128 57 W	0.31
01	01	860812	18.52	61	63	05	11	03	095	02 22 S	127 33 W	6.48
01	02	860812	18.52	63	38	61	11	03	095			6.17
01	03	860812	18.52	05	61	63	11	03	095			0.93
01	04	860812	18.52	05	61	63	11	03	095	02 23 S	127 26 W	0.31
01	01	860813	18.52	55	38	63	11	03	091	02 31 S	124 28 W	6.17
01	02	860813	18.52	38	63	55			091			6.17
01	03	860813	18.52	63	55	38			091			6.17
01	04	860813	18.52	55	38	63			091			6.17
01	05	860813	18.52	38	63	55			091	02 30 S	124 16 W	4.63
02	01	860813	18.52	64	05	61	07	01	091			1.85
02	02	860813	18.52	64	05	61	07	01	091	02 30 S	123 25 W	4.32
02	03	860813	18.52	05	61	64	07	01	091			6.17
02	04	860813	18.52	61	64	05	07	01	091			3.70
02	05	860813	18.52	61	64	05			091			2.47
02	06	860813	18.52	64	05	61			091	02 29 S	123 16 W	6.17
02	07	860813	18.52	05	61	64			091			6.17
02	08	860813	18.52	61	64	05			091			4.32

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr.	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
03	04	860816	18.52	05	61	64	09	01	5	104		6.17
03	05	860816	18.52	61	64	05	09	01	5	104		6.17
03	06	860816	18.52	64	05	61	12	12	5	104	03 58 S 114 06 W	6.17
03	07	860816	18.52	05	61	64	12	12	5	104		6.17
03	08	860816	18.52	61	64	05	12	12	5	104		3.09
03	09	860816	18.52	55	63	38	12	12	5	104		6.17
03	10	860816	18.52	63	38	55	12	12	5	104	04 00 S 113 58 W	6.17
03	11	860816	18.52	38	55	63	12	12	5	104		6.17
03	12	860816	18.52	55	63	38	06	12	5	104		6.17
03	13	860816	18.52	63	38	55	06	12	5	104	04 01 S 113 50 W	6.17
03	14	860816	18.52	38	55	63	06	01	4	104		6.17
03	15	860816	18.52	64	61	05	06	01	4	104		6.17
03	16	860816	18.52	61	05	64	07	01	4	104	04 05 S 113 42 W	6.17
03	17	860816	18.52	05	64	61	06	02	4	104		6.17
03	18	860816	18.52	63	38	55	06	02	4	104		4.94
04	01	860816	18.52	64	61	05	06	02	4	104	04 08 S 113 32 W	2.78
05	01	860816	18.52	64	61	05	06	02	4	104	04 08 S 113 30 W	1.85
05	02	860816	18.52	61	05	64	06	02	4	104		3.40
05	03	860816	18.52	63	38	55	06	02	4	104		6.17
05	04	860816	18.52	38	55	63	06	03	4	104		6.17
05	05	860816	18.52	55	63	38	06	03	4	104		1.85
05	06	860816	18.52	55	63	38	06	03	4	104	04 11 S 113 21 W	0.31
01	01	860817	18.52	63	55	38			4	102	04 37 S 111 34 W	1.23
01	02	860817	18.52	64	61	05			4	102		5.86
01	03	860817	18.52	63	55	38			4	102		6.17
01	04	860817	18.52	55	38	63	10	03	4	102		6.17
01	05	860817	18.52	38	63	55	11	02	4	102	04 38 S 111 23 W	6.79
01	06	860817	18.52	63	55	38	11	02	4	102		11.42
01	07	860817	18.52	61	64	05	11	02	4	102	04 39 S 111 14 W	6.17
01	08	860817	18.52	64	05	61	11	02	4	105		6.17
01	09	860817	18.52	05	61	64	11	01	4	105		6.17
01	10	860817	18.52	61	64	05	11	01	4	105	04 41 S 111 05 W	6.17
01	11	860817	18.52	64	05	61	11	01	4	105		6.17
01	12	860817	18.52	05	61	64	11	01	4	105		6.48
01	13	860817	18.52	55	38	63	11	01	4	105	04 42 S 110 58 W	8.33
01	14	860817	18.52	38	63	55	11	01	4	105		7.10
01	15	860817	18.52	61	64	65	12	12	4	105		6.17

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	11	4	105	01 52 S	097 57 W	6.17
01	17	860821	18.52	55	38	61	09	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		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	12	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
01	03	860822	18.52	63	05	65	11	03	101			6.17
01	04	860822	18.52	61	38	55	11	02	101			2.78
02	01	860822	18.52	61	38	55	11	02	101	02 50 S	095 25 W	1.54
02	02	860822	18.52	38	55	61	11	02	101			6.17
02	03	860822	18.52	55	61	38	11	02	101	02 49 S	095 18 W	6.17
02	04	860822	18.52	61	38	55	11	02	101			4.32
02	05	860822	18.52	63	64	05	11	02	101			6.17
02	06	860822	18.52	64	05	63	11	02	101			1.23
02	07	860822	18.52	64	05	63	11	02	101	02 52 S	095 11 W	4.94
02	08	860822	18.52	05	63	64	11	01	101			6.17
02	09	860822	18.52	63	64	05	11	01	101			6.79
02	10	860822	18.52	64	05	63	11	01	101	02 55 S	095 01 W	5.56
03	01	860822	18.52	05	63	64	11	01	101	02 56 S	095 01 W	5.56
03	02	860822	18.52	55	61	38	11	12	101			6.17
03	03	860822	18.52	61	38	55	11	12	101	02 58 S	094 54 W	6.17
03	04	860822	18.52	38	55	61	12	12	101			1.85
03	05	860822	18.52	38	55	61			101			3.70
03	06	860822	18.52	63	64	05	12	12	101			7.10
03	07	860822	18.52	55	61	38	12	12	101	03 00 S	094 46 W	6.17
03	08	860822	18.52	61	38	55	12	12	101			6.17
03	09	860822	18.52	63	64	05	12	12	101			3.09
03	10	860822	18.52	63	64	05	12	12	095	03 02 S	094 38 W	4.01
03	11	860822	18.52	64	05	63	12	12	095			1.54
03	12	860822	18.52	64	05	63	12	12	095			4.63
03	13	860822	18.52	05	63	64	12	12	095			6.17
03	14	860822	18.52	63	64	05	12	01	095			6.17
03	15	860822	18.52	64	05	63	12	01	095	03 04 S	094 30 W	3.09
03	16	860822	18.52	64	05	63			095			3.09
03	17	860822	18.52	05	63	64			095			6.17
03	18	860822	18.52	55	38	61			095			6.17
03	19	860822	18.52	38	61	55			095	03 05 S	094 21 W	6.17
03	20	860822	18.52	61	55	38			095			6.17
03	21	860822	18.52	55	38	61			095			6.17
03	22	860822	18.52	38	61	55			095	03 06 S	094 02 W	6.17
03	23	860822	18.52	61	55	38			095			5.25
03	24	860822	18.52	63	64	05			095			6.17
03	25	860822	18.52	64	05	63			095	03 08 S	094 05 W	6.17

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz. Vert.			Latitude	Longitude	
01	07	860825	18.52	61	05	55		5	088	03 41 S	085 51 W	4.32
01	08	860825	18.52	63	64	38		5	088			6.17
01	09	860825	18.52	64	38	63		5	088			6.17
01	10	860825	18.52	38	63	64		5	088			6.17
01	11	860825	18.52	63	64	38	11 01	4	088			5.25
02	01	860825	18.52	64	38	63		4	088	03 39 S	085 40 W	3.09
02	02	860825	18.52	55	61	05		4	088			6.17
02	03	860825	18.52	61	05	55		4	088			6.17
02	04	860825	18.52	05	55	61	12 12	4	088			1.23
02	05	860825	18.52	05	55	61		4	088			0.62
02	06	860825	18.52	05	55	61	12 12	4	088			0.62
02	07	860825	18.52	64	63	38		4	088			6.17
02	08	860825	18.52	64	38	63		4	088	03 37 S	085 27 W	2.16
02	09	860825	18.52	05	55	61		4	088			2.78
02	10	860825	18.52	55	61	05		4	088			3.40
02	11	860825	18.52	55	61	05		4	088	03 37 S	085 23 W	0.31
03	01	860825	18.52	64	63	38		4	088	03 38 S	085 22 W	6.17
03	02	860825	18.52	63	38	64		4	088	03 37 S	085 17 W	1.85
04	01	860825	18.52	63	38	64		4	088	03 37 S	085 17 W	1.85
05	01	860825	18.52	38	64	63		4	088	03 41 S	085 18 W	3.70
06	01	860825	18.52	38	64	63		4	088	03 41 S	085 17 W	2.47
06	02	860825	18.52	64	63	38		4	088			6.17
06	03	860825	18.52	61	55	05		4	088			6.79
06	04	860825	18.52	55	05	61		4	088	03 39 S	085 06 W	6.17
06	05	860825	18.52	05	61	55		4	088			6.17
06	06	860825	18.52	61	55	05		3	088			6.17
06	07	860825	18.52	55	05	61		3	088	03 38 S	084 56 W	6.17
07	01	860825	18.52	05	61	55		3	088	03 38 S	084 54 W	3.40
01	01	860826	18.52	63	64	38		2	080	03 28 S	083 44 W	1.23
01	02	860826	18.52	55	61	05		2	080			7.41
02	01	860826	18.52	63	64	38		2	080	03 24 S	083 34 W	6.17
02	02	860826	18.52	64	38	63		2	080			1.85
03	01	860826	18.52	55	61	05		2	082	03 22 S	083 25 W	6.79
04	01	860826	18.52	55	61	05		2	082	03 19 S	083 17 W	3.09
04	02	860826	18.52	61	05	55		1	082			7.41
04	03	860826	18.52	05	55	61		2	082			5.86
04	04	860826	18.52	64	38	63		2	082	03 17 S	083 08 W	4.63

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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			2.47
11	01	860826	18.52	38	64	63	08	01	082	03 06 S	082 28 W	0.31
11	02	860826	18.52	64	63	38	07	01	082	03 06 S	082 26 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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	12	5	203			1.23
02	14	860906	18.52	38	63	64	12	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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			0.31
01	01	860907	18.52	63	64	38		4	327	10 50 S	084 22 W	0.93
01	02	860907	18.52	05	61	55		4	327	12 31 S	085 05 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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			5.86
02	01	860908	18.52	38	63	55		2	327	08 37 S	087 41 W	3.70
02	02	860908	18.52	64	61	05		2	327			3.70
03	01	860908	18.52	61	05	64		3	327	08 28 S	087 44 W	6.17
03	02	860908	18.52	05	64	61		3	327			6.17
03	03	860908	18.52	64	61	05		3	327	08 22 S	087 48 W	5.25
03	04	860908	18.52	64	61	05		3	327			0.93
03	05	860908	18.52	61	05	64		3	327			3.40
03	06	860908	18.52	55	38	63		3	327			6.17
03	07	860908	18.52	38	63	55		3	327			6.17
03	08	860908	18.52	63	55	38		3	327			6.17

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
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			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	03	01	4	000	03 06 S 099 26 W	3.70
03	02	860913	18.52	55	61	38	03	01	4	000		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	03 03 S 099 29 W	0.31
05	01	860913	18.52	61	38	55	03	12	4	000	03 02 S 099 29 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
08	01	860913	18.52	38	64	55	09	02	000	02 08 S	099 31 W	6.79
08	02	860913	18.52	64	55	38	09	02	000			3.09
09	01	860913	18.52	05	61	63	09	03	000			5.86
09	02	860913	18.52	05	61	63	09	03	000	01 59 S	099 34 W	0.31
01	01	860914	18.52	55	63	05			000	00 06 S	099 37 W	6.17
01	02	860914	18.52	63	05	55			000			1.85
01	03	860914	18.52	55	05	20			000			1.85
01	04	860914	18.52	63	05	55			000			9.88
01	05	860914	18.52	05	55	63			000			2.16
02	01	860914	18.52	55	63	05			061	00 09 N	099 35 W	1.85
02	02	860914	18.52	64	61	38	01	02	061			4.32
03	01	860914	18.52	61	38	64	01	02	061	00 13 N	099 29 W	6.17
03	02	860914	18.52	38	64	61			061			2.16
04	01	860914	18.52	64	61	38			061			6.17
04	02	860914	18.52	61	38	64	01	01	061			6.17
04	03	860914	18.52	38	64	61	01	01	061			2.16
04	04	860914	18.52	38	64	61	01	01	061			1.54
04	05	860914	18.52	63	55	05	01	01	061			6.17
04	06	860914	18.52	55	05	63	12	12	061	00 25 N	099 15 W	6.79
04	07	860914	18.52	05	63	55	12	12	061			6.17
04	08	860914	18.52	63	55	05	12	12	061			6.17
04	09	860914	18.52	55	05	63	12	12	061			6.17
04	10	860914	18.52	05	63	55	12	12	061			5.56
04	11	860914	18.52	64	61	38	12	12	061			6.17
04	12	860914	18.52	61	38	64			061	00 35 N	098 59 W	1.23
04	13	860914	18.52	61	38	64			061			1.23
05	01	860914	18.52	38	64	61			061	00 38 N	098 54 W	6.17
05	02	860914	18.52	64	61	38	12	12	061			2.16
06	01	860914	18.52	61	38	64	07	01	062	00 40 N	098 50 W	6.17
07	01	860914	18.52	55	63	05	07	01	062			6.79
07	02	860914	18.52	63	05	55	07	01	062	00 46 N	098 43 W	3.40
08	01	860914	18.52	64	38	61	07	01	062	00 49 N	098 43 W	5.56
08	02	860914	18.52	64	38	61			062			0.62
08	03	860914	18.52	38	61	64			062			1.85
08	04	860914	18.52	05	55	63			062			6.17
08	05	860914	18.52	55	63	05			062			2.47
08	06	860914	18.52	38	61	64	07	02	062			5.56

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	5	310			0.93
02	01	860915	18.52	38	64	61	01	5	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	5	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	5	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	5	047			6.17
05	11	860915	18.52	38	64	61	12	5	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	5	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	00 15 N	096 40 W	2.78
07	02	860915	18.52	05	55	63		5	047			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	5	047			3.09

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	10	02	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	12	12	140	00 33 S	095 05 W	6.17
04	08	860916	18.52	55	05	63	12	12	140			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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
04	14	860916	18.52	38	61	64	12	12	135			6.17
04	15	860916	18.52	61	64	38	03	12	135			5.25
04	16	860916	18.52	61	64	38	03	12	135	00 47 S	094 52 W	0.31
05	01	860916	18.52	55	63	05	08	03	043	00 35 S	094 31 W	6.17
05	02	860916	18.52	63	05	55	08	03	043			2.47
01	01	860917	18.52	63	61	38			042	00 34 N	093 31 W	6.17
01	02	860917	18.52	61	38	63			042			6.17
01	03	860917	18.52	38	63	61			042			6.17
01	04	860917	18.52	63	61	38			042			6.17
01	05	860917	18.52	61	38	63			042			6.17
01	06	860917	18.52	38	63	61			042			6.17
01	07	860917	18.52	55	64	05			042			6.17
02	01	860917	18.52	64	05	55			047	00 56 N	093 17 W	3.40
03	01	860917	18.52	38	61	63			047	01 07 N	093 06 W	6.17
04	01	860917	18.52	38	61	63			047	01 11 N	093 00 W	4.01
04	02	860917	18.52	61	63	38			047			3.40
04	03	860917	18.52	63	38	61			047			6.17
04	04	860917	18.52	63	38	61			047			1.54
05	01	860917	18.52	55	64	05			047			2.47
06	01	860917	18.52	64	05	55			058	01 19 N	092 55 W	4.32
06	02	860917	18.52	64	05	55			058	01 21 N	092 53 W	6.17
06	02	860917	18.52	05	55	64			058			2.78
07	01	860917	18.52	61	38	63			040	01 14 N	092 42 W	7.10
07	02	860917	18.52	55	64	05			040			5.25
07	03	860917	18.52	38	63	61			040			6.17
07	04	860917	18.52	63	61	38			040			4.32
08	01	860917	18.52	55	05	64			053			0.31
01	01	860918	18.52	55	64	05			068	02 27 N	091 08 W	6.17
01	02	860918	18.52	64	05	55			068			5.56
02	01	860918	18.52	05	55	64			068			1.23
02	02	860918	22.22	05	55	64			068	02 28 N	091 02 W	5.93
02	03	860918	22.22	55	64	05			068			3.33
03	01	860918	22.22	55	64	05			068	02 31 N	090 56 W	2.59
03	02	860918	22.22	64	05	55			068			5.19
04	01	860918	22.22	61	38	63			068	02 35 N	090 51 W	7.41
04	02	860918	22.22	38	63	61			068			6.67
04	03	860918	22.22	38	63	61	01	01	068			0.74
04	04	860918	22.22	63	61	38	01	01	068			7.41

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
04	05	860918	22.22	61	38	63	01	01	068			4.07
04	06	860918	22.22	61	38	63			068			3.33
04	07	860918	22.22	38	63	61			068			7.04
04	08	860918	22.22	38	63	61			068	02 43 N	090 30 W	4.07
04	09	860918	22.22	63	61	38			068			6.30
04	10	860918	22.22	64	55	05			068			7.41
04	11	860918	22.22	55	05	64			068			7.41
04	12	860918	22.22	05	64	55			068			7.41
04	13	860918	22.22	64	55	05			068			7.78
04	14	860918	22.22	55	05	64			068			7.41
04	15	860918	22.22	05	64	55			068			4.82
04	16	860918	22.22	05	64	55	12	12	068			5.19
04	17	860918	22.22	38	61	63			068			7.41
04	18	860918	22.22	61	63	38			068			3.33
04	19	860918	22.22	61	63	38			065	02 56 N	089 54 W	0.37
05	01	860918	22.22	61	63	38			065	02 55 N	089 53 W	1.11
05	02	860918	22.22	63	38	61			065			7.41
05	03	860918	22.22	38	61	63	06	01	065			7.41
05	04	860918	22.22	61	63	38	07	01	065			7.41
05	05	860918	22.22	63	38	61	07	01	065			4.07
05	06	860918	22.22	55	64	05	07	01	065			6.67
05	07	860918	22.22	64	05	55	07	01	065			7.41
05	08	860918	22.22	05	55	64			065			5.93
05	09	860918	22.22	63	61	38			065	03 06 N	089 25 W	7.78
05	10	860918	22.22	64	55	05			065			7.41
05	11	860918	22.22	55	05	64	07	02	065			8.15
05	12	860918	22.22	63	61	38	07	02	065			7.41
05	13	860918	22.22	61	38	63			065			1.85
06	01	860918	22.22	38	63	61			065			3.70
06	02	860918	22.22	38	63	61			065	03 10 N	089 06 W	0.74
01	01	860919	18.52	61	63	38			064	03 53 N	087 25 W	6.17
01	02	860919	18.52	63	38	61			064			4.63
01	03	860919	22.22	63	38	61			064			1.85
01	04	860919	22.22	38	61	63			064			7.41
01	05	860919	22.22	61	63	38			064			6.30
02	01	860919	22.22	63	38	61			064	04 00 N	087 09 W	7.41
02	02	860919	22.22	38	61	63			064			6.30

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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 02	3	066			4.44
01	12	860920	22.22	61	05	63	01 02	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 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	61	05	63		2	004			2.96
03	09	860921	22.22	05	63	61		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 01	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
03	08	860923	18.52	05	55			3	180			3.40
03	09	860923	18.52	05	55	09	01	3	180			0.62
03	10	860923	18.52	05	55			3	200			2.16
03	11	860923	18.52	55	61			3	200			6.17
04	01	860923	18.52	61	05			3	200	05 53 N	079 29 W	6.17
04	02	860923	18.52	05	55			3	200			1.54
04	03	860923	18.52	64	38			3	200	05 48 N	079 31 W	6.17
05	01	860923	18.52	38	63			3	200	05 43 N	079 33 W	3.09
06	01	860923	18.52	55	61			3	200	05 36 N	079 36 W	5.56
06	02	860923	18.52	55	61			4	200			1.54
06	03	860923	18.52	61	05			4	200			6.17
07	01	860923	18.52	05	55			4	201	05 30 N	079 38 W	4.63
08	01	860923	18.52	63	64			3	201	05 24 N	079 39 W	6.17
08	02	860923	18.52	64	38			4	201			6.17
08	03	860923	18.52	38	63	02	02	4	201			6.17
08	04	860923	18.52	63	64	02	02	4	201			6.17
08	05	860923	18.52	55	61			5	201			4.63
08	06	860923	18.52	64	38			5	201			6.48
08	07	860923	18.52	38	63			5	201			1.23
08	08	860923	18.52	05	61			5	201			5.25
09	01	860923	18.52	61	55			5	201	05 03 N	079 46 W	6.48
01	01	860924	18.52	05	61			6	204	03 13 N	080 26 W	6.17
01	02	860924	18.52	61	55			6	204			2.16
01	03	860924	18.52	63	64	09	03	6	204			6.48
01	04	860924	18.52	61	55	09	03	6	204			6.17
01	05	860924	18.52	55	05	09	03	6	204			1.85
01	06	860924	18.52	55	05	09	02	6	204			4.32
01	07	860924	18.52	05	61	09	02	6	204			6.17
01	08	860924	18.52	61	55	09	02	6	204			4.32
01	09	860924	18.52	64	38	09	02	6	204	02 52 N	080 35 W	4.63
02	01	860924	18.52	38	63	09	02	6	204			6.17
02	02	860924	18.52	63	64	09	02	6	204			6.17
02	03	860924	18.52	64	38	09	02	6	204			6.17
02	04	860924	18.52	38	63	09	01	6	204			6.17
02	05	860924	18.52	63	64	09	01	6	204			3.40
02	06	860924	18.52	61	61	09	01	6	204			6.79
02	07	860924	18.52	61	05	09	01	6	204	02 36 N	080 42 W	6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	08	860924	18.52	05	55	61	12	12	204			4.94
02	09	860924	18.52	05	55	61		6	204			1.23
02	10	860924	18.52	55	61	05	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	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			5.86
02	01	860925	18.52	55	61	05		5	197			3.70
02	02	860925	18.52	55	61	05		5	197			1.85
02	03	860925	18.52	55	61	05		5	197	00 23 S	081 46 W	0.93
02	04	860925	18.52	61	05	55		5	197			6.17
02	05	860925	18.52	05	55	61		5	197			2.16
02	06	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
05	06	860925	18.52	64	38	63		4	212			3.09
06	01	860925	18.52	64	38	63		4	212			6.79
06	02	860925	18.52	55	61	05		4	212	00 58 S	081 59 W	4.01
06	03	860925	18.52	61	05	55		4	212	01 01 S	082 01 W	0.62
07	01	860925	18.52	61	05	55		4	269	01 00 S	082 02 W	0.93
08	01	860925	18.52	61	05	55		4	269	01 00 S	082 04 W	0.93
09	01	860925	18.52	61	05	55		4	269			6.79
09	02	860925	18.52	05	55	61		4	269			6.48
09	03	860925	18.52	55	61	05		4	269			6.17
09	04	860925	18.52	38	64	63		4	269			6.79
09	05	860925	18.52	64	63	38		4	269			6.79

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			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	55	63		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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	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	3	032	03 46 N	081 44 W	5.86
02	01	860928	18.52	64	05	61		3	032			0.31
02	02	860928	18.52	05	61	64	01	3	032			1.23
02	03	860928	18.52	55	38	63	01	3	032			7.10
02	04	860928	18.52	38	63	55	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	3	032	04 11 N	081 25 W	1.54
05	01	860928	18.52	63	38	55	08	3	032			6.17
05	02	860928	18.52	38	55	63	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
05	04	860928	18.52	55	63			2	032			4.32
05	05	860928	18.52	55	63	08	01	2	032			1.85
05	06	860928	18.52	63	38	08	01	2	032			6.17
05	07	860928	18.52	38	55	08	01	2	032			4.94
05	08	860928	18.52	38	55			2	032			1.23
05	09	860928	18.52	55	63	08	02	2	032			8.03
05	10	860928	18.52	64	61			2	032			6.17
05	11	860928	18.52	61	05	08	02	3	032			3.09
05	12	860928	18.52	61	05			3	032			1.54
06	01	860928	18.52	61	64	08	02	3	032	04 38 N	081 06 W	5.25
01	01	860929	18.52	38	61			3	031	06 05 N	080 08 W	4.63
01	02	860929	18.52	38	61			3	027			1.54
01	03	860929	18.52	61	55			3	027			3.09
01	04	860929	18.52	63	64			3	027			4.32
01	05	860929	18.52	63	64	02	02	3	027	06 12 N	080 06 W	2.47
01	06	860929	18.52	61	55	02	02	3	027			3.40
01	07	860929	18.52	61	55			3	027			2.78
01	08	860929	18.52	55	38			3	000			1.85
01	09	860929	18.52	55	38			3	000			1.85
02	01	860929	18.52	55	38			3	032	06 20 N	080 05 W	1.85
02	02	860929	18.52	38	61			3	032			7.72
02	03	860929	18.52	63	64			3	032			6.17
02	04	860929	18.52	64	20			2	032			2.78
03	01	860929	18.52	64	20			2	032	06 29 N	080 00 W	1.23
03	02	860929	18.52	64	20	02	02	1	032			1.23
03	03	860929	18.52	05	63	02	01	1	032	06 30 N	079 59 W	6.48
03	04	860929	18.52	63	64	02	01	1	032			3.09
03	05	860929	18.52	63	64			1	032			2.47
04	01	860929	18.52	64	05			1	032	06 37 N	079 55 W	1.54
04	02	860929	18.52	64	05	02	01	1	032	06 38 N	079 54 W	4.63
04	03	860929	18.52	05	63	02	01	1	032	06 40 N	079 53 W	1.54
05	01	860929	18.52	38	61	03	01	1	042	06 44 N	079 55 W	6.17
05	02	860929	18.52	61	55	12	12	1	042	06 46 N	079 53 W	1.54
05	03	860929	18.52	61	55			1	042			0.62
05	04	860929	18.52	63	05	12	12	1	042			1.54
05	05	860929	18.52	63	05			1	085			1.54
05	06	860929	18.52	63	05			1	042			3.09

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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	63	05	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	05	55	63	07	01	258			6.17
04	05	861005	18.52	61	64	38	08	12	258			6.17
04	06	861005	18.52	55	63	05	08	12	258			4.63
04	07	861005	18.52	63	05	55	08	12	258			1.54
05	01	861005	18.52	64	38	61	12	12	258	06 41 N	081 28 W	4.32
05	02	861005	18.52	64	38	61	12	12	259			5.56
05	03	861005	18.52	38	61	64	12	12	259			6.17
05	04	861005	18.52	61	64	38	12	12	259			5.25
06	01	861005	18.52	64	38	61	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	07	02	257			1.23
01	08	861006	18.52	61	64	38			257			4.63
01	09	861006	18.52	61	64	38	07	02	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	09	03	180			5.49
01	06	861008	16.48	63	38	61	09	03	180			5.49
01	07	861008	16.48	38	61	63	09	03	180			2.20
01	08	861008	16.48	38	61	63	09	02	180			3.30
01	09	861008	16.48	61	63	38	09	02	180			4.94
01	10	861008	16.48	64	55	05	09	02	180			5.49

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
05	01	861009	18.52	63	61	38	03	4	186	01 23 S	087 43 W	6.17
05	02	861009	18.52	61	38	63		4	186			6.17
05	03	861009	18.52	61	38	63		4	186	01 30 S	087 44 W	0.31
01	01	861010	17.59	63	61	38		4	274	01 54 S	089 05 W	2.35
02	01	861010	18.52	61	38	63		4	274	01 48 S	089 07 W	6.17
02	02	861010	18.52	38	63	61		4	274			2.47
02	03	861010	18.52	64	55	05		3	274			5.56
03	01	861010	18.52	38	63	61		3	274	01 47 S	089 18 W	4.32
03	02	861010	18.52	05	64	55		3	274			6.17
03	03	861010	18.52	64	55	05	06	4	274			1.54
03	04	861010	18.52	64	55	05	06	4	280			4.63
03	05	861010	18.52	55	05	64	06	4	280			6.17
03	06	861010	18.52	05	64	55	01	4	280			6.17
03	07	861010	18.52	64	55	05	06	4	280			6.17
03	08	861010	18.52	55	05	64	06	4	280			6.17
03	09	861010	18.52	63	61	38		3	280			4.63
04	01	861010	18.52	61	38	63	12	3	280	01 42 S	089 51 W	6.17
04	02	861010	18.52	38	63	61		3	280			1.23
04	03	861010	9.26	38	63	61		3	280			0.62
04	04	861010	18.52	38	63	61		3	280			0.93
04	05	861010	18.52	64	55	05	12	3	280			3.40
05	01	861010	18.52	55	05	64		3	285	01 41 S	090 01 W	2.78
06	01	861010	18.52	05	64	55		3	285	01 38 S	090 09 W	6.17
06	02	861010	18.52	64	55	05		3	285			2.16
06	03	861010	18.52	38	63	61		3	285			2.78
07	01	861010	18.52	38	63	61		3	275	01 38 S	090 16 W	4.63
07	02	861010	18.52	63	61	38		3	275			6.17
07	03	861010	18.52	61	38	63		3	275			5.86
08	01	861010	18.52	55	64	05		3	275	01 35 S	090 37 W	6.17
08	02	861010	18.52	61	63	38		3	275			5.56
08	03	861010	18.52	64	05	55		3	275	01 34 S	090 44 W	1.54
01	01	861011	18.52	63	61	05		3	270	01 27 S	092 35 W	6.17
01	02	861011	18.52	61	05	63		3	270			6.17
01	03	861011	18.52	05	63	61		3	270			3.40
01	04	861011	18.52	55	64	38		3	270			1.23
02	01	861011	18.52	05	63	61		3	270	01 26 S	092 49 W	5.56
02	02	861011	18.52	63	61	05		3	270			1.85

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	5	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			6.17
05	14	861011	18.52	63	61	05	09	4	336			7.72
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	6.17
05	17	861011	18.52	05	63	61	01	4	336			3.70
05	18	861011	18.52	63	61	05	01	4	336			2.47
05	19	861011	18.52	61	05	63	01	4	336			6.17
05	20	861011	18.52	05	63	61		4	336			6.17
05	21	861011	18.52	64	38	55		4	336			6.17
06	01	861011	18.52	38	55	64	10	4	336	00 25 S	093 53 W	7.72
06	02	861011	18.52	55	64	38	02	4	336			12.35
01	01	861012	18.52	64	38	55	03	3	336			1.85
01	02	861012	18.52	38	55	64		5	339	01 16 N	094 40 W	6.17
02	01	861012	18.52	55	64	38		5	339			6.17
02	02	861012	18.52	55	64	38	04	5	338	01 24 N	094 42 W	4.32
02	03	861012	18.52	64	38	55	02	5	338			2.16
02	04	861012	18.52	63	61	05	04	5	338			2.47
02	05	861012	18.52	61	05	63	04	5	338			6.17
02	06	861012	18.52	61	05	63	04	5	338			4.63
				61	05	63		5	338			1.54

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
03	05	861014	16.67	55	61			5	269			4.44
03	06	861014	16.67	55	61	07	01	5	269			2.50
03	07	861014	16.67	61	05			5	269			2.22
03	08	861014	16.67	63	64			5	269			5.56
03	09	861014	16.67	64	38			5	269			5.56
03	10	861014	16.67	38	63			5	269			5.56
04	01	861014	16.67	63	64			5	269	02 42 N	101 12 W	5.56
04	02	861014	16.67	64	38			5	269			6.39
04	03	861014	16.67	05	61	12	12	5	269			5.56
04	04	861014	16.67	61	55	12	12	5	269			7.22
04	05	861014	16.67	55	05	12	12	5	269			2.50
04	06	861014	16.67	55	05			5	269			3.06
04	07	861014	16.67	05	61			5	269			5.56
04	08	861014	16.67	61	55			5	269			5.56
04	09	861014	16.67	55	05			5	269			3.33
04	10	861014	16.67	63	38			6	269			5.56
04	11	861014	16.67	38	64			6	269			5.56
04	12	861014	16.67	64	63			6	269	02 42 N	101 45 W	5.56
04	13	861014	16.67	63	38			6	269			5.56
04	14	861014	16.67	38	64			6	269			5.56
04	15	861014	16.67	63	64			6	269			5.83
04	16	861014	16.67	55	61			6	269			5.56
04	17	861014	16.67	61	05			6	269			2.78
01	01	861015	22.22	55	61			6	269	02 39 N	104 22 W	7.41
01	02	861015	22.22	61	20			6	269			7.41
01	03	861015	22.22	20	55	06	03	6	269			4.07
01	04	861015	22.22	20	55			6	269			1.48
01	05	861015	22.22	38	64			6	269			7.41
01	01	861016	22.22	64	63			6	255	02 17 N	109 01 W	7.41
01	02	861016	22.22	63	38			6	255			7.41
01	03	861016	22.22	38	64			6	255			1.85
01	04	861016	22.22	61	55			6	255			7.78
01	05	861016	18.52	38	64			6	255			6.17
01	06	861016	18.52	64	63			6	255			6.17
01	07	861016	18.52	63	38			6	255			4.32
01	08	861016	18.52	61	05			6	255			6.17
01	09	861016	18.52	05	55			6	255			3.70

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
03	05	861019	18.52	63	55	38	12	12	6	264		6.79
03	06	861019	18.52	55	38	63	12	12	6	264		1.54
04	01	861019	18.52	63	38	55			5	284	04 01 N 120 07 W	6.48
04	02	861019	18.52	38	55	63			5	284		6.17
04	03	861019	18.52	55	63	38			5	284		4.63
04	04	861019	18.52	55	63	38			5	284		0.31
01	01	861020	18.52	55	61	38			5	285	04 02 N 120 15 W	6.17
01	02	861020	18.52	61	38	55			5	285	04 20 N 121 40 W	3.70
02	01	861020	18.52	64	63	05			5	285	04 20 N 121 53 W	5.86
02	02	861020	18.52	38	55	61			5	285		6.17
02	03	861020	18.52	55	61	38			5	285		6.79
02	04	861020	18.52	63	64	05			5	285		6.17
02	05	861020	18.52	64	05	63			5	285		6.17
02	06	861020	18.52	05	63	64			6	285		6.17
02	07	861020	18.52	63	64	05	06	02	6	285		6.17
02	08	861020	18.52	64	05	63			6	285		3.09
03	01	861020	18.52	38	61	55			6	284	04 34 N 122 14 W	6.17
03	02	861020	18.52	61	55	38			6	284		6.17
03	03	861020	18.52	55	38	61			6	284		6.79
03	04	861020	18.52	38	61	55			6	284		3.40
01	01	861021	18.52	63	64	05			5	282	05 19 N 124 48 W	6.17
01	02	861021	18.52	64	05	63			5	282		2.47
01	03	861021	18.52	64	05	63	06	03	5	282		2.78
01	04	861021	18.52	61	38	55	06	03	5	282		7.10
01	05	861021	18.52	05	63	64	06	02	5	282		6.17
01	06	861021	18.52	63	64	05	06	02	5	282		2.16
01	07	861021	12.96	63	64	05	06	02	5	282		2.81
01	08	861021	12.96	64	05	63	06	02	5	282		4.32
01	09	861021	12.96	55	38	61			5	282		4.32
01	10	861021	18.52	38	61	55	06	01	5	282		6.17
01	11	861021	18.52	61	55	38	06	01	5	282		6.17
01	12	861021	18.52	55	38	61			5	282	05 26 N 125 15 W	6.17
01	13	861021	18.52	38	61	55			5	282		6.17
01	14	861021	18.52	61	55	38			5	282		6.48
01	15	861021	18.52	64	63	05			5	282		6.17
01	16	861021	18.52	63	05	64			5	282		6.17
01	17	861021	18.52	05	64	63			6	282		3.09

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	05 16 N 131 52 W	6.17
02	01	861023	18.52	64	38	61	07	01	5	258	05 19 N 131 58 W	4.01
03	01	861023	18.52	55	63	05	07	01	5	258	05 21 N 132 04 W	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	05 12 N 132 54 W	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	05 05 N 133 09 W	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	05 11 N 133 11 W	1.85
05	02	861023	18.52	61	64	38	12	03	4	256		4.94
05	03	861023	18.52	61	64	38			4	256		1.23
05	04	861023	18.52	64	38	61			4	256		5.56
01	01	861024	18.52	64	61	38			3	249	05 06 N 134 33 W	2.47
02	01	861024	18.52	63	55	05			3	249	05 04 N 134 39 W	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	05 02 N 134 44 W	2.16
03	01	861024	18.52	55	05	63	07	02	2	249	05 01 N 134 47 W	6.79
03	02	861024	18.52	05	63	55	08	01	2	249		6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
03	03	861024	18.52	63	55	05	08	01	2	249		6.17
03	04	861024	18.52	55	05	63	08	01	2	249		6.79
03	05	861024	18.52	05	63	55	08	01	2	249	04 57 N 135 01 W	9.88
03	06	861024	18.52	38	64	61	08	01	3	249		6.17
03	07	861024	18.52	64	61	38	08	01	3	249		6.17
03	08	861024	18.52	61	38	64	12	12	3	249		6.17
03	09	861024	18.52	38	64	61	12	12	3	249		6.17
03	10	861024	18.52	64	61	38	12	12	3	249		6.17
03	11	861024	18.52	61	38	64	12	12	3	249		2.16
03	12	861024	18.52	55	63	05	12	12	3	249		6.48
03	13	861024	18.52	63	05	55	12	12	3	249		6.17
03	14	861024	18.52	05	55	63	12	12	3	249		5.56
03	15	861024	18.52	05	55	63	12	12	3	249	04 46 N 135 31 W	3.70
03	16	861024	18.52	55	63	05	12	12	3	249		6.17
03	17	861024	18.52	63	05	55	12	12	3	249		6.17
03	18	861024	18.52	63	55	05	12	12	3	249		3.09
03	19	861024	18.52	61	64	38	12	12	3	249		6.17
03	20	861024	18.52	64	38	61	12	01	3	249		6.17
03	21	861024	18.52	38	61	64	12	01	3	249		6.17
03	22	861024	18.52	61	64	38	12	01	3	249		6.17
03	23	861024	18.52	64	38	61	12	01	3	249		3.09
03	24	861024	18.52	64	38	61	12	01	3	249	04 37 N 135 56 W	2.16
03	25	861024	18.52	64	38	61		01	3	249		0.93
03	26	861024	18.52	38	61	64			3	249		7.41
03	27	861024	18.52	05	63	55			3	249		1.85
01	01	861025	18.52	05	63	55			4	290	04 58 N 137 41 W	2.78
01	02	861025	18.52	05	63	55	06	03	4	290		3.40
01	03	861025	18.52	63	55	05	06	03	4	290		4.63
01	04	861025	18.52	63	55	05	06	03	4	360		0.62
01	05	861025	18.52	63	55	05	06	03	4	290		0.93
01	06	861025	18.52	55	05	63	06	03	4	290		1.85
01	07	861025	18.52	38	61	64	06	03	4	290		6.17
01	08	861025	18.52	55	05	63	06	02	4	290		4.63
01	09	861025	18.52	05	63	55	06	02	4	290		6.79
01	10	861025	18.52	63	55	05	06	02	5	290		5.25
01	11	861025	18.52	64	61	38	06	02	5	290	05 07 N 138 06 W	6.17
01	12	861025	18.52	61	38	64	06	02	5	290		6.17

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	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			2.47
08	08	861026	18.52	05	55	64			291	06 48 N	142 40 W	6.17
08	09	861026	18.52	05	55	64			291			4.63
08	10	861026	18.52	55	64	05			291			0.31
01	01	861027	18.52	55	64	05	05	03	290	06 49 N	142 45 W	0.31
01	02	861027	18.52	64	05	55			290	07 16 N	143 50 W	6.17
01	03	861027	18.52	05	55	64	06	03	290			7.72
02	01	861027	18.52	63	61	38	06	02	290	07 21 N	144 02 W	1.23
02	02	861027	18.52	55	64	05	06	02	290			5.25
02	03	861027	18.52	61	38	63	06	02	290			5.86
02	04	861027	18.52	38	63	61	06	02	290			6.17
02	05	861027	18.52	63	61	38	06	02	290			6.48
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	6.17
02	08	861027	18.52	38	63	61	06	01	290			1.23
02	09	861027	18.52	63	61	38	06	01	290			4.94
02	10	861027	18.52	64	55	05	06	01	290			5.86
							06	01	290			6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	11	861027	18.52	55	05	64	06	01	290			6.17
02	12	861027	18.52	05	64	55	07	12	290			6.48
02	13	861027	18.52	64	55	05	07	12	290			6.17
02	14	861027	18.52	55	05	64	07	12	290			2.78
03	01	861027	18.52	05	64	55	08	12	290	07 34 N	144 43 W	3.70
04	01	861027	18.52	38	63	61	08	12	290	07 35 N	144 46 W	0.93
04	02	861027	18.52	38	63	61	12	12	290			6.17
04	03	861027	18.52	63	61	38	12	12	290			6.17
04	04	861027	18.52	61	38	63	12	12	290			6.17
04	05	861027	18.52	38	63	61	10	01	290			6.17
04	06	861027	18.52	63	61	38	10	01	290			6.17
04	07	861027	18.52	61	38	63	10	01	290			5.25
04	08	861027	18.52	64	05	55	10	01	290			6.17
04	09	861027	18.52	05	55	64	10	01	290			6.17
04	10	861027	18.52	55	64	05	11	01	290			6.17
04	11	861027	18.52	64	05	55	10	01	290			6.17
04	12	861027	18.52	05	55	64	10	01	290			6.17
04	13	861027	18.52	55	64	05	10	02	290			6.17
04	14	861027	18.52	63	61	38	11	02	290			6.17
04	15	861027	18.52	61	38	63	11	02	290			3.09
05	01	861027	18.52	05	64	55	12	02	261	07 57 N	145 29 W	6.48
05	02	861027	18.52	38	63	61	12	03	261			6.17
01	01	861028	18.52	63	61	38			321	08 24 N	145 57 W	4.32
01	02	861028	18.52	63	61	38	05	03	321			1.85
01	03	861028	18.52	61	38	63	05	03	321			6.17
01	04	861028	18.52	38	63	61	05	03	321			6.17
01	05	861028	18.52	63	61	38	05	03	321			2.78
01	06	861028	18.52	55	64	05	05	02	321			4.01
02	01	861028	18.52	61	38	63	05	02	321	08 38 N	146 02 W	5.56
02	02	861028	18.52	64	05	55	05	02	321			6.17
02	03	861028	18.52	05	55	64	05	02	321			6.79
02	04	861028	18.52	55	64	05	05	02	321			6.17
02	05	861028	18.52	64	05	55	05	01	321			1.54
03	01	861028	18.52	64	05	55	05	01	321	08 51 N	146 11 W	3.09
03	02	861028	18.52	05	55	64	05	01	321			1.54
04	01	861028	18.52	38	61	63	05	01	320	08 57 N	146 15 W	6.17
04	02	861028	18.52	61	63	38	06	01	320			6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz. Vert.			Latitude	Longitude	
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		3.70
06	01	861028	18.52	38	64	05	10	02	3	320	09 43 N 146 44 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
01	19	861029	18.52	63	05	61	12	12	321			2.47
01	20	861029	18.52	64	55	38	12	12	321			5.56
01	21	861029	18.52	63	05	61	12	12	321			3.70
01	22	861029	18.52	05	61	63	12	12	321			0.93
01	23	861029	18.52	55	38	64	12	12	321			6.17
01	24	861029	18.52	38	64	55	12	12	321			6.17
01	25	861029	18.52	64	55	38	12	12	321			6.17
01	26	861029	18.52	55	38	64	12	12	321	10 41 N	147 43 W	6.17
01	27	861029	18.52	38	64	55	09	12	321			6.17
01	28	861029	18.52	64	55	38	09	12	321			5.86
01	29	861029	18.52	63	61	05	09	12	321			6.17
01	30	861029	18.52	61	05	63	09	01	321			2.16
01	31	861029	18.52	61	05	63	09	01	321			4.63
01	32	861029	18.52	61	05	63			346			0.62
01	33	861029	18.52	05	63	61			346			1.54
01	34	861029	18.52	05	63	61	09	01	346	10 55 N	147 56 W	4.63
02	01	861029	18.52	63	61	05			320	11 13 N	148 01 W	2.16
02	02	861029	18.52	63	61	05			345			1.85
02	03	861029	18.52	63	61	05			345			2.16
03	01	861029	18.52	64	55	38			320	11 17 N	148 02 W	3.70
04	01	861029	18.52	64	55	38			320			0.00
04	02	861029	18.52	64	55	38			320	11 20 N	148 03 W	0.31
01	01	861030	18.52	64	55	38			320	12 25 N	148 58 W	6.17
01	02	861030	18.52	55	38	64			320			1.85
01	03	861030	18.52	55	38	64	05	03	320			4.32
01	04	861030	18.52	38	64	55	05	02	320			3.40
01	05	861030	18.52	63	61	05	05	02	320			7.41
01	06	861030	18.52	55	64	38			320			6.17
01	07	861030	18.52	64	38	55	05	02	320			6.48
01	08	861030	18.52	38	55	64			320			1.23
01	09	861030	18.52	63	05	61			320			4.63
02	01	861030	18.52	05	61	63			320	12 45 N	149 17 W	4.32
02	02	861030	18.52	05	61	63	05	02	320			1.85
02	03	861030	18.52	61	63	05	05	02	320			6.17
02	04	861030	18.52	63	05	61	05	02	320			6.17
02	05	861030	18.52	05	61	63	05	02	320			6.17
02	06	861030	18.52	61	63	05	05	02	320			4.94

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	07	861030	18.52	55	64	38	06	01	320			6.17
02	08	861030	18.52	64	38	55	06	01	320			6.17
02	09	861030	18.52	38	55	64	06	01	320			6.17
02	10	861030	18.52	55	64	38	12	12	320			6.48
02	11	861030	18.52	63	61	05	12	12	320			1.23
02	12	861030	18.52	63	61	05	12	12	320			1.23
03	01	861030	18.52	64	38	55	12	12	320	13 10 N	149 41 W	4.01
03	02	861030	18.52	05	61	63	12	12	320			6.48
03	03	861030	18.52	61	63	05	12	12	320			6.48
03	04	861030	18.52	63	05	61	09	01	320			6.48
03	05	861030	18.52	05	61	63	09	01	320	13 22 N	149 51 W	5.56
03	06	861030	18.52	05	61	63	09	01	320			0.62
03	07	861030	18.52	61	63	05	09	01	320			4.63
03	08	861030	18.52	61	63	05	09	01	320			1.54
03	09	861030	18.52	63	05	61	09	01	320			6.48
03	10	861030	18.52	38	55	64	09	01	320			6.17
03	11	861030	18.52	55	64	38	09	01	320			6.17
03	12	861030	18.52	64	38	55	09	01	320			6.17
03	13	861030	18.52	38	55	64	09	01	320			6.17
03	14	861030	18.52	55	64	38	09	01	320			1.23
04	01	861030	18.52	55	64	38	09	01	320	13 45 N	150 10 W	2.16
04	02	861030	18.52	63	61	05	09	01	320			6.17
04	03	861030	18.52	61	05	63			320			3.09
04	04	861030	18.52	64	38	55			320			7.10
04	05	861030	18.52	63	05	61			320			6.17
04	06	861030	18.52	05	61	63			320			3.09
04	07	861030	18.52	05	61	63			320	13 56 N	150 21 W	0.31
01	01	861031	18.52	63	61	05	05	03	320	14 57 N	151 19 W	6.17
01	02	861031	18.52	61	05	63			320			6.17
01	03	861031	18.52	05	63	61			320			1.54
01	04	861031	18.52	55	64	38			320			5.86
01	05	861031	18.52	05	63	61			320			4.63
01	06	861031	18.52	63	61	05			320			6.17
01	07	861031	18.52	61	05	63			320	15 12 N	151 33 W	6.48
01	08	861031	18.52	64	38	55	05	02	320			6.17
01	09	861031	18.52	38	55	64	05	02	320			6.17
01	10	861031	18.52	55	64	38	05	02	320			6.17

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.	Vert.		Latitude	Longitude	
01	11	861031	18.52	64	38	55	05	01	4	320	15 20 N 151 40 W	6.17
01	12	861031	18.52	38	55	64	05	01	4	320		6.17
01	13	861031	18.52	55	64	38	06	01	4	320		6.17
01	14	861031	18.52	63	61	05	06	01	4	320	15 28 N 151 47 W	6.17
01	15	861031	18.52	61	05	63	06	01	4	320		6.17
01	16	861031	18.52	05	63	61	06	01	4	320		6.17
01	17	861031	18.52	63	61	05	06	01	4	320	15 35 N 151 54 W	4.63
01	18	861031	18.52	55	64	38	06	01	4	320		5.86
01	19	861031	18.52	61	05	63	06	01	4	320		8.03
01	20	861031	18.52	64	38	55	07	01	5	320		6.17
01	21	861031	18.52	38	55	64	07	01	5	320		6.17
01	22	861031	18.52	55	64	38	07	01	5	320		6.17
01	23	861031	18.52	64	38	55	09	12	5	320		6.17
01	24	861031	18.52	38	55	64	09	12	5	320		6.17
01	25	861031	18.52	55	64	38	09	01	5	320		6.17
01	26	861031	18.52	63	61	05	09	01	5	320	15 59 N 152 16 W	6.17
01	27	861031	18.52	61	05	63	09	01	5	320		6.17
01	28	861031	18.52	05	63	61	09	01	5	320		2.16
01	29	861031	18.52	05	63	61			5	320		2.16
01	30	861031	18.52	05	63	61	09	02	5	320		1.85
01	31	861031	18.52	63	61	05	09	02	5	320		5.56
01	32	861031	18.52	63	61	05	09	02	5	320		0.62
01	33	861031	18.52	61	05	63			6	320		4.63
01	34	861031	18.52	61	05	63	09	02	6	320		1.54
01	35	861031	18.52	05	63	61	09	02	6	320		3.70
01	36	861031	14.82	05	63	61	07	02	6	050		0.74
01	01	861101	18.52	64	63	38	05	03	5	318	17 19 N 153 21 W	6.17
01	02	861101	18.52	63	38	64	05	03	5	318		4.01
01	03	861101	18.52	55	61	05	05	03	5	318		4.94
01	04	861101	18.52	55	61	05	05	03	6	323		2.16
01	05	861101	18.52	38	64	63	05	03	6	323		6.17
01	06	861101	18.52	64	63	38	05	02	6	323		6.17
01	07	861101	18.52	63	38	64	05	02	6	323		6.17
01	08	861101	18.52	38	64	63	05	02	6	323		1.23
01	09	861101	18.52	05	61	55	05	02	6	323		6.17
01	10	861101	18.52	61	55	05	05	02	6	323		7.10
01	11	861101	18.52	55	05	61	05	02	6	323		6.17

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
06	04	861113	18.52	61	38	55		12	12	147		3.09
06	05	861113	18.52	63	05	64		12	12	147		6.17
06	06	861113	18.52	05	64	63		02	01	147		6.48
06	07	861113	18.52	64	63	05		02	01	147		2.78
07	01	861113	18.52	63	05	64		04	01	105	10 03 N 138 59 W	4.63
07	02	861113	18.52	63	05	64		02	01	147		1.54
07	03	861113	18.52	05	64	63		02	01	147		1.23
07	04	861113	18.52	05	64	63		02	01	147		1.85
08	01	861113	18.52	38	55	61				147	09 53 N 138 50 W	6.17
08	02	861113	18.52	55	61	38				147		6.17
08	03	861113	18.52	61	38	55				147		6.17
08	04	861113	18.52	38	55	61				147		2.78
08	05	861113	18.52	38	55	61				147	09 43 N 138 44 W	0.93
08	06	861113	18.52	38	55	61				147		1.23
09	01	861113	18.52	63	64	05		03	02	147	09 42 N 138 42 W	6.17
09	02	861113	18.52	64	05	63		03	02	147		1.54
01	01	861114	18.52	55	05	38				100	09 18 N 136 32 W	7.10
01	02	861114	18.52	61	38	64		01	02	100		6.17
01	03	861114	18.52	38	64	61		01	02	100		6.17
01	04	861114	18.52	64	61	38		01	02	100		6.17
01	05	861114	18.52	61	38	64		01	02	100		6.17
01	06	861114	18.52	38	64	61				100		1.85
01	07	861114	18.52	38	64	61		01	01	100		4.32
01	08	861114	18.52	64	61	38		01	01	100		6.17
01	09	861114	18.52	55	63	05		01	01	100		6.17
01	10	861114	18.52	63	05	55		01	01	100		6.17
01	11	861114	18.52	05	55	63		01	01	100		3.09
01	12	861114	18.52	05	55	63				100		3.09
01	13	861114	18.52	55	63	05				100		3.09
01	14	861114	18.52	64	61	38				100		6.48
01	15	861114	18.52	55	63	05				100		3.40
01	16	861114	18.52	63	05	55				100		2.47
01	17	861114	18.52	63	05	55		03	12	100		3.40
01	18	861114	18.52	38	61	64		03	12	100		6.17
01	19	861114	18.52	61	64	38				100		3.09
01	20	861114	18.52	61	64	38				042		2.16
01	21	861114	18.52	61	64	38				042		0.93

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	09	861117	18.52	55	64	05	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	3	116			5.56
03	01	861117	18.52	61	63	38	01	3	116	13 29 N	128 19 W	6.79
03	02	861117	18.52	63	38	61	01	3	116			6.17
03	03	861117	18.52	38	61	63	01	3	116			3.70
03	04	861117	18.52	05	64	55	01	3	116			6.17
03	05	861117	18.52	64	55	05	12	3	116			6.17
03	06	861117	18.52	55	05	64	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	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	03	5	116			1.54
01	04	861118	18.52	64	05	55	03	5	116			4.63
01	05	861118	18.52	05	55	64	03	5	116			6.17
01	06	861118	18.52	55	64	05	02	5	116			6.17
01	07	861118	18.52	64	05	55	02	5	116			6.17
01	08	861118	18.52	05	55	64	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	02	5	116			2.78
02	01	861118	18.52	38	61	63	02	5	116	12 16 N	125 55 W	6.17
02	02	861118	18.52	61	63	38	01	6	116			6.17
02	03	861118	18.52	63	38	61	01	6	116			6.17
02	04	861118	18.52	38	61	63	01	6	116			4.63
02	05	861118	18.52	38	61	63	01	6	116	12 10 N	125 44 W	0.31
01	01	861121	17.04	55	64	38	01	6	113	08 02 N	116 52 W	5.68

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
01	02	861121	17.04	64	38	55		6	113			5.40
01	03	861121	17.04	63	61	05	12	6	113			4.83
01	04	861121	17.04	63	61	05		6	113			0.57
01	05	861121	17.04	38	55	64		6	113			4.54
02	01	861121	17.04	55	64	38		6	113	07 55 N	116 38 W	6.53
02	02	861121	17.04	05	61	63		6	113			5.68
02	03	861121	17.59	61	63	05		6	113			6.45
02	04	861121	17.59	63	05	61		6	113			5.86
02	05	861121	17.59	05	61	63		6	113			3.81
02	06	861121	17.59	05	61	63		6	113			1.47
02	07	861121	17.59	05	61	63		6	113			0.59
02	08	861121	17.59	61	63	05		6	113			1.17
03	01	861121	17.59	64	38	55	01	5	113	07 46 N	116 18 W	5.86
03	02	861121	17.59	38	55	64	01	5	113			7.04
03	03	861121	17.59	55	64	38	01	5	113			1.17
04	01	861121	17.59	61	63	05	01	5	113	07 47 N	116 11 W	5.57
04	02	861121	17.59	64	38	55	02	5	113			4.98
04	03	861121	17.59	61	05	63	02	5	113			4.11
04	04	861121	17.59	61	05	63	02	4	113			1.76
04	05	861121	17.59	05	63	61	03	4	113			1.76
04	06	861121	17.59	05	63	61		4	113			1.76
04	07	861121	17.59	05	63	61	03	4	113			1.76
04	08	861121	17.59	05	63	61	03	4	113			1.17
04	09	861121	17.59	63	61	05	03	4	113			6.16
04	10	861121	17.59	61	05	63	03	4	113			5.86
04	11	861121	17.59	05	63	61	03	4	113			5.86
04	12	861121	17.59	63	61	05	03	4	113			4.98
04	13	861121	17.59	55	38	64	04	3	113			5.86
04	14	861121	17.59	38	64	55	04	3	113			2.93
04	15	861121	17.59	38	64	55	04	3	113			1.17
05	01	861121	17.59	64	55	38	04	3	113	07 34 N	115 42 W	5.86
05	02	861121	17.59	55	38	64	04	3	113			5.86
05	03	861121	17.59	38	64	55	04	3	113			5.86
05	04	861121	17.59	64	55	38		3	113			2.93
05	05	861121	17.59	63	61	05	04	3	113			5.86
05	06	861121	17.59	61	05	63	04	3	113			2.93
05	07	861121	17.59	55	38	64	04	3	113			6.45

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	5	117			6.22
01	13	861123	17.78	05	61	55	01	5	117			0.89
01	14	861123	17.78	05	61	55	12	5	123			5.04
01	15	861123	17.78	38	63	64	01	5	123			5.93
01	16	861123	17.78	63	64	38	12	5	123			4.74
01	17	861123	17.78	63	64	38	12	5	123			1.19
01	18	861123	17.78	64	38	63		5	123			5.33
01	19	861123	17.78	64	38	63	12	5	123			0.59
01	20	861123	17.78	38	63	64	12	5	123			5.93
01	21	861123	17.78	63	64	38	12	5	123			5.93
01	22	861123	17.78	64	38	63	12	5	123			5.04
01	23	861123	17.78	64	38	63	12	5	123	05 02 N	110 02 W	0.30
02	01	861123	19.45	38	63	64	04	5	123	05 01 N	110 00 W	6.48
02	02	861123	19.45	63	64	38	04	5	123			6.48
02	03	861123	19.45	64	38	63	04	5	123			3.24
02	04	861123	19.45	55	61	05	04	5	123			6.48
02	05	861123	19.45	61	05	55	04	5	123			6.48
02	06	861123	19.45	05	55	61	04	6	123			4.54
01	01	861124	18.89	05	61	55		5	124	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
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	03	5	037			3.15
01	10	861124	18.89	38	63	64	03	5	037			6.30
01	11	861124	18.89	63	64	38	03	5	037			6.30
01	12	861124	18.89	64	38	63	03	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	03	5	037			6.93
01	16	861124	18.89	61	05	55	03	5	037			6.93
01	17	861124	18.89	05	55	61	03	5	037			6.30
01	18	861124	18.89	55	61	05	03	5	037			6.30
01	19	861124	18.89	61	05	55	04	5	037			6.93
01	20	861124	18.89	05	55	61	04	5	037			3.46
01	21	861124	18.89	05	55	61	12	5	304			0.94
01	22	861124	18.89	05	55	61	12	5	304			6.30
01	23	861124	18.89	64	38	63	12	5	304			0.94
01	24	861124	18.89	38	63	64	12	5	304			5.98
01	25	861124	18.89	55	61	05	12	5	304			6.30
01	26	861124	18.89	63	64	38	12	5	304			2.52
01	27	861124	18.89	64	38	63		5	304			3.78
01	28	861124	18.89	64	38	63	09	5	304			6.30
01	29	861124	18.89	38	63	64	09	5	304			5.98
01	30	861124	18.89	63	64	38	09	5	304			6.93
02	01	861124	18.52	05	61	55	09	5	304	05 01 N	108 03 W	6.17
02	02	861124	18.52	61	55	05	10	5	304			6.17
02	03	861124	18.52	55	05	61	10	5	304			4.94
03	01	861124	18.71	05	61	55	10	5	304			6.24
03	02	861124	18.71	38	63	64	10	5	301	05 09 N	108 10 W	4.99
03	03	861124	18.71	55	61	05	10	5	301			6.24
03	04	861124	18.71	63	64	38	10	5	301			0.31
01	01	861125	18.52	64	63	38	10	5	301	05 14 N	108 16 W	6.17
01	02	861125	18.52	63	38	64	06	5	299	05 40 N	108 59 W	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
02	01	861125	18.52	63	38	64	06	02	299	05 47 N	109 10 W	2.16
02	02	861125	18.52	38	64	63	06	02	299			1.85
02	03	861125	18.52	55	61	05			299			6.17
02	04	861125	18.52	61	05	55	06	02	299			6.17
02	05	861125	18.52	05	55	61	06	02	299			6.17
02	06	861125	18.52	55	61	05	06	02	299			6.48
02	07	861125	18.52	61	05	55	06	01	299			1.23
03	01	861125	18.52	05	55	61	06	01	298			4.32
03	02	861125	18.52	63	64	38	06	01	298			6.17
03	03	861125	18.52	64	38	63	06	01	298			6.17
03	04	861125	18.52	38	63	64	07	01	298			6.17
03	05	861125	18.52	63	64	38	07	01	298			6.17
03	06	861125	18.52	64	38	63	07	12	298			6.17
03	07	861125	18.52	38	63	64	07	12	298			6.17
03	08	861125	18.52	55	61	05	08	12	298			6.17
03	09	861125	18.52	61	05	55	08	12	298			1.54
03	10	861125	18.52	63	64	38	12	12	298			7.10
03	11	861125	18.52	55	05	61	12	12	298			6.17
03	12	861125	18.52	05	61	55	09	12	298			6.17
03	13	861125	18.52	61	55	05	09	12	298			6.17
03	14	861125	18.52	55	05	61	09	12	298			3.70
03	15	861125	18.52	64	38	63	09	01	298			6.17
03	16	861125	18.52	38	63	64	10	01	298			6.17
03	17	861125	18.52	63	64	38	10	01	298			6.17
03	18	861125	18.52	64	38	63	10	01	298			6.17
03	19	861125	18.52	38	63	64	10	02	298			6.17
03	20	861125	18.52	63	64	38	10	02	298			6.17
03	21	861125	18.52	55	61	05	10	02	298			6.17
03	22	861125	18.52	61	05	55	10	02	298			6.17
03	23	861125	18.52	05	55	61			298			4.32
03	24	861125	18.52	05	55	61	10	03	298			1.85
03	25	861125	18.52	55	61	05	10	03	298			3.09
03	26	861125	18.52	38	64	63			298			3.40
03	27	861125	18.52	38	64	63	10	03	298			2.16
03	28	861125	18.52	55	61	05	10	03	298			4.01
03	29	861125	18.52	61	05	55	10	03	298			4.32
03	30	861125	18.52	61	05	55	10	03	298	06 34 N	110 24 W	0.31

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Rec.	Horz.			Vert.	Latitude	
01	01	861126	18.33	61	64	05	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	05	02	4	313		4.28
01	08	861126	18.33	38	55	63	05	02	4	313		6.11
01	09	861126	18.33	55	63	38	05	02	4	313		6.11
01	10	861126	18.33	63	38	55	05	02	4	313		6.11
01	11	861126	18.33	38	55	63	06	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	10	02	4	313		4.69
03	02	861126	17.59	61	05	64	10	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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM In Leg
				Left	Right	Horz.	Vert.			Latitude	Longitude	
01	02	861127	18.89	38	55			3	313			6.30
01	03	861127	18.89	55	63			3	313			4.41
01	04	861127	18.89	55	63	05	03	3	313	09 01 N	113 26 W	0.63
02	01	861127	18.89	61	64			3	314	09 10 N	113 30 W	6.30
02	02	861127	18.89	64	05	06	02	3	314			6.30
02	03	861127	18.89	05	61	06	02	3	314			6.30
02	04	861127	18.89	61	64	06	02	3	314			6.30
02	05	861127	18.89	64	05	06	02	4	314			6.30
02	06	861127	18.89	05	61	06	01	4	314			5.98
03	01	861127	18.89	38	63	07	01	4	314	09 27 N	113 49 W	6.30
03	02	861127	18.89	63	55			4	314			6.30
03	03	861127	18.89	55	38			4	314			3.15
04	01	861127	17.59	64	61			4	313	09 42 N	113 54 W	5.86
04	02	861127	17.59	61	05			4	313			5.86
04	03	861127	17.59	05	64			4	313			4.69
05	01	861127	17.59	55	63			1	313	10 01 N	114 13 W	2.93
06	01	861127	17.59	05	64			1	313	10 07 N	114 18 W	2.35
06	02	861127	17.59	05	64			1	313			3.52
06	03	861127	17.59	64	61			2	313			5.86
06	04	861127	17.59	61	05			2	313			3.81
06	05	861127	17.59	61	05			2	313	10 13 N	114 24 W	0.29
01	01	861128	18.52	64	61			2	311	11 13 N	115 27 W	6.17
01	02	861128	18.52	61	05			2	311			1.23
01	03	861128	18.52	61	05			2	311			3.70
01	04	861128	18.52	61	05			2	311	11 17 N	115 31 W	0.31
02	01	861128	18.33	55	63			3	311	11 32 N	115 48 W	6.11
02	02	861128	18.33	63	38			3	311			6.42
02	03	861128	18.33	38	55			3	311			6.11
02	04	861128	18.33	55	63			3	311			3.67
03	01	861128	18.52	61	64			3	312	11 42 N	116 05 W	6.17
03	02	861128	18.52	64	05			3	312			5.25
03	03	861128	18.52	64	05			3	312			0.93
03	04	861128	18.52	05	61			3	312			2.16
03	05	861128	18.52	63	38			3	312			6.17
03	06	861128	18.52	38	55			3	312			6.17
03	07	861128	18.52	55	63			3	312			6.17
03	08	861128	18.52	63	38			3	312			6.17

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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	03	01	051			6.17
02	11	861130	18.52	55	61	38	04	01	051			4.01
03	01	861130	18.52	05	63	64	04	01	051	15 46 N	114 35 W	1.54
03	02	861130	18.52	61	38	55	05	01	051			2.78
03	03	861130	18.52	61	38	55	05	01	051			4.32
03	04	861130	18.52	38	55	61	05	01	051			1.85
03	05	861130	18.52	55	61	38	05	01	051			6.17
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			3.70
04	03	861130	18.52	63	64	05			051			2.47
04	04	861130	18.52	64	05	63			051			6.17
04	05	861130	18.52	64	05	63	06	02	051			2.16
04	05	861130	18.52	64	05	63			051			4.01

Table 2. (continued)

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

Table 2. (continued)

Series	Leg	Date	Speed Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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 Km/Hr	Observer Codes		Sun Position		Beauf. No.	Course (Deg.)	Position		KM 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			6.17
04	06	861203	18.52	55	63	05	07	0	332	24 29 N	115 58 W	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	26 40 N	117 12 W	5.04
02	02	861204	18.89	63	05	55	05	1	329			1.26

Table 2. (continued)

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

SPECIES: OFFSHORE SPOTTED DOLPHIN (STENELLA ATTENUATA)													SPECIES CODE: 2		
DATE YRMO	SERIES	LEG	SIGHT NUMBER	SUN POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST		
				HORZ.	VERT.				DEG	MIN			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			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			2	64	0.5	08	32	S	087 43 W	20.0	166.0	144.0
860910	01	12	01			4	55	0.2	06	48	S	092 35 W	45.0	16.0	12.0
860910	02	29	02			5	38	1.6	07	33	S	093 41 W	100.0	436.0	379.0
860917	01	07	01			5	55	3.3	00	50	N	093 18 W	100.0	151.0	117.0
860917	06	02	05			4	55	7.3	01	24	N	092 48 W	55.6	465.0	395.0
860917	07	04	09			4	61	0.1	01	23	N	092 35 W	53.3	417.0	333.0
860917	08	01	10			4	05	0.8	01		N	092 W	20.0	187.0	165.0
860918	01	02	01			4	05	0.5	02	28	N	091 00 W	100.0	37.0	29.0
860928	03	03	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			5	63	1.1	03	54	N	119 12 W	100.0	34.0	27.0
861020	01	02	01			5	61	1.1	04	21	N	121 48 W	100.0	126.0	110.0
861020	02	08	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

Table 3. (continued)

SPECIES: OFFSHORE SPOTTED DOLPHIN (STENELLA ATTENUATA)										SPECIES CODE: 2			
DATE YR/MO/DY	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
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)

SPECIES: SPINNER DOLPHIN (STENELLA LONGIROSTRIS)												SPECIES CODE: 3	
DATE YRMO	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST	
												BEST	LOW
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

Table 3. (continued)

SPECIES: COMMON DOLPHIN
(DELPHINUS DELPHIS)

SPECIES CODE: 5

DATE YRMO	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	
				HORZ.	VERT.							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	03	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	02	3	61	2.6	21 07 N	113 49 W	100.0	315.0	267.0
861202	03	01	02	06	01	3	05	4.6	21 21 N	113 57 W	100.0	245.0	200.0
861202	04	05	03	07	01	3	61	4.8	21 34 N	114 02 W	100.0	694.0	606.0
861202	07	03	05	09	02	2	05	2.8	21 44 N	114 18 W	100.0	152.0	134.0
861202	08	01	06	09	03	2	63	1.2	21 45 N	114 21 W	100.0	35.0	33.0
861203	01	08	02	05	02	0	38	3.7	24 02 N	115 42 W	100.0	274.0	248.0
861203	03	04	03	06	01	1	38	5.6	24 11 N	115 52 W	100.0	312.0	290.0
861204	04	08	08	08	01	1	64	7.0	27 19 N	117 39 W	52.5	277.0	251.0
861204	06	01	12	09	02	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)

SPECIES: COASTAL SPOTTED DOLPHIN (S.A. GRAFFMANI)												SPECIES CODE: 6	
DATE YRMO	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST	
												BEST	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 YRMDY	SERIES	LEG	SIGHT NUMBER	SUN POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST
				HORZ.	VERT.				DEG	MIN			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)

SPECIES: WHITEBELLY SPINNER DOLPHIN (STENELLA LONGIROSTRIS)											SPECIES CODE: 11					
DATE YR/MO/DY	SERIES	LEG	SIGHT NUMBER	SUN POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE		PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST
				HORZ.	VERT.				DEG	MIN	DEG	MIN		BEST	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 YR/MO/DY	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	
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)

SPECIES: STRIPED DOLPHIN (S. COERULEOALBA)										SPECIES CODE: 13				
DATE YRMO	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	
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)

SPECIES: ROUGH-TOOTHED DOLPHIN (STENO BREIDANENSIS)												SPECIES CODE: 15	
DATE YRMO	SERIES	LEG	SIGHT NUMBER	SUN POSITION		DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST	
				HORZ.	VERT.			DEG MIN	DEG MIN			BEST	LOW
860803	03	02	04	09	02	2	38	0.1	19 05 N	121 26 W	100.0	1.0	1.0
860928	04	01	03	12	12	3	64	0.0	04 12 N	081 24 W	20.0	78.0	68.0
860929	04	03	06	02	01	1	05	4.0	06 40 N	079 53 W	58.0	31.0	27.0
861005	06	01	08	12	12	2	55	0.4	06 41 N	081 41 W	100.0	3.0	2.0

Table 3. (continued)

SPECIES: BOTTLENOSED DOLPHINS (TURSIOPS TRUNCATUS)													SPECIES CODE: 18	
DATE YR/MO/DY	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	
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	SERIES	LEG	SIGHT NUMBER	SUN POSITION HORZ. VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE	EST LOW
860809	02	03	02	02	01	3	0.2	00 54 S	125 29 W	100.0	15.0	13.0
860809	03	10	04	01	02	3	0.6	01 03 S	126 03 W	100.0	6.0	5.0
860905	02	06	02			5	0.1	05 52 S	082 41 W	100.0	3.0	3.0
860906	01	02	01			5	0.2	09 06 S	083 42 W	80.0	0.0*	25.0
860908	01	13	02			2	1.5	08 43 S	087 36 W	10.0	55.0	40.0
860908	03	23	06			3	0.3	07 34 S	088 20 W	100.0	6.0	5.0
860909	03	03	05	12	12	3	0.2	05 04 S	089 57 W	42.5	6.0	6.0
860913	04	01	03	03	12	4	0.2	03 03 S	099 29 W	100.0	4.0	4.0
860913	05	04	04	12	12	5	1.0	02 53 S	099 30 W	12.0	21.0	16.0
860924	01	09	01	09	02	6	0.3	02 53 N	080 36 W	100.0	4.0	4.0
860926	05	17	07			5	0.5	00 14 N	084 45 W	100.0	1.0	1.0
860927	03	04	01			5	2.0	01 30 N	082 59 W	69.3	18.0	15.0
860928	04	01	03	12	12	3	0.0	04 12 N	081 24 W	75.0	78.0	68.0
861010			12			3	0.5	01 37 S	090 26 W	25.0	32.0	27.0
861010	06	03	09			3	0.0	01 38 S	090 14 W	100.0	3.0	3.0
861026	03	02	02			3	0.9	06 24 N	141 39 W	100.0	6.0	5.0
861026	06	02	06			2	1.1	06 32 N	142 01 W	100.0	9.0	8.0
861116			02			3	0.0	13 58 N	131 09 W	100.0	6.0	5.0
861130	02	11	04	04	01	1	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 YRMO	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
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 (PEPONOCEPHALA ELECFIRA)														SPECIES CODE: 31		
DATE	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	DIST. (KM)	PERP. DEG	LATITUDE MIN	LONGITUDE DEG	MIN	PROPORTION (% OF SCHOOL)		MEAN SCHOOL SIZE	EST
													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 POSITION		BEAUF. VERT.	NUMBER BY	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST
				HORZ.	HORZ.								BEST	LOW	
860913	05	04	04	12	12	5	38	1.0	1.0	02 53 S	099 30 W	76.0	21.0		16.0
861113	03	03	02	11	01	3	63	1.2	1.2	10 28 N	139 17 W	100.0	12.0		11.0

Table 3. (continued)

SPECIES: PILOT WHALE (GLOBICEPHALA SP.)														SPECIES CODE: 34	
DATE YR/MO/DY	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		
860815	04	04	03	09	12	6	55	0.6	02 45 S	117 14 W	100.0	4.0	4.0		
860817	01	17	02	12	12	4	55	2.1	04 45 S	110 42 W	77.4	16.0	14.0		
860914			05			3	64	0.4	00 13 N	099 29 W	100.0	2.0	2.0		
860914	05	02	09	12	12	4	61	0.7	00 41 N	098 51 W	100.0	35.0	34.0		
860915	08	04	05	12	12	5	63	0.5	00 22 N	096 33 W	85.5	17.0	15.0		
860917	04	04	03			5	38	0.5	01 15 N	092 55 W	3.0	107.0	88.0		
860926	01	01	01			5	05	1.1	00 58 S	084 47 W	100.0	2.0	2.0		
860928	05	12	05			3	61	0.1	04 38 N	081 06 W	100.0	7.0	5.0		
861005	01	01	01			4	63	0.7	06 51 N	080 38 W	50.0	14.0	12.0		
861005	04	06	05	08	12	4	05	2.3	06 41 N	081 26 W	100.0	4.0	4.0		
861005	05	04	07	12	12	3	61	4.0	06 38 N	081 35 W	73.0	22.0	19.0		
861010			12			3	38	0.5	01 37 S	090 26 W	45.0	32.0	27.0		
861010	02	03	02			3	55	0.0	01 48 S	089 14 W	70.0	22.0	19.0		
861010	03	01	03			3	38	0.6	01 47 S	089 21 W	80.0	12.0	10.0		
861010	04	05	06	12	12	3	64	1.9	01 41 S	089 58 W	12.0	91.0	81.0		
861010	06	03	10			3	63	0.1	01 38 S	090 14 W	46.8	23.0	21.0		
861011	02	02	06			3	64	0.3	01 26 S	092 52 W	100.0	4.0	3.0		
861011	03	02	07			3	64	1.9	01 26 S	092 56 W	85.0	12.0	12.0		
861116	04	11	03			3	55	3.0	14 39 N	130 32 W	75.0	15.0	11.0		
861126	01	05	01			4	38	3.6	07 04 N	111 21 W	100.0	4.0	4.0		
861127	03	03	04			4	38	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 YRMO	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL		SIZE	EST LOW
												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)

SPECIES: SPERM WHALE (PHYSETER MACROCEPHALUS)												SPECIES CODE: 46	
DATE YRMO	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
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	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	01	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

Table 3. (continued)

SPECIES: PYGMY SPERM WHALE (KOGIA BREVICEPS)													SPECIES CODE: 47	
DATE	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST		
												BEST	LOW	
861203	04	05	05	07	01	0	05	1.1	24 29 N	115 58 W	100.0	1.0	1.0	
861204	04	05	07	07	01	0	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 YRMO	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST	
					VERT.								BEST	LOW
860803	04	08	05	12	12	1	64		0.1	18 40 N	121 30 W	100.0	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
860826	04	03	05			2	05		1.5	03 18 S	083 10 W	100.0	1.0	1.0
860826	04	03	06			2	55		0.1	03 18 S	083 10 W	100.0	1.0	1.0
860826	10	01	13			2	64		1.1	03 06 S	082 27 W	100.0	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
861005	04	07	06	12	12	4	64		1.3	06 41 N	081 28 W	100.0	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
861017	01	10	01	06	02	5	38		0.7	02 19 N	112 23 W	100.0	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
861130	01	03	02	02	03	3	05		0.7	15 17 N	115 12 W	100.0	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

Table 3. (continued)

		SPECIES: UNID. MESOPILODONT (MESOPILODONT SP.)										SPECIES CODE: 51	
DATE	SERIES	LEG	SIGHT	SUN POSITION	BEAUF.	DETECTED	PERP.	LATITUDE	LONGITUDE	PROPORTION	MEAN SCHOOL SIZE	EST	
YR/MO/DY			NUMBER	HORZ.	VERT.	NUMBER	BY	DIST. (KM)	DEG MIN	DEG MIN	(% OF SCHOOL)	BEST	LOW
860826	05	05	10	12	12	2	55	0.5	03 11 S	082 50 W	100.0	2.0	2.0
860826	12	03	15	07	02	2	61	0.1	03 05 S	082 11 W	100.0	1.0	1.0
860907	01	29	03			3	64	0.0	11 20 S	085 58 W	100.0	4.0	3.0
860923	03	11	03			3	05	0.0	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 YRMO	SERIES	LEG	SIGHT NUMBER	SUN POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST
				HORZ.	VERT.				DEG MIN	DEG MIN			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	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)

SPECIES: RORQUAL (BALAENOPTERA SP.)										SPECIES CODE: 70		
DATE	SERIES	LEG	SIGHT NUMBER	SUN POSITION HORZ. VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE	EST LOW
YR	MODY											
860815	06	12	05	06	02	6	55	0.1	02 56 S	116 43 W	100.0	8.0
860818	01	02	01	11	03	4	55	0.7	05 14 S	108 22 W	100.0	1.0
860818	04	14	05	06	02	4	64	1.1	05 20 S	107 00 W	100.0	3.0
860822	02	02	02	11	02	2	55	1.4	02 49 S	095 20 W	100.0	1.0
860908	03	06	04			3	38	0.9	08 17 S	087 52 W	100.0	1.0
860917			02			5		0.2	00 52 N	093 18 W	100.0	1.0
860917	06	02	05			4	55	7.3	01 24 N	092 48 W	1.0	395.0
860918	04	07	03			5	38	1.8	02 43 N	090 30 W	100.0	1.0
861012	03	06	03	12	12	5	05	5.1	02 15 N	095 02 W	100.0	1.0
861014	02	01	01			5	55	1.3	02 40 N	100 47 W	100.0	1.0
861026	04	04	03			2	38	0.1	06 30 N	141 53 W	100.0	1.0

Table 3. (continued)

SPECIES: MINKE WHALE (B.ACUTOROSTRATA)													
SPECIES CODE: 71													
DATE YR	SERIES	LEG	SIGHT NUMBER	SUN HORZ.	POSITION VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE EST	
												BEST	LOW
861204			13	07	03	2	05	0.1	27 41 N	117 55 W	100.0	1.0	1.0
861204	03	01	04	06	01	0	05	0.1	27 00 N	117 28 W	100.0	1.0	1.0

Table 3. (continued)

SPECIES: BRYDE'S WHALE (B. EDENI)														SPECIES CODE: 72					
DATE YRMO	SERIES	LEG	SIGHT NUMBER	SIGHT HORZ.	SUN POSITION		BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE		LONGITUDE		PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST		
					VERT.					DEG	MIN	DEG	MIN		BEST	LOW			
860815	03	08	02	11	01		6	61	0.3		02	41	S	117	26	W	1.0	1.0	
860818	01	03	02	11	03		4	61	0.5		05	15	S	108	18	W	1.0	1.0	
860915	08	04	05	12	12		5	63	0.5		00	22	N		096	33	W	17.0	15.0

Table 3. (continued)

SPECIES: UNIDENTIFIED DOLPHIN													SPECIES CODE: 77	
DATE YR/MO/DY	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	
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	
DATE YR/MO/DY	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	
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)

SPECIES: UNIDENTIFIED DOLPHIN										SPECIES CODE: 77		
DATE	SERIES	LEG	SIGHT	SUN	BEAUF.	DETECTED	PERP.	LATITUDE	LONGITUDE	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE	
YR/MO/DY			NUMBER	HORZ.	VERT.	NUMBER	DIST. (KM)	DEG MIN	DEG MIN		BEST	LOW
861031	01	07	01			4	05	15 10 N	151 31 W	100.0	0.0*	2.0
861101			02	06	02	5	38	18 31 N	154 17 W	100.0	75.0	50.0
861113	02	06	01	11	02	3	63	10 40 N	139 22 W	100.0	10.0	8.0
861113	09	02	07	03	02	4	64	09 39 N	138 41 W	100.0	0.0*	20.0
861117	03	02	05	02	01	3	38	13 27 N	128 15 W	100.0	1.0	1.0
861121	03	02	01	01	01	5	38	07 44 N	116 12 W	1.0	112.0	92.0
861121	05	07	02	04	02	3	55	07 27 N	115 25 W	100.0	1.0	1.0
861126	01	11	02	06	02	4	38	07 16 N	111 30 W	100.0	1.0	1.0
861130	01	02	01	02	03	2	64	15 17 N	115 13 W	100.0	0.0*	2.0
861201	02	28	02	08	01	5	38	18 38 N	112 14 W	100.0	3.0	3.0
861203	04	01	04	06	01	1	38	24 20 N	115 53 W	100.0	0.0*	1.0
861203	04	08	06	08	01	0	55	24 39 N	116 03 W	100.0	3.0	3.0

Table 3. (continued)

SPECIES: UNIDENTIFIED SMALL WHALE													SPECIES CODE: 78	
DATE YR/MO/DY	SERIES	LEG	SIGHT NUMBER	SUN POSITION		DETECT. BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE		EST	
				HORZ.	VERT.						BEST	LOW		
860810	04	04	05	01	01	3	0.4	01 48 S	128 48 W	100.0	2.0	1.0	1.0	
860825	04	01	03			4	2.3	03 37 S	085 16 W	100.0	2.0	2.0	2.0	
860826	08	01	12			2	1.0	03 07 S	082 31 W	100.0	1.0	1.0	1.0	
860826	12	03	16	07	02	2	0.0	03 05 S	082 11 W	100.0	1.0	1.0	1.0	
860908	01	06	01			2	0.0	09 04 S	087 19 W	100.0	1.0	1.0	1.0	
860909	01	08	03			3	0.0	05 34 S	089 42 W	100.0	2.0	2.0	2.0	
860923	03	04	02			3	4.5	06 09 N	079 28 W	100.0	2.0	1.0	1.0	
860929	02	04	03			2	1.0	06 29 N	080 00 W	100.0	1.0	1.0	1.0	
861011	03	02	08			3	1.5	01 26 S	092 56 W	100.0	1.0	1.0	1.0	
861024	03	05	01	08	01	2	0.0	04 57 N	135 01 W	100.0	1.0	1.0	1.0	
861026	05	02	05			2	0.9	06 32 N	141 58 W	100.0	8.0	6.0	6.0	
861113	04	02	03	11	01	3	0.6	10 23 N	139 13 W	100.0	3.0	3.0	3.0	
861113	05	01	04			3	0.5	10 21 N	139 11 W	100.0	2.0	2.0	2.0	
861117	02	10	03			3	5.9	13 28 N	128 23 W	100.0	1.0	1.0	1.0	
861123	01	04	01			5	0.7	05 23 N	110 48 W	100.0	7.0	5.0	5.0	
861124	01	20	01	04	12	5	3.8	04 42 N	107 48 W	100.0	1.0	1.0	1.0	

Table 3. (continued)

SPECIES: UNIDENTIFIED LARGE WHALE													SPECIES CODE: 79.	
DATE	SERIES	LEG	SIGHT	SUN	POSITION	BEAUF.	DETECTED	PERP.	LATITUDE	LONGITUDE	PROPORTION	MEAN SCHOOL	SIZE	EST
YRMO DY			NUMBER	HORZ.	VERT.	NUMBER	BY	DIST. (KM)	DEG MIN	DEG MIN	(% OF SCHOOL)	BEST	LOW	
860914	04	07	08	12	12	4	05	2.9	00 27 N	099 12 W	100.0	1.0	1.0	
861011	05	01	13			3	38	0.8	01 22 S	093 14 W	100.0	1.0	1.0	
861022	01	04	01			4	64	8.5	05 48 N	128 08 W	100.0	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	

Table 3. (continued)

SPECIES: UNIDENTIFIED CETACEAN													SPECIES CODE: 96	
DATE YR/MO/DY	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	
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	SERIES	LEG	SIGHT NUMBER	SUN POS. HORIZ.	SUN POS. VERT.	BEAUF. NUMBER	DETECTED BY	PERP. DIST. (KM)	LATITUDE DEG MIN	LONGITUDE DEG MIN	PROPORTION (% OF SCHOOL)	MEAN SCHOOL SIZE	EST LOW
860808	01	08	01			5	61	2.5	01 46 N	125 20 W	100.0	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
860817	01	06	01	11	02	4	38	0.5	04 38 S	111 17 W	100.0	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
860907	01	04	01			4	64	2.6	12 24 S	085 12 W	100.0	1.0	1.0
860914	03	02	06			4	38	1.2	00 16 N	099 25 W	100.0	1.0	1.0
860914	04	05	07	01	01	4	63	0.4	00 23 N	099 17 W	100.0	1.0	1.0
860917	07	01	06			4	63	3.6	01 16 N	092 41 W	100.0	0.0*	1.0
860917	07	02	07			4	55	3.0	01 18 N	092 40 W	100.0	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
860921	02	04	04			1	64	3.1	08 07 N	079 31 W	100.0	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
861005	02	01	03			4	63	3.6	06 50 N	080 39 W	100.0	1.0	1.0
861005	03	02	04			4	55	2.3	06 50 N	080 39 W	100.0	3.0	3.0
861005	09	03	10	07	01	3	64	2.6	06 44 N	081 06 W	100.0	1.0	1.0
861006	01	04	01	12	02	4	61	4.7	06 36 N	082 07 W	100.0	20.0	15.0
861008	01	02	01			5	38	8.2	06 14 N	083 43 W	100.0	4.0	4.0
861010	01	06	02	09	03	5	64	3.0	03 35 N	087 09 W	100.0	1.0	1.0
861012	08	02	13			3	38	1.5	03 27 N	087 09 W	100.0	1.0	1.0
861017	01	28	02	12	12	5	55	0.1	01 34 S	090 44 W	100.0	1.0	1.0
861024	03	23	02	11	12	5	55	2.2	02 01 N	094 56 W	100.0	1.0	1.0
861118	01	10	01	12	01	3	64	1.3	02 24 N	113 15 W	100.0	1.0	1.0
861130	05	05	06			5	38	2.2	04 37 N	135 56 W	100.0	1.0	1.0
861201	02	33	03			4	61	0.5	12 18 N	125 58 W	1.0	354.0	322.0
861202	05	01	04	08	01	3	64	1.1	16 03 N	114 05 W	100.0	1.0	1.0
861204	05	01	09	08	01	1	38	0.3	18 51 N	112 17 W	100.0	1.0	1.0
									21 33 N	114 12 W	100.0	1.0	1.0
									27 17 N	117 45 W	100.0	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	2	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								
		860806	01			50	100			85	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

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
SPECIES 2	861116	01			155	10			800	4			295	5
	861117	06			110	75			100	97				
	861121	01			80	99	175	99					80	99
	861124	02	145	40	125	35	150	60	200	50				
	861126	03			200	85	275	85			90	85	265	85
	861127	01	260	100	150	100	225	100			100	100	115	100
	861127	02			150	100	215	100			160	100		
	861127	03	165	25	135	35			200	20				
	861128	01	70	35	100	30	150	40	175	5			66	15
	861130	05	135	100	70	100					35	100		
	861201	01			40	100	50	100	45	100				
SPECIES 3	860805	01	60	25	75	10								
	860910	01			12	10								
	861126	03			200	15	275	15			90	15	265	15
SPECIES 5	860825	02	1000	100			900	100	700	100			650	100
	860826	02	45	100	75	100	30	100			350	100	24	100
	860826	03			75	100			50	100	40	100	65	100
	860826	08	25	100			15	100	15	100	100	100		
	860826	11	225	100	200	100	300	100						
	860905	01			800	100	500	100	1100	100	550	100	275	100
	860914	03	95	100	110	100	150	100			60	100	40	100
	860916	01	87	98			52	96						
	860916	03							500	100			110	100
	860916	04	400	100			300	100			100	100		
	860925	02	650	100	500	100	450	100	700	100				
	860925	03	900	100	1300	100	775	100	1750	100	450	100	850	100
	860925	04			450	100					325	100	325	100
	860925	06			400	100					250	100	160	100
	861010	01			110	100			225	100	75	100		
	861010	04	1700	99	1500	99			2300	99	800	99	1400	98

Table 4. (continued)

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
SPECIES 5	861010	11	510	100	700	100			1400	100	700	100		
	861010	14	460	100	500	100	450	100					410	100
	861011	01	60	100					225	100				
	861011	03			110	100	200	100					60	100
	861117	07	50	100	10	100	30	100					12	100
	861202	01	135	100	250	100			500	100			375	100
	861202	02	350	100	400	100	170	100			60	100		
	861202	03			400	100	475	100	750	100			1150	100
	861202	05	165	100	160	100	225	100			60	100		
	861202	06									35	100		
	861203	02	130	100	275	100	325	100	450	100	140	100	325	100
	861203	03	160	100	275	100	375	100	525	100			225	100
	861204	08			275	45	370	60	250	50			215	55
	861204	12	275	95			275	90			120	95		
	861204	14			550	65	300	75	425	60			425	85
SPECIES 6	861004	01			20	100	20	100	8	100			12	100
	861004	05			70	100	70	100	60	100				
	861004	06			250	100							68	100
SPECIES 10	860804	01			7	100								
	860806	02			10	10								
	860815	01	600	4	900	9	400	9						
	861118	01			301	99			600	99	161	99		
	861128	01	70	65	100	70	150	60	175	95			66	85
	861129	01	35	100							18	100	28	100
SPECIES 11	860803	01	100	35	90	33	175	60	55	20			55	40
	860803	03	60	100	90	100	80	100	60	100	50	100	320	100
	860810	06			75	100	175	100			60	100	45	100
	860816	01			40	100	50	100						

Table 4. (continued)

		OBS 5		OBS 38		OBS 55		OBS 61		OBS 63		OBS 64	
DATE	SIGHT NO.	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										
861117	02					35	100			25	100	32	100
861117	04			115	20			275	10	120	85		
861117	06			110	25			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										
860914	10	35	100			15	100	30	100				
860915	01			45	100	30	100	75	100	30	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								
860915	07			225	100			400	100			130	100
860917	03			125	98			150	98	45	94		
860917	08			100	100					25	100		
860918	02	35	100	30	100	12	100					8	100
860918	05			75	100			200	100	140	100		
860919	01			35	100			50	100	30	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	70	100					26	100
861011	16			65	100	85	100					32	100
861021	07			30	100	40	100	40	100				
861022	02			55	100	50	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	80	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				
861204	02			35	100			50	100			72	100
861204	03	550	100	550	100			1100	100			675	100

Table 4. (continued)

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

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					4	100				
	860913	03												
	860913	04			21	12								
	860924	01			7	100					2	100	3	100
	860926	07	1	100										
SPECIES 26	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 31	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 33	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)

		OBS 5		OBS 38		OBS 55		OBS 61		OBS 63		OBS 64	
DATE	SIGHT NO.	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			16	50	12	50						
861005	05	4	100										
861005	07			30	67	20	75	20	80			18	70
861010	02			25	80	30	60			13	80	20	60
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									12	85
861011	07					20	70						
861116	03	10	80	4	100								
861126	01			4	100								
861127	04												
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)

[illegible]

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 51	860923	03	2	100	2	100	2	100	2	100				
SPECIES 61	860811	03	2	100					2	100				
	860928	01	2	100										
	861010	05			1	100								
	861117	01			1	100			1	100				
SPECIES 70	860815	05	3	100	13	100	13	100			8	100		
	860818	01			1	100	2	100					1	100
	860818	05	3	100	4	100					4	100	2	100
	860822	02			1	100	1	100	1	100			1	100
	860908	04			1	100								
	860917	05	351	1	551	1	250	1	1000	1			171	1
	860918	03			1	100								
	861012	03	1	100										
	861014	01			1	100	1	100						
SPECIES 71	861026	03	1	100	1	100								
	861204	04	1	100	1	100	1	100						
SPECIES 72	860815	02	1	100	1	100			1	100	1	100	1	100
	860818	02	1	100			1	100	1	100				
	860915	05	14	14	22	10	14	14			18	20		
SPECIES 77	860801	01					10	100						
	860803	02	1	100										
	860803	06	20	100										
	860806	02			10	90					2	100	1	100
	860810	02												

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	100
860826	01							1	100				
860904	01	800	100										
860906	02			2	100								
860906	03									10	100		
860909	01			1	100								
860909	02			2	100								
860909	04					80	100						
860913	02					20	100						
860914	01					6	100						
860914	04												
860915	04			2	100	12	100						
860916	02							2	100				
860917	04	1	100										
860920	01											2	100
860921	02					3	100						
860921	03											2	100
860921	05	18	100										
860924	02							1	100				
860925	01											8	100
860925	07					2	100						
860926	04									1	100		
860927	03					1	100						
861004	02							20	100				
861004	03							2	100				
861004	04					50	100						
861005	09												
861010	03	12	20							3	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													
861011	07											12	15
861011	10					6	100						
861011	12			1	100								
861011	14			5	100								
861021	01	2	100										
861021	02	1	100										
861021	06					6	100						
861025	01			1	100								
861026	07	1	100										
861027	02					4	100						
861028	05					2	100						
861029	01					3	100						
861030	01									30	100		
861113	01									10	100		
861117	05												
861121	01			1	100	175	1					80	1
861121	02	80	1			1	100						
861126	02			1	100								
861201	02			3	100								
861203	06					3	100						
SPECIES 78													
860810	05											2	100
860825	03												
860826	12			2	100								
860826	16			1	100								
860908	01	1	100										
860909	03	1	100										
860923	02									1	100		
860929	03									2	100		
861011	08											1	100
861024	01			1	100								
861026	05											1	100
861113	03											8	100
				3	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 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
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	100
860907	02												
860909	06							2	100			2	100
861009	01												
861010	08											1	100
861021	04							3	100				
861115	03												
861203	01			1	100								
861204	05												
861204	06												
SPECIES 98													
860808	01							1	100				
860808	02											2	100
860817	01												
860822	01			1	100	1	100						
860907	01			1	100			1	100				
860914	06			1	100							1	100
												1	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 98														
860914	07									1	100			
860917	07					1	100							
860920	03				1	100								
860921	04													
860929	04													
861005	03	3	100										1	100
861005	04													
861005	10								20	100			1	100
861006	01													
861008	01				4	100							1	100
861008	02				1	100								
861010	13				1	100								
861017	02						1	100						
861024	02												1	100
861118	01				301	1			600	1	161	1		
861130	06								1	100				
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 (Scientific Name)	Species Sightings			Estimated-Mean-School-Size		
	Code	Total	Mixed	Low / (n)	High / (n)	Best / (n)
Offshore Spotted Dolphin (<u>Stenella attenuata</u>)	2	47	23	24	91.72(47)	128.12(47)
Spinner Dolphin (<u>Stenella longirostris</u>)	3	3	0	3	12.47(3)	17.88(3)
Common Dolphin (<u>Delphinus delphis</u>)	5	31	26	5	295.75(31)	399.66(31)
Coastal Spotted Dolphin (<u>S.A. graffmani</u>)	6	3	3	0	70.00(3)	98.67(3)
Eastern Spinner Dolphin (<u>Stenella longirostris</u>)	10	6	2	4	76.71(6)	120.33(5)
Whitebelly Spinner Dolphin (<u>Stenella longirostris</u>)	11	25	6	19	96.19(25)	134.89(25)
Striped Dolphin (<u>S. coeruleoalba</u>)	13	50	42	8	68.62(50)	98.47(48)
Rough-Toothed Dolphin (<u>Steno bredanensis</u>)	15	4	2	2	8.07(4)	10.73(4)
Bottlenosed Dolphin (<u>Tursiops truncatus</u>)	18	27	7	20	23.12(27)	31.74(26)
Risso's Dolphin (<u>Grampus griseus</u>)	21	19	12	7	8.82(19)	11.21(18)
Fraser's Dolphin (<u>Lagenodelphis hosei</u>)	26	4	4	0	291.00(4)	468.50(4)
Unidentified Dolphin	77	74	70	4	14.68(73)	30.39(53)
						21.29(60)

Table 5. (continued)

Species Name (Scientific Name)	Species Sightings			Estimated-Mean-School-Size		
	Code	Total	Pure Mixed	Low / (n)	High / (n)	Best / (n)
Melon-Headed Whale (<u>Peponocephala electra</u>)	31	1	0	1	1	1
False Killer Whale (<u>Pseudorca Crassidens</u>)	33	2	1	1	2	2
Pilot Whale (<u>Globicephala sp.</u>)	34	21	9	12	20	21
Killer Whale (<u>Orcinus orca</u>)	37	4	4	0	3	4
Sperm Whale (<u>Physeter macrocephalus</u>)	46	19	17	2	19	19
Pygmy Sperm Whale (<u>Kogia breviceps</u>)	47	2	2	0	2	2
Beaked Whale (<u>Ziphiid</u>)	49	12	12	0	12	12
Unid. Mesoplodont (<u>Mesoplodon sp.</u>)	51	4	4	0	4	4
Cuvier's Beaked Whale (<u>Ziphius cavirostris</u>)	61	5	5	0	5	5
Rorqual (<u>Balaenoptera sp.</u>)	70	11	10	1	11	11
Minke Whale (<u>B. acutorostrata</u>)	71	2	2	0	2	2
Bryde's Whale (<u>B. edeni</u>)	72	3	2	1	3	3
Unidentified Small Whale	78	16	16	0	16	16
Unidentified Large Whale	79	4	4	0	4	4
Unidentified Cetacean	96	15	15	0	15	15
Unidentified Whale	98	28	27	1	28	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 km Searched	Number Schools Detected	Percent All Schools Detected	Detection Rate (Schools/ 1000 km)	S.E. Detection Rate	Number ¹ Days Searched
All Data	12172	100	147	100	12.07	1.55	90
Northern	678	6	13	9	19.18	10.05	5
Inshore	1843	15	31	21	16.82	5.60	19
Middle	2570	21	34	23	13.23	2.28	20
West	3131	26	28	18	8.94	1.80	23
South	3950	32	41	28	10.38	2.61	30
Sea State Conditions							
Calm	1265	10	31	21	24.51	5.58	27
Rough	10907	90	116	79	10.64	1.28	85
Visibility Conditions							
Good	11257	92	140	95	12.44	1.59	90
Poor	914	8	7	5	7.66	3.61	51
Observers							
5	6164	51	19	13	3.08	0.88	89
38	5984	49	40	27	6.68	1.20	89
55	5971	49	21	14	3.52	1.02	88
61	6160	51	28	19	4.55	0.99	90
63	6076	50	12	8	1.98	0.61	88
64	6031	50	27	18	4.48	1.01	90
Observer Teams ²							
1	6131	51	57	39	9.30	1.50	89
2	5951	49	90	61	15.12	2.37	89

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

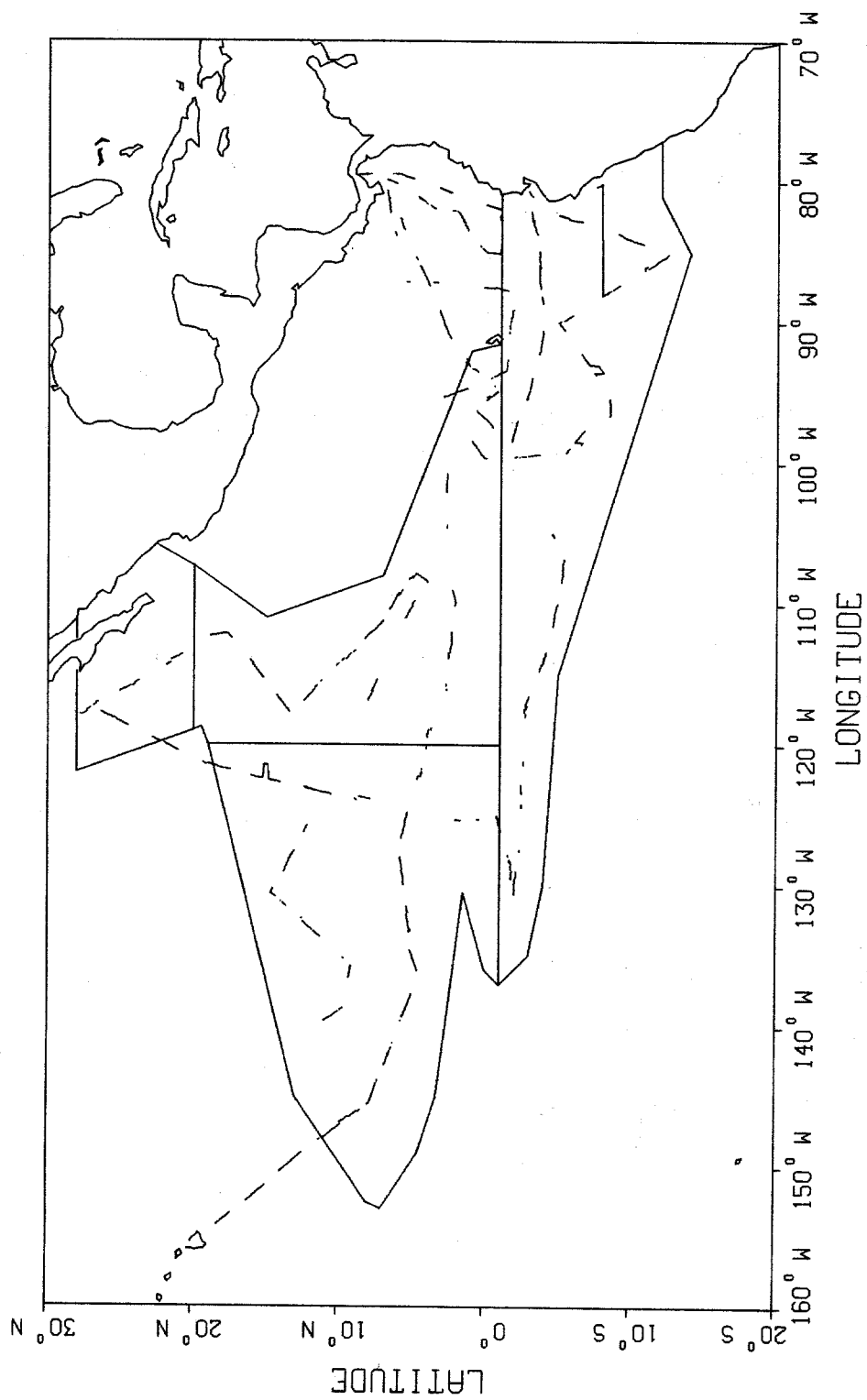


Figure 1. Tracklines surveyed from the R/V McArthur in the eastern tropical Pacific during July 29 through December 6, 1986.

CRUISE #		DATE			SIGHT #	SERIES #	LEG #	CARD #
1	4	6	8	10	12	14	16	
							0 1	

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	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

OBSERVER 1

SCHOOL SIZE ESTIMATE				CARD #	SPECIES PROPORTIONS								
OBS. CODE	BEST	HIGH	LOW		SPECIES 1 %	SP 1 CODE	SPECIES 2 %	SP 2 CODE	SPECIES 3 %	SP 3 CODE	SPECIES 4 %	SP 4 CODE	
				0 2									
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

SCHOOL SIZE ESTIMATE				SPECIES PROPORTIONS							
OBS. CODE	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

SCHOOL SIZE ESTIMATE				CARD #	SPECIES PROPORTIONS								
OBS. CODE	BEST	HIGH	LOW		SPECIES 1 %	SP 1 CODE	SPECIES 2 %	SP 2 CODE	SPECIES 3 %	SP 3 CODE	SPECIES 4 %	SP 4 CODE	
				0 3									
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

SCHOOL SIZE ESTIMATE				SPECIES PROPORTIONS								CARD #	SP 4 CODE
OBS. CODE	BEST	HIGH	LOW	SPECIES 1 %	SP 1 CODE	SPECIES 2 %	SP 2 CODE	SPECIES 3 %	SP 3 CODE	SPECIES 4 %			
												0 4	
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							

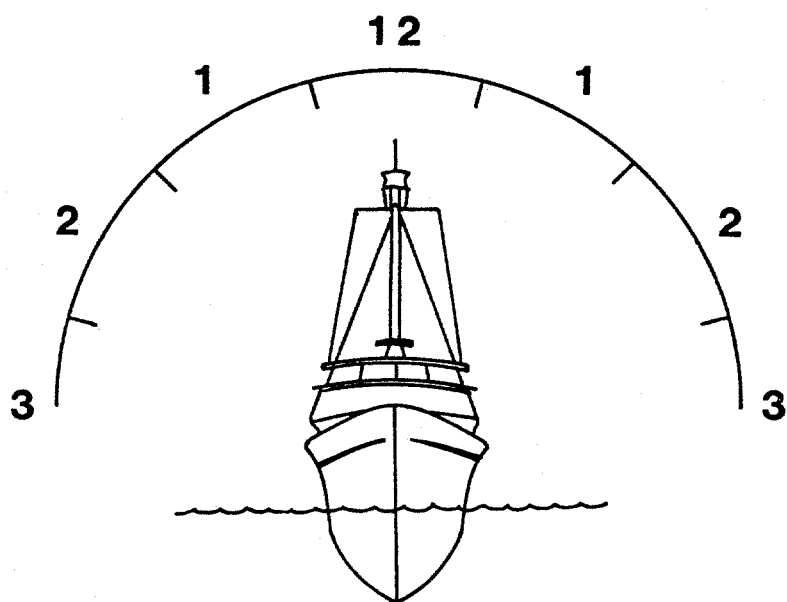
OBSERVER 5

SCHOOL SIZE ESTIMATE				SPECIES PROPORTIONS							
OBS. CODE	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					

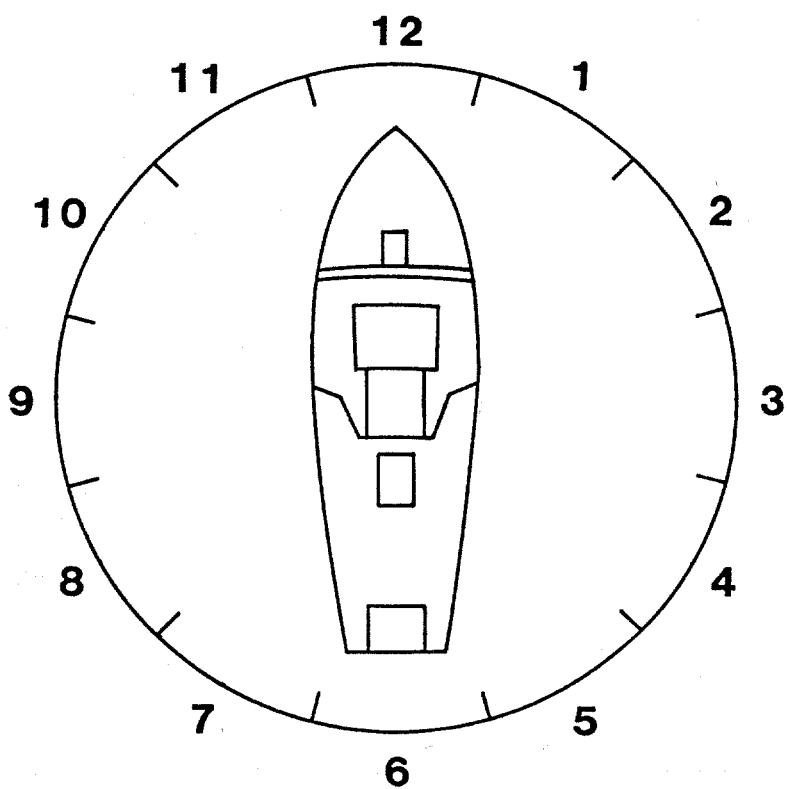
OBSERVER 6

SCHOOL SIZE ESTIMATE				SPECIES PROPORTIONS								RC						
OBS. CODE	BEST	HIGH	LOW	SPECIES 1 %	SP 1 CODE	SPECIES 2 %	SP 2 CODE	CARD #	SPECIES 3 %	SP 3 CODE	SPECIES 4 %	SP 4 CODE	RC 1	RC 2	RC 3	RC 4	RC 5	RC 6
								0 5										
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.

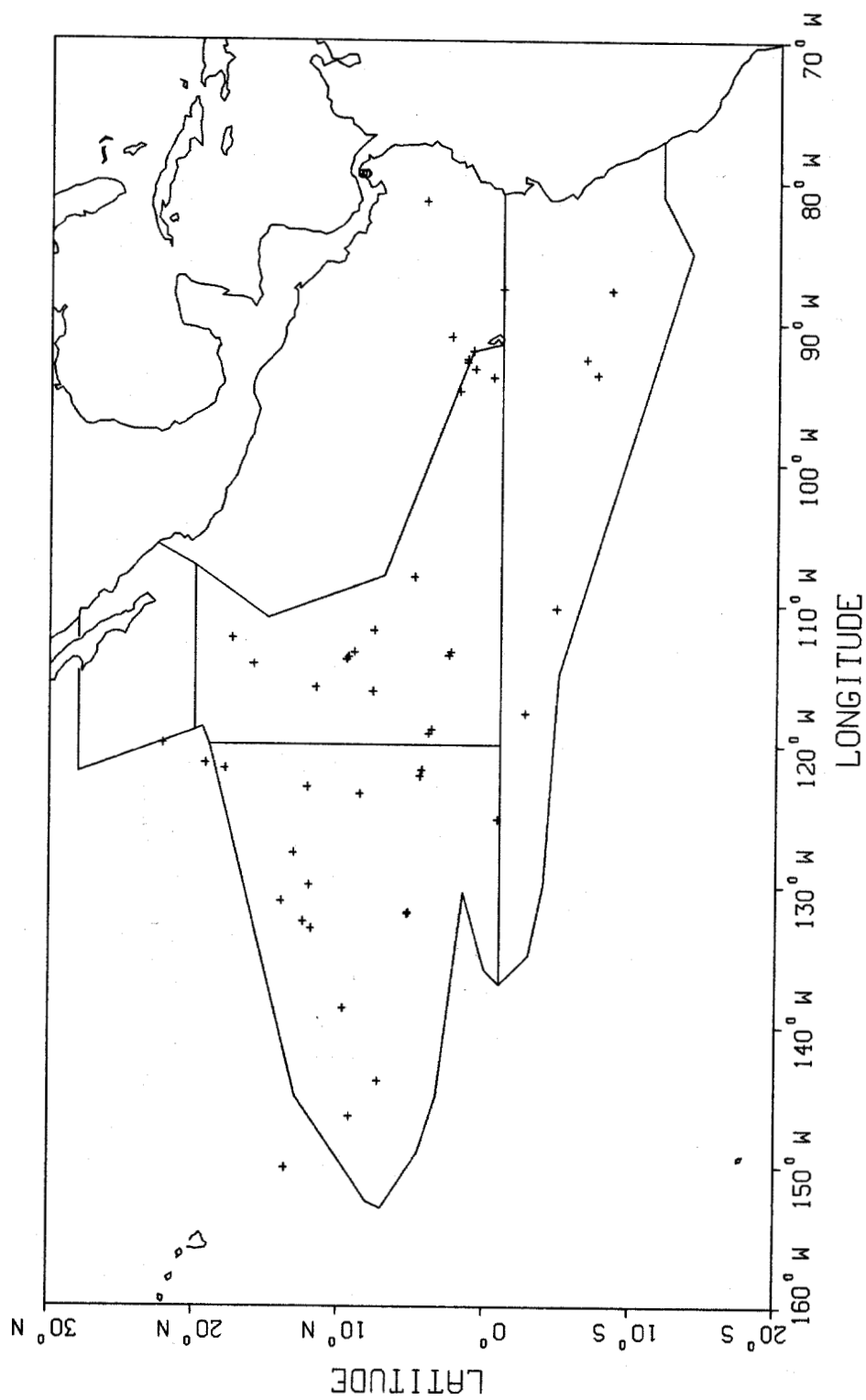


Figure 6. Offshore (+) and coastal (o) spotted dolphins detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

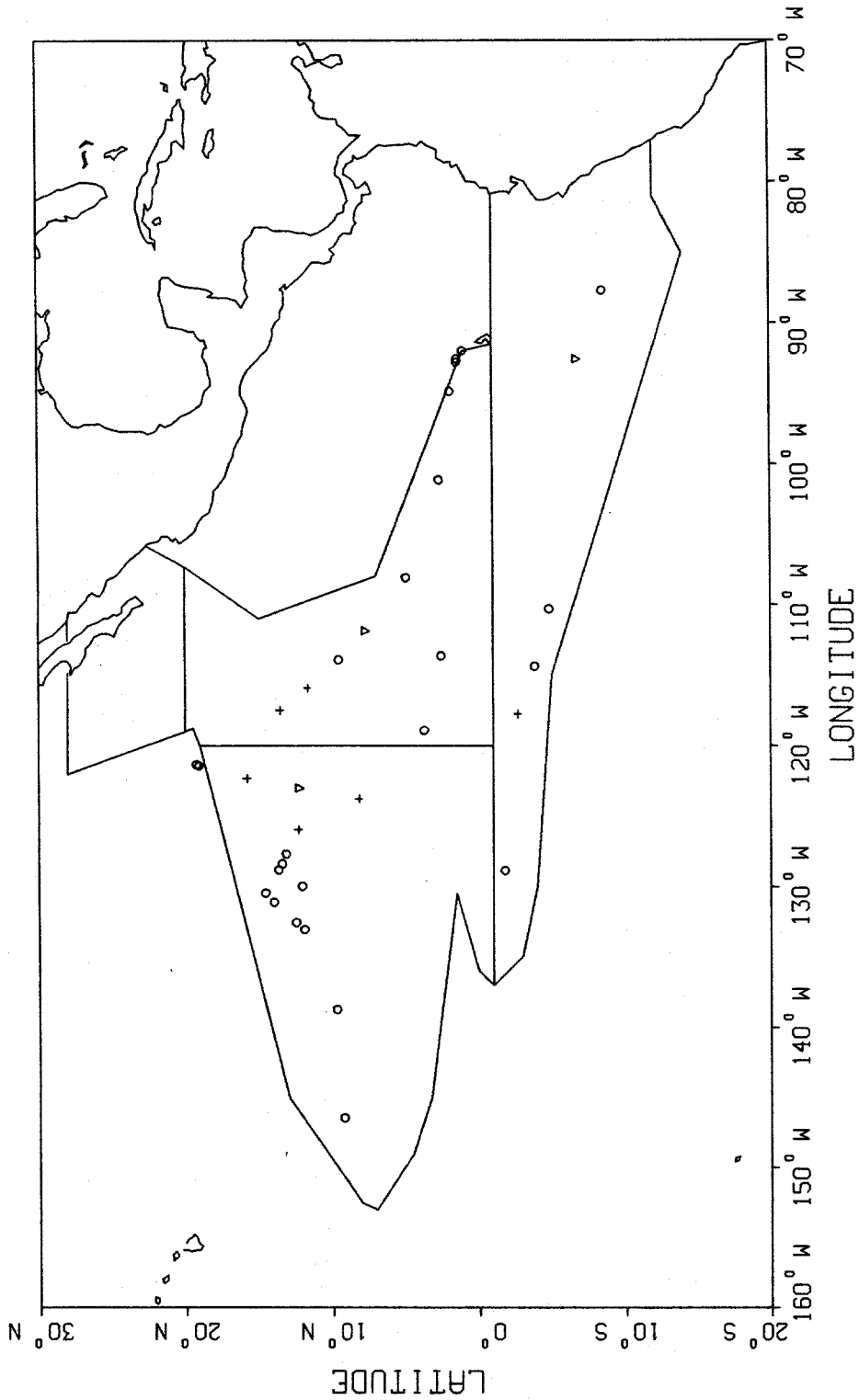


Figure 7. Eastern (+), whitebelly (o) and unidentified (v) spinner dolphins detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

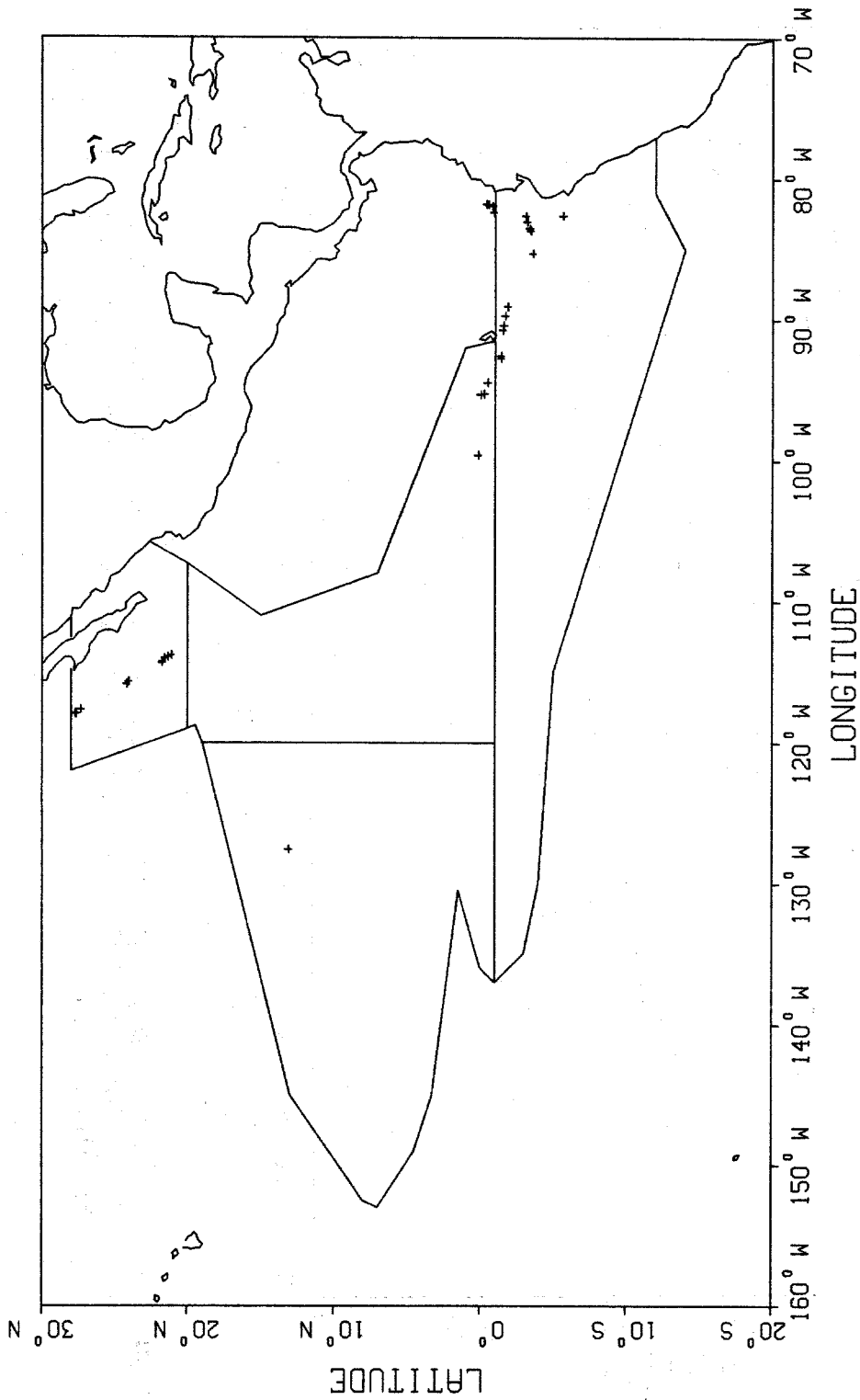


Figure 8. Common dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

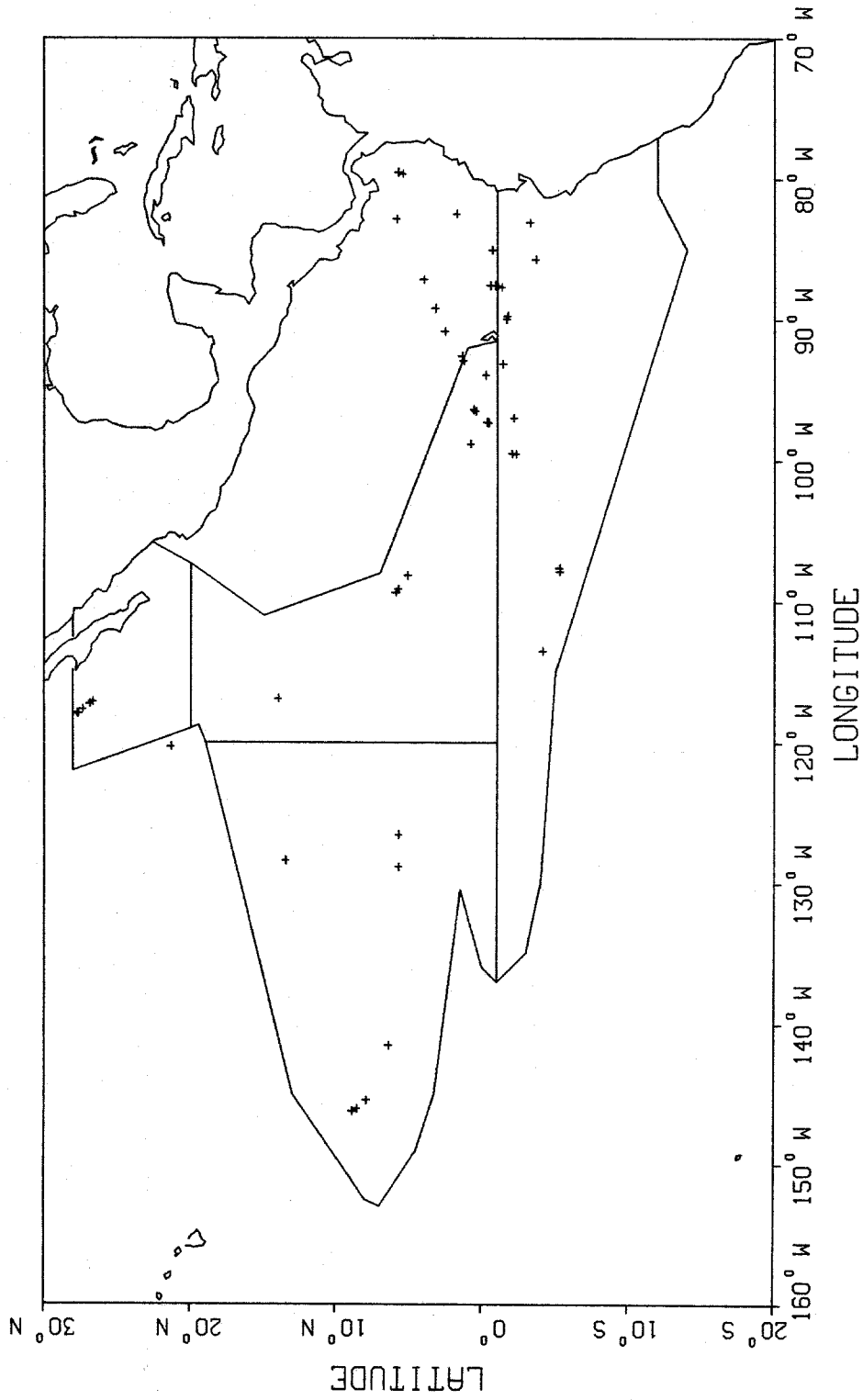


Figure 9. Striped dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

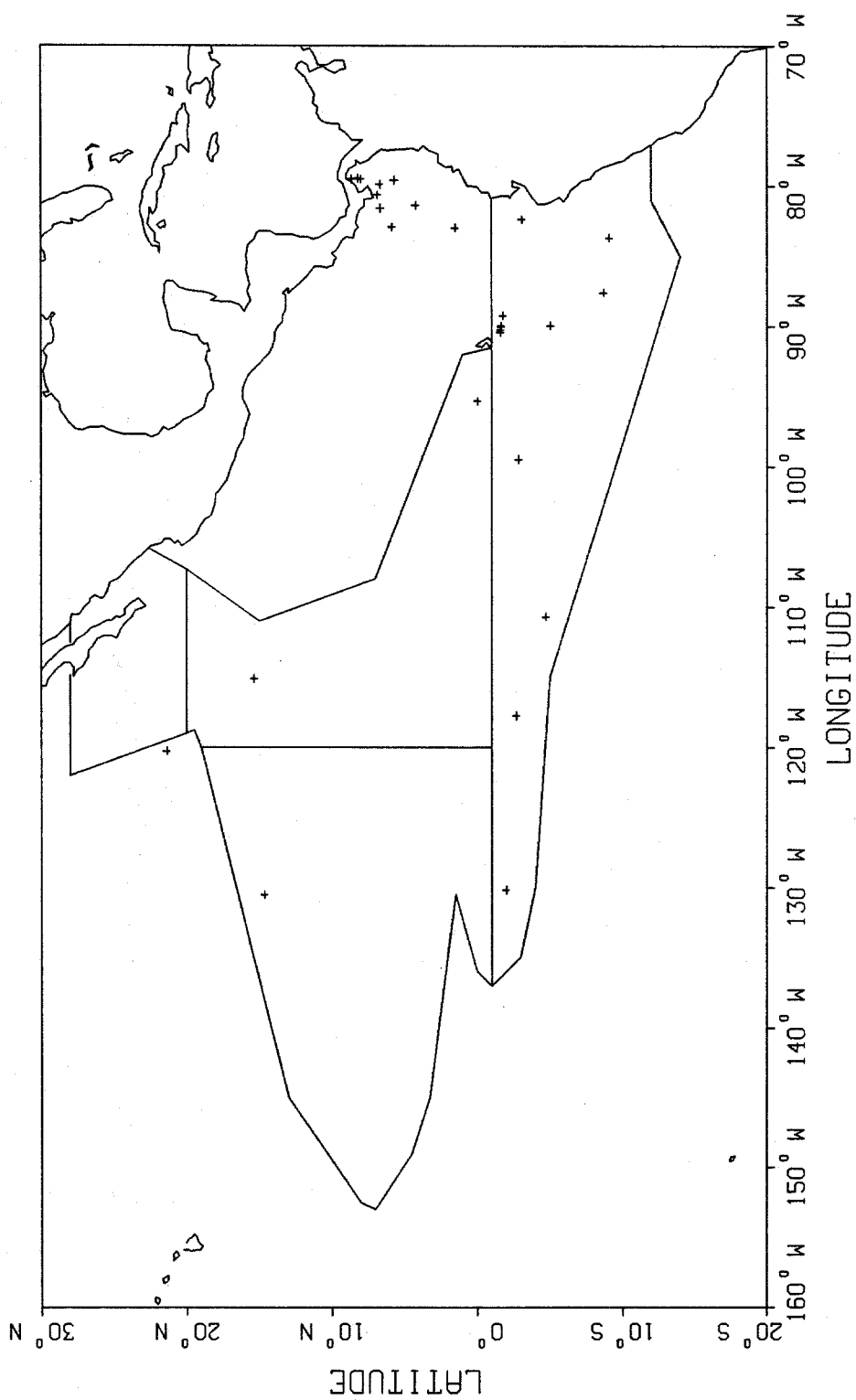


Figure 10. Bottlenose dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

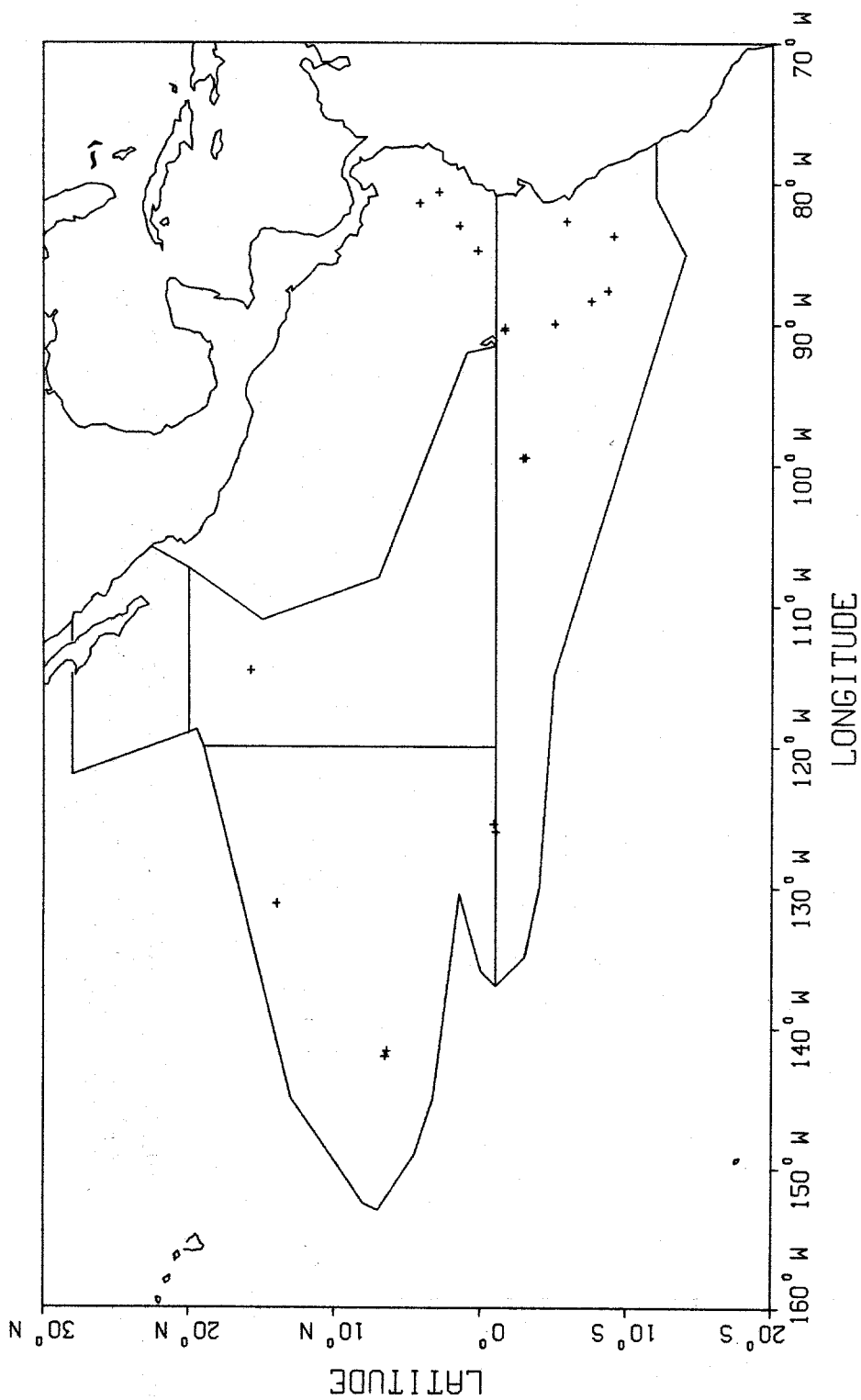


Figure 11. Risso's dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

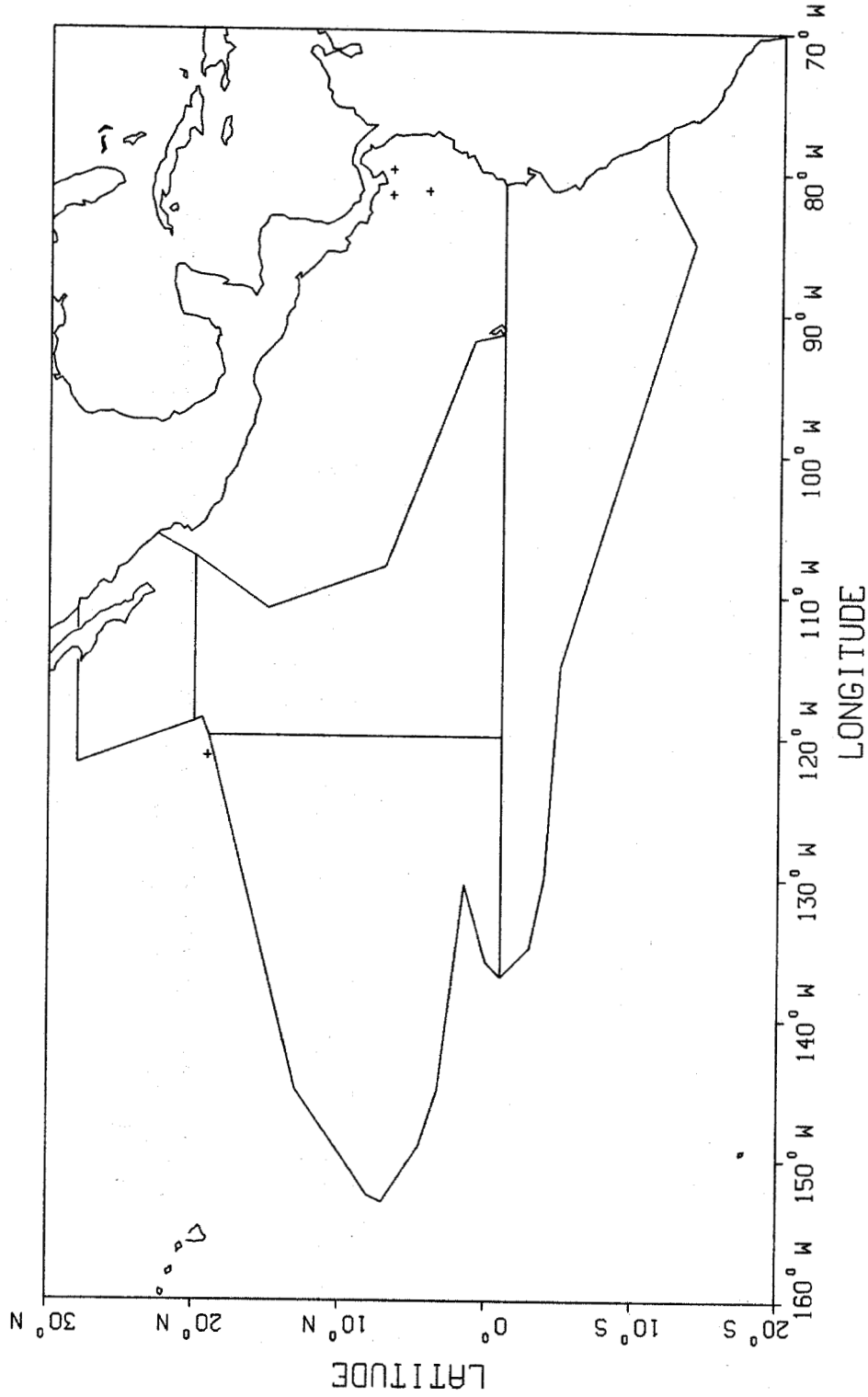


Figure 12. Rough-toothed dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

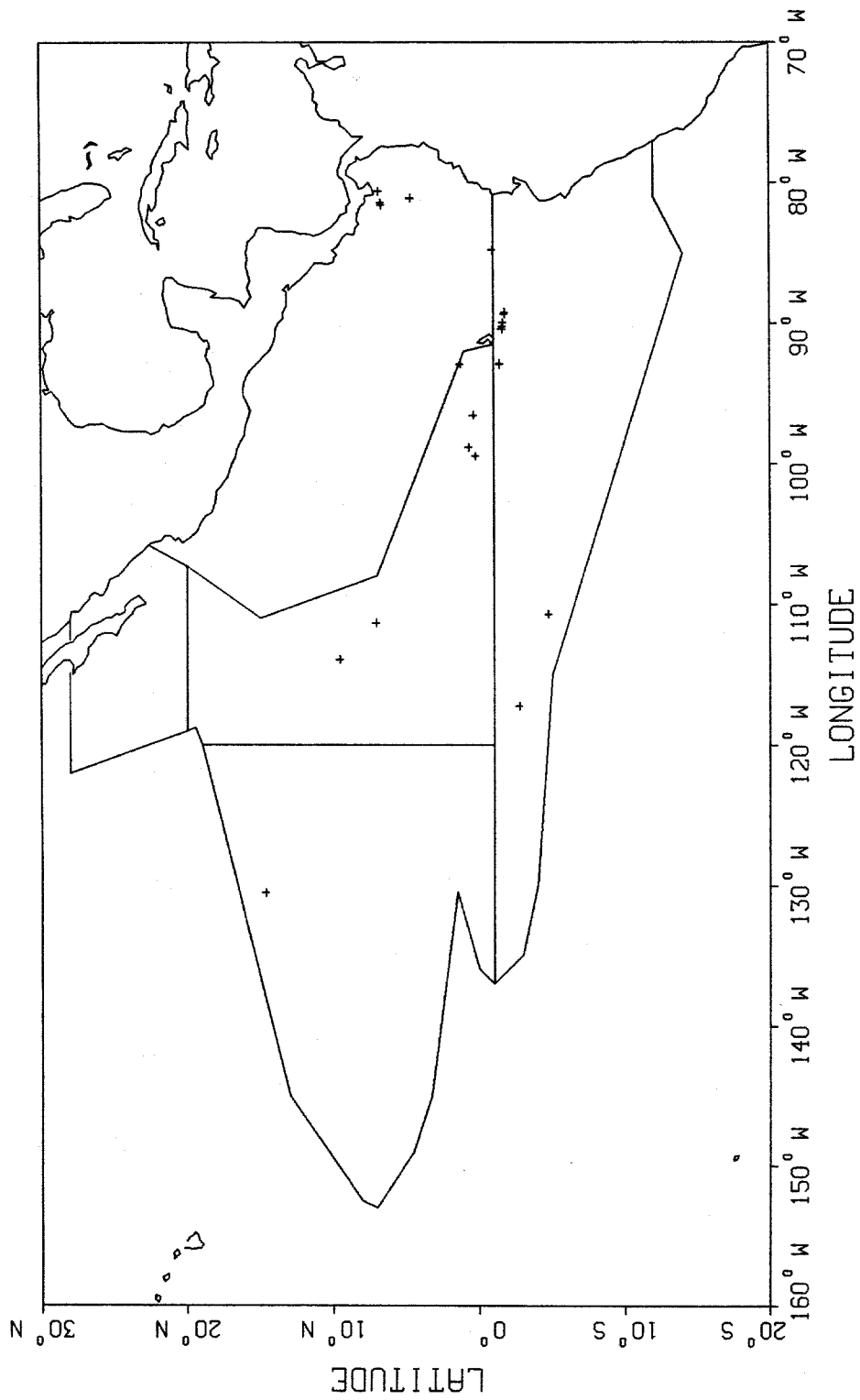


Figure 13. Pilot whales (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

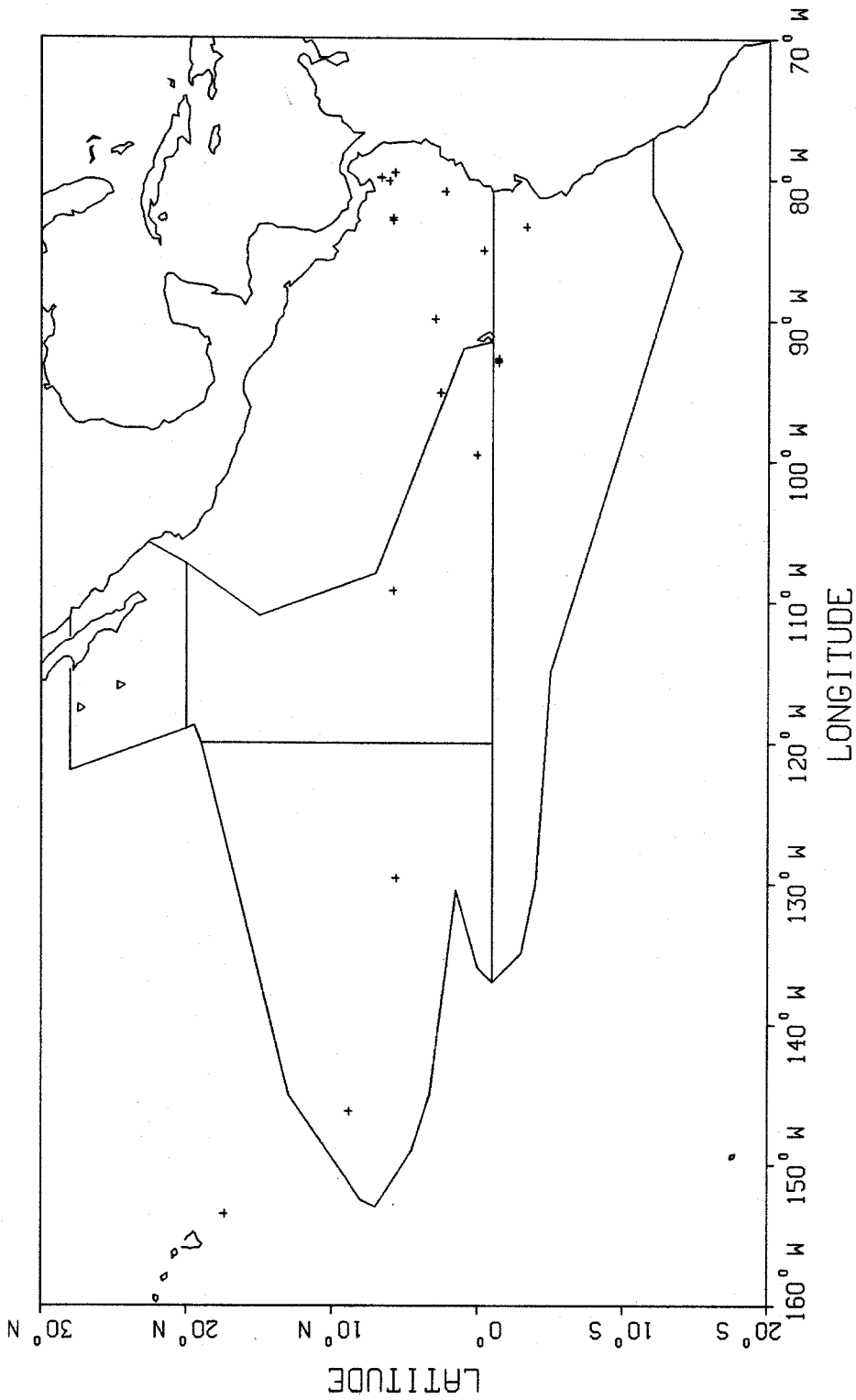


Figure 14. Sperm (+) and pygmy sperm (v) whales detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

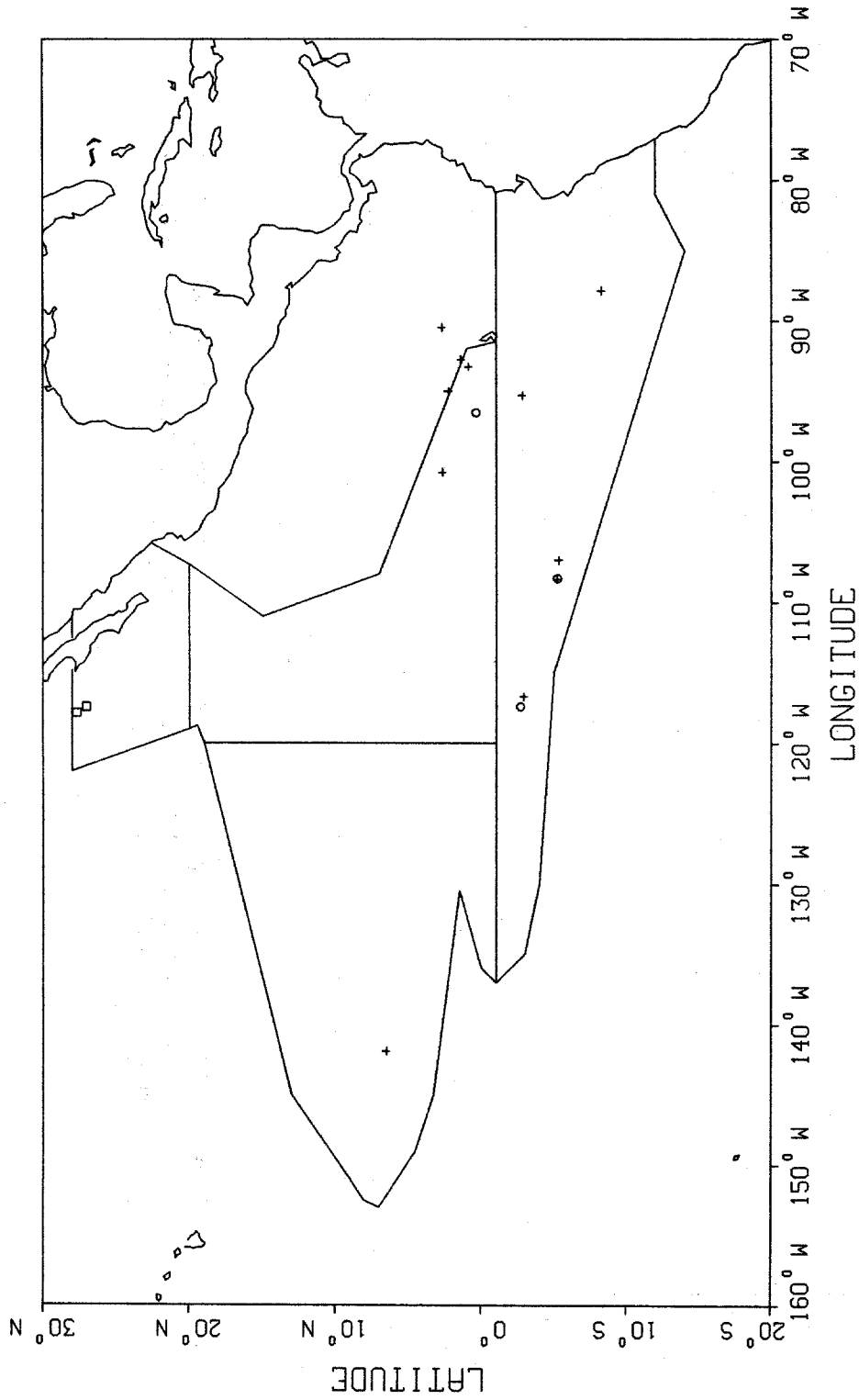


Figure 15. Unidentified rorquals (+), Bryde's (o) and minke (□) whales detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

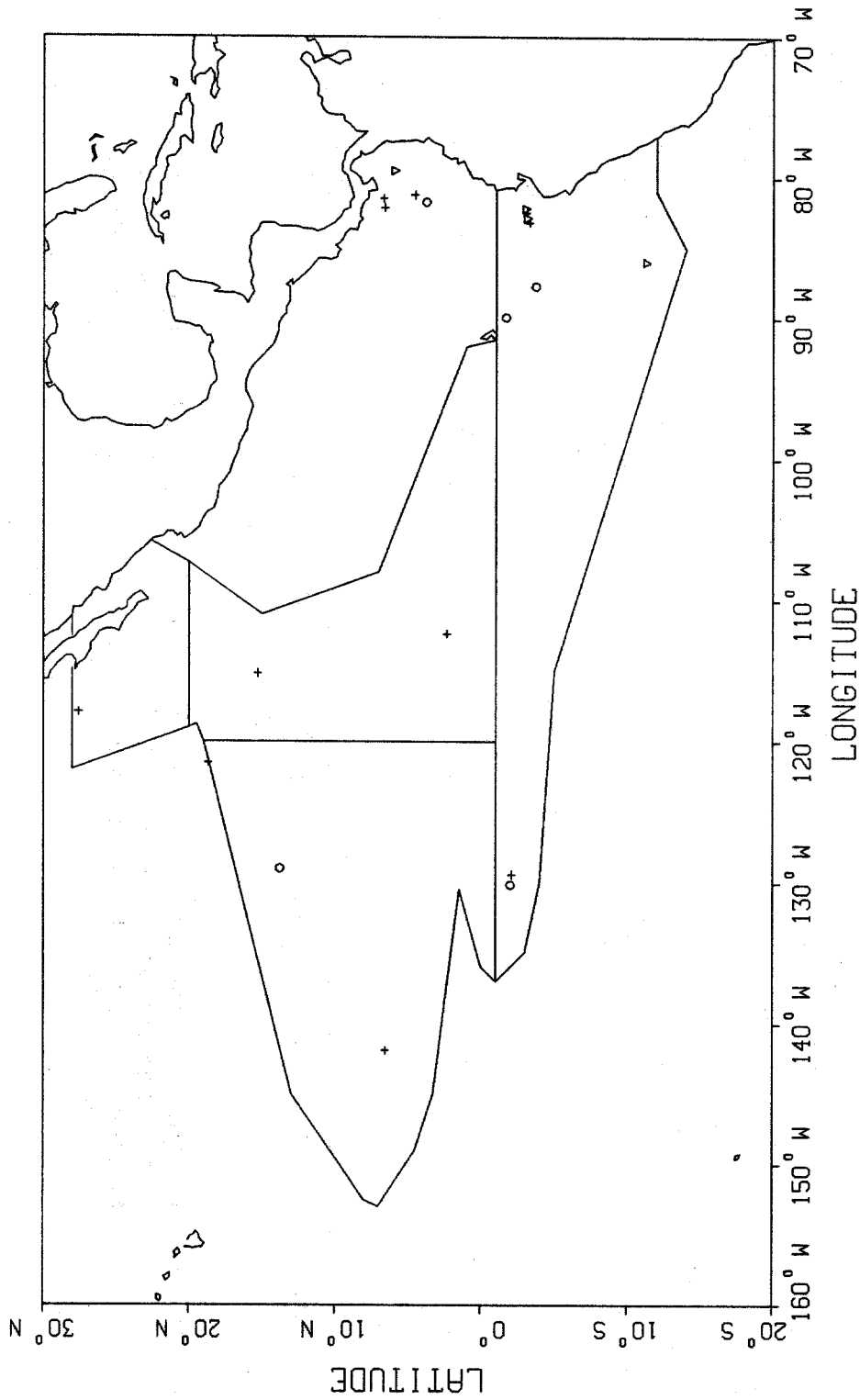


Figure 16. Unidentified beaked (+), Cuvier's beaked (o) and unidentified mesoplodon (v) whales detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

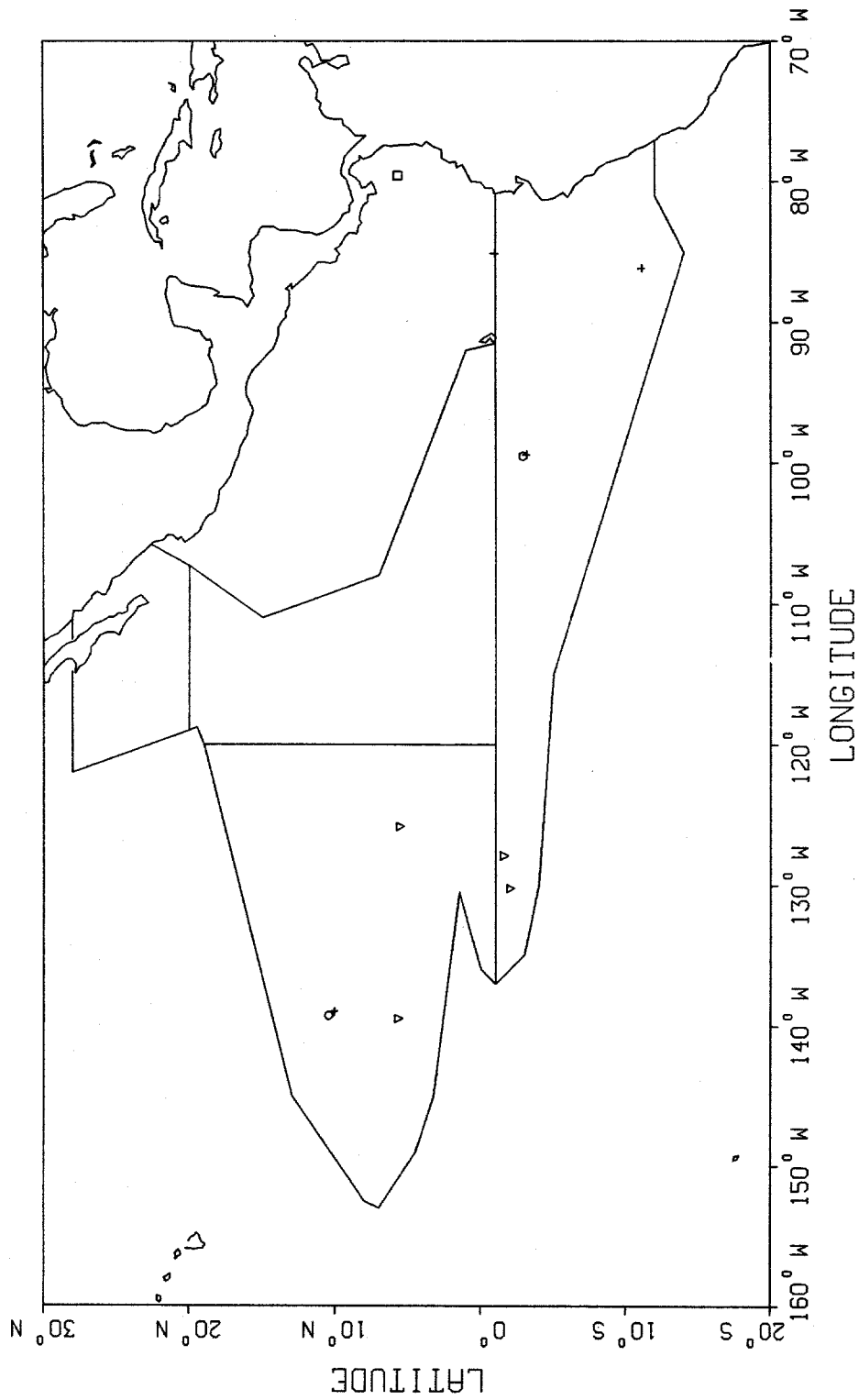


Figure 17. Killer (+) and false killer (o) whales, Fraser's dolphins (▽) and melon-headed whales (□) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

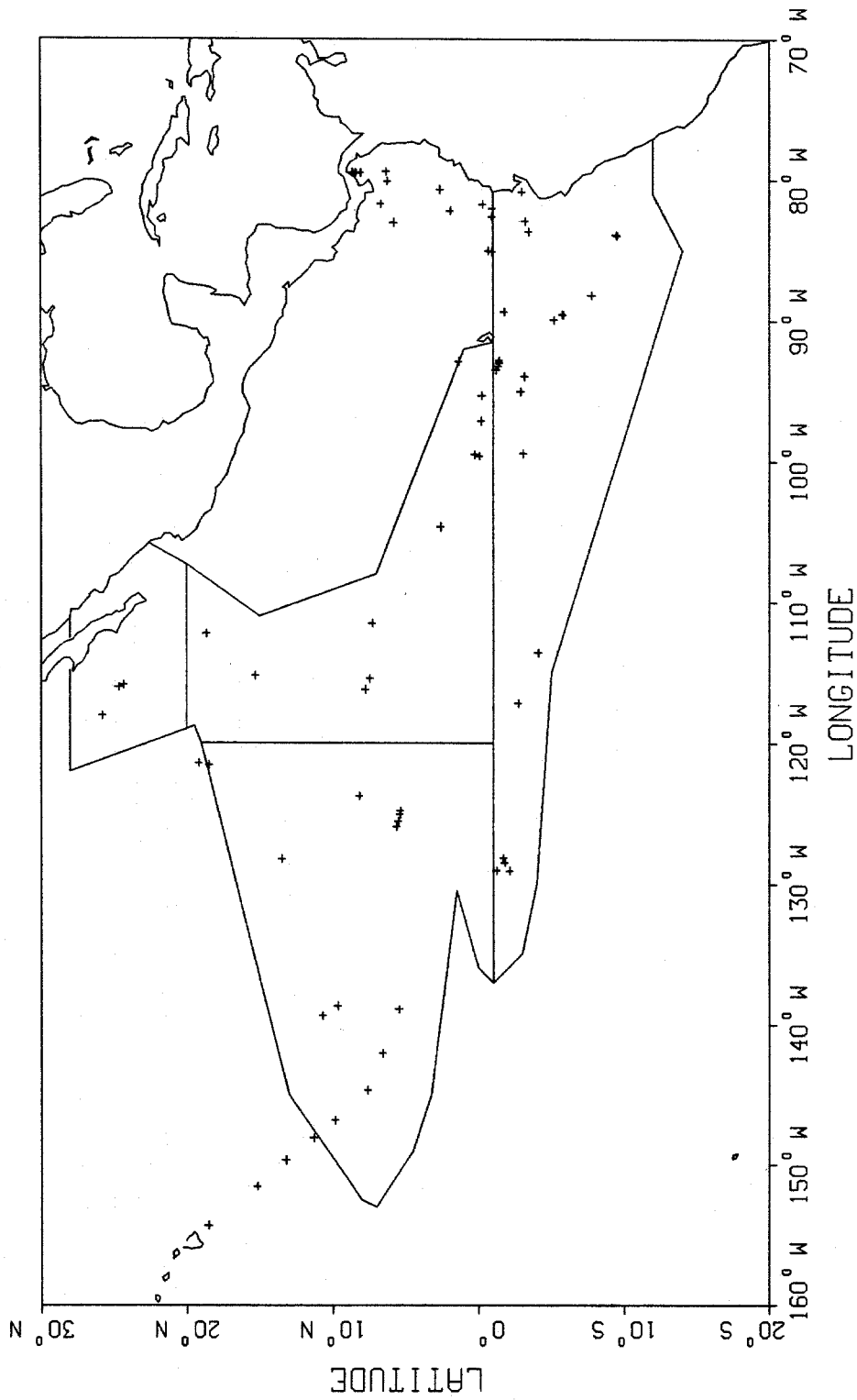


Figure 18. Unidentified dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

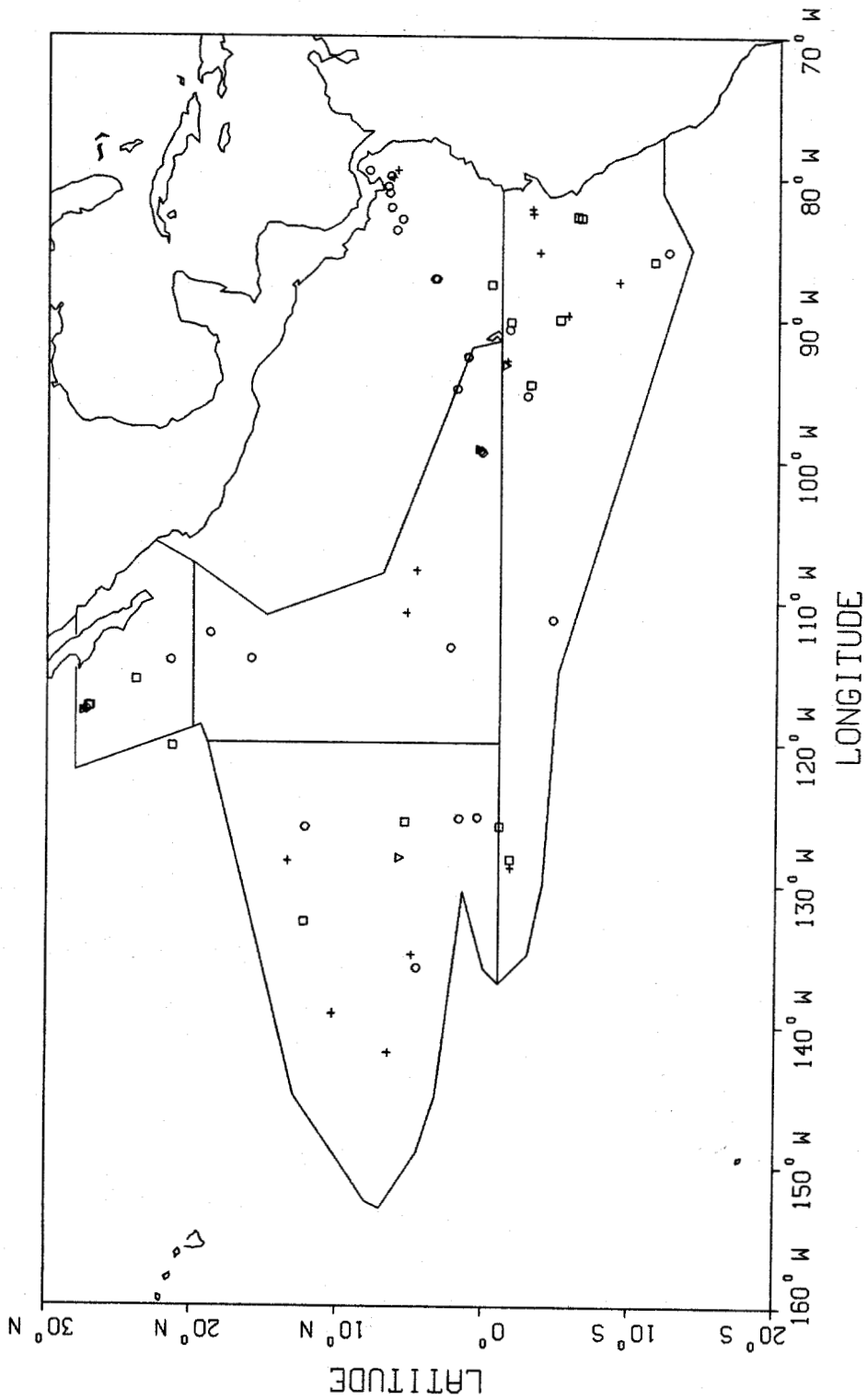


Figure 19. Unidentified small whales (+), unidentified whales (o), unidentified large whales (v) and unidentified cetaceans (□) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

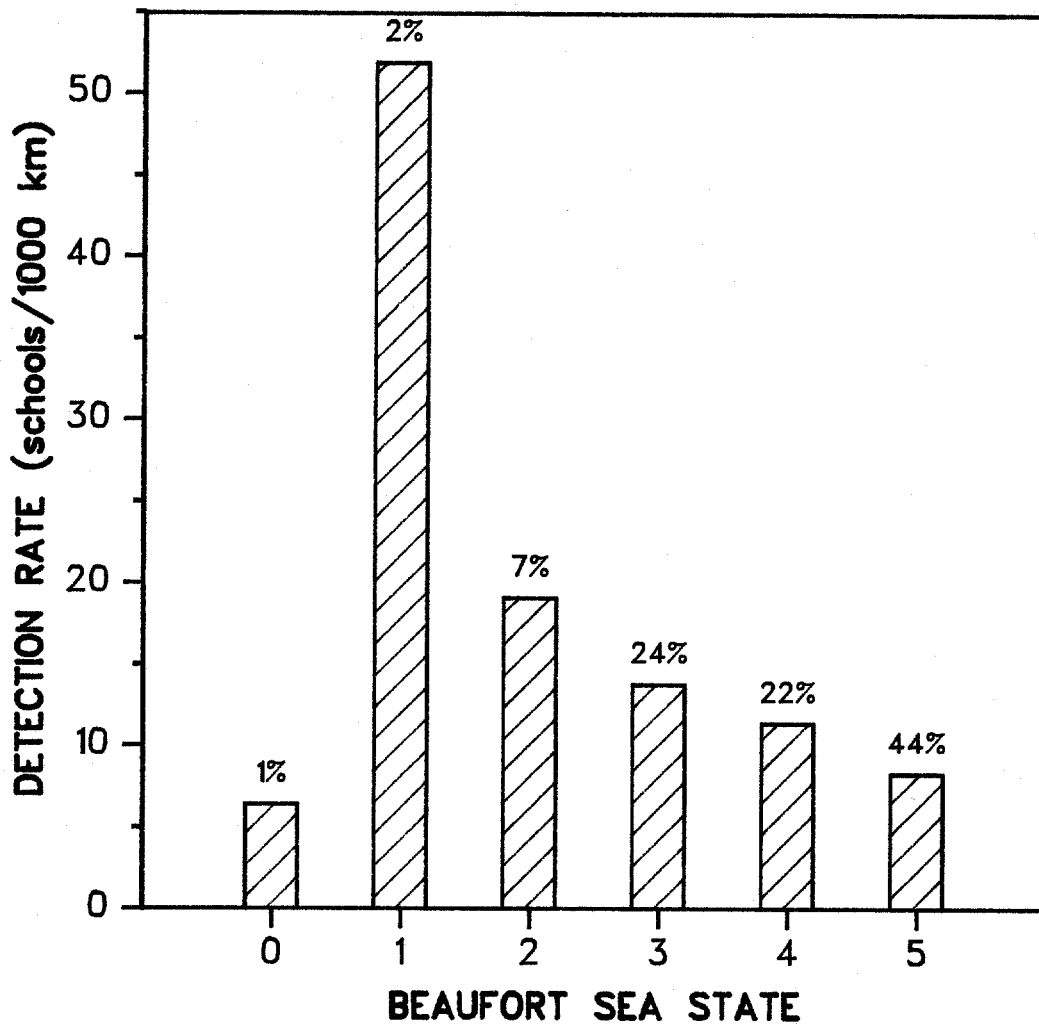


Figure 20. Rate of encountering dolphin schools during each Beaufort state from aboard the McArthur in the eastern tropical Pacific during July 29 through December 6, 1986. Percentages are amount of total effort searched during each sea state.

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