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Report of the 2006-2007 Census of the
Eastern North Pacific Stock of Gray Whales

April 2008

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**REPORT OF THE 2006-2007 CENSUS
OF THE
EASTERN NORTH PACIFIC STOCK OF GRAY WHALES**

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Cover photo: View looking north from a gray whale observation station at Granite Canyon, California. Photographer: K. Shelden (AFSC-NMML).

ABSTRACT

The southbound migration of the Eastern North Pacific stock of gray whales (*Eschrichtius robustus*) was documented by the National Marine Fisheries Service's Alaska Fisheries Science Center (AFSC) from 12 December 2006 to 22 February 2007. Research protocol was essentially identical to that used in previous surveys. This involved single observers independently searching for whales and recording data on environmental conditions and the time, location, count, and direction of travel for each sighting. The counting system and observer performance were tested through paired, independent observational effort. A fix-mounted, high-powered (25X) binocular provided an index (n = 110 pods; 19.7 hours) of the offshore distribution of migrating whales passing within the sighting range of the observers. The timing of the 2006-2007 southbound migration seemed to be 1 week later than in previous years, with the median date close to 21 January instead of 15 January. Most (80%) of the sightings occurred in January, 17% were in February and only 3% were in December. Counts of gray whales pods during fair to excellent visibility conditions totaled 1,770 pods during the 73 days (651.6 hours) of the standard census. The estimated abundance for 2006-2007 was 20,110 (SE = 1,766), which is similar to abundance estimates made in 2000-2001 (19,448; SE = 1,882) and 2001-2002 (18,178; SE = 1,780). The unweighted rate of increase was 0.016 (SE = 0.031), and the weighted rate (based on size of each abundance variance) was 0.019 (SE = 0.030).

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INTRODUCTION

The National Marine Fisheries Service (NMFS) has conducted shore-based counts of the Eastern North Pacific stock of gray whales (*Eschrichtius robustus*) for 22 years from 1967 to 2001 (Table 1) at Granite Canyon (or nearby at Yankee Point), 13 km south of Carmel, in central California. Convenient access to the Granite Canyon research station (owned by the National Oceanographic and Atmospheric Administration but operated by the State of California Department of Fish and Game) and the narrowness of the whales' migratory corridor in this area (Shelden and Laake 2002) permitted an efficient counting process at this site. All counts were conducted during the 2-month southbound migration rather than the protracted 3-month northbound migration (Pike 1962). The routine nature of these counts and the consistency in research protocol lend themselves to inter-annual trend analyses. For example, Reilly (1984), Buckland and Breiwick (2002), and Rugh et al. (2005) applied these abundance estimates to measure inter-annual trends.

The primary objective of the study in 2006-2007 was to provide another in the series of abundance estimates such that trend analysis could be continued. These estimates may provide the first documentation of a stock of large whales approaching carrying capacity (Wade and DeMaster 1998). An additional incentive to conduct this season's study was to assess the abundance after 2 years (1999 and 2000) in which unusually high counts of dead gray whales had been reported (LeBoeuf et al. 2000, Gulland et al. 2005) and after two censuses (2000-2001 and 2001-2002) in which abundance estimates were well below the expected trajectory (Rugh et al. 2005).

Table 1.--Duration of survey effort conducted by the National Marine Fisheries Service during counts of the southbound migration of gray whales at Granite Canyon, California. Uncorrected counts of whale pods (without hours of effort indicated) and the published abundance estimates are shown. Although abundance estimates presented here used the same method each year, standard errors (SE) since 1995 were adjusted to incorporate sources of variance not documented in previous years.

	Start dates	End dates	Count	Abundance	SE	Source	
1967	18 Dec	1968	3 Feb	903	13,776	1,082	1
1968	10 Dec	1969	6 Feb	1,079	12,869	708	1
1969	8 Dec	1970	8 Feb	1,245	13,431	758	1
1970	9 Dec	1971	12 Feb	1,458	11,416	590	1
1971	18 Dec	1972	7 Feb	857	10,406	614	1
1972	16 Dec	1973	16 Feb	1,539	16,098	834	1
1973	14 Dec	1974	8 Feb	1,496	15,960	872	1
1974	10 Dec	1975	7 Feb	1,508	13,812	781	1
1975	10 Dec	1976	3 Feb	1,187	15,481	930	1
1976	10 Dec	1977	6 Feb	1,991	16,317	818	1
1977	10 Dec	1978	5 Feb	657	17,996	1,249	1
1978	10 Dec	1979	8 Feb	1,730	13,971	753	1
1979	10 Dec	1980	6 Feb	1,451	17,447	984	1
1984	27 Dec	1985	31 Jan	1,756	22,862	1,379	1
1985	10 Dec	1986	7 Feb	1,796	21,444	1,120	1
1987	10 Dec	1988	7 Feb	2,404	22,250	1,115	1
1992	10 Dec	1993	7 Feb	1,180	18,844	1,190	2
1993	10 Dec	1994	18 Feb	1,864	24,638	1,475	2
1995	13 Dec	1996	23 Feb	2,151	24,065	1,393	3
1997	13 Dec	1998	24 Feb	2,853	29,758	3,122	4
2000	13 Dec	2001	5 Mar	1,684	19,448	1,882	4
2001	12 Dec	2002	5 Mar	1,712	18,178	1,780	4
2006	12 Dec	2007	22 Feb	1,770	20,110	1,766	5

Sources:

- 1 = Buckland and Breiwick (2002)
- 2 = Laake et al. (1994)
- 3 = Hobbs et al. (2004)
- 4 = Rugh et al. (2005)
- 5 = Current document

METHODS

Field Procedures

Observation Effort

Systematic counts of gray whales were conducted from 12 December 2006 to 22 February 2007, covering virtually the entire southbound migration past the Granite Canyon research station. Observation sheds provided a viewing platform with some protection from the elements, and they helped observers concentrate on the viewing area. Average eye height above sea level was 22.5 m. Although the field of view covered $>150^\circ$, observers generally searched through an arc of only $40\text{-}50^\circ$ near the standard azimuth, which is a line perpendicular to the coastline that intersects the survey site at 241° magnetic.

Three 3-hour standard-watch shifts covered the 9 daylight hours from 0730 to 1630. Observers were rotated to keep a balance of effort in each of the three shifts. Nine people participated in the shore-based counts conducted by the AFSC's National Marine Mammal Laboratory (NMML). All but two of these observers had a few or many years of previous experience counting gray whales at Granite Canyon.

Sighting Records

Standard-watch procedures were the same as those used in previous surveys (Rugh et al. 1990, 1993). Each observer operated independently and hand-recorded entries onto a data form. When a gray whale pod entered the viewing area, the time, horizontal bearing, and vertical angle were recorded as the "north sighting." Magnetic compasses in Fujinon 7X50 binoculars provided the horizontal bearings ($\pm 2^\circ$), and 14 reticle marks in the binoculars provided vertical angles relative to the horizon (detailed in Rugh et al. 1993, Kinzey and Gerrodette 2001). Observers tried to keep track of each pod traveling through the viewing area. Observers used a table based on average swimming speeds (in minutes) and sighting locations (bearings and reticles) to predict

the time and vertical angle where a pod would cross the standard azimuth. The time, horizontal bearing, and vertical angle were recorded a second time (the “south sighting”) as close to the standard azimuth as possible, and a pod-size estimate was recorded along with any unusual behaviors, the presence of a calf, and the number of times the pod was seen as it moved through the viewing area. Observers also recorded start and end times of systematic search effort, environmental changes, presence of vessels (optional), and other cetacean sightings. Entries included visibility (subjectively categorized from 1 to 6 for excellent to useless), wind direction, and sea state (Beaufort scale).

Paired, Independent Search Effort

In addition to the primary watch (generally at the “South Shed”), a second, independent watch was conducted (at the “North Shed”) one to three times daily from 6 January to 1 February 2007. The field of view and altitude of the two sheds were nearly identical. This provided paired, independent sighting records, allowing for comparisons between observers and an estimation of the number of whales missed within the viewing area (Rugh et al. 1993).

Offshore Distribution of Sightings

During censuses in 1988, 1993, 1994, and 1996, aerial survey results indicated only 1.28% of the gray whale population traveled beyond the viewing range of shore-based observers, which is approximately 3 nautical miles (nmi) offshore (Shelden and Laake 2002). Therefore, no correction, other than for probability of detection by distance, has been calculated for whales migrating seaward of the viewing area. Offshore distribution of whale sightings has also been documented through a fix-mounted, 25X binocular (Rugh et al. 2002). From 8 to 31 January 2007, there were 26 watches (45 minutes each). Future analyses of the 25X binocular data are planned to corroborate the aerial findings and to detect whether or not there are significant changes in offshore distribution of whales from one year to the next.

Analysis

Population abundance calculations from the observer counts follow the analytical procedures described in Hobbs et al. (2004). These methods account for: 1) whales that passed during periods when there was no observational effort (prior to and after the census season, at night, or when visibility was poor); 2) whales missed within the viewing range during on-effort periods; 3) differential sightability by observer, pod size, distance offshore, and various environmental conditions; 4) errors in pod-size estimation; 5) covariance within the corrections due to variable sightability by pod size; and 6) differential diel travel rates of whales. Although the methods used here are essentially the same as used in the past, the only significant change is a new correction factor for night travel rate (see below) based on a study conducted by Perryman et al. (1999). Previous abundance analyses (e.g., Hobbs et al. 2004) have used several different programs for synthesizing the observational records. In order to streamline the analysis process, a program was written (Lerczak 2003) providing a common language (Visual Basic) and convenient outputs for use in analyses carried out in R statistical programs (R Development Core Team 2007).

Calculation of Crossing Times

The recorded sighting time and location closest to the standard azimuth (usually within a few degrees of 241°) were converted to estimate the time and distance offshore at which each pod crossed this line. This was based on the assumption that southbound migrating gray whales travel at 6 kilometers per hour (km/hr) (3 knots) and maintain a course parallel to shore (c.f. Swartz et al. 1987). The time from the beginning to the end of the survey season was partitioned into effort periods (time between 0730 and 1630 with visibility 4 or better and an observer on effort) and non-effort periods. Each sighting was assigned to the effort or non-effort period into which it fell as a function of the calculated time it crossed the standard azimuth. Whale sightings were eliminated from the analysis if they crossed this line prior to the start of an effort period or if they had not crossed the line by the end of an effort period.

Correction for Missed Pods

Corrections for whale pods missed within the viewing area during a systematic effort are estimated from the paired, independent observation records. These paired records provide capture-recapture data that were used to estimate the total number of pods passing the station while observations were underway. A scoring algorithm (established by Rugh et al. 1993) defined matches between records based on time, offshore distance, and pod size. Iterative logistic regression (Buckland et al. 1993) was used to identify significant covariates to the probability of detecting a pod and to estimate the detection probability associated with each recorded pod. Possible covariates were observation site (North or South shed), effort period (1, 2, or 3), day, observer, distance offshore, pod size, sea state (Beaufort scale), wind direction, and whales per hour averaged over each day. After establishing the matching record, all covariates were examined individually as binned categorical data. All covariates were then entered into the model, and a backward step-wise model selection was followed until no step decreased the Akaike Information Criterion (AIC). Once the best model with main effects was determined, interactions between each possible pair of the retained covariates were considered.

The logistic regression model was used to compare \hat{p}_{ei} , the detection probability of the i th pod of size e passing during the effort periods of the survey. The total number of pods of size e passing during the effort periods of the survey, \hat{M}_e , and its variance were estimated as:

$$\hat{M}_e = \sum_{i=1}^{m_e} \frac{1}{\hat{p}_{ei}}, \quad \text{Var}(\hat{M}_e) = \sum_{i=1}^{m_e} \frac{1 - \hat{p}_{ei}}{\hat{p}_{ei}^2} + D_{\beta}(\hat{M}_e)^T \hat{\Sigma}_{\beta} D_{\beta}(\hat{M}_e),$$

where m_e is the number of pods assigned size e sighted from the primary site,

$D_{\beta}(\hat{M}_e)$ is the vector of partial derivatives of \hat{M}_e with respect to the vector of parameters β estimated in the logistic regression evaluated at $\hat{\beta}$, the vector of parameter estimates, and $\hat{\Sigma}_{\beta}$ is the estimated variance-covariance matrix of $\hat{\beta}$ (c.f. Borchers 1996).

The estimated total number of pods passing the field site while systematic efforts were underway, \hat{M} , is then

$$\hat{M} = \sum_{e=1}^E \hat{M}_e, \quad \text{Var}(\hat{M}) = \sum_{e=1}^E \text{Var}(\hat{M}_e) + 2 \sum_{j=1}^{E-1} \sum_{k=j+1}^E D_{\beta}(\hat{M}_j)^T \hat{\Sigma}_{\beta} D_{\beta}(\hat{M}_k),$$

where E is the largest observed pod size.

Bias in Recorded Pod Sizes

Bias in the recorded pod size resulting from under-estimation of pod size by observers is removed by an additive correction which has been estimated for each pod size, e , from data collected during earlier surveys (Laake et al. 1994), with the variances and covariances calculated in Hobbs et al. (2004).

The total number of whales (W_e) passing the observation site during effort periods represented by pods recorded as size e , was estimated as:

$$\hat{W}_e = \hat{M}_e (e + b_e), \quad \text{Var}(\hat{W}_e) = \text{Var}(\hat{M}_e) (e + b_e)^2 + \hat{M}_e^2 \hat{\sigma}_{b_e}^2,$$

where b_e is the estimated additive bias correction for pods estimated as size e from Laake et al. (1994), and $\hat{\sigma}_{b_e}^2$ is the bootstrap estimate of the variance of b_e .

The variance consists of two summands representing the estimation errors in \hat{M}_e and b_e .

The total number of whales, W , passing the site during usable effort periods was estimated as:

$$\hat{W} = \sum_{e=1}^E \hat{W}_e,$$

$$CV(\hat{W}) = \frac{1}{\hat{W}} \sqrt{\sum_{e=1}^E Var(\hat{W}_e) + 2 \sum_{j=1}^{E-1} \sum_{k=j+1}^E \left[(j + b_j) D_\beta(\hat{M}_j)^T \hat{\Sigma}_\beta D_\beta(\hat{M}_k)(k + b_k) + \hat{M}_j \hat{M}_k \hat{\sigma}_{b_{jk}} \right]},$$

where E is the maximum observed pod size, and

$\hat{\sigma}_{b_{jk}}$ is the bootstrap estimated covariance of b_j and b_k .

Correction for Whales Passing During Off-effort Periods (f_i)

Corrected pod sizes were summed by effort period with the sum rounded to the nearest integer so they could be used in the FORTRAN program *gwnorm* (Buckland 1992), which fits a normal distribution function to count data and adds polynomial terms to the model to improve the fit. In earlier gray whale analyses, estimated numbers of pods passing during each effort period were used with *gwnorm* to estimate the passage rate of pods; however, since 1997 and in the present analyses, the estimated number of whales passing during each effort period is used and the result is the passage rate of whales rather than pods. The rate of whales passing the site through time was modeled by a normal distribution with Hermite polynomials added to adjust for skewness, kurtosis, and higher moments (Buckland 1992, Buckland et al. 1993). The model defines a bell-shaped rate function, $q(t)$, of expected whales per day that was integrated to correct for periods when no search effort was underway. The correction factor, f_i , was defined as the ratio of the area under $q(t)$ integrated over the entire survey period, Q , to the area under $q(t)$ integrated only over effort periods. Although the histograms used to portray the seasonal distribution of sighting rates averaged data through each day, the model used to interpolate the generalized distribution was based on each effort period down to a minimum effort period of 3 minutes. No corrections were applied for whales passing prior to or after the apparent start and end of the migrations based on the distribution of sighting rates for the respective season, and no correction was included for whales traveling beyond the viewing range of the shore-based observers because these factors appear to involve very few whales without satisfactorily quantifiable estimates.

The computer program *gwnorm* fitted Hermite polynomials to the estimated number of animals passing in each effort period and provided output for five nested polynomial models, starting with the normal distribution model and adding additional terms. The best-fitting model was chosen based on the AIC criterion:

$$\text{AIC} = -2L(\hat{\theta}) + 2k,$$

where $L(\hat{\theta})$ is the log-likelihood of the model,

$\hat{\theta}$ are the maximum likelihood estimates of the Hermite polynomial parameters, and k is the number of parameters estimated.

Correction for Nocturnal Travel Rates (f_n^*)

The night passage rate, $f_n = 1.020$ (SE = 0.023), used by Buckland et al. (1993), was based on data from three radio-tagged gray whales recorded by Swartz et al. (1987) during *both* day and night hours near Granite Canyon; they excluded data from six other whales that were followed either during the day or the night. To further study diurnal variations in gray whale travel rates, Perryman et al. (1999) recorded thermal imagery of whales at Granite Canyon while the census of the southbound migration was underway in January 1994, 1995, and 1996 (total sample size = 116 hours by day; 146 hours by night). As with the tagging results, the imagery showed elevated travel rates at night, or put more accurately, depressed rates during the day, perhaps related to increases in non-migratory behavior in daylight hours after the middle of the migration, on 15 January (Perryman et al. 1999)¹. That is, prior to the middle of the migration, it appears that the day and night rates are the same. For calculations of abundance, we elected to use median sighting dates instead of 15 January, because the median date was thought to be more representative of the whales' behavior than a calendar date. Accordingly, we have applied a

¹ To confirm that there was a change in whale behavior midway through the migration, our primary observational effort was searched for milling whales and whales seen going north before 13 February 1998, 15 February 2001, and 18 February 2002, dates on which it appeared the northbound migration had started. Of 37 gray whales seen deviating from their migration south throughout the respective southbound migrations, 30 (81%) were after 15 January.

multiplicative correction factor $f_n^* = 1 + 0.28 (0.5) (15/24) = 1.0875$ (Perryman et al. 1999)², where 0.5 is the fraction of total whales migrating after the median date and 15/24 is the fraction of night-time hours in January with $SE = 0.116 (0.5) (15/24) = 0.0363$ and $CV(f_n^*) = 0.0334$.

Synthesis

The total number of whales passing through the viewing area at Granite Canyon during effort periods, W , was multiplied by corrections for whales passing when no search effort was in effect (including periods with poor visibility), f_t , and differences in diurnal/nocturnal travel rates, f_n^* . Accordingly, the total abundance estimate, N , was calculated as:

$$\hat{N} = W \cdot f_t \cdot f_n^*$$

The coefficient of variation, CV , was estimated by:

$$CV(\hat{N}) = \sqrt{\frac{\chi^2/df}{W} + CV^2(f_t) + CV^2(f_n^*) + CV^2(W)}$$

where χ^2/df is a variance inflation factor from fitting a Hermite polynomial to the sighting rates.

Rate of Increase

The rate of increase from 1967 to 2007, based on an exponential model ($N_t = N_0 e^{rt}$), was estimated by generalized linear models (GLM) using a log link (family = quasipoisson) and weights equal to $1/\text{var}(\log(N))$, where $\text{var}(\log(N)) \approx cv^2(N)$. The same correction factors applied for the 2006-2007 data (e.g., night versus day travel rates) were applied to the other

² In Perryman et al. (1999), the standard error equation $SE = 0.116 (14/24)$ should have been $g\epsilon = 0.116 f(15/24)$, corrected here by including the f term, using 15 night hours instead of 14, and by including the fraction of the migration (0.5) that should be adjusted for night rates (J. Laake, National Marine Mammal Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, Seattle, Washington, 98115, USA. pers. commun.).

sampled years for consistency in estimation procedures. In addition, a discrete logistic model was fit to the abundance data:

$$N_t = N_{t-1} + R_m N_{t-1} \left(1 - (N_{t-1}/K)\right) - C_{t-1},$$

where N_t is the abundance at the start of time period t ,

R_m is the rate of increase, K is the carrying capacity, and

C_{t-1} is the catch during time period $t-1$ (catches take place after the shore census).

RESULTS

Sample Size

The 2006-2007 gray whale census was conducted for 73 days from 12 December 2006 to 22 February 2007 (Fig. 1), a period similar to previous years (Table 1). Observers in the primary (South) shed recorded 1,861 pods of gray whales, of which 1,770 were seen during excellent to fair conditions (visibilities 1-4). Watches were maintained for a total of 651.6 hours on the primary watch (542.3 hours in visibilities 1-4), 111.7 hours on the secondary watch (during paired, independent counting efforts, $n = 758$ pods), and 19.7 hours on the fixed, high-powered binoculars ($n = 110$ pods). Because the secondary watch and observations using high-powered binoculars were tests of the counting system, they were generally not conducted in marginal conditions.

Visibility

Of the six subjective categories of visibility, little time was spent in the best (category 1: 2.0 hours) and worst (category 6: 9.3 hours) conditions, but intermediate categories 2-5 were well represented, with 80 to 240 hours each, respectively (Table 2). Sighting rates indicated a linear

drop from good to poor conditions (Fig. 2), unlike other years when the only apparent drop in sighting rates was in categories 5 and 6 (Hobbs et al. 2004, Rugh et al. 2005).

Migratory Timing

The 2006-2007 study included almost the entire southbound migration of gray whales because sighting rates were very low (<1/hour) for the first 16 days (until 27 December) and for the last 8 days (after 15 February) of the study (Fig. 1). Typical of most southbound migrations of gray whales observed from Granite Canyon, sighting rates rose from late December until mid-January and then gradually declined until mid-February, approximating a normal distribution. However, the migration seemed to be later than usual in 2006-2007. The mean sighting date in 2006-2007 was 21 January (day 52, with day 1 = 1 December), approximately a week later than the expected mean date of 15 January (Rugh et al. 2001).

Abundance Estimate

The uncorrected count (m) of southbound gray whale pods seen by observers during periods of adequate visibility (categories 1-4) during the primary effort was 1,768 for 2006-07 (Fig. 3). This count was multiplied by the corrected pod sizes to give the estimated number of whales ($W = 6,207$). Pod sizes were corrected for bias in pod size determination as well as for missed pods (Table 3). Significant covariates to the probability of detecting a pod and to estimate the detection probability associated with each recorded pod were: observer, pod size, Beaufort sea state and pods per hour. Model selection was based on stepwise AIC (Akaike Information Criterion) by iterative logistic regression (Tables 4 and 5). The estimated number of whales seen during effort periods (raw count corrected for pod-size bias and missed-pod bias) was fit with the Hermite polynomial model (Fig. 3). The AIC statistics for each Hermite polynomial model are shown in Table 5. It is clear that model 5, with 6 parameters, is the best-fitting model with an Akaike weight of 70%. The abundance estimate was 20,110 (SE = 1,766, lognormal confidence interval 16,936 to 23,878) (Table 6).

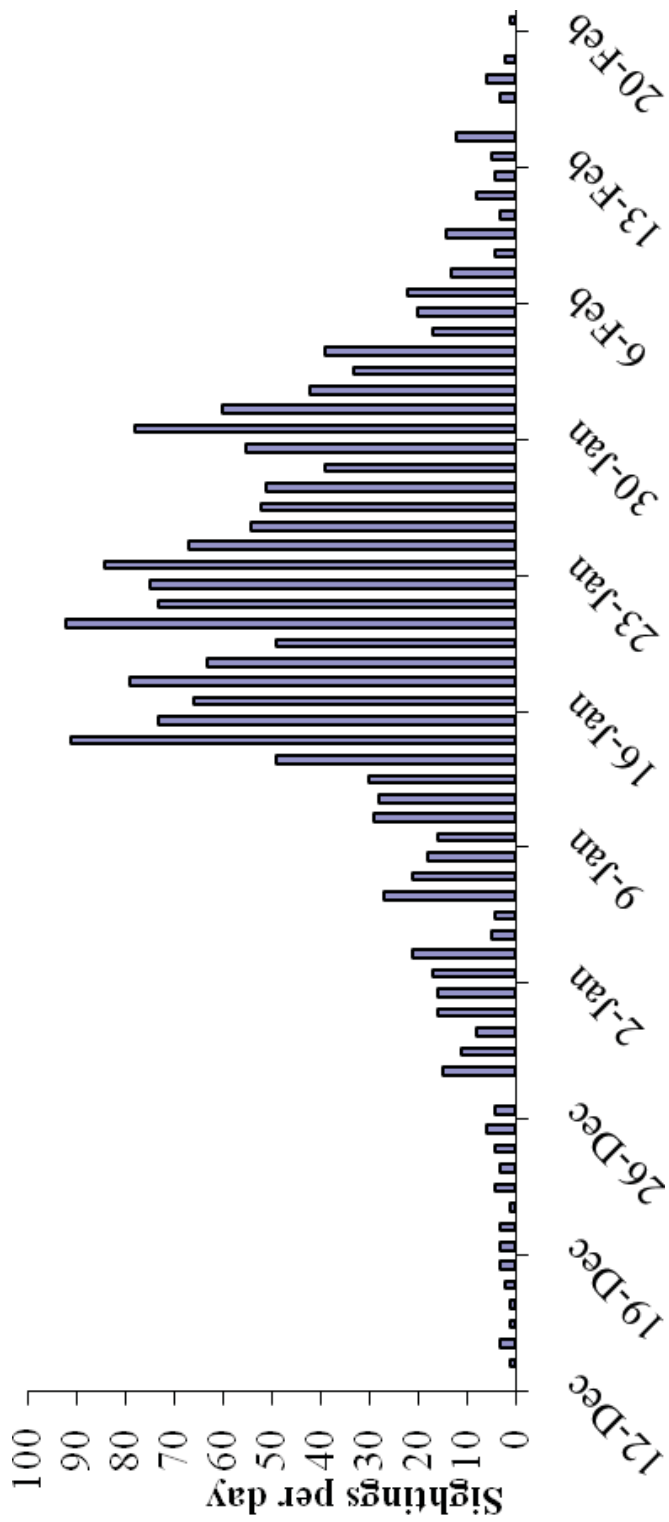


Figure 1. Gray whale sightings (pod counts) as a function of date during the southbound migration past Granite Canyon, California, in 2006-2007, using data from all visibility categories.

Table 2.--Rates of sightings of gray whale pods (encounter rates) as a function of visibility codes.

Visibilities	Codes	Effort (hour)	Number of pods	Encounter rates	SE	Average pod size	SE pod size
Excellent	1	3.0	8	2.67	2.40	3.25	0.82
Very good	2	80.2	397	4.95	0.54	2.13	0.08
Good	3	218.8	746	3.41	0.31	2.05	0.06
Fair	4	240.4	619	2.58	0.24	1.99	0.07
Poor	5	100.3	90	0.90	0.15	1.66	0.13
Useless	6	9.2	1	0.11	0.12	1.00	-
All effort	1-6	651.8	1,861	2.86	0.16	2.03	0.04
Usable effort	1-4	542.3	1,770	3.26	0.19	2.05	0.04

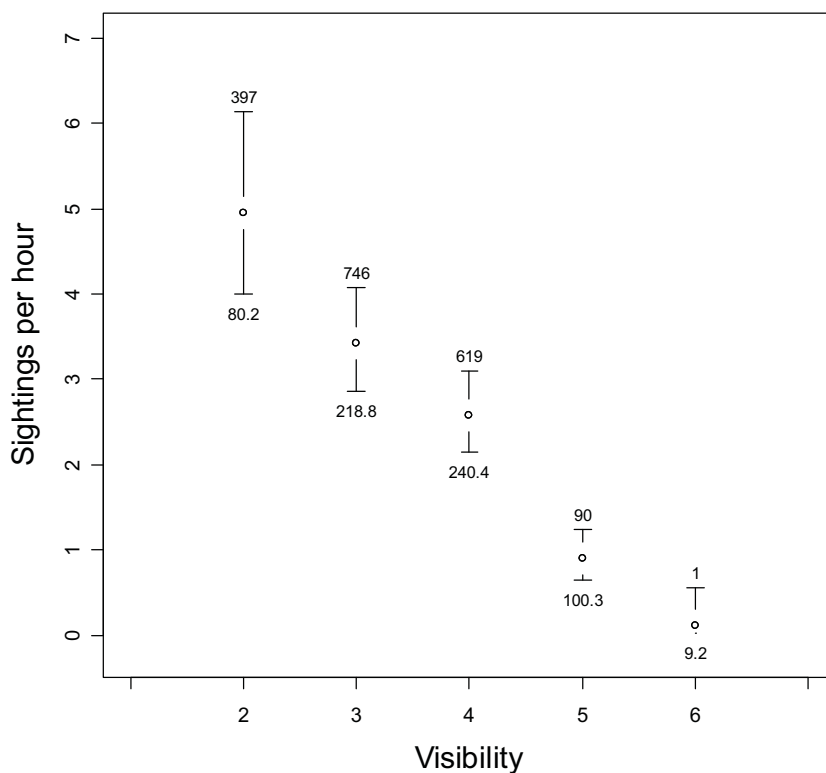


Figure 2.--Sighting rates of gray whale pods per hour as a function of visibility categories graded from very good [= 2] to useless [= 6]. Insufficient time was spent in excellent visibility [= 1] for it to be included here. Numbers above upper confidence bars are number of pods sighted; numbers below are hours watched.

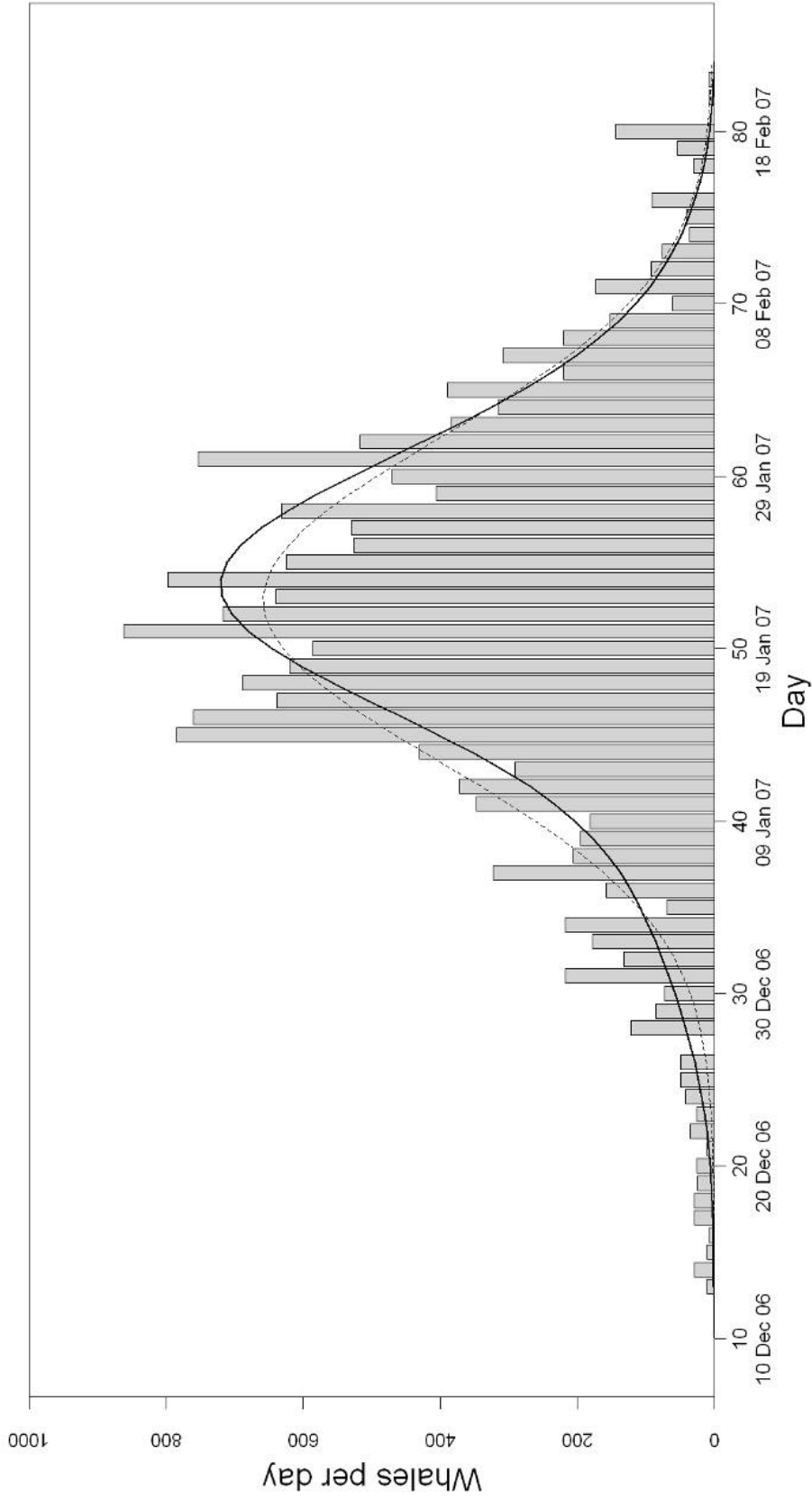


Figure 3.--Histogram of whales per day (corrected by pod size bias and missed pod size correction factors) with fitted Hermite polynomial curve (solid curve) and normal distribution (dashed line).

Table 3.--Estimation of total number of whales passing during systematic observational periods (visibility categories 1-4) in 2006-07.

Pod size	Number of recorded pods	Average correction for missed pods	Bias-corrected pod size	\hat{M}_e	\hat{W}_e	$CV(\hat{W}_e)$
1	852	1.483	1.941	1,264	2,452.5	14.5
2	484	1.253	2.646	606	1,604.6	10.3
3	215	1.121	3.607	241	869.4	11.6
4	109	1.071	4.25	117	496.3	16.4
5	42	1.036	5.25	44	228.5	14.1
6	24	1.026	6.25	25	153.8	12.7
7	17	1.011	7.25	17	124.6	11.4
8	11	1.006	8.25	11	91.3	10.9
9	4	1.004	9.25	4	37.1	12.9
10	3	1.002	10.25	3	30.8	12.8
11	1	1.002	11.25	1	11.3	18.5
13	1	1.000	13.25	1	13.3	15.4
14	2	1.000	14.25	2	28.5	10.6
15	1	1.000	15.00	1	15.3	13.3
16	1	1.000	16.25	1	16.3	12.5
20	1	1.000	20.25	1	20.3	10.0
Total	1,768			2,339	6,194*	

*This number differs from that in Table 6 (6,207) due to rounding errors.

Table 4.--Statistical model for GLM analysis of matched sighting data and stepwise Akaike Information Criterion (AIC) values.

Variables used in the starting model:

seen ~ stat + wat + obs + ps + beau + vis + pphr + dist + dist² + dist:obs + wdir.sin + wdir.sin² + beau:wdir.sin + beau:wdir.sin² + offset(off)

AIC = 739.89

Ending model:

seen ~ obs + ps + beau + pphr + offset(off)

AIC = 706.84

Variable	Definition
Stat	station
Wat	watch period
Obs	observer
Ps	pod size
Beau	Beaufort sea state
Vis	visibility code
Pphr	pods per hour
Dist	distance
dist:obs	observer interaction term (similarly for other x:y terms)

Coefficients	Results	z	Pr(> z)
(Intercept)	0.351	0.793	0.428
Obs A	18.883	0.013	0.989
Obs B	0.046	0.132	0.895
Obs C	18.852	0.107	0.986
Obs D	19.324	0.008	0.993
Obs E	18.728	0.017	0.986
Obs F	-0.681	-2.559	0.010*
Obs G	-0.478	-1.617	0.106
Obs H	-0.172	-0.428	0.669
Ps	0.641	5.364	8.2e-8 ***
Beau	-0.199	-2.844	0.004 **
Pphr	0.095	3.046	0.002 **

Codes for levels of statistical significance: 0 ***, 0.001 **, 0.01 *

Table 5.--Akaike Information Criterion (AIC) statistics for the five Hermite polynomial models considered.

Model	Log likelihood	Number of parameters (k)	AIC	Δ AIC	Akaike weights
5	-2005.143	6	4022.29	0.00	0.696
3	-2008.330	4	4024.66	2.37	0.213
4	-2008.182	5	4026.36	4.07	0.091
2	-2030.463	3	4066.93	44.64	0
1	-2063.835	2	4131.67	109.38	0

Table 6.--Estimated abundance and intermediate parameters for the Eastern North Pacific stock of gray whales counted at Granite Canyon, December 2006 – February 2007.

Parameter	Estimate	SE	CV (%)
Total number of pods recorded by primary observers during effort periods with visibility ≤ 4 (m):	1,768	—	—
Mean recorded pod size:	2.05	0.039	1.90
Corrected mean pod size:	2.79	0.034	1.22
Estimated number of whales passing during effort periods (W):	6,207	522	7.66
Correction for pods passing outside effort periods (f_i)	2.979257	0.0036	0.209
Estimated total number of whales without night travel correction (Q)	18,492	501	2.71
Correction for night travel (f_n)	1.0875	0.0363	3.34
Estimated number of whales passing Granite Canyon (\hat{N}):	20,110	1766	8.78
(95% CI)	(16,936-23,878)	—	—

Rate of Increase

The unweighted rate of increase (r) was 0.016 (SE = 0.031), and the weighted rate of increase was 0.019 (SE = 0.030) (Fig. 4). Nonlinear least-squares parameter estimates were: $N_0 = 11,109$ (SE = 1,478), $R_m = 0.141$ (SE = 0.047), and $K = 23,686$ (SE = 1,788). The exponential rate of increase models (weighted and unweighted) are shown in Figure 4 along with the discrete logistic model.

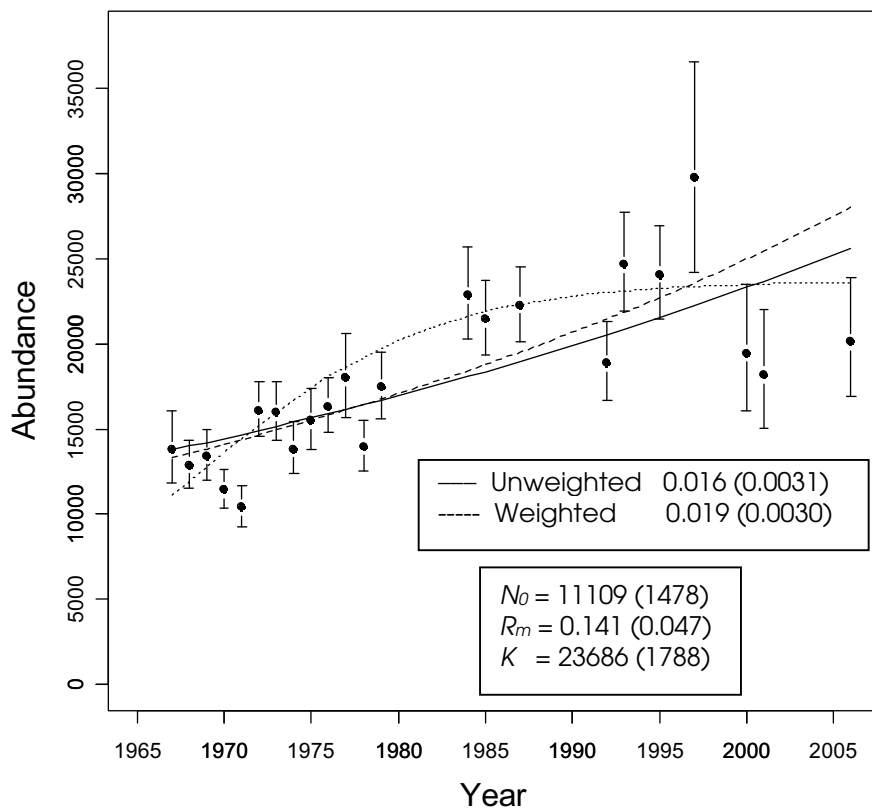


Figure 4.--Gray whale abundance estimates and lognormal confidence intervals, 1967-68 and 2006-07, including weighted and unweighted rate of increase model fits and the logistic model fit (dotted line).

DISCUSSION

The number of gray whale pods seen in 2006-2007 was similar to counts recorded in 2000-2001 and 2001-2002 but lower than in previous years (Table 1). There was a 2.6% per annum increase in abundance from 1967-68 to 1997-98 (Rugh et al. 2005), but then abundance dropped.

Recorded rates of >270 dead gray whales seen in 1999 (LeBoeuf et al. 2000, Gulland et al. 2005) and >300 in 2000 (Gulland et al. 2005) were much higher than the average rates of 41 per year from 1995-98 (Gulland et al. 2005), indicating there may have been a large die-off in this population.

It does not seem that observer experience, shifts in the migratory corridor, or visibility can adequately explain why abundance estimates have been lower since 1997-98. However, we have not yet fully tested the theory that inconsistent proportions of the population migrate as far south as Granite Canyon. In most years, the timing of the gray whale migration has been phenomenally regular (Rugh et al. 2001). Unexpectedly low encounter rates occurred in 1992-93, yet that season was followed by several seasons with much higher estimates (Table 1). One of the primary explanations for the low abundance estimate in 1992-93 was that various proportions of the gray whale population remain north of Granite Canyon each year, and in 1992-93 more whales than usual stayed north of this site (Laake et al. 1994). Perhaps in 2000-2001, 2001-2002 and 2006-2007, as in 1992-93, many whales did not migrate as far south as Granite Canyon. However, the many dead whales seen in 1999 and 2000, and the consistency of abundance estimates since 2000 strongly suggest that the abundance did drop after 1997-98 and has since stabilized again.

A slowing in the recorded rise in abundance from 1967-1968 to 1997-1998 has been anticipated (Reilly 1992, Wade 1997); but, until 2000-2001, there was only a suggestion of density-dependence beginning to occur (Wade and DeMaster 1998). If the most recent abundance estimates are representative, it could be the first indication this stock of whales has reached the

carrying capacity of its environment. We may anticipate that abundance will fluctuate as this population approaches equilibrium and adjusts to environmental limitations.

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APPENDICES

Appendix 1.-- 2006-07 gray whale census data from the south shed site. OBS = observers, X = experiment, V = visibility code, RET = reticle, E = estimated, C/C = cow with calf, T = travel direction, BEH = behavior code.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/12/2006	MMM	1	1	7.69583	6	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	"LOCATED IN BREEZEWAY; RAIN AND FOG; HEAVY SWELL AND SURF; B13509, A314"
12/12/2006	MMM	1	2	7.79917	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG LIFTED
12/12/2006	MMM	1	2	8.14139	6	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG COSED IN
12/12/2006	MMM	1	2	8.17667	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	MMM	1	2	8.22639	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	CLEARED A LITTLE; RAIN STOPPED
12/12/2006	MMM	1	2	8.45972	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG CLOSED IN; RAIN
12/12/2006	MMM	1	2	8.63889	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG CLEARED
12/12/2006	MMM	1	2	9.49806	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG CLOSING IN
12/12/2006	MMM	1	2	9.73667	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG CLEARED
12/12/2006	MMM	1	2	9.95972	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG ROLLED IN
12/12/2006	MMM	1	2	10.00306	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	FOG CLEARED
12/12/2006	MMM	1	5	10.50000	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	SLR	1	1	10.50028	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	"LOCATED IN BREEZEWAY, B13509, A314"
12/12/2006	SLR	1	2	11.28556	4	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	SLR	1	2	11.72861	5	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	HIGH GLARE
12/12/2006	SLR	1	2	12.06361	4	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	SLR	1	2	12.25556	5	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	HIGH GLARE
12/12/2006	SLR	1	4	12.64611	5	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	3 SEA OTTERS
12/12/2006	SLR	1	2	12.94528	4	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	SLR	1	5	13.50000	4	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	1	13.50028	4	SE	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	LOCATED IN BREEZE WAY
12/12/2006	IML	1	2	13.59417	4	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	13.75694	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	14.19972	4	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	14.42778	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	14.72306	4	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	14.97611	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	15.73722	4	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	2	15.86333	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
12/12/2006	IML	1	4	16.24389	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	"VERY FOGGY, ONLY VIS CLOSE TO SHORE ~ 200M"
12/12/2006	IML	1	4	16.46694	5	SE	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	LESS FOGGY BUT STILL POOR VIS

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/12/2006	IML	1	5	16.50000	5	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOCATED IN BREEZEWAY B13509, A314"
12/13/2006	SLM	1	1	7.50000	6	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	2	8.37278	5	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	2	8.62611	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	2	8.95833	5	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	2	9.28139	5	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	2	9.68722	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLM	1	3	10.43472	4	SE	2	10.43472	276	5.0	T	10.54306	240	5.0	E	2	S	0	3	0	
12/13/2006	SLM	1	5	10.50000	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLR	1	1	10.50028	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BREEZEWAY LOCATION, B13509, A315"
12/13/2006	SLR	1	2	10.85750	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLR	1	2	12.36917	3	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	SLR	1	2	12.67583	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE
12/13/2006	SLR	1	5	13.50000	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	1	13.50028	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOCATION 2 = BREEZE WAY
12/13/2006	IML	1	2	14.48472	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	2	14.73222	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	2	14.91917	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	2	16.19250	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	2	16.43111	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/13/2006	IML	1	5	16.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	IML	1	1	7.34361	6	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B12509, A315"
12/14/2006	IML	1	2	7.51111	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	IML	1	2	7.82444	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	IML	1	2	8.36111	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	IML	1	6	8.47500	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"~ 20-30 GG, TRAVELING S, B=283, R=1.5"
12/14/2006	IML	1	2	8.70250	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	IML	1	3	8.70556	4	NW	3	8.70556	283	3.0	E	8.84556	237	4.0		1	S	0	5	0	"1ST CUE = BLOW, LATER SAW BODY"
12/14/2006	IML	1	3	9.30639	4	NW	3	0.00000	0	0.0		9.30639	200	2.5		1	N	1	4	0	ASSUMED TO BE THE PREVIOUS ER NOW GOING NORTH
12/14/2006	IML	1	2	9.55667	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"POOR VIS NORTH OF B=270, VERY HAZY"
12/14/2006	IML	1	3	9.58333	4	NW	4	0.00000	0	0.0		9.58333	254	4.5		1	S	0	3	0	PREVIOUS WHALE TURNED SOUTH AGAIN

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/14/2006	IML	1	5	10.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLR	1	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
12/14/2006	SLR	1	2	12.04750	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HIGH GLARE, FOG AND MIST THRU-OUT"
12/14/2006	SLR	1	4	12.73556	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"ALOT OF FOG AND MIST LIFTED, BUT STILL HIGH GLARE"
12/14/2006	SLR	1	2	13.36111	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GLARE DECREASED SOME, GLARE IS MAINLY SOUTH OF 241 NOW"
12/14/2006	SLR	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	2	14.40694	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	2	15.17917	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	2	15.48472	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	2	15.77972	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/14/2006	SLM	1	3	16.00611	3	NW	4	16.00611	278	2.4		16.14306	235	3.5	1		S	0	5		
12/14/2006	SLM	1	5	16.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/15/2006	SLR	1	1	7.29167	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
12/15/2006	SLR	1	2	7.85694	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAIN STOPPED, SKY LIGHTENED SOME"
12/15/2006	SLR	1	2	9.72583	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WHITECAPS EVERYWHERE
12/15/2006	SLR	1	2	9.93806	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CHOPPY SEAS, GLARE"
12/15/2006	SLR	1	5	10.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/15/2006	SDN	1	1	10.50028	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315; FIRST WATCH (EXCITED)"
12/15/2006	SDN	1	2	11.03722	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SUN CAME OUT
12/15/2006	SDN	1	3	11.06667	4	SW	6	0.00000	0	0.0		11.06667	247	4.5	1		s	0	2		SIGHTING TIME ESTIMATED
12/15/2006	SDN	1	5	13.50000	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/15/2006	SLM	1	1	13.50028	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/15/2006	SLM	1	2	15.45250	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/15/2006	SLM	1	5	16.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	IML	1	1	7.34972	6	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
12/16/2006	IML	1	2	7.46139	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CLEAR TO HORIZON, HIGH CLOUD COVER"
12/16/2006	IML	1	2	7.66944	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	IML	1	2	8.32389	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	OVERCAST
12/16/2006	IML	1	8	8.68667	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"TANKER, R=0.0, B=240, GOING NORTH"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/16/2006	IML	1	2	8.81722	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	IML	1	8	9.25139	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"TANKER GOING NORTH, R=0.0, B=241"
12/16/2006	IML	1	2	9.33667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	IML	1	2	10.33333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	IML	1	3	10.41944	4	NW	3	10.41944	260	1.8		10.47750	252	1.8	1		S	0	5		"VERY HARD TO SEE BLOW--DID NOT LAST LONG, NEVER CONFIRMED S OF 252, SAW BODY"
12/16/2006	IML	1	5	10.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLR	1	1	10.50028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
12/16/2006	SLR	1	2	10.88361	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLR	1	2	11.83528	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	CRISP HORIZON
12/16/2006	SLR	1	2	12.31333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MORE GLARE
12/16/2006	SLR	1	2	12.62500	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE INCREASED
12/16/2006	SLR	1	5	13.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLM	1	1	13.50028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLM	1	2	14.27778	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLM	1	2	14.98417	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLM	1	2	16.30194	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/16/2006	SLM	1	5	16.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SDN	1	1	7.50000	4	E	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	START WATCH
12/17/2006	SDN	1	2	7.65583	5	E	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STARTED DRIZZLING
12/17/2006	SDN	1	2	8.55583	5	E	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAIN STOPPED, RAINBOW CAME OUT"
12/17/2006	SDN	1	5	10.50000	5	E	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	UNEVENTFUL WATCH
12/17/2006	SLM	1	1	10.50028	5	E	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLM	1	2	11.36528	4	E	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLM	1	2	11.58361	6	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RAIN
12/17/2006	SLM	1	2	11.66250	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RAIN STOPPED
12/17/2006	SLM	1	2	13.13889	5	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLM	1	2	13.25694	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLM	1	5	13.50000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLR	1	1	13.50028	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
12/17/2006	SLR	1	2	13.57028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/17/2006	SLR	1	4	14.33694	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LIGHT RAINS ON AND OFF
12/17/2006	SLR	1	3	14.55000	4	NW	3	14.55000	270	6.0		14.60000	236	6.3	1		S	0	4		GOOD BODY VIEWS
12/17/2006	SLR	1	3	14.65000	4	NW	3	14.65000	280	2.0		14.80556	247	3.0	2		S	0	5		GOOD BODY VIEWS
12/17/2006	SLR	1	4	15.00361	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FULL SUN, NO RAIN, SOME GLARE"
12/17/2006	SLR	1	2	15.15000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LESS GLARE

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
12/17/2006	SLR	1	2	16.05250	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE	
12/17/2006	SLR	1	5	16.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	IML	1	1	7.33611	6	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, CLEAR HORIZON, BLUE SKY, GLARE ON H20, DARK H20, SMALL SWELL"	
12/18/2006	IML	1	2	7.63278	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	IML	1	2	7.74167	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	IML	1	2	8.21944	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	IML	1	3	8.22222	3	NW	2	8.22222	269	2.0		8.34167	238	2.4	1		S	0	3		"1ST CUE = BLOW, SAW BODY"	
12/18/2006	IML	1	8	9.37250	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT GOING SOUTH, B=241, R=4.0"	
12/18/2006	IML	1	4	9.41111	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT STOPPED AT B=220, R=3.2, SPORT FISHERMAN"	
12/18/2006	IML	1	2	9.54056	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	IML	1	3	9.62639	3	NW	3	9.62639	288	0.6		9.81111	278	0.6	2		S	0	3		"1ST CUE=BLOW, NEVER SEEN SOUTH OF 278. SEEMED TO TRAVEL SLOW. MAYBE OFF SHORE?"	
12/18/2006	IML	1	4	10.24250	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT LEFT AREA	
12/18/2006	IML	1	2	10.33306	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOTS OF WHITECAPS	
12/18/2006	IML	1	5	10.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	SDN	1	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		CLEAR SKY
12/18/2006	SDN	1	3	11.46972	4	NW	4	11.46972	255	3.0		11.50778	244	3.2	1		s	0	4			
12/18/2006	SDN	1	5	12.21639	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		BATHROOM BREAK
12/18/2006	SDN	1	1	12.24167	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		BACK ON
12/18/2006	SDN	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	SLR	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509, A315"
12/18/2006	SLR	1	2	13.77583	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"VIS COMPROMISED BY CHOPPY SEAS, MANY WHITECAPS, BUT CRISP HORIZON"
12/18/2006	SLR	1	4	14.96556	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"MORE SPRAY, WHITECAPS EVERYWHERE"
12/18/2006	SLR	1	2	15.27917	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/18/2006	SLR	1	5	16.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/19/2006	SLR	1	1	7.25000	4	SE	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509, A315, HIGH GLARE"
12/19/2006	SLR	1	2	8.14722	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		SOME FOAM
12/19/2006	SLR	1	8	8.33333	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"HUGE BARGE"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/19/2006	SLR	1	2	8.82500	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0		HEADING N, CROSSING AZIMUTH 241, RET 00"
12/19/2006	SLR	1	2	9.32278	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0		GLARE DECREASED SOME
12/19/2006	SLR	1	3	9.41667	3	SW	2	0.00000	0	0.0		9.41667	241	2.0		1		S	0	3	"LAST DIVE WAS FLUKE UP, NICE BODY VIEW, VERY LIGHT GRAY & LOTS OF MOTTLING"
12/19/2006	SLR	1	2	9.80000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FISHING BOAT 22 APPROX, STATIONARY AT RET 2.4, ANGLE 241, CAME FROM N"
12/19/2006	SLR	1	8	10.13333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	SLR	1	5	10.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	SLM	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"1 DOLPHIN, TRAVELLING SOUTH, ANGLE=230, RETICLE=16"
12/19/2006	SLM	1	6	10.58667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	SLM	1	8	10.98333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT FROM PREVIOUS SHIFT LEFT, TRAVELLING NORTH, RETICLE= 5"
12/19/2006	SLM	1	3	12.20833	3	NW	2	12.20833	255	2.6	T	12.30194	238	3.1		1		S	0	9	
12/19/2006	SLM	1	2	12.60833	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	SLM	1	5	13.50000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	IML	1	1	13.50028	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, BLUE SKY, CLEAR HORIZON, VERY SMALL SWELL"
12/19/2006	IML	1	6	13.78056	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"~10-30 TT GOING NORTH, B=234, R=1.9 AT 13538 GOING SE B=237, R=1.8"
12/19/2006	IML	1	2	13.81806	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE
12/19/2006	IML	1	3	13.94417	3	SW	2	0.00000	0	0.0		13.94417	235	0.6		1		S	0	2	1ST CUE= BLOW
12/19/2006	IML	1	6	14.62306	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"~10-20 TT GOING NORTH B=245, R=2.1 AT 144159 B=257, R=2.3"
12/19/2006	IML	1	2	15.90917	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT GOING SOUTH, B=241, R=0.7"
12/19/2006	IML	1	8	16.02750	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/19/2006	IML	1	2	16.35250	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/19/2006	IML	1	5	16.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	IML	1	1	7.36194	6	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, CLEAR SKY & HORIZON, BUT SOME GLARE AND HAZE, SMALL SWELL"
12/20/2006	IML	1	2	7.59750	5	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	IML	1	2	7.86833	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	IML	1	8	7.88583	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT STOPPED AT B=252, R=2.8 SPORTFISHERMAN"
12/20/2006	IML	1	4	7.90944	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SAME BOAT STOPPED AT B=238, R=2.3, SLOWLY MOVING SOUTH"
12/20/2006	IML	1	8	8.17556	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"TANKER GOING NORTH B=240, R=0.0"
12/20/2006	IML	1	8	8.57222	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"TANKER GOING NORTH, B=242, R=0.0"
12/20/2006	IML	1	8	8.57500	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"TANKER GOING NORTH B=241, R=0.0, WAS VERY CLOSE TO PREVIOUS TANKER"
12/20/2006	IML	1	8	8.91111	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"COATGUARD VESSEL GOING SOUTH B=238, R=0.6"
12/20/2006	IML	1	2	8.95056	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME HAZE NORTH OF 270
12/20/2006	IML	1	6	9.65528	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"-50-100 GG TRAVELLING SW, B=278, R=0.4"
12/20/2006	IML	1	3	9.82639	3	E	2	0.00000	0	0.0		9.82639	200	8.0		1		S	0	1	"FLUKE-UP DIVE, CUE=BLOW"
12/20/2006	IML	1	2	10.09694	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE AND GLARE EVERYWHERE
12/20/2006	IML	1	5	10.50000	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	SLR	1	1	10.50028	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, HIGH GLARE"
12/20/2006	SLR	1	3	11.46667	4	W	2	0.00000	0	0.0		11.46667	235	1.9		1		S	0	6	"ALL SOUTH CUES, FIRST 2 CUES ENDED WITH A FLUKE UP DIVE"
12/20/2006	SLR	1	8	11.56667	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"ABOUT 20' FISHING BOAT HEADING SOUTH, CROSSING 241 AT RET 2"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/20/2006	SLR	1	6	11.91667	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"COASTAL BOTTLENOSE DOLPHINS, 2 HEADING SOUTH, 230 DEG 20 RET (EST)"
12/20/2006	SLR	1	6	11.95000	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"MORE COASTAL BOTTLENOSE DOLPHINS, 10 HEADING SOUTH, 245 DEG 19 RET (EST)"
12/20/2006	SLR	1	4	12.59444	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SUPER HIGH GLARE THRU-OUT ESP AT 241 AREA"
12/20/2006	SLR	1	4	13.09639	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GLARE DECREASING ESP NORTH OF 250"
12/20/2006	SLR	1	2	13.17500	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	SLR	1	5	13.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/20/2006	SDN	1	1	13.50028	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOTS OF BIRDS, A LITTLE GLARE FROM SUN"
12/20/2006	SDN	1	2	13.75028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LESS GLARE"
12/20/2006	SDN	1	6	14.27778	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"JUST SOME DOLPHINS"
12/20/2006	SDN	1	3	14.87750	3	NW	2	0.00000	0	0.0		14.87750	249	1.4		2	1	S	0	5	"4 CUES AFTER 241"
12/20/2006	SDN	1	2	16.06389	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"INCREASING GLARE AS THE SUN STARTED GOING DOWN"
12/20/2006	SDN	1	5	16.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOW LIGHT, CALM SEAS"
12/21/2006	SDN	1	1	7.50000	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOW LIGHT, SEAS UP A LITTLE"
12/21/2006	SDN	1	2	8.47250	4	W	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND DOWN, MORE LIGHT"
12/21/2006	SDN	1	2	9.26167	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND DOWN, MORE LIGHT"
12/21/2006	SDN	1	3	10.01667	3	E	2	0.00000	0	0.0		10.01667	244	1.6		1	S	0	3	0	"2 CUES < 240"
12/21/2006	SDN	1	2	10.18333	4	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SKY GETTING DARKER"
12/21/2006	SDN	1	5	10.50000	4	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/21/2006	IMIL	1	1	10.50028	4	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BT3509, A315, OVERCAST, CLEAR HORIZON, SMALL SWELL, LITTLE TO NO WIND"
12/21/2006	IMIL	1	2	10.68556	5	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WASHED OUT LIGHT, ALL GREY, POOR CONTRAST"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/21/2006	IML	1	6	10.77833	5	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"-20-30 GG GOING SOUTH, B=267, R=4.5, 105029 B=239, R=5.0"
12/21/2006	IML	1	8	11.30083	5	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SAILBOAT GOING NORTH B=241, R=0.3"
12/21/2006	IML	1	2	11.32278	4	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	IMPROVED CONTRAST
12/21/2006	IML	1	8	11.81389	4	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"COASTGUARD VESSEL GOING NORTH, B=240, R=1.5"
12/21/2006	IML	1	2	12.44167	4	S	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT GOING NORTH, B=241, R=0.4"
12/21/2006	IML	1	8	12.56944	4	S	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/21/2006	IML	1	2	13.03611	4	SSW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/21/2006	IML	1	5	13.50000	4	SSW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/21/2006	SLR	1	1	13.50028	4	SSW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, OVERCAST"
12/21/2006	SLR	1	4	14.86667	4	SSW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STILL OVERCAST BUT DARKER WITH LIGHT RAIN
12/21/2006	SLR	1	2	15.21667	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAIN HEAVIER, MIST, FOG AND GLARE"
12/21/2006	SLR	1	5	15.83333	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	(RESTROOM)
12/21/2006	SLR	1	1	15.91389	5	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"(RETURNED) SUPER HIGH GLARE, VERY DARK SKY, RAIN CONTINUING"
12/21/2006	SLR	1	5	16.50000	5	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/22/2006	SLR	1	1	7.33611	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, SOME GLARE"
12/22/2006	SLR	1	3	7.63333	4	NW	4	0.00000	0	0.0		7.63333	233	2.5		1	S	0	2		"COULD ONLY SEE THE BLOWS, CHOPPY SEAS"
12/22/2006	SLR	1	2	8.77500	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SEA FLATTENED SOME
12/22/2006	SLR	1	2	9.61944	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND PICKED UP MORE
12/22/2006	SLR	1	2	10.00556	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME SPRAY NOW
12/22/2006	SLR	1	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/22/2006	SDN	1	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CLEAR SKY, HEAVY WIND"
12/22/2006	SDN	1	2	10.64139	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND PICKING UP
12/22/2006	SDN	1	2	11.59722	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	VISIBILITY IMPROVED
12/22/2006	SDN	1	2	12.12361	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND PICKING UP, MORE WHITE CAPS"
12/22/2006	SDN	1	3	12.97083	4	NW	5	0.00000	0	0.0		12.97083	242	1.6		1	S	0	1		SECOND BLOW < 240
12/22/2006	SDN	1	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/22/2006	IML	1	1	13.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, CLEAR HORIZON, BLUE SKY, MANY WHITE CAPS, VERY WINDY"
12/22/2006	IML	1	2	13.56639	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WHITE CAPS EVERYWHERE, SHED IS SHAKING"
12/22/2006	IML	1	2	13.80778	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WITH GUSTS OFF AND ON, GLARE FROM SOUTH"
12/22/2006	IML	1	2	14.29750	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WITH GUSTS OFF AND ON AND GLARE
12/22/2006	IML	1	3	15.87750	4	NW	4	15.87750	295	1.6		16.11000	235	3.0		1	S	0	5		1ST CUE=BLOW
12/22/2006	IML	1	3	16.00000	4	NW	4	16.00000	262	1.2		16.19417	235	1.5		2	S	0	6		1ST CUE = BLOW
12/22/2006	IML	1	2	16.24528	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOTS OF GLARE FROM SOUTH
12/22/2006	IML	1	5	16.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"START WATCH, LIGHT HAZE"
12/23/2006	SDN	1	1	7.43583	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	SDN	1	3	8.31278	3	NE	2	8.31278	264	3.6		8.42611	241	2.6		1	S	0	7		NORTH AND SOUTH SIGHTINGS WERE BOTH DEEP DIVES
12/23/2006	SDN	1	5	9.48917	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BATHROOM BREAK
12/23/2006	SDN	1	1	9.54056	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON
12/23/2006	SDN	1	2	10.00139	2	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	SDN	1	2	10.21750	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	A LITTLE HAZIER
12/23/2006	SDN	1	5	10.50000	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, HAZY, CLEAR HORIZON, SLIGHT OVERCAST"
12/23/2006	IML	1	2	10.82917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	2	11.01222	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	2	11.08528	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	OVERCAST
12/23/2006	IML	1	2	11.73611	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	2	12.24917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"NO HAZE, DARK WATER"
12/23/2006	IML	1	3	12.36806	3	NW	3	12.36806	290	1.0		12.77250	241	1.8		4	S	0	9		1ST CUE =BLOW
12/23/2006	IML	1	2	12.61333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE
12/23/2006	IML	1	2	12.76750	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	2	12.83472	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/23/2006	IML	1	3	12.86944	5	NW	6	12.86944	278	1.2	E	13.11639	230	2.0	E	1	S	0	3		"1ST CUE = BLOW, B & R ESTIMATED FOR BOTH SIGHTINGS, BLOW DISAPPEARED

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
																					QUICKLY"	
12/23/2006	IML	1	2	13.06917	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/23/2006	IML	1	5	13.50000	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/23/2006	SLR	1	1	13.50028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"	
12/23/2006	SLR	1	2	14.32778	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/23/2006	SLR	1	2	14.51611	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SEAS FLATTENED BUT THERE'S GLARE	
12/23/2006	SLR	1	2	15.60583	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NO WHITECAPS BUT SUPER HIGH GLARE	
12/23/2006	SLR	1	2	16.26806	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SCATTERED WHITECAPS	
12/23/2006	SLR	1	3	16.31667	4	NW	3	16.31667	289	1.0		16.83333	239	2.0	1		S	0	10		"HIGH FLUKE UP AT 253, LESS GLARE IN N, SUN SETTING AT 241"	
12/23/2006	SLR	1	5	16.83333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/24/2006	IML	1	1	7.26028	6	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B135009, A315, FOGGY, OVERCAST, NO HORIZON, LOW LIGHT, NO WIND"	
12/24/2006	IML	1	2	7.53611	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LESS FOG/HAZE, HORIZON VISIBLE"	
12/24/2006	IML	1	2	7.79333	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME FOG/HAZE AT R=0.02.5	
12/24/2006	IML	1	5	8.78194	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE	
12/24/2006	IML	1	1	8.82667	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG/HAZE STILL THERE, BEST VIS ON LINE"	
12/24/2006	IML	1	4	9.22361	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"NO HORIZON, FOG MOVING IN, LOTS OF FOG/GLARE SOUTH OF 230"	
12/24/2006	IML	1	2	9.84694	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZY	
12/24/2006	IML	1	5	10.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/24/2006	SDN	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		PRETTY HAZY OUT
12/24/2006	SDN	1	3	10.64722	3	NW	2	0.00000	0	0.0		10.64722	234	1.5	E	1		S	0	1		
12/24/2006	SDN	1	6	11.72444	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		SMALL GROUP OF DOLPHINS CLOSE IN
12/24/2006	SDN	1	4	12.85389	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		VISIBILITY OBSCURED BY HAZE < 1 RETICLE
12/24/2006	SDN	1	3	12.87611	3	NW	2	12.87611	261	1.2		13.08778	245	1.3		3		S	0	6	"VERY HARD TO SEE BECAUSE OF DISTANCE, HAZE. SEE JOURNAL"	
12/24/2006	SDN	1	8	12.91111	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		SMALL CRAFT WHALE

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
																					WATCHING AT RETICLE 0.4
12/24/2006	SDN	1	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0		
12/24/2006	SLR	1	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0		"B135509, A315"
12/24/2006	SLR	1	2	13.59722	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0		"SOME FOG ON HORIZON, GLARE & HAZE"
12/24/2006	SLR	1	3	14.43056	4	NW	2	14.43056	289	2.8		14.55556	249	3.7	1		S	0	9		"GOOD BODY VIEWS, FLUKE UP AT A280", "HIGH GLARE AT 241 AREA, LESS IN N"
12/24/2006	SLR	1	4	14.60000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"I THINK LOST IN GLARE 241 AREA"
12/24/2006	SLR	1	3	14.80000	4	NW	2	0.00000	0	0.0		14.80000	265	1.2	3		S	0	2		"SOUTH SIGHTING AREA WHITE ON WHITE! (GLARE)"
12/24/2006	SLR	1	4	15.15000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"HIGH GLARE THRU-OUT ENTIRE VIEWING AREA"
12/24/2006	SLR	1	4	15.72778	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"GLARE IS SO EXTREME, POOR VIS"
12/24/2006	SLR	1	2	15.97778	5	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"A BIT OF EARLY MORNING HAZE"
12/24/2006	SLR	1	5	16.50000	5	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"INCREASING HAZE, FOG"
12/25/2006	SDN	1	1	7.43444	3	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0		"BACK ON"
12/25/2006	SDN	1	2	8.18583	4	W	2	0.00000	0	0.0		0.00000	0	0.0	1		S	0	1		"ONLY CAUGHT 1 CUE IN CURRENT VISIBILITY"
12/25/2006	SDN	1	5	8.99472	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"BATHROOM BREAK"
12/25/2006	SDN	1	1	9.07278	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"BACK ON"
12/25/2006	SDN	1	3	9.83861	4	W	2	0.00000	0	0.0		9.83861	246	2.8	1			0	0		"ONLY CAUGHT 1 CUE IN CURRENT VISIBILITY"
12/25/2006	SDN	1	5	10.50000	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"B13509, A315, HIGH GLARE AND HAZE"
12/25/2006	SLR	1	1	10.50028	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"C/C PAIR INTERACTING WITH COMMON DOLPHINS, SEE BACK OF FORM"
12/25/2006	SLR	1	3	11.05000	4	W	2	0.00000	0	0.0		11.05000	242	2.0	E 2	1	M	8	24		"LOOKED LIKE COMMON DOLPHINS AT 248 DEG 2 RET WITH C/C, SEE BACK OF FORM"
12/25/2006	SLR	1	6	11.60000	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"GETTING SPOTTING SCOPE"
12/25/2006	SLR	1	2	12.11250	6	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		
12/25/2006	SLR	1	2	12.13333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/25/2006	SLR	1	3	12.25000	3	NW	2	0.00000	0	0.0		12.25000	230	1.8		1		S	0	3	
12/25/2006	SLR	1	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, 80% CLOUDY, CLEAR HORIZON."
12/25/2006	IML	1	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"ONE MILLING HUMPBACK GOING W, S, AND NORTH, SEE BACK OF DATA SHEET"
12/25/2006	IML	1	6	13.74056	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HAZE & GLARE, FOG IS COMING IN"
12/25/2006	IML	1	2	13.95472	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"--20-50 UNID DOLPHINS GOING SOUTH B=215 R=3.8 TAILLOB, BREACH, HEADSLAP"
12/25/2006	IML	1	6	14.02278	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG ON HORIZON OFF AND ON AT R=0.0-0.5, GLARE FROM SOUTH"
12/25/2006	IML	1	4	14.68000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"1ST CUE = BLOW, FLUKE UP DIVE"
12/25/2006	IML	1	3	15.42361	4	NW	2	0.00000	0	0.0		15.42361	275	3.8		1		S	0	1	"1ST CUE = BLOW, SAW BODY"
12/25/2006	IML	1	3	15.47833	4	NW	2	15.47833	267	2.8		15.60778	238	3.2		1		S	0	6	"1ST CUE = BLOW, NO BODY SEEN"
12/25/2006	IML	1	3	15.54417	4	NW	2	0.00000	0	0.0		15.54417	240	1.7		1		S	0	2	"BAIT BALL AT B=190, R=5.5"
12/25/2006	IML	1	4	15.73583	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, LOW LIGHT, OVERCAST, CLEAR HORIZON, BIG SURF"
12/25/2006	IML	1	5	16.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"VIS IMPROVED, MORE LIGHT"
12/26/2006	IML	1	1	7.33583	6	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"1ST CUE = BLOW, SAW BODY & FLUKE UPS"
12/26/2006	IML	1	2	7.54389	5	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE
12/26/2006	IML	1	2	7.63333	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	1	8.27056	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	5	8.67500	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	1	8.72889	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	2	9.09056	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FEEDING BIRDS BTN B=190-210 AND R=3-4
12/26/2006	IML	1	4	9.94917	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	2	10.29222	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/26/2006	IML	1	3	10.49167	3	SW	4	10.49167	285	2.0		10.71750	242	3.0		1		S	0	7	"1ST CUE = BLOW, SAW"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
12/26/2006	IMIL	1	5	10.50000	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		BODY"
12/26/2006	SDN	1	1	10.50028	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/26/2006	SDN	1	3	10.63528	3	SW	4	0.00000	0	0.0		10.63528	270	1.4	E	1		S	0	1		
12/26/2006	SDN	1	2	11.53444	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0		HARD TO DISTINGUISH BLOWS FROM WHITE CAPS
12/26/2006	SDN	1	3	12.15917	4	SW	6	12.15917	271	4.0	E	12.31250	242	4.2		4		S	0	5		
12/26/2006	SDN	1	5	13.50000	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/26/2006	SLR	1	1	13.50028	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509, A315"
12/26/2006	SLR	1	2	14.57444	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/26/2006	SLR	1	6	14.83333	5	SW	7	0.00000	0	0.0		0.00000	250	5.8		0			0	0		"1-2 UNIDENTIFIED DOLPHINS, POSSIBLY BOTTLENOSE"
12/26/2006	SLR	1	4	16.13333	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0		RAINING AND VERY DARK SKY
12/26/2006	SLR	1	5	16.50000	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	SLR	1	1	7.30000	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509, A315, VERY DARK & WINDY, HIGH SEAS AND RAIN"
12/27/2006	SLR	1	2	7.90000	5	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"LIGHTER SKY, RAIN LESSENER"
12/27/2006	SLR	1	2	8.38833	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"HIGH WIND AND RAIN, DARK BUT WAVES ALITTLE SMALLER"
12/27/2006	SLR	1	2	8.91667	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	SLR	1	2	9.26972	5	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"RAIN STOPPED, LIGHTER SKY BUT HIGH WAVES"
12/27/2006	SLR	1	2	9.38333	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		HEAVY RAIN & WIND
12/27/2006	SLR	1	2	9.58333	5	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		RAIN STOPPED
12/27/2006	SLR	1	2	10.23333	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	SLR	1	5	10.50000	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	CDV	1	1	10.50028	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509, A315"
12/27/2006	CDV	1	2	11.22222	5	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	CDV	1	2	12.25083	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	CDV	1	5	13.50000	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/27/2006	SDN	1	1	13.50028	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		VERY WINDY
12/27/2006	SDN	1	4	15.78972	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"SWELLS GROWING, 0 VISIBILITY"
12/27/2006	SDN	1	5	16.50000	6	NW	9	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/28/2006	SDN	1	1	7.44750	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
12/28/2006	SDN	1	2	7.78778	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"WIND, WAVES UP"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/28/2006	SDN	1	3	8.61444	4	NW	5	8.61444	264	3.0	E	8.69056	238	2.4	1			S	0	5	"WIND, SWELL DOWN, SUN, OUT"
12/28/2006	SDN	1	2	8.74528	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	BATHROOM BREAK
12/28/2006	SDN	1	5	8.78611	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	BACK ON
12/28/2006	SDN	1	1	8.82222	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	SDN	1	3	9.54833	3	NW	4	0.00000	0	0.0		9.54833	250	3.2	E	1		S	0	1	
12/28/2006	SDN	1	3	9.77444	3	NW	4	0.00000	0	0.0		9.77444	240	4.0	E	2		S	0	3	
12/28/2006	SDN	1	3	10.04333	3	NW	4	0.00000	0	0.0		10.04333	238	1.5	2		S	0	2	0	1 CUE < 235
12/28/2006	SDN	1	5	10.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	SLR	1	1	10.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	"B13509, A315"
12/28/2006	SLR	1	2	10.56194	2	NW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	SLR	1	3	11.40056	2	NW	3	11.40056	281	3.5		11.51944	230	4.5	1		S	0	9		SUDDENLY APPEARED
12/28/2006	SLR	1	3	11.86667	2	NW	3	0.00000	0	0.0		11.86667	221	0.8	1		S	0	3		2-4 BOTTLENOSE DOLPHINS IN SURF
12/28/2006	SLR	1	6	12.15250	2	NW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	SLR	1	3	12.37500	2	NW	3	12.37500	287	1.0		12.89778	240	1.8	1		S	0	5		"FIRST SPOTTED RET 0.9, A293 AT 1225"
12/28/2006	SLR	1	3	12.76667	2	NW	3	0.00000	0	0.0		12.76667	239	1.5	E	1		S	0	3	
12/28/2006	SLR	1	3	13.27500	2	NW	3	0.00000	0	0.0		13.27500	245	1.5	1		S	0	3		
12/28/2006	SLR	1	2	13.41389	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	SLR	1	3	13.49722	3	NW	4	13.49722	250	1.5		13.55000	241	1.6	1		S	0	4		
12/28/2006	SLR	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	CDV	1	1	13.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	CDV	1	3	13.53361	3	NW	4	0.00000	0	0.0		13.53361	231	3.0	1		S	0	0		
12/28/2006	CDV	1	3	13.73528	3	NW	4	13.73528	263	2.0		13.87028	227	2.0	1		S	0	3		
12/28/2006	CDV	1	2	14.82594	4	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	CDV	1	3	15.48111	4	NW	4	15.48111	283	2.0		15.79528	241	2.8	2		S	0	3		
12/28/2006	CDV	1	2	15.58361	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/28/2006	CDV	1	3	15.80972	3	NW	4	15.80972	284	1.2		15.95000	255	2.5	1		S	0	4		
12/28/2006	CDV	1	3	16.32556	3	NW	4	16.32556	266	2.5		16.41722	242	2.9	1		S	0	3		
12/28/2006	CDV	1	5	16.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	CDV	1	1	7.50000	4	N	3	0.00000	0	0.0		0.00000	0	0.0					0	0	VERY FLAT LIGHT
12/29/2006	CDV	1	3	7.56611	4	N	3	0.00000	0	0.0		7.56611	193	2.0	1		S	0	1		
12/29/2006	CDV	1	2	8.56000	3	N	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	CDV	1	2	9.11833	2	N	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	CDV	1	2	9.64528	3	NW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	CDV	1	3	9.67778	3	NW	3	0.00000	0	0.0		9.67778	222	3.0	1		S	0	2		"FOOTPRINT SIGHTED, BUT WHALE NOT VISIBLE UNTIL SOUTH ANGLE"
12/29/2006	CDV	1	2	10.08722	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	CDV	1	5	10.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
12/29/2006	SDN	1	1	10.50028	2	NW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/29/2006	SDN	1	3	10.85972	2	NW	3	10.85972	249	5.2		10.90722	238	5.0		1		S	0	3	
12/29/2006	SDN	1	3	10.86278	2	NW	3	10.86278	251	4.5		10.91139	243	4.6		3		S	0	3	WAS NOT ABLE TO DETERMINE IF FIRST WHALE WAS PART OF THIS POD.
12/29/2006	SDN	1	2	11.80139	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND DOWN, LOTS OF BIRDS"
12/29/2006	SDN	1	3	12.63528	2	NW	2	12.63528	264	3.4	E	12.75222	244	3.5	E	1		S	0	4	NO SIGHTING AFTER RETICLE 244
12/29/2006	SDN	1	3	13.17361	2	NW	2	0.00000	0	0.0		13.17361	245	1.5		1		S	0	1	
12/29/2006	SDN	1	3	13.20000	2	NW	2	13.20000	267	3.0		13.24500	250	3.5		1		S	0	3	
12/29/2006	SDN	1	3	13.26472	2	NW	2	13.26472	250	4.0		13.34361	238	3.0		2		S	0	4	POSSIBLE C/C
12/29/2006	SDN	1	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/29/2006	IML	1	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A314, SMALL SWELL"
12/29/2006	IML	1	2	13.50056	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CLEAR HORIZON, 80% OVERCAST, SCATTERED WHITE CAPS FROM R=0 TO 3"
12/29/2006	IML	1	2	13.88056	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOTS OF WHITE CAPS, R 0 TO 8"
12/29/2006	IML	1	2	13.98611	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WHITE CAPS EVERYWHERE INTO SHORE GUSTY, GLARE FROM SOUTH"
12/29/2006	IML	1	2	14.92611	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/29/2006	IML	1	2	15.33917	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/29/2006	IML	1	3	15.50278	4	NW	5	0.00000	0	0.0		15.50278	247	1.0	E	1		S	0	2	"1ST CUE = BLOW, NO BODY SEEN"
12/29/2006	IML	1	3	15.53889	4	NW	5	15.53889	267	2.5	E	15.64833	240	2.8		1		S	0	4	"1ST CUE = BLOW, SAW BODY"
12/29/2006	IML	1	3	15.72028	4	NW	5	0.00000	0	0.0		15.72028	240	1.0		3		S	0	4	"1ST CUE = BLOW, SAW BODY"
12/29/2006	IML	1	2	16.10806	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT GOING NORTH, R=0.0, B=240"
12/29/2006	IML	1	8	16.45667	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/29/2006	IML	1	5	16.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	IML	1	1	7.37694	6	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, CLEAR SKY, CLEAN HORIZON, FLAT SEAS, SCATTERED WHT CAPS R=0-2"
12/30/2006	IML	1	2	7.65278	5	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	IML	1	4	7.65583	6	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BIRD BAL AT 187 AND

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/30/2006	IML	1	2	7.90111	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	R=2.6
12/30/2006	IML	1	4	8.02333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SEABIRDS EVERYWHERE
12/30/2006	IML	1	2	8.09667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SPORT CHARTER BOAT GOING SOUTH AT 238 AND R=0.6
12/30/2006	IML	1	8	8.10000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SPORT FISHER BOAT STOPPED AT B245, R=9.0"
12/30/2006	IML	1	8	8.13750	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT STOPPED AT 245 AND R=52, MOVED IN AND OUT OF AREA UNTIL END OF WATCH"
12/30/2006	IML	1	8	8.31389	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SAW 3 BLOWS AT B=160, R=0.2"
12/30/2006	IML	1	4	8.39389	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WHT CAPS AT R=0-1.0
12/30/2006	IML	1	4	8.60694	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WHT CAPS MOSTLY GONE
12/30/2006	IML	1	2	8.93250	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"2 TANKERS GOING NORTH B=240, R=0.0"
12/30/2006	IML	1	8	8.98722	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"1ST CUE = BLOW, SAW BODIES"
12/30/2006	IML	1	3	9.32500	2	NW	2	9.32500	300	1.8		9.68222	241	3.7		4	S	0	10	0	TANKER GOING NORTH AT B=242 AND R=0.0
12/30/2006	IML	1	8	9.57306	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT STOPPED AT B242 AND R=3.2
12/30/2006	IML	1	8	9.57361	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"1ST CUE = BLOW, SAW BODY"
12/30/2006	IML	1	3	9.67694	2	NW	2	0.00000	0	0.0		9.67694	237	4.9		1	S	0	2	0	WHT CAPS AT R=0-0.6
12/30/2006	IML	1	4	10.18306	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	A213509 315DEG.
12/30/2006	IML	1	5	10.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	CDV	1	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	CDV	1	3	10.50333	3	NW	3	10.50333	277	1.8		10.98417	238	1.8		1	S	0	2	0	NUMBEROUS WHITECAPS TO 3 RET.
12/30/2006	CDV	1	4	11.16611	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT LEAVING AREA HEADING NORTH PASSING 242
12/30/2006	CDV	1	3	11.48861	3	NW	4	11.48861	276	2.5		11.71083	224	3.2		1	S	0	3	0	
12/30/2006	CDV	1	2	11.96278	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	CDV	1	3	12.86806	4	NW	4	12.86806	272	2.8		13.00861	242	3.4		2	S	0	4	0	
12/30/2006	CDV	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	SDN	1	1	13.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/30/2006	SDN	1	3	13.99167	4	NW	5	13.99167	262	4.9	E	14.03333	244	3.5		1	S	0	4	0	DEEP DIVE AT RETICLE

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
12/30/2006	SDN	1	3	14.08500	4	NW	5	14.08500	250	3.0		14.12389	241	2.4		1		S	0	3	244
12/30/2006	SDN	1	3	14.62056	4	NW	5	14.62056	262	2.8		14.69500	242	3.4		2		S	0	5	UNABLE TO DETERMINE IF SIGHTING WAS OF A C/C PAIR
12/30/2006	SDN	1	2	15.07583	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND DOWN/ GLARE UP
12/30/2006	SDN	1	5	16.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/31/2006	CDV	1	1	7.50000	5	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/31/2006	CDV	1	3	7.55361	5	N	3	0.00000	0	0.0		7.55361	236	1.8		2		S	0	2	"HIGH SURF, FLAT LIGHT"
12/31/2006	CDV	1	4	7.97750	5	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BOAT APPROACHING POD RAPIDLY, STOPPED AT 265 1.8 TO FISH"
12/31/2006	CDV	1	3	7.99722	5	N	3	7.99722	264	1.8		8.10167	242	1.9		1		S	0	2	
12/31/2006	CDV	1	2	8.49167	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SECOND BOAT APPROACHES FROM N STOPS 242 2.0; OTHER BOAT NOW AT 232 2.0
12/31/2006	CDV	1	4	8.50000	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	2ND BOAT APPROACHED FROM N; BOATS STOPPED AT 242 DEG AND 232 DEG
12/31/2006	CDV	1	6	8.82056	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SINGLE DOLPHIN (LAG) AT 10 RET 242 DEG
12/31/2006	CDV	1	4	9.43028	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT AT 242 LEAVES TO NORTH
12/31/2006	CDV	1	4	9.48361	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT AT 232 LEAVES TO NORTH
12/31/2006	CDV	1	3	9.95861	4	N	3	9.95861	283	1.4		10.20083	242	2.0		1		S	0	4	
12/31/2006	CDV	1	3	10.13083	4	N	3	10.13083	252	1.0		10.24167	236	1.5		3		S	0	3	
12/31/2006	CDV	1	3	10.33361	4	N	3	0.00000	0	0.0		10.33361	242	1.0		1		S	0	1	
12/31/2006	CDV	1	3	10.33611	4	N	3	0.00000	0	0.0		10.33611	243	1.0		2		S	0	1	
12/31/2006	CDV	1	3	10.34028	4	N	3	0.00000	0	0.0		10.34028	244	1.0		2		S	0	1	
12/31/2006	CDV	1	3	10.40556	4	N	3	10.40556	258	4.0		10.50889	220	3.8		5		S	0	3	
12/31/2006	CDV	1	5	10.50000	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"VIS OBSCURED BY CLOUD COVER, FOG"
12/31/2006	SDN	1	1	10.50028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
12/31/2006	SDN	1	3	10.68111	4	NW	3	10.68111	261	0.8		10.91111	241	1.0		2		S	0	2	
12/31/2006	SDN	1	3	10.80833	4	NW	3	10.80833	255	1.5	E	10.92917	240	2.0		3		S	0	2	
12/31/2006	SDN	1	3	11.43722	4	NW	3	0.00000	0	0.0		11.43722	258	2.6	E	1		S	0	1	UNABLE TO SEE > 1 SIGHTING AT RETICLE 2.6

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
12/31/2006	SDN	1	3	11.44500	4	NW	3	0.00000	0	0.0		11.44500	255	4.2	E	2		S	0	1		
12/31/2006	SDN	1	3	11.91833	4	NW	3	11.91833	280	4.0	E	12.02611	242	3.5		20		S	0	5	2 CUES AFTER 241 RETICLE	
12/31/2006	SDN	1	3	12.13667	4	NW	3	12.13667	256	4.4		12.15444	250	4.0		1		S	0	2	FLUKE UP AT RETICLE 250	
12/31/2006	SDN	1	3	12.96778	4	NW	3	12.96778	260	1.0	E	13.00972	255	0.5		3		S	0	2	LOST AFTER 255 BECAUSE OF BAD VIS.	
12/31/2006	SDN	1	3	13.15917	4	NW	3	0.00000	0	0.0		13.15917	244	1.0		2		S	0	3	3 CUES RELATIVELY SAME TIME AND ANGLE. ONLY ONE RECORDED	
12/31/2006	SDN	1	5	13.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
12/31/2006	IML	1	1	13.50028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	"B13509; A315, HEAVY DARK OVERCAST, GLARE"
12/31/2006	IML	1	3	13.97639	4	NW	3	13.97639	260	0.8		14.17750	239	1.0		1		S	0	6	ONLY BLOWS SEEN	
12/31/2006	IML	1	4	14.36000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	"CHANGING LIGHT, POOR CONTRAST, GLARE OFF AND ON"
12/31/2006	IML	1	5	15.59972	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	RESTROOM BRAKE
12/31/2006	IML	1	1	15.63361	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
12/31/2006	IML	1	3	15.69222	4	NW	3	15.69222	272	0.8		15.91750	233	1.1	E	1		S	0	5	ONLY BLOWS SEEN	
12/31/2006	IML	1	2	16.21333	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
12/31/2006	IML	1	5	16.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
1/1/2007	IML	1	1	7.24750	6	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	"B13509; A315, CLEAR SKY, FOG BANK ON HORIZON"
1/1/2007	IML	1	2	7.35333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
1/1/2007	IML	1	3	7.36778	4	NW	3	7.36778	282	0.8		7.56944	265	1.0		1		S	0	8	ONLY BLOWS IN DARK H20 SEEN	
1/1/2007	IML	1	3	7.37361	4	NW	3	7.37361	282	0.4		7.88556	242	1.3		3		S	0	10	"NICE BLOWS IN SUNNY H20, 1ST CUE = BLOW, BODIES SEEN"	
1/1/2007	IML	1	3	7.43583	4	NW	3	7.43583	290	1.0		7.71028	262	1.4		1		S	0	4	ONLY BLOWS SEEN IN DARK WATER	
1/1/2007	IML	1	8	7.77222	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	0	"BOAT GOING SOUTH AT 232 R3.2, THEN WENT WEST"
1/1/2007	IML	1	3	7.80611	4	NW	3	0.00000	0	0.0		7.80611	222	0.4		3		S	0	2	"1ST CUE = BLOW, BODY SEEN IN SUNNY WATER"	
1/1/2007	IML	1	2	8.06528	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0				0	0	
1/1/2007	IML	1	3	8.21056	4	NW	4	8.21056	265	2.0		8.30333	242	2.1	E	1		S	0	6	"POOR SURFACINGS, ONLY BLOW SEEN, R"	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/1/2007																						ESTM ON SOUTH SIGHTING"
1/1/2007	IML	1	2	8.77833	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	UNIFORM LIGHT	
1/1/2007	IML	1	5	9.01889	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE	
1/1/2007	IML	1	1	9.06694	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	IML	1	3	9.58333	3	NW	3	0.00000	0	0.0		9.58333	241	2.2		1		S	0	4	ONLY BLOWS SEEN	
1/1/2007	IML	1	3	9.63056	3	NW	3	9.63056	280	1.5		9.84861	246	2.0		3		S	0	10	"BODIES SEEN, NICE VISIB BLOWS, 1ST CUE = BLOW"	
1/1/2007	IML	1	2	9.78222	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	IML	1	2	9.98361	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	IML	1	3	9.98583	4	NW	4	0.00000	0	0.0		9.98583	238	1.9		2		S	0	3	"BODIES SEEN, 1ST CUE = BLOW"	
1/1/2007	IML	1	2	10.37611	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	IML	1	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	SDN	1	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	SDN	1	3	11.06583	4	NW	5	11.06583	263	1.2		11.24028	234	1.5		5		S	0	2		
1/1/2007	SDN	1	3	11.10972	4	NW	5	11.10972	266	2.0		11.19194	239	2.2		1		S	0	3		
1/1/2007	SDN	1	3	11.69611	4	NW	5	0.00000	0	0.0		11.69611	254	2.0	E	2		S	0	1		
1/1/2007	SDN	1	5	12.42944	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM	
1/1/2007	SDN	1	1	12.47250	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK TO WATCH	
1/1/2007	SDN	1	3	13.30222	4	NW	5	13.30222	255	4.0		13.33333	238	4.5	E	1		S	0	2		
1/1/2007	SDN	1	3	13.30222	4	NW	5	13.30222	255	4.0		13.33333	238	4.5	E	1		S	0	2		
1/1/2007	SDN	1	2	13.36000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	SDN	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	CDV	1	1	13.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	CDV	1	3	13.56667	3	NW	4	13.56667	247	2.1		13.57417	242	2.1		1		S	0	2	BLOWS VERY OBVIOUS @242 & SOUTH WITH BACKLIGHT	
1/1/2007	CDV	1	3	14.10250	3	NW	4	14.10250	277	1.8		14.23222	242	2.0		1		S	0	4		
1/1/2007	CDV	1	2	14.58333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	CDV	1	3	14.68694	4	NW	4	14.68694	269	1.8		14.84417	242	1.8		1		S	0	3		
1/1/2007	CDV	1	2	15.23472	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	CDV	1	2	16.00000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/1/2007	CDV	1	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/2/2007	CDV	1	1	7.50000	4	E	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BINOCs. 13509 321DEGREES (OFF FROM WEARING AN UNDERWIRE GARMENT PERHAPS)	
1/2/2007	CDV	1	3	8.26444	4	E	1	8.26444	287	1.2		8.50444	242	2.1		1		S	0	3		
1/2/2007	CDV	1	2	8.89667	3	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/2/2007	CDV	1	3	8.99778	3	NW	1	8.99778	296	0.8		9.45028	238	2.4		7		S	0	5	
1/2/2007	CDV	1	3	9.13861	3	NW	1	9.13861	300	1.5		9.43333	242	2.8		2		S	0	3	
1/2/2007	CDV	1	3	9.75722	3	NW	1	9.75722	258	2.2		9.97222	238	2.4		5		S	0	3	
1/2/2007	CDV	1	5	10.50000	3	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	SDN	1	1	10.50028	3	E	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	SDN	1	3	11.19944	3	E	1	0.00000	0	0.0		11.19944	257	0.8		4		S	0	3	
1/2/2007	SDN	1	3	11.38361	3	E	1	0.00000	0	0.0		11.38361	269	2.0		1		S	2	1	MIGHT HAVE BEEN WITH PREVIOUS POD
1/2/2007	SDN	1	3	11.38611	3	E	1	11.38611	257	2.4		11.45028	235	2.4		3		S	0	0	
1/2/2007	SDN	1	2	11.53333	4	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND UP
1/2/2007	SDN	1	3	11.67111	4	NE	4	11.67111	275	2.5		11.83389	243	3.0		1		S	0	9	
1/2/2007	SDN	1	2	12.33167	3	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	SDN	1	2	12.60611	2	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	SDN	1	3	12.64556	2	NE	2	12.64556	272	1.2		12.83083	237	1.5		8		S	0	4	POD SIZE ESTIMATED
1/2/2007	SDN	1	3	12.86111	2	NE	2	0.00000	0	0.0		12.86111	255	1.8		1		S	0	1	
1/2/2007	SDN	1	2	12.91472	3	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	SDN	1	5	13.50000	3	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	IML	1	1	13.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, OVERCAST"
1/2/2007	IML	1	3	13.50444	3	NW	3	0.00000	0	0.0		13.50444	289	1.0		1		S	0	1	ONLY BLOW SEEN
1/2/2007	IML	1	3	13.55583	3	NW	3	13.55583	282	1.4	E	13.76222	242	2.1		3		S	0	8	BODIES SEEN
1/2/2007	IML	1	2	13.61889	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE AND GLARE
1/2/2007	IML	1	2	14.03417	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	IML	1	2	14.70194	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	IML	1	2	15.27917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	IML	1	3	15.29111	3	NW	3	15.29111	287	1.8		15.48361	240	3.1		1		S	0	11	BODY SEEN
1/2/2007	IML	1	2	15.71111	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HEAVY GLARE FROM SOUTH
1/2/2007	IML	1	3	15.73083	4	NW	3	15.73083	293	1.5		16.07778	243	2.5		6		S	0	12	BODIES AND FLUKES SEEN
1/2/2007	IML	1	3	16.03444	4	NW	3	16.03444	260	6.0		16.04750	250	7.0		1		S	0	4	BODY SEEN
1/2/2007	IML	1	3	16.13778	4	NW	3	16.13778	255	2.0		16.18853	239	2.1		1		S	0	5	BODY SEEN
1/2/2007	IML	1	2	16.45000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/2/2007	IML	1	3	16.45222	4	NW	4	16.45222	282	1.0	E	16.68611	248	1.2		E 1		S	0	3	"ONLY BLOWS SEEN, BAD VIS"
1/2/2007	IML	1	2	16.45278	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HEAVY GLARE AND LOW LIGHT
1/2/2007	IML	1	5	16.80056	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/3/2007	SLM	1	1	7.50000	5	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/3/2007	SLM	1	2	7.72500	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/3/2007	SLM	1	3	8.14111	4	NE	3	8.14111	268	2.3	E	8.25278	237	3.5		2		S	0	7	
1/3/2007	SLM	1	3	8.70694	4	NE	3	8.70694	260	2.2		9.03194	241	2.1		4		S	0	3	"LOTS OF BIRDS, HARD TO SEE WHALES

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/3/2007	SLM	1	3	9.31056	4	NE	3	9.31056	280	2.3		9.58667	230	3.1		1		S	0	7	SOMETIMES"	
1/3/2007	SLM	1	2	10.15000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	SLM	1	5	10.50000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	MMM	1	1	10.50028	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315; WHITECAPS AND BIRDS EVERYWHERE"	
1/3/2007	MMM	1	3	10.90000	5	NW	4	0.00000	0	0.0		10.90000	224	1.8		1		s	0	4		
1/3/2007	MMM	1	2	10.90028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NOT AS MANY BIRDS; ABLE TO SEE BLOWS	
1/3/2007	MMM	1	4	11.22333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SPRAY FROM SURF IS DISTRACTING	
1/3/2007	MMM	1	4	11.29528	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SAW BLOW AT 255 DEG (SAME AS 112855 WHALE?)	
1/3/2007	MMM	1	3	11.48194	4	NW	4	0.00000	0	0.0		11.48194	215	0.8		1		s	0	2	113200.205 1.3 (SAME WHALE?)	
1/3/2007	MMM	1	3	11.79361	4	NW	4	11.79361	288	1.3		12.03056	238	2.5		1		s	0	8		
1/3/2007	MMM	1	4	12.26583	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE	
1/3/2007	MMM	1	3	12.46694	4	NW	4	0.00000	0	0.0		12.46694	228	1.9		1		s	0	3	121049.275E (SAME WHALE?)	
1/3/2007	MMM	1	3	12.54889	4	NW	4	0.00000	0	0.0		12.54889	275	1.2		3		s	0	2	123130.2760.8E	
1/3/2007	MMM	1	3	12.83333	4	NW	4	12.83333	253	1.9		12.91056	241	1.8		4		s	0	4	SPREAD OUT; 125140 250 1.8	
1/3/2007	MMM	1	3	13.17778	4	NW	4	0.00000	0	0.0		13.17778	240	3.5		1		s	0	7	131120.2363.5 - FLUKE	
1/3/2007	MMM	1	3	13.30833	4	NW	4	13.30833	251	1.8		13.42778	233	1.8		2		s	0	3	131905.2511.8 - FLUKE	
1/3/2007	MMM	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	CDV	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	CDV	1	3	13.50028	4	NW	4	13.50028	267	3.2		13.61111	242	4.0		4		S	0	3		
1/3/2007	CDV	1	3	13.90417	4	NW	4	13.90417	256	0.3		13.93333	238	0.2		5		S	0	3		
1/3/2007	CDV	1	2	14.20694	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG SHIFTING FROM 1.0 - 4.0 FETICLES, OBSCURING WHALES BUT CONSTANTLY CHANGING."	
1/3/2007	CDV	1	2	14.45056	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	CDV	1	2	14.75000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/3/2007	CDV	1	3	14.93972	3	NW	3	0.00000	0	0.0		14.93972	232	2.2		1		S	0	1	BLOW DIFFICULT TO SEE	
1/3/2007	CDV	1	3	14.98750	3	NW	3	14.98750	292	1.8		15.20806	244	2.5		1		S	0	4		
1/3/2007	CDV	1	3	15.34917	3	NW	3	0.00000	0	0.0		15.34917	242	1.2		1		S	0	1		
1/3/2007	CDV	1	3	15.59639	3	NW	3	15.59639	282	0.5		16.01583	242	1.0		1		S	0	4		
1/3/2007	CDV	1	3	15.60028	3	NW	3	15.60028	260	2.2		15.74639	225	2.0		2		S	0	4		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/3/2007	CDV	1	3	16.19194	3	NW	3	16.19194	289	0.8		16.46917	242	1.2		13		S	0	5	AFFILIATIONS AND DISAFFILIATIONS MADE THIS SIGHTING VERY DIFFICULT
1/3/2007	CDV	1	3	16.29056	3	NW	3	16.29056	285	0.8		16.49889	253	1.2		3		S	0	3	
1/3/2007	CDV	1	3	16.43194	3	NW	3	16.43194	266	1.0		16.50028	246	1.2		2		S	0	3	
1/3/2007	CDV	1	3	16.48361	3	NW	3	0.00000	0	0.0		16.48361	258	1.2		1		S	0	1	
1/3/2007	CDV	1	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	1	7.50000	6	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HEAVY FOG AND RAIN A 13509 @ 315 DEG.
1/4/2007	CDV	1	2	7.83333	5	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	2	8.16667	6	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	2	9.10000	5	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	3	9.84250	5	S	2	0.00000	0	0.0		9.84250	288	1.1		1		S	0	1	OBSCURED BY RAIN AND FOG .ONLY SEEN ONCE
1/4/2007	CDV	1	2	9.86694	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	3	9.93306	4	NE	3	0.00000	0	0.0		9.93306	245	2.4		1		S	0	1	
1/4/2007	CDV	1	2	10.08444	5	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	2	10.33583	6	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	CDV	1	5	10.50000	5	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315; FOG, WIND, AND RAIN"
1/4/2007	MMM	1	1	10.50028	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	MMM	1	2	10.58972	6	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	MMM	1	2	10.81528	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	MMM	1	2	11.14250	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON VISIBLE
1/4/2007	MMM	1	2	11.37583	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	MMM	1	2	11.81556	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WAVES WITH SPRAY
1/4/2007	MMM	1	4	11.87028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG CLEARED
1/4/2007	MMM	1	2	11.89000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	MMM	1	3	12.03750	4	NW	5	12.03750	279	1.5		12.12333	260	1.5		2		s	0	2	FOUND DURING BINO SEARCH OF VIEWING AREA
1/4/2007	MMM	1	2	12.14361	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG AND WIND
1/4/2007	MMM	1	2	12.33333	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON VISIBLE
1/4/2007	MMM	1	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	1	13.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	3	14.21722	4	NW	5	0.00000	0	0.0		14.21722	244	3.1		2		S	0	4	
1/4/2007	SLM	1	2	14.30611	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	2	14.32361	6	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	2	14.40000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	2	14.51806	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	3	14.57000	4	NW	5	0.00000	0	0.0		14.57000	234	1.7		3		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/4/2007	SLM	1	2	14.82639	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	2	14.96667	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	3	15.23972	4	NW	5	15.23972	250	2.6		15.29111	239	1.4		1	S	S	0	3	
1/4/2007	SLM	1	2	15.99167	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	2	16.10000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/4/2007	SLM	1	5	16.50000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	IML	1	1	7.25444	6	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, CLEAR SKY AND HORIZON, BIG SWELL"
1/5/2007	IML	1	2	7.42250	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	IML	1	2	7.48444	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SPRAY, LOTS OF BIRDS, FALSE CUES"
1/5/2007	IML	1	3	7.64722	4	NW	4	7.64722	287	1.1	E	7.82222	248	1.8	E	1	S	S	0	2	"ONLY BLOW SEEN, ANGLE ESTIMATED"
1/5/2007	IML	1	3	7.75556	4	NW	4	7.75556	275	1.8		7.89389	247	2.4		1	S	S	0	3	ONLY BLOWS SEEN
1/5/2007	IML	1	3	8.12861	4	NW	4	8.12861	251	2.0		8.20194	230	2.0		1	S	S	0	2	ONLY BLOWS SEEN
1/5/2007	IML	1	2	8.92944	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	IML	1	3	9.02222	4	NW	5	0.00000	0	0.0		9.02222	196	0.6		1	S	S	0	1	ONLY BLOWS SEEN
1/5/2007	IML	1	2	9.32917	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BIG WHT CAPS AND SPRAY
1/5/2007	IML	1	3	9.69639	5	NW	5	0.00000	0	0.0		9.69639	275	1.0		1	S	S	0	1	ONLY BLOWS SEEN
1/5/2007	IML	1	2	9.88806	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GUSYT, WHT CAPS EVERYWHERE, AND SPRAY"
1/5/2007	IML	1	5	10.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	SLM	1	1	10.50028	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	SLM	1	3	11.25083	5	NW	6	11.25083	262	0.7		0.00000	0	0.0		1	s	S	0	1	
1/5/2007	SLM	1	3	11.89194	5	NW	6	0.00000	0	0.0		11.89194	245	3.1		2	S	S	0	3	
1/5/2007	SLM	1	3	12.27889	5	NW	6	0.00000	0	0.0		12.27889	244	2.3		1	S	S	0	2	
1/5/2007	SLM	1	5	13.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	CDV	1	1	13.50028	5	N	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	CDV	1	2	14.00000	5	N	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	CDV	1	3	14.30889	5	N	7	0.00000	0	0.0		14.30889	230	6.0		1	S	S	0	1	
1/5/2007	CDV	1	3	14.57500	5	N	7	0.00000	0	0.0		14.57500	268	3.0		1	S	S	0	2	
1/5/2007	CDV	1	3	14.94806	5	N	7	0.00000	0	0.0		14.94806	240	1.2		1	S	S	0	1	
1/5/2007	CDV	1	5	15.46667	5	N	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK
1/5/2007	CDV	1	1	15.52500	5	N	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/5/2007	CDV	1	3	15.55417	5	N	7	15.55417	260	3.0		15.61667	242	3.0		1	S	S	0	3	
1/5/2007	CDV	1	3	16.23111	5	N	7	0.00000	0	0.0		16.23111	232	1.0		1	S	S	0	1	
1/5/2007	CDV	1	5	16.50000	5	N	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/6/2007	SLM	1	1	7.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/6/2007	SLM	1	3	7.78361	4	NW	3	7.78361	283	4.0		7.98389	230	5.1		1	S	S	0	5	
1/6/2007	SLM	1	3	7.82556	4	NW	3	7.82556	287	2.5		8.06583	230	4.0		2	S	S	0	4	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/6/2007	SLM	1	3	7.95222	4	NW	3	7.95222	273	3.2		8.08056	234	2.8		2		S	0	10	
1/6/2007	SLM	1	3	8.09556	4	NW	3	8.09556	274	1.2	E	8.22806	244	1.4		3		S	0	2	
1/6/2007	SLM	1	3	8.30861	4	NW	3	8.30861	254	1.5		8.39944	236	1.8		2		S	0	2	
1/6/2007	SLM	1	3	8.36194	4	NW	3	0.00000	0	0.0		8.36194	255	1.6		2		S	0	2	
1/6/2007	SLM	1	3	8.49667	4	NW	3	0.00000	0	0.0		8.49667	265	1.9		2		S	0	2	
1/6/2007	SLM	1	3	8.70528	4	NW	3	8.70528	259	1.8	0	8.82250	237	1.9		3		S	0	4	
1/6/2007	SLM	1	2	8.83472	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	SLM	1	2	9.34972	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	SLM	1	3	9.59500	4	NW	4	9.59500	255	2.4		9.84944	194	1.5		2		S	0	2	
1/6/2007	SLM	1	3	9.99000	4	NW	4	9.99000	273	1.2	0	10.17194	244	1.3	E	2		S	0	7	
1/6/2007	SLM	1	3	10.33833	4	NW	4	10.33833	282	1.2		0.00000	0	0.0		2		S	0	1	
1/6/2007	SLM	1	3	10.38306	4	NW	4	10.38306	283	1.2		0.00000	0	0.0		1		S	0	1	
1/6/2007	SLM	1	5	10.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	SDN	1	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	SDN	1	3	10.59417	4	NW	4	10.59417	254	2.2		10.66500	238	2.0		1		S	0	4	
1/6/2007	SDN	1	3	10.75306	4	NW	4	10.75306	246	1.5	E	10.76528	244	1.5		3		S	0	2	
1/6/2007	SDN	1	3	10.89583	4	NW	4	10.89583	265	1.2		11.06389	242	1.2		9		S	0	3	POD SIZE ESTIMATED
1/6/2007	SDN	1	3	11.51667	4	NW	4	11.51667	251	1.5		11.57778	239	1.4	E	1		S	0	2	
1/6/2007	SDN	1	3	11.70722	4	NW	4	11.70722	272	1.4		11.83083	243	1.5	E	1		S	0	6	
1/6/2007	SDN	1	3	12.00000	4	NW	4	12.00000	261	3.8	E	12.05611	242	3.5		1		S	0	3	
1/6/2007	SDN	1	3	12.54056	4	NW	4	12.54056	259	2.4	E	12.56333	236	2.5	E	1		S	0	6	
1/6/2007	SDN	1	3	12.68917	4	NW	4	0.00000	0	0.0		12.68917	238	3.0	E	1		S	0	1	
1/6/2007	SDN	1	3	13.30694	4	NW	4	0.00000	0	0.0		13.30694	234	2.8		1		S	0	1	
1/6/2007	SDN	1	3	13.38500	4	NW	4	0.00000	0	0.0		13.38500	236	3.0		1		S	0	1	
1/6/2007	SDN	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"PARTLY CLOUDY, CLEAN HORIZON"
1/6/2007	IML	1	2	13.59472	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	8	13.70972	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	TANKER GOING NORTH/255/0.0
1/6/2007	IML	1	8	13.71944	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	VESSEL GOING NORTH/256/0.0
1/6/2007	IML	1	2	13.95472	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	2	14.10250	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	3	14.39444	5	NW	5	14.39444	265	2.0	E	14.44972	240	2.1		1		S	0	3	"ONLY BLOWS, ANGLE ESTIM"
1/6/2007	IML	1	3	14.40583	5	NW	5	14.40583	252	2.0		14.41667	245	2.0		1		S	0	2	ONLY BLOWS
1/6/2007	IML	1	2	15.04861	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	GLARE FROM SOUTH ACROSS LINE AND HAZE
1/6/2007	IML	1	2	15.26917	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	2	15.30917	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/6/2007	IML	1	3	15.30944	4	NW	5	15.30944	291	0.9		15.77028	242	1.4		6		S	0	10	BLOWS ONLY

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/6/2007	IML	1	3	15.53167	4	NW	5	0.00000	0	0.0		15.53167	239	1.2		1		S	0	2	ONLY BLOWS
1/6/2007	IML	1	3	15.58889	4	NW	5	15.58889	273	1.0		15.71250	250	1.2		2		S	0	3	ONLY BLOWS
1/6/2007	IML	1	3	15.80333	4	NW	5	15.80333	253	1.4		15.86722	243	2.0		3		S	0	7	ONLY BLOWS
1/6/2007	IML	1	3	15.94722	4	NW	5	0.00000	0	0.0		15.94722	239	2.0		1		S	0	1	ONLY BLOWS
1/6/2007	IML	1	2	15.99694	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE AND GLARE ALL OVER
1/6/2007	IML	1	3	16.08306	5	NW	5	16.08306	252	2.1		16.14306	239	2.3		1		S	0	2	ONLY BLOWS
1/6/2007	IML	1	3	16.09722	5	NW	5	0.00000	0	0.0		16.09722	250	1.4		1		S	0	2	ONLY BLOWS
1/6/2007	IML	1	2	16.45750	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/6/2007	IML	1	3	16.49889	5	NW	4	0.00000	0	0.0		0.00000	241	1.0		4		S	0	3	ONLY BLOWS
1/6/2007	IML	1	5	16.50000	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	1	7.50000	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	3	8.00333	4	SE	3	8.00333	254	1.3		8.11028	240	1.3		2		S	0	6	
1/7/2007	SLM	1	2	8.51806	4	SE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	2	9.12056	5	SE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	2	9.47500	4	SE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	3	9.72083	4	SE	3	9.72083	288	1.3		9.97639	250	1.4		3		S	0	6	
1/7/2007	SLM	1	3	9.93417	4	SE	3	9.93417	260	2.1		10.05250	241	2.4		2		S	0	5	
1/7/2007	SLM	1	2	10.44722	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SLM	1	5	10.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	SDN	1	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOTS OF BIRDS.
1/7/2007	SDN	1	3	11.03889	4	NW	4	11.03889	276	2.6		11.18750	240	2.2		1		S	0	5	
1/7/2007	SDN	1	3	11.39972	4	NW	4	0.00000	0	0.0		11.39972	218	3.0		1		S	0	1	
1/7/2007	SDN	1	3	11.43056	4	NW	4	11.43056	272	1.0		11.66639	239	1.2		8		S	0	4	POD SIZE EST.
1/7/2007	SDN	1	3	11.47639	4	NW	4	0.00000	0	0.0		11.47639	249	2.0	E	1		S	0	1	
1/7/2007	SDN	1	5	11.84972	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	PUTTING ON SHED ROOF WITH DAVE
1/7/2007	SDN	1	1	11.96139	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/7/2007	SDN	1	3	12.00833	4	NW	4	12.00833	275	2.0	E	12.22944	237	2.3	E	1		S	0	2	
1/7/2007	SDN	1	3	12.90667	4	NW	4	12.90667	276	2.6		13.06806	239	2.0		6		S	0	7	
1/7/2007	SDN	1	3	13.39056	4	NW	4	13.39056	277	1.5		13.54194	242	1.6	E	1		S	0	3	
1/7/2007	SDN	1	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/7/2007	CDV	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BINOCS C 13509 315 DEG
1/7/2007	CDV	1	3	13.59389	4	NW	4	13.59389	255	2.0		13.62750	242	2.1		3		S	0	2	
1/7/2007	CDV	1	2	13.88333	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	CDV	1	3	14.33528	4	NW	5	14.33528	257	2.2		14.39194	241	2.6		1		S	0	2	
1/7/2007	CDV	1	2	14.63333	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/7/2007	CDV	1	3	14.69500	4	NW	6	14.69500	282	2.1		14.90000	232	2.3		2		S	0	3	
1/7/2007	CDV	1	3	14.71139	4	NW	6	14.71139	280	2.3		14.90972	242	3.3		1		S	0	3	
1/7/2007	CDV	1	3	15.13972	4	NW	6	15.13972	284	2.0		15.58306	243	2.6		1		S	0	6	
1/7/2007	CDV	1	3	15.45694	4	NW	6	15.45694	262	1.2		15.57639	243	1.4		2		S	0	4	
1/7/2007	CDV	1	3	15.63750	4	NW	6	15.63750	266	2.0		15.76500	245	2.0		1		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/7/2007	CDV	1	3	15.80694	4	NW	6	15.80694	275	3.1		15.92306	242	3.0	E	2		S	0	3	
1/7/2007	CDV	1	3	15.90417	4	NW	6	15.90417	274	1.5		16.08639	243	2.0		1		S	0	3	
1/7/2007	CDV	1	3	16.02944	4	NW	6	16.02944	256	1.6		16.12667	232	2.0		1		S	0	2	CLOSE ASSOC WITH 155415
1/7/2007	CDV	1	3	16.08667	4	NW	6	0.00000	0	0.0		16.08667	242	1.0		1		S	0	2	
1/7/2007	CDV	1	5	16.50000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SLM	2	1	7.50000	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SLM	2	3	7.52639	4	NE	3	7.52639	248	2.1		7.57056	241	2.2		4		S	0	5	
1/8/2007	SLM	2	3	7.62611	4	NE	3	7.62611	278	2.2		7.81278	241	3.0		1		S	0	6	
1/8/2007	SLM	2	3	8.12083	4	NE	3	8.12083	290	0.8		8.52833	248	1.8		2		S	0	5	
1/8/2007	SLM	2	3	8.74583	4	NE	3	8.74583	266	1.1		8.97750	233	1.3	E	2		S	0	3	
1/8/2007	SLM	2	3	8.79139	4	NE	3	0.00000	0	0.0		8.79139	242	1.3		2		S	0	2	
1/8/2007	SLM	2	3	8.98333	4	NE	3	8.98333	264	1.4		9.22500	236	2.1		2		S	0	3	
1/8/2007	SLM	2	2	9.50139	5	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SLM	2	2	10.08611	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SLM	2	3	10.12917	4	NE	3	10.12917	286	1.2		10.47500	250	1.6	E	2		S	0	10	
1/8/2007	SLM	2	3	10.18833	4	NE	3	10.18833	284	2.4		10.33861	252	3.1		1		S	0	6	
1/8/2007	SLM	2	5	10.50000	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SDN	1	1	10.50028	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SDN	1	3	10.65944	4	NE	3	10.65944	292	2.2		10.78583	240	2.2		1		S	0	4	
1/8/2007	SDN	1	3	10.90056	4	NE	3	10.90056	277	1.0		11.08611	246	1.5		1		S	0	11	"NUMEROUS SIGHTINGS > 246, THEN DISAPPEARED"
1/8/2007	SDN	1	3	12.90444	4	NE	3	0.00000	0	0.0		12.90444	238	1.0	E	1		S	0	1	
1/8/2007	SDN	1	3	13.06278	4	NE	3	13.06278	270	2.8		13.17750	236	2.8		1		S	0	6	
1/8/2007	SDN	1	2	13.20472	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	SDN	1	3	13.42111	3	NE	2	0.00000	0	0.0		13.42111	210	1.0		4		S	0	1	
1/8/2007	SDN	1	5	13.50000	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/8/2007	CDV	1	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	CDV	1	3	13.62222	3	NW	2	13.62222	272	4.7		13.76528	242	5.0		2	1	S	0	5	
1/8/2007	CDV	1	2	14.00000	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	CDV	1	3	14.00778	2	NW	1	14.00778	254	1.0		14.16167	242	1.2		8		S	0	5	
1/8/2007	CDV	1	2	15.16667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MIST IN WAVE TROUGHS: HIGH SEAS BUT CALM WATER
1/8/2007	CDV	1	5	15.28333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	CDV	1	1	15.32528	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/8/2007	CDV	1	3	15.41111	3	NW	2	15.41111	283	1.5		15.76222	242	1.8		7		S	0	5	"NOT FLUKING UP, MAKING COUNT DIFFICULT. BLOWS EASY TO SEE."
1/8/2007	CDV	1	3	15.91389	3	NW	2	15.91389	287	1.4		16.30361	242	2.7		2		S	0	5	
1/8/2007	CDV	1	3	15.95500	3	NW	2	15.95500	258	2.0		16.08556	244	1.8		1		S	0	5	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/8/2007	CDV	1	5	16.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STRONG GLARE ON WATER
1/9/2007	CDV	1	1	7.50000	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BINOCs:13509 315
1/9/2007	CDV	1	3	7.55139	3	N	2	0.00000	0	0.0		7.55139	212	1.2	1			S	0	1	
1/9/2007	CDV	1	3	7.90250	3	N	2	0.00000	0	0.0		7.90250	213	1.5	5			S	0	2	
1/9/2007	CDV	1	3	7.96583	3	N	2	0.00000	0	0.0		7.96583	235	3.2	1			S	0	1	
1/9/2007	CDV	1	3	8.35833	3	N	2	0.00000	0	0.0		8.35833	247	2.5	1			S	0	1	VERY DIFFICULT TO SEE
1/9/2007	CDV	1	5	8.83333	3	N	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/9/2007	CDV	1	1	8.88333	3	N	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/9/2007	CDV	1	4	9.26667	3	N	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"MODERATE MIST NORTH & SOUTH QUADRANT, INCREASING"
1/9/2007	CDV	1	3	10.37333	3	N	2	10.37333	254	1.0	E	10.50000	232	1.2	1			S	0	2	
1/9/2007	CDV	1	5	10.50000	3	N	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/9/2007	SDN	2	1	10.50028	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/9/2007	SDN	2	3	10.67833	3	NE	2	10.67833	264	1.0		11.31722	239	1.2	14			S	0	6	"FIVE QUES SUBSEQUENT TO SOUTH SIGHTING, MILLING AROUND 240"
1/9/2007	SDN	2	3	10.96056	3	NE	2	10.96056	259	1.2		11.17028	243	1.3	6			S	0	3	POSSIBLY PART OF GROUP OF 14
1/9/2007	SDN	2	5	11.19889	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BINOC. QUESTION FOR DAVE
1/9/2007	SDN	2	1	11.22833	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/9/2007	SDN	2	5	11.49806	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	RESTROOM BREAK
1/9/2007	SDN	2	1	11.52444	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/9/2007	SDN	2	3	11.61167	3	NE	2	11.61167	268	4.0		11.77111	234	4.0	1			S	0	2	
1/9/2007	SDN	2	5	12.18556	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	RESTROOM
1/9/2007	SDN	2	1	12.21083	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/9/2007	SDN	2	3	12.29694	3	NE	2	12.29694	276	5.2		12.44167	237	6.0	2			S	0	7	
1/9/2007	SDN	2	3	12.43611	3	NE	2	0.00000	0	0.0		12.43611	224	2.0	1			S	0	0	"MILLED ABOUT AT 224, 5 QUES"
1/9/2007	SDN	2	8	12.47472	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	SOUTHBOUND SPEED BOAT AT RETICLE .8
1/9/2007	SDN	2	9	12.56944	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"SPEED BOAT AT 220, R.8"
1/9/2007	SDN	2	3	13.12611	3	NE	2	13.12611	274	1.3		13.42917	240	1.8	2			S	0	15	
1/9/2007	SDN	2	3	13.49250	3	NE	2	13.49250	250	1.8		13.54667	235	1.8	4			S	0	2	
1/9/2007	SDN	2	5	13.50000	3	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	END WATCH
1/9/2007	SLM	2	1	13.50028	2	NE	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/9/2007	SLM	2	3	13.70500	2	NE	2	0.00000	0	0.0		13.70500	239	1.4	3			S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/9/2007	SLM	2	3	14.67361	2	NE	2	14.67361	290	2.1		15.03000	241	3.2		3		S	1	14	
1/9/2007	SLM	2	3	15.19472	2	NE	2	15.19472	285	1.6		15.52833	241	2.4		3		S	0	9	
1/9/2007	SLM	2	2	15.58750	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/9/2007	SLM	2	3	15.87972	2	SW	2	15.87972	290	3.1		16.06556	227	4.4		1		S	0	6	
1/9/2007	SLM	2	5	16.50000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SDN	2	1	7.48306	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SDN	2	3	7.71389	3	NW	4	0.00000	0	0.0		7.71389	232	1.3	E	5		S	0	1	
1/10/2007	SDN	2	3	8.00694	3	NW	4	8.00694	255	1.0		8.12917	238	1.0		2		S	0	1	
1/10/2007	SDN	2	3	8.16167	3	NW	4	8.16167	270	1.8		8.27667	245	2.0		2		S	1	5	
1/10/2007	SDN	2	2	8.40556	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SDN	2	3	8.44722	4	NW	5	0.00000	0	0.0		8.44722	238	2.0		2		S	0	1	
1/10/2007	SDN	2	3	8.53472	4	NW	5	0.00000	0	0.0		8.53472	242	1.5	E	1		S	0	1	
1/10/2007	SDN	2	5	8.80917	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
1/10/2007	SDN	2	1	8.88028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/10/2007	SDN	2	3	8.89139	4	NW	5	8.89139	270	5.0		8.96111	238	5.0		2		S	0	10	POSSIBLE C/C
1/10/2007	SDN	2	3	9.21250	4	NW	5	9.21250	245	2.0	E	9.24583	239	2.0		1		S	0	2	
1/10/2007	SDN	2	5	9.50056	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BATHROOM
1/10/2007	SDN	2	1	9.56139	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/10/2007	SDN	2	3	9.89389	4	NW	5	9.89389	257	1.8		9.96306	241	1.8		3		S	0	8	
1/10/2007	SDN	2	3	10.17000	4	NW	5	10.17000	248	2.0	E	10.19389	242	2.0	E	1		S	0	2	
1/10/2007	SDN	2	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/10/2007	SLM	2	1	10.50028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	2	11.12917	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	3	11.15972	5	NW	6	11.15972	248	5.7		11.26389	183	4.8		1		S	0	2	
1/10/2007	SLM	2	2	12.09722	6	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	2	12.33611	6	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	2	12.39444	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	3	12.41667	5	NW	5	12.41667	264	1.4		12.62611	230	1.9		1		S	0	5	
1/10/2007	SLM	2	2	12.67083	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	2	12.92250	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	SLM	2	3	13.11194	4	NW	4	13.11194	282	2.3		13.26333	240	3.8		1		S	0	8	
1/10/2007	SLM	2	3	13.28750	4	NW	4	13.28750	265	2.2		13.45000	235	2.3		2		S	0	5	
1/10/2007	SLM	2	5	13.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	CDV	1	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
1/10/2007	CDV	1	3	13.55611	4	NW	4	0.00000	0	0.0		13.55611	233	3.2	E	1		S	0	1	
1/10/2007	CDV	1	3	13.97639	4	NW	4	13.97639	275	1.1		14.13722	241	1.5		1		S	0	4	
1/10/2007	CDV	1	3	14.22333	4	NW	4	14.22333	283	1.1		13.57500	242	2.0		2		S	0	5	
1/10/2007	CDV	1	3	14.77333	4	NW	4	14.77333	266	2.2		14.88861	240	2.5		1		S	0	4	
1/10/2007	CDV	1	2	15.00000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	CDV	1	3	15.11667	4	NW	3	15.11667	302	2.5		15.45861	205	8.0		1		S	0	2	
1/10/2007	CDV	1	3	15.20833	4	NW	3	0.00000	0	0.0		15.20833	240	1.5		1		S	0	2	
1/10/2007	CDV	1	3	15.22778	4	NW	3	15.22778	246	0.9		15.24500	241	1.0		1		S	0	2	
1/10/2007	CDV	1	3	15.27417	4	NW	3	15.27417	263	3.0		15.38917	222	3.0		1		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/10/2007	CDV	1	3	15.31750	4	NW	3	0.00000	0	0.0		15.31750	240	1.4		1		S	0	1	
1/10/2007	CDV	1	3	15.58972	4	NW	3	15.58972	278	1.0		15.76500	242	1.8		1		S	1	5	
1/10/2007	CDV	1	3	15.60417	4	NW	3	15.60417	269	2.0		15.71750	243	2.0		2		S	0	5	
1/10/2007	CDV	1	3	15.80833	4	NW	3	15.80833	248	2.0		15.82806	242	2.3		3		S	0	3	
1/10/2007	CDV	1	3	15.86111	4	NW	3	15.86111	283	1.0		16.05889	245	2.0		1		S	0	3	
1/10/2007	CDV	1	3	15.89111	4	NW	3	15.89111	263	1.2		16.01000	242	1.5		1		S	0	4	
1/10/2007	CDV	1	3	16.09806	4	NW	3	16.09806	267	1.2		16.34056	242	1.2		1		S	0	2	
1/10/2007	CDV	1	3	16.23139	4	NW	3	16.23139	250	2.4		16.44694	243	2.6		3		S	0	2	
1/10/2007	CDV	1	3	16.34056	4	NW	3	0.00000	0	0.0		16.34056	244	1.2		2		S	0	1	
1/10/2007	CDV	1	3	16.40417	4	NW	3	16.40417	250	2.3		16.45000	245	2.5		1		S	0	1	
1/10/2007	CDV	1	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	CDV	1	1	7.50000	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	A 13509 315
1/11/2007	CDV	1	3	7.53472	4	NE	3	0.00000	0	0.0		7.53472	229	4.0		1		S	0	1	
1/11/2007	CDV	1	3	7.59583	4	NE	3	0.00000	0	0.0		7.59583	241	2.0		1		S	0	1	
1/11/2007	CDV	1	3	7.65167	4	NE	3	0.00000	0	0.0		7.65167	240	2.2		2		S	0	2	
1/11/2007	CDV	1	3	7.75028	4	NE	3	7.75028	251	1.8		7.80139	240	1.8		1		S	0	2	
1/11/2007	CDV	1	3	7.90444	4	NE	3	7.90444	275	2.1		8.03528	239	2.2		1		S	0	3	
1/11/2007	CDV	1	3	7.91111	4	NE	3	0.00000	0	0.0		7.91111	239	3.1		1		S	0	2	
1/11/2007	CDV	1	3	7.92333	4	NE	3	7.92333	253	1.9		7.96306	242	1.8		4		S	0	3	
1/11/2007	CDV	1	3	8.02500	4	NE	3	0.00000	0	0.0		8.02500	233	1.5		1		S	0	2	
1/11/2007	CDV	1	3	8.31667	4	NE	3	0.00000	0	0.0		8.31667	251	1.2	E	1		S	0	1	
1/11/2007	CDV	1	3	8.44639	4	NE	3	8.44639	265	2.2		8.52083	242	2.6		5		S	0	5	
1/11/2007	CDV	1	3	8.55194	4	NE	3	8.55194	250	2.5		8.63722	220	2.5	E	1		S	0	2	
1/11/2007	CDV	1	3	8.55750	4	NE	3	0.00000	0	0.0		8.55750	242	2.5		1		S	0	1	
1/11/2007	CDV	1	3	8.69306	4	NE	3	8.69306	296	2.0		9.06806	230	3.8		3		S	0	4	
1/11/2007	CDV	1	3	8.74611	4	NE	3	8.74611	283	1.0		8.99694	242	1.2		1		S	0	2	
1/11/2007	CDV	1	3	8.82889	4	NE	3	8.82889	282	1.0		9.02194	242	1.2		1		S	0	2	
1/11/2007	CDV	1	3	9.05583	4	NE	3	0.00000	0	0.0		9.05583	242	2.0		1		S	0	1	
1/11/2007	CDV	1	3	9.11639	4	NE	3	0.00000	0	0.0		9.11639	245	1.2		3		S	0	2	
1/11/2007	CDV	1	2	9.18333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	CDV	1	3	9.26222	4	NW	4	0.00000	0	0.0		19.26222	242	1.1		1		S	0	1	
1/11/2007	CDV	1	5	9.33333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	CDV	1	1	9.38333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	CDV	1	2	9.78333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	CDV	1	3	10.02722	4	NW	3	10.02722	266	2.0		10.13222	235	2.2		1		S	0	2	
1/11/2007	SDN	2	3	10.43389	4	NW	3	0.00000	0	0.0		10.43389	281	1.2		1		S	0	1	
1/11/2007	SDN	2	3	10.47111	4	NW	3	10.47111	254	2.0		10.54444	242	2.0	E	1		S	0	2	
1/11/2007	CDV	1	5	10.50000	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/11/2007	SDN	2	1	10.50028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	FEELING A BIT UNDER THE WEATHER TODAY. VIS WOULD BE AT 4
1/11/2007	SDN	2	3	11.14917	5	NW	5	0.00000	0	0.0		11.14917	245	2.5	E	1		S	0	1	
1/11/2007	SDN	2	3	11.32083	5	NW	5	11.32083	265	1.4		11.52611	230	1.8		9		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/11/2007	SDN	2	3	11.36556	5	NW	5	11.36556	260	2.0	E	11.44833	240	1.8		1		S	0	2	
1/11/2007	SDN	2	3	11.84889	5	NW	5	0.00000	0	0.0	E	11.84889	238	2.0	E	1		S	0	1	
1/11/2007	SDN	2	3	11.98167	5	NW	5	11.98167	245	3.0		11.99750	241	3.0		1		S	0	2	RESTROOM BREAK
1/11/2007	SDN	2	5	12.05361	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/11/2007	SDN	2	1	12.13417	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	SDN	2	3	12.35000	5	NW	5	0.00000	0	0.0		12.35000	249	1.2		1		S	0	1	
1/11/2007	SDN	2	3	12.42250	5	NW	5	12.42250	248	2.0		12.44972	240	1.8		2		S	0	5	POSSIBLE MERGE WITH PREVIOUS SIGHTING
1/11/2007	SDN	2	3	12.68139	5	NW	5	12.68139	245	2.1		12.70056	237	2.2		1		S	0	3	
1/11/2007	SDN	2	3	13.03694	5	NW	5	0.00000	0	0.0		13.03694	233	2.0		2		S	0	3	2 CUES < 233
1/11/2007	SDN	2	5	13.50000	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/11/2007	SLM	2	1	13.50028	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	SLM	2	2	13.75000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	SLM	2	3	13.95500	4	NW	4	0.00000	0	0.0		13.95500	241	3.6		2		S	0	2	
1/11/2007	SLM	2	3	14.38028	4	NW	4	0.00000	0	0.0		14.38028	240	2.1		1		S	0	3	
1/11/2007	SLM	2	3	14.50056	4	NW	4	0.00000	0	0.0		14.50056	239	1.2		2		S	0	2	
1/11/2007	SLM	2	2	14.66667	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	SLM	2	2	15.26250	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	SLM	2	3	15.42778	4	NW	4	15.42778	260	2.2		15.46917	240	2.3		1		S	0	3	
1/11/2007	SLM	2	3	15.54917	4	NW	4	15.54917	260	2.3		15.63611	241	2.4		1		S	0	3	
1/11/2007	SLM	2	3	15.75389	4	NW	4	15.75389	251	1.9		15.78889	242	2.0		3		S	0	5	
1/11/2007	SLM	2	3	15.86389	4	NW	4	15.86389	247	6.2		15.90750	241	6.0		1		S	0	4	
1/11/2007	SLM	2	5	16.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	1	7.41667	4	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	3	7.53611	4	NE	2	7.53611	273	1.6		7.5028	244	1.5		2		S	0	10	
1/12/2007	SLM	1	2	7.78333	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	3	7.84167	3	NE	2	7.84167	283	1.8		7.99833	241	3.2		1		S	0	11	
1/12/2007	SLM	1	3	7.94333	3	NE	2	7.94333	290	2.9		8.13500	241	2.4		6		S	0	13	
1/12/2007	SLM	1	3	8.02472	3	NE	2	8.02472	293	1.3		8.29583	240	2.1		2		S	0	7	
1/12/2007	SLM	1	2	8.25278	2	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	3	8.27222	2	NE	2	8.27222	292	1.2		8.52250	239	2.2		4		S	0	8	
1/12/2007	SLM	1	2	8.67222	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	3	8.77222	2	SW	2	8.77222	297	0.7		9.14611	237	2.1		2		S	0	10	
1/12/2007	SLM	1	3	8.89944	2	SW	2	8.89944	278	0.3		9.15889	240	0.7	E	3		S	0	7	
1/12/2007	SLM	1	2	9.26111	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	3	9.41278	3	SW	2	9.41278	271	2.0		9.63222	241	1.1		1		S	0	5	
1/12/2007	SLM	1	3	9.61139	3	SW	2	9.61139	292	1.1		9.94833	247	2.1		1		S	0	5	
1/12/2007	SLM	1	3	9.61778	3	SW	2	9.61778	270	2.2		9.74944	240	5.0		1		S	0	2	
1/12/2007	SLM	1	3	9.79194	3	SW	2	9.79194	300	1.2		10.24278	225	1.4		1		S	0	4	
1/12/2007	SLM	1	3	9.84472	3	SW	2	9.84472	283	1.1		10.06778	231	2.0		1		S	0	3	
1/12/2007	SLM	1	2	10.00417	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SLM	1	5	10.50000	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	SDN	2	1	10.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/12/2007	SDN	2	3	10.69722	2	NW	2	10.69722	270	1.5		10.85222	238	0.8		1		S	0	3	
1/12/2007	SDN	2	3	11.27611	2	NW	2	0.00000	0	0.0		11.27611	237	0.4		7		S	0	1	
1/12/2007	SDN	2	3	11.42444	2	NW	2	11.42444	245	4.1		11.43333	241	4.1		1		S	0	2	
1/12/2007	SDN	2	3	11.60639	2	NW	2	0.00000	0	0.0		11.60639	242	3.0		1		S	0	1	
1/12/2007	SDN	2	2	11.77556	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/12/2007	SDN	2	3	12.00500	3	NW	3	0.00000	0	0.0		12.00500	244	1.8		1		S	0	1	
1/12/2007	SDN	2	3	12.18278	3	NW	3	12.18278	246	1.0		12.20583	242	1.0		2		S	0	4	
1/12/2007	SDN	2	2	12.44194	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/12/2007	SDN	2	3	13.02306	4	NW	4	13.02306	257	2.0		13.08778	244	2.0		1		S	0	3	
1/12/2007	SDN	2	3	13.08111	4	NW	4	0.00000	0	0.0		13.08111	238	1.5		4		S	0	1	
1/12/2007	SDN	2	3	13.30611	4	NW	4	13.30611	264	2.0		13.40222	236	2.0		1		S	0	9	
1/12/2007	SDN	2	2	13.37194	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/12/2007	SDN	2	3	13.39194	3	NW	3	0.00000	0	0.0		13.39194	224	2.0		2		S	0	1	
1/12/2007	SDN	2	5	13.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/12/2007	CDV	1	1	13.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	13509
1/12/2007	CDV	1	3	13.67833	3	NW	3	0.00000	0	0.0		13.67833	230	1.8		1		S	0	1	
1/12/2007	CDV	1	2	13.83333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/12/2007	CDV	1	3	13.91333	3	NW	4	13.91333	258	2.0		13.99444	242	2.0		4		S	0	3	
1/12/2007	CDV	1	3	14.13333	3	NW	4	0.00000	0	0.0		14.13333	240	2.4		E 1		S	0	2	EST. ON TIME ONLY; ANGLE AND RETICLE ACCURATE
1/12/2007	CDV	1	3	14.31500	3	NW	4	14.31500	265	2.0		14.46500	227	2.0		1		S	0	3	
1/12/2007	CDV	1	3	15.40278	3	NW	4	15.40278	275	1.2		15.61444	235	1.5		3		S	0	5	COULD BE CONSIDERED 2 PODS; SINGLETON AND PAIR
1/12/2007	CDV	1	3	15.55917	3	NW	4	15.55917	247	0.5		15.60972	244	0.5		5		S	0	3	
1/12/2007	CDV	1	3	16.14833	3	NW	4	16.14833	265	1.6		16.32556	246	2.0		2		S	0	2	
1/12/2007	CDV	1	3	16.19667	3	NW	4	16.19667	256	1.1		16.30472	243	1.2		4		S	0	3	
1/12/2007	CDV	1	2	16.21667	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/12/2007	CDV	1	5	16.50000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/13/2007	IML	1	1	7.34139	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"CLEAR HORIZON, BLUE SKIES, B13509, A315"
1/13/2007	IML	1	3	7.37611	4	NW	2	0.00000	0	0.0		7.37611	226	1.1		3		S	0	2	BODY SEEN
1/13/2007	IML	1	3	7.51472	4	NW	2	0.00000	0	0.0		7.51472	240	2.7		1		S	0	2	BODY SEEN
1/13/2007	IML	1	8	7.55806	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	TANEKR GOING NORTH AT 239/0.0
1/13/2007	IML	1	3	7.63083	4	NW	2	0.00000	0	0.0		7.63083	240	5.0		3		S	0	3	"POSSIBLE COW/CALF PAIR, SAW WHAT LOOKED LIKE A SM BODY BUT COULDN'T CONFIRM"
1/13/2007	IML	1	3	7.73056	4	NW	2	0.00000	0	0.0		7.73056	220	4.0		2		S	0	2	BODY SEEN
1/13/2007	IML	1	3	7.79806	4	NW	2	7.79806	252	2.7		7.87472	237	2.9		3		S	0	3	BODY SEEN

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/13/2007	IML	1	2	7.80306	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	IML	1	3	7.84028	3	NW	3	7.84028	271	2.0		7.98056	238	2.6		2		S	0	5	BODY SEEN
1/13/2007	IML	1	3	8.10000	3	NW	3	8.10000	252	1.6		7.17083	240	1.6		2		S	0	4	"2 ER SEPARATED BY 1 BODY LENGTH, ONLY BLOWS SEEN"
1/13/2007	IML	1	3	8.26306	3	NW	3	0.00000	0	0.0		8.26306	239	2.1		1		S	0	3	BODY SEEN
1/13/2007	IML	1	2	8.35917	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	IML	1	3	8.39861	2	NW	3	8.39861	285	1.1		8.68556	236	1.5		2		S	0	7	BODY SEEN
1/13/2007	IML	1	3	8.43056	2	NW	3	8.43056	277	0.9		8.77778	236	1.0		7		S	0	8	BODY SEEN
1/13/2007	IML	1	3	8.49972	2	NW	3	8.49972	272	1.5		8.76111	220	1.5		2		S	0	6	BODY SEEN
1/13/2007	IML	1	3	8.84528	2	NW	3	8.84528	260	2.1		8.87889	255	2.1		1		S	0	2	BODY SEEN
1/13/2007	IML	1	3	8.85556	2	NW	3	8.85556	251	2.1		8.91917	240	2.2		1		S	0	2	BODY SEEN
1/13/2007	IML	1	3	8.91917	2	NW	3	0.00000	0	0.0		8.91917	235	0.5	E	1		S	0	2	"BLOWS ONLY, ANGLE AND RETICLE ESTIM"
1/13/2007	IML	1	3	8.98611	2	NW	3	8.98611	250	2.0		9.05139	236	1.9		1		S	0	3	BODY SEEN
1/13/2007	IML	1	3	9.07222	2	NW	3	9.07222	252	2.0		9.11944	240	2.0		1		S	0	3	BODY SEEN
1/13/2007	IML	1	3	9.10833	2	NW	3	9.10833	285	1.8		9.18222	271	1.8		1		S	0	2	BLOWS ONLY SEEN
1/13/2007	IML	1	3	9.18889	2	NW	3	9.18889	266	2.5		9.30639	232	2.5		4		S	0	6	BODY SEEN
1/13/2007	IML	1	3	9.61667	2	NW	3	9.61667	271	1.9		9.76028	242	2.5		1		S	0	3	BODY SEEN
1/13/2007	IML	1	3	9.76583	2	NW	3	9.76583	280	1.9		10.01222	228	2.4		3		S	0	5	BODY SEEN
1/13/2007	IML	1	6	10.10639	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	UNID DOLPHINS HEAD SLAPPING AT 2730.5
1/13/2007	IML	1	3	10.24861	2	NW	3	0.00000	0	0.0		10.24861	250	0.2		2		S	0	1	BLOWS ONLY SEEN
1/13/2007	IML	1	6	10.24861	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	UNID DOLPHINS GOING SOUTH AT 250/1.0
1/13/2007	IML	1	6	10.41806	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"- 25-50 GG GOING SOUTH AT 292/2.0, FAST TRAVEL"
1/13/2007	IML	1	5	10.50000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	CDV	2	1	10.50028	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
1/13/2007	CDV	2	3	10.61417	2	NW	3	10.61417	274	2.5		10.90806	240	2.0		1		S	0	2	
1/13/2007	CDV	2	3	10.62222	2	NW	3	10.62222	265	3.2		10.80639	233	3.6		1		S	0	3	
1/13/2007	CDV	2	3	10.64472	2	NW	3	0.00000	0	0.0		10.64472	209	8.6		1		S	0	3	
1/13/2007	CDV	2	3	10.67889	2	NW	3	0.00000	0	0.0		10.67889	241	16.5		1		S	0	1	
1/13/2007	CDV	2	2	10.86861	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	CDV	2	3	10.96083	2	NW	2	10.96083	270	2.9		11.11944	243	2.9		1		S	0	3	
1/13/2007	CDV	2	3	11.19972	2	NW	2	0.00000	0	0.0		11.19972	240	1.5		1		S	0	2	
1/13/2007	CDV	2	3	11.28389	2	NW	2	11.28389	284	1.0		11.58278	243	1.6		3		S	0	4	
1/13/2007	CDV	2	3	11.30111	2	NW	2	11.30111	286	1.0		11.60917	242	1.6		2		S	0	3	
1/13/2007	CDV	2	3	11.32250	2	NW	2	0.00000	0	0.0		11.32250	225	1.5		2		S	0	3	
1/13/2007	CDV	2	3	11.42750	2	NW	2	0.00000	0	0.0		11.42750	225	2.8		1		S	0	1	
1/13/2007	CDV	2	3	11.66083	2	NW	2	11.66083	253	2.2		11.70972	242	2.5		3		S	0	2	
1/13/2007	CDV	2	3	11.69306	2	NW	2	11.69306	265	1.8		11.80000	242	2.0		1		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/13/2007	CDV	2	3	11.86500	2	NW	2	0.00000	0	0.0		11.86500	220	2.0		2		S	0	1	
1/13/2007	CDV	2	3	11.89028	2	NW	2	11.89028	255	1.8		11.96389	240	2.0		4		S	0	4	
1/13/2007	CDV	2	3	12.02750	2	NW	2	12.02750	256	1.2		12.12056	240	1.6		3		S	0	2	
1/13/2007	CDV	2	3	12.21944	2	NW	2	12.21944	268	1.2		12.38194	242	1.5		2		S	0	3	
1/13/2007	CDV	2	3	12.28750	2	NW	2	12.28750	262	1.2		12.49167	229	1.5		2		S	0	2	
1/13/2007	CDV	2	3	12.39667	2	NW	2	12.39667	250	4.2		12.48194	240	4.2		1		S	0	2	
1/13/2007	CDV	2	3	12.70694	2	NW	2	12.70694	265	0.9		13.03472	230	1.1		1		S	0	2	
1/13/2007	CDV	2	3	12.79944	2	NW	2	12.79944	270	1.0		13.02250	232	1.5		3		S	0	2	
1/13/2007	CDV	2	3	13.35028	2	NW	2	13.35028	270	2.0		13.48333	238	2.0		1		S	0	3	
1/13/2007	CDV	2	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 FIRST DAY BACK FROM BREAK"
1/13/2007	SLR	2	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	SLR	2	2	13.57667	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	SLR	2	3	13.64444	2	NW	3	0.00000	0	0.0		13.64444	233	2.8	E	1		S	0	1	
1/13/2007	SLR	2	2	13.85611	2	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NUMEROUS WHITECAPS
1/13/2007	SLR	2	2	14.45556	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME SPRAY
1/13/2007	SLR	2	3	14.58333	3	NW	5	14.58333	261	1.8		14.70000	242	1.9	E	2		S	0	7	
1/13/2007	SLR	2	3	15.11667	3	NW	5	15.11667	276	1.8		15.27778	242	2.0	E	2		S	0	9	
1/13/2007	SLR	2	3	15.35000	3	NW	5	0.00000	0	0.0		15.35000	245	2.0	E	1		S	0	2	FLUKE UP DIVE
1/13/2007	SLR	2	3	15.46667	3	NW	5	15.46667	285	1.7		15.67222	240	2.0		1		S	0	12	
1/13/2007	SLR	2	3	15.85833	3	NW	5	15.85833	289	0.9		16.36667	244	1.7		6		S	0	11	BIG BLOWS
1/13/2007	SLR	2	2	15.85861	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	SLR	2	3	16.23333	3	NW	3	16.23333	266	1.2		16.40000	243	1.3		1		S	0	8	
1/13/2007	SLR	2	2	16.30000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	SLR	2	5	16.61472	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	SLR	1	1	7.26222	4	SE	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
1/14/2007	SLR	1	3	7.33333	4	SE	1	0.00000	0	0.0		7.33333	230	2.2	E	1		S	0	1	FLUKE UP
1/14/2007	SLR	1	3	7.40556	4	SE	1	0.00000	0	0.0		7.40556	235	1.8		1		S	0	1	
1/14/2007	SLR	1	3	7.55000	4	SE	1	7.55000	264	1.5		7.70000	241	1.8		2		S	0	7	
1/14/2007	SLR	1	3	7.80278	4	SE	1	7.80278	263	1.8		7.96667	241	1.9		2		S	0	4	
1/14/2007	SLR	1	3	8.08333	4	SE	1	8.08333	260	1.4	E	8.18333	247	1.5	E	1		S	0	3	
1/14/2007	SLR	1	3	8.23333	4	SE	1	0.00000	0	0.0		8.23333	251	1.5		2		S	0	5	
1/14/2007	SLR	1	3	8.25000	4	SE	1	8.25000	265	1.1	E	8.39889	242	1.7		2		S	0	8	
1/14/2007	SLR	1	3	8.31667	4	SE	1	8.31667	270	1.1	E	8.46944	241	1.4		1		S	0	2	
1/14/2007	SLR	1	3	8.57222	4	SE	1	0.00000	0	0.0		8.57222	240	1.9		1		S	0	5	
1/14/2007	SLR	1	3	8.60000	4	SE	1	8.60000	252	1.7		8.66667	241	1.7		1		S	0	2	
1/14/2007	SLR	1	3	8.65972	4	SE	1	0.00000	0	0.0		8.65972	235	1.0		2		S	0	2	
1/14/2007	SLR	1	3	8.68333	4	SE	1	8.68333	255	2.1		8.73333	245	2.3		1		S	0	2	
1/14/2007	SLR	1	3	8.83333	4	SE	1	0.00000	0	0.0		8.83333	242	1.0		1		S	0	4	2 SINGLETONS ON SAME RET (0852 NEXT ENTRY)

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/14/2007	SLR	1	3	8.86667	4	SE	1	0.00000	0	0.0		8.86667	241	1.0		1		S	0	4	
1/14/2007	SLR	1	3	8.95833	4	SE	1	8.95833	260	1.3		9.03333	230	1.3	E	1		S	0	4	
1/14/2007	SLR	1	3	8.96667	4	SE	1	8.96667	267	1.2	E	9.09028	242	1.2		2		S	0	3	FLUKE UP
1/14/2007	SLR	1	3	9.10000	4	SE	1	9.10000	265	1.0		9.31111	238	1.2		2		S	0	3	
1/14/2007	SLR	1	3	9.18333	4	SE	1	0.00000	0	0.0		9.18333	265	1.0	E	1		S	0	1	
1/14/2007	SLR	1	5	9.41194	4	SE	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
1/14/2007	SLR	1	1	9.47833	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	SLR	1	3	9.53333	2	NW	1	9.53333	252	1.0		9.61667	244	1.0	E	1		S	0	2	
1/14/2007	SLR	1	3	9.78333	2	NW	1	0.00000	0	0.0		9.78333	247	2.2		1		S	0	6	FLUKE UP
1/14/2007	SLR	1	3	9.81667	2	NW	1	9.81667	274	6.8		9.91667	237	7.1		1		S	0	2	LOTS OF BARNACLES ON WHALE
1/14/2007	SLR	1	3	9.88333	2	NW	1	0.00000	0	0.0		9.88333	256	1.3		1		S	0	1	I WAS BUSY WITH RET 7.1 WHALE (0955 ENTRY)
1/14/2007	SLR	1	3	10.00000	2	NW	1	10.00000	254	2.0		10.11667	239	2.1		2		S	0	2	
1/14/2007	SLR	1	3	10.05000	2	NW	1	0.00000	0	0.0		10.05000	245	1.1		2		S	0	2	
1/14/2007	SLR	1	3	10.14444	2	NW	1	0.00000	0	0.0		10.14444	241	2.0		2		S	0	2	
1/14/2007	SLR	1	3	10.25000	2	NW	1	10.25000	270	1.0	E	10.55000	242	1.3	E	3		S	0	4	
1/14/2007	SLR	1	3	10.29722	2	NW	1	0.00000	0	0.0		10.29722	237	2.0		3		S	0	1	
1/14/2007	SLR	1	3	10.44167	2	NW	1	0.00000	0	0.0		10.44167	242	0.8		2		S	0	6	
1/14/2007	SLR	1	5	10.50000	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	CDV	1	1	10.50028	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509
1/14/2007	CDV	1	3	10.57583	2	NW	1	10.57583	245	1.2		10.59694	242	1.2		2		S	0	2	
1/14/2007	CDV	1	3	10.65000	2	NW	1	10.65000	290	0.6		10.96472	232	1.5		2		S	0	3	
1/14/2007	CDV	1	3	10.68111	2	NW	1	10.68111	289	1.5		11.05528	242	1.8		4		S	0	5	
1/14/2007	CDV	1	3	10.70778	2	NW	1	10.70778	285	1.0		11.07278	242	1.4		3		S	0	5	
1/14/2007	CDV	1	3	10.90028	2	NW	1	10.90028	282	1.1		11.13000	239	1.1		2		S	0	3	
1/14/2007	CDV	1	3	10.92083	2	NW	1	10.92083	287	0.3		11.26722	242	1.3		1		S	0	3	
1/14/2007	CDV	1	3	10.96472	2	NW	1	0.00000	0	0.0		10.96472	235	1.5		1		S	0	1	
1/14/2007	CDV	1	3	11.22194	2	NW	1	0.00000	0	0.0		11.22194	239	1.5		3		S	0	2	
1/14/2007	CDV	1	3	11.30417	2	NW	1	11.30417	263	0.6		11.52889	242	0.9		4		S	0	3	
1/14/2007	CDV	1	3	11.36250	2	NW	1	11.36250	265	1.5		11.52056	242	1.9		1		S	0	3	
1/14/2007	CDV	1	2	11.42250	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	CDV	1	3	11.49861	2	NW	3	11.49861	246	0.7		11.52972	243	0.7		2		S	0	4	
1/14/2007	CDV	1	3	11.72583	2	NW	3	11.72583	260	1.5		11.92444	238	1.8		1		S	0	3	
1/14/2007	CDV	1	3	11.73500	2	NW	3	11.73500	279	0.5		12.13139	242	1.0		1		S	0	4	
1/14/2007	CDV	1	3	12.09250	2	NW	3	0.00000	0	0.0		12.09250	245	0.5		2		S	0	2	
1/14/2007	CDV	1	3	12.24750	2	NW	3	12.24750	248	0.6		12.30222	242	0.6		1		S	0	3	
1/14/2007	CDV	1	3	12.40361	2	NW	3	12.40361	255	1.7		12.49194	242	1.9		1		S	0	2	
1/14/2007	CDV	1	3	12.46222	2	NW	3	12.46222	249	0.5	E	12.56528	218	0.5		4		S	0	2	
1/14/2007	CDV	1	3	12.47861	2	NW	3	12.47861	258	1.2		12.64806	234	1.4		1		S	0	3	
1/14/2007	CDV	1	3	12.57556	2	NW	3	0.00000	0	0.0		12.57556	230	1.5		3		S	0	2	
1/14/2007	CDV	1	3	12.62028	2	NW	3	12.62028	267	1.2		12.78583	240	1.4		1		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/14/2007	CDV	1	3	12.72778	2	NW	3	12.72778	287	1.0		13.15944	236	1.8		2		S	0	3	BLOWS DISSIPATE VERY QUICKLY
1/14/2007	CDV	1	3	12.80278	2	NW	3	12.80278	248	1.2	E	12.85417	238	1.2		1		S	0	2	
1/14/2007	CDV	1	2	12.86667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	CDV	1	3	12.91167	3	NW	3	0.00000	0	0.0		12.91167	220	0.5		1		S	0	2	
1/14/2007	CDV	1	3	12.92083	3	NW	3	0.00000	0	0.0		12.92083	230	1.0		1		S	0	2	
1/14/2007	CDV	1	2	13.28333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	CDV	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/14/2007	IML	1	1	13.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315. CRIPS HORIZON, CLEAR SKIES"
1/14/2007	IML	1	3	13.53611	3	NW	4	0.00000	0	0.0		13.53611	290	1.4		1		S	0	1	
1/14/2007	IML	1	4	13.75556	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BLOWS GONE FAST, ALSO VERY FAINT BLOWS, POOR VIS ON LINE"
1/14/2007	IML	1	3	13.89083	3	NW	4	0.00000	0	0.0		15.89083	253	2.0	E	1		S	0	1	ANGLE ESTIMATE
1/14/2007	IML	1	3	14.03500	3	NW	4	0.00000	0	0.0		14.03500	225	2.5		1		S	0	1	
1/14/2007	IML	1	3	14.06667	3	NW	4	14.06667	273	2.0	E	14.26139	230	2.4	E	1		S	0	2	ANGLES ESTIMATED
1/14/2007	IML	1	3	14.10167	3	NW	4	14.10167	278	1.1		14.31944	242	1.5		3		S	0	7	
1/14/2007	IML	1	3	14.16833	3	NW	4	0.00000	0	0.0		14.16833	270	0.5		1		S	0	1	
1/14/2007	IML	1	3	14.23361	3	NW	4	0.00000	0	0.0		14.23361	280	1.0		1		S	0	1	
1/14/2007	IML	1	3	14.35750	3	NW	4	14.35750	250	2.0		14.36611	247	2.0		1		S	0	3	
1/14/2007	IML	1	3	14.36611	3	NW	4	0.00000	0	0.0		14.36611	250	2.0		1		S	0	1	
1/14/2007	IML	1	3	14.42139	3	NW	4	14.42139	245	1.4		14.45944	235	1.5		3		S	0	3	
1/14/2007	IML	1	3	14.45000	3	NW	4	14.45000	257	1.5		14.51611	233	1.8		2		S	0	5	
1/14/2007	IML	1	3	14.54444	3	NW	4	0.00000	0	0.0		14.54444	242	1.5		2		S	0	1	
1/14/2007	IML	1	3	14.56222	3	NW	4	14.56222	253	1.0		14.62472	242	1.2		2		S	0	5	
1/14/2007	IML	1	3	14.56222	3	NW	4	14.56222	255	1.0		14.64639	241	1.2		3		S	0	5	
1/14/2007	IML	1	3	14.63917	3	NW	4	14.63917	250	1.0		14.67333	240	1.1		4		S	0	3	
1/14/2007	IML	1	3	14.70917	3	NW	4	14.70917	250	1.0		14.76944	236	1.1		4		S	0	4	
1/14/2007	IML	1	3	14.78028	3	NW	4	0.00000	0	0.0		14.78028	242	1.2		3		S	0	2	
1/14/2007	IML	1	3	14.82806	3	NW	4	0.00000	0	0.0		14.82806	233	1.5		1		S	0	2	
1/14/2007	IML	1	3	14.86889	3	NW	4	0.00000	0	0.0		14.86889	235	1.5		1		S	0	1	
1/14/2007	IML	1	3	14.96222	3	NW	4	14.96222	270	0.7		15.21889	241	0.9		4		S	0	8	
1/14/2007	IML	1	3	15.06389	3	NW	4	0.00000	0	0.0		15.06389	240	1.2		2		S	0	2	
1/14/2007	IML	1	3	15.11667	3	NW	4	0.00000	0	0.0		15.11667	235	1.4		1		S	0	1	
1/14/2007	IML	1	3	15.16361	3	NW	4	15.16361	255	1.3		15.26417	238	1.4		1		S	0	4	
1/14/2007	IML	1	3	15.22500	3	NW	4	0.00000	0	0.0		15.22500	242	1.2		1		S	0	2	
1/14/2007	IML	1	3	15.29861	3	NW	4	0.00000	0	0.0		15.29861	240	3.0		1		S	0	1	
1/14/2007	IML	1	3	15.39583	3	NW	4	15.39583	260	1.0		15.60833	235	1.4		1		S	0	3	
1/14/2007	IML	1	3	15.41694	3	NW	4	0.00000	0	0.0		15.41694	275	0.8		1		S	0	1	
1/14/2007	IML	1	3	15.42361	3	NW	4	15.42361	270	2.0		15.55444	238	2.4		2		S	0	8	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/14/2007	IML	1	3	15.50111	3	NW	4	0.00000	0	0.0		15.50111	255	1.6	1			S	0	1		
1/14/2007	IML	1	3	15.54167	3	NW	4	15.54167	262	2.0		15.70500	242	2.4	3			S	0	3		
1/14/2007	IML	1	3	15.71361	3	NW	4	0.00000	0	0.0		15.71361	242	2.0	2			S	0	2		
1/14/2007	IML	1	3	15.72500	3	NW	4	0.00000	0	0.0		15.72500	240	1.8	1			S	0	1		
1/14/2007	IML	1	3	15.76194	3	NW	4	15.76194	252	1.4		15.82056	242	1.5	3			S	0	3		
1/14/2007	IML	1	3	15.78944	3	NW	4	0.00000	0	0.0		15.78944	245	0.8	2			S	0	2		
1/14/2007	IML	1	3	15.80028	3	NW	4	0.00000	0	0.0		15.80028	246	0.9	1			S	0	2		
1/14/2007	IML	1	3	15.84833	3	NW	4	0.00000	0	0.0		15.84833	235	2.0	1			S	0	1		
1/14/2007	IML	1	3	15.86361	3	NW	4	15.86361	247	1.8		15.94667	232	1.8	1			S	0	3		
1/14/2007	IML	1	3	15.88778	3	NW	4	0.00000	0	0.0		15.88778	238	0.8	8			S	0	2		
1/14/2007	IML	1	3	16.33167	3	NW	4	16.33167	282	0.8		16.64556	240	1.3	3			S	0	10		
1/14/2007	IML	1	5	16.66667	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0		
1/15/2007	SDN	1	1	7.46833	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0		
1/15/2007	SDN	1	3	7.64444	2	NW	2	0.00000	0	0.0		7.64444	242	1.2	1			S	0	1		
1/15/2007	SDN	1	3	7.74111	2	NW	2	7.74111	260	0.8		7.83722	233	1.0	5			S	0	3		
1/15/2007	SDN	1	3	7.96833	2	NW	2	7.96833	251	1.0		8.35083	241	1.0	10			S	0	5		
1/15/2007	SDN	1	3	8.13750	2	NW	2	0.00000	0	0.0		8.13750	230	0.9	1			S	0	1		
1/15/2007	SDN	1	3	8.44389	2	NW	2	8.44389	268	1.2		8.59917	240	1.5	4			S	0	4		
1/15/2007	SDN	1	3	9.26389	2	NW	2	9.26389	262	1.6		9.41028	239	1.5	1			S	0	3		
1/15/2007	SDN	1	3	9.27167	2	NW	2	9.27167	252	1.4		9.39833	242	1.7	3			S	0	2		
1/15/2007	SDN	1	3	9.27861	2	NW	2	9.27861	267	1.5		9.53806	236	1.8	1			S	0	4		
1/15/2007	SDN	1	3	9.43056	2	NW	2	9.43056	262	1.8		9.57056	240	1.8	2			S	0	3		
1/15/2007	SDN	1	3	9.72444	2	NW	2	9.72444	272	1.0		9.91861	245	1.5	7			S	0	4		
1/15/2007	SDN	1	3	9.97583	2	NW	2	9.97583	249	1.4		10.03472	240	1.4	1			S	0	2		
1/15/2007	SDN	1	3	10.02667	2	NW	2	10.02667	276	1.1		10.26500	236	1.5	3			S	0	2		
1/15/2007	SDN	1	3	10.38306	2	NW	2	0.00000	0	0.0		10.38306	237	0.7	1			S	0	1		
1/15/2007	SDN	1	3	10.39861	2	NW	2	0.00000	0	0.0		10.39861	210	6.2	1			S	0	1		
1/15/2007	SDN	1	3	10.44028	2	NW	2	0.00000	0	0.0		10.44028	262	1.4	3			S	0	1		
1/15/2007	SDN	1	5	10.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0		END WATCH
1/15/2007	IML	1	1	10.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0		"B13509, A315 BLUE SKY, SHARP HORIZON"
1/15/2007	IML	1	3	10.51250	2	NW	2	10.51250	270	1.4		10.71444	241	1.5	7			S	0	5		
1/15/2007	IML	1	3	10.76750	2	NW	2	10.76750	249	1.9		10.78972	247	1.9	1			S	0	2		
1/15/2007	IML	1	3	10.88944	2	NW	2	10.88944	270	1.5		11.04167	250	1.8	2			S	0	3		
1/15/2007	IML	1	3	10.89944	2	NW	2	0.00000	0	0.0		10.89944	238	1.5	15			S	0	2		ESTIMATED POD SIZE
1/15/2007	IML	1	3	11.00417	2	NW	2	11.00417	255	1.5		11.02861	252	1.5	2			S	0	2		
1/15/2007	IML	1	3	11.14556	2	NW	2	11.14556	247	1.2		11.21694	240	1.2	E 1			S	0	2		ANGLE AND RETICLE ESTIMATE FOR SOUTH TIME
1/15/2007	IML	1	3	11.25306	2	NW	2	11.25306	246	1.2		11.38361	230	1.2	10			S	0	3		
1/15/2007	IML	1	3	11.25306	2	NW	2	0.00000	0	0.0		11.25306	252	1.5	4			S	0	2		
1/15/2007	IML	1	3	11.53056	2	NW	2	11.53056	295	1.0		11.71667	238	1.0	5			S	0	3		
1/15/2007	IML	1	3	11.81667	2	NW	2	11.81667	282	6.0		11.94028	243	7.5	2			S	0	9		"ELUSIVE, NO BLOWS."

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/15/2007	IML	1	3	11.98083	2	NW	2	11.98083	260	1.2		12.13306	240	1.3	E	1		S	0	2	CALF= SMALL HEAD/BODY, SURFACING ASYNC WITH MOM AT TIMES"
1/15/2007	IML	1	3	11.99556	2	NW	2	11.99556	252	1.5		11.08500	240	1.5		3		S	0	2	ELUSIVE
1/15/2007	IML	1	3	12.05889	2	NW	2	12.05889	266	0.8		12.27639	240	1.0		3		S	0	3	
1/15/2007	IML	1	3	12.07611	2	NW	2	0.00000	0	0.0		12.07611	268	1.2		4		S	0	3	
1/15/2007	IML	1	3	12.10333	2	NW	2	12.10333	255	2.1		12.38611	224	1.9		2		S	0	2	
1/15/2007	IML	1	3	12.23611	2	NW	2	0.00000	0	0.0		12.23611	239	1.2		3		S	0	1	
1/15/2007	IML	1	3	12.31944	2	NW	2	0.00000	0	0.0		12.31944	240	1.2		3		S	0	2	POSSIBLE C/C PAIR BUT TOO FAR TO CONFIRM
1/15/2007	IML	1	3	12.42667	2	NW	2	12.42667	245	1.0		12.48889	237	1.0		2		S	0	2	
1/15/2007	IML	1	3	12.42667	2	NW	2	12.42667	247	1.4		12.54528	237	1.6		2		S	0	2	POSSIBLE C/C PAIR BUT TOO FAR TO CONFIRM
1/15/2007	IML	1	3	12.46056	2	NW	2	0.00000	0	0.0		12.46056	232	1.2		3		S	0	1	
1/15/2007	IML	1	3	12.56000	2	NW	2	0.00000	0	0.0		12.56000	240	1.1		4		S	0	2	
1/15/2007	IML	1	3	12.63000	2	NW	2	12.63000	253	1.1		12.74639	236	1.2		3		S	0	3	
1/15/2007	IML	1	3	12.67528	2	NW	2	12.67528	261	1.4		12.77750	236	1.6		1		S	0	3	
1/15/2007	IML	1	3	12.67667	2	NW	2	12.67667	280	2.9		12.82611	236	3.8		1		S	0	6	
1/15/2007	IML	1	3	12.72944	2	NW	2	0.00000	0	0.0		12.72944	253	1.3		1		S	0	3	
1/15/2007	IML	1	3	12.79444	2	NW	2	12.79444	247	1.2		12.88278	242	1.3		1		S	0	2	
1/15/2007	IML	1	3	12.85500	2	NW	2	12.85500	249	2.8		12.88417	240	2.9		1		S	0	4	
1/15/2007	IML	1	3	12.93639	2	NW	2	12.93639	245	1.2		12.98861	242	1.2		2		S	0	3	
1/15/2007	IML	1	3	12.98611	2	NW	2	0.00000	0	0.0		12.98611	232	1.2		8		S	0	1	
1/15/2007	IML	1	3	13.08083	2	NW	2	0.00000	0	0.0		13.08083	269	3.8		1		S	0	2	
1/15/2007	IML	1	3	13.09972	2	NW	2	0.00000	0	0.0		13.09972	235	1.4		5		S	0	1	
1/15/2007	IML	1	3	13.14278	2	NW	2	0.00000	0	0.0		13.14278	235	1.5		3		S	0	1	
1/15/2007	IML	1	3	13.20250	2	NW	2	0.00000	0	0.0		13.20250	240	4.0		2		S	0	2	
1/15/2007	IML	1	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/15/2007	SLR	1	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"B13509, A315"
1/15/2007	SLR	1	3	13.63333	2	NW	2	0.00000	0	0.0		13.63333	246	2.6		1		S	0	3	
1/15/2007	SLR	1	3	13.70833	2	NW	2	0.00000	0	0.0		13.70833	242	2.5		1		S	0	7	
1/15/2007	SLR	1	3	13.83333	2	NW	2	0.00000	0	0.0		13.83333	249	2.2		1		S	0	5	
1/15/2007	SLR	1	3	13.88333	2	NW	2	0.00000	0	0.0		13.88333	244	1.2		3		S	0	5	
1/15/2007	SLR	1	3	14.09722	2	NW	2	14.09722	271	1.1		14.45000	241	1.5		1		S	0	5	
1/15/2007	SLR	1	3	14.35694	2	NW	2	0.00000	0	0.0		14.35694	241	3.0		2		S	0	1	
1/15/2007	SLR	1	3	14.41111	2	NW	2	0.00000	0	0.0		14.41111	243	0.4		1		S	0	1	"FLUKE UP, POSSIBLY 2 WHALES"
1/15/2007	SLR	1	3	14.61611	2	NW	2	0.00000	0	0.0		14.61611	239	2.0		1		S	0	6	
1/15/2007	SLR	1	3	14.65556	2	NW	2	0.00000	0	0.0		14.65556	241	0.9		1		S	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/15/2007	SLR	1	3	14.66667	2	NW	2	0.00000	0	0.0		14.66667	241	1.0		1		S	0	1	
1/15/2007	SLR	1	3	14.67778	2	NW	2	0.00000	0	0.0		14.67778	238	6.2	E	2	1	S	0	2	"SAW GRAY ADULT AND SMALL DARK BODY WITH DORSAL RIDGE. 245ANGLE 1ST CUE"
1/15/2007	SLR	1	3	14.81389	2	NW	2	0.00000	0	0.0		14.81389	239	1.3		3		S	0	1	
1/15/2007	SLR	1	3	14.83333	2	NW	2	0.00000	0	0.0		14.83333	246	4.0		1		S	0	3	ADULT WITH DARK PIGMENTATION
1/15/2007	SLR	1	3	14.90000	2	NW	2	0.00000	0	0.0		14.90000	241	1.5		2		S	0	3	
1/15/2007	SLR	1	3	15.05000	2	NW	2	15.05000	260	1.5		15.18333	241	1.6		2		S	0	5	
1/15/2007	SLR	1	3	15.23611	2	NW	2	0.00000	0	0.0		15.23611	249	1.4		2		S	0	3	
1/15/2007	SLR	1	3	15.35000	2	NW	2	15.35000	259	2.7	E	15.48333	230	2.9	E	1		S	0	3	
1/15/2007	SLR	1	3	15.42639	2	NW	2	0.00000	0	0.0		15.42639	241	1.4		1		S	0	1	
1/15/2007	SLR	1	3	15.59722	2	NW	2	0.00000	0	0.0		15.59722	243	2.1	E	1		S	0	6	
1/15/2007	SLR	1	3	15.60000	2	NW	2	0.00000	0	0.0		15.60000	237	2.0		1		S	0	6	
1/15/2007	SLR	1	3	16.18333	2	NW	2	0.00000	0	0.0		16.18333	241	1.5		7		S	0	6	"I THINK 2 PODS JOINED AT THE LINE, I HAD BEEN TRACKING SEPARATELY PRIOR"
1/15/2007	SLR	1	3	16.33056	2	NW	2	0.00000	0	0.0		16.33056	240	1.4		2		S	0	2	
1/15/2007	SLR	1	3	16.35000	2	NW	2	16.35000	261	1.3		16.50000	241	1.5		4		S	0	3	
1/15/2007	SLR	1	3	16.46667	2	NW	2	16.46667	254	1.1		16.58333	245	1.1		1		S	0	2	
1/15/2007	SLR	1	3	16.47444	2	NW	2	16.47444	259	1.0		16.56667	244	1.0		1		S	0	2	
1/15/2007	SLR	1	5	16.59806	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/16/2007	SLR	1	1	7.35389	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"B1:3509, A315 HIGH GLARE"
1/16/2007	SLR	1	3	7.80000	4	SE	2	0.00000	0	0.0		7.80000	243	1.3		2		S	0	3	
1/16/2007	SLR	1	3	7.96667	4	SE	2	0.00000	0	0.0		7.96667	249	2.8		1		S	0	1	
1/16/2007	SLR	1	3	8.02778	4	SE	2	0.00000	0	0.0		8.02778	234	1.8		5		S	0	3	
1/16/2007	SLR	1	3	8.05556	4	SE	2	0.00000	0	0.0		8.05556	234	1.8		2		S	1	2	"1 WHALE BREACHED 3X AT 225A, TIME0805"
1/16/2007	SLR	1	3	8.13333	4	SE	2	8.13333	262	1.7		8.19444	243	1.8		1		S	0	2	
1/16/2007	SLR	1	3	8.28333	4	SE	2	8.28333	251	1.8		8.36111	240	1.9		1		S	0	2	PRETTY RAINBOW BLOW AT 251!
1/16/2007	SLR	1	3	8.40000	4	SE	2	8.40000	262	1.2		8.58889	245	1.3		1		S	0	2	FLUKE UP DIVE
1/16/2007	SLR	1	2	8.43333	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	ALITTLE LESS GLARE
1/16/2007	SLR	1	3	8.58333	3	SE	2	0.00000	0	0.0		8.58333	241	2.9		1		S	0	2	
1/16/2007	SLR	1	3	8.65000	3	SE	2	8.65000	257	0.8		8.83333	241	0.9		3		S	0	3	
1/16/2007	SLR	1	3	8.70556	3	SE	2	0.00000	0	0.0		8.70556	242	1.5		2		S	0	1	
1/16/2007	SLR	1	3	8.75000	3	SE	2	0.00000	0	0.0		8.75000	244	1.3		1		S	0	1	
1/16/2007	SLR	1	5	8.88278	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	RESTROOM BREAK
1/16/2007	SLR	1	1	8.93167	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	STILL HAVE SOME GLARE BUT DARK

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/16/2007	SLR	1	3	9.30000	3	SE	2	0.00000	0	0.0		9.30000	249	2.0		2		S	0	2	HORIZON FROM RET 0.8 - 00
1/16/2007	SLR	1	3	9.48611	3	SE	2	0.00000	0	0.0		9.48611	242	1.3		1		S	0	2	FLUKE UP DIVE
1/16/2007	SLR	1	2	10.03472	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	FLUKE UP DIVE
1/16/2007	SLR	1	3	10.11667	3	NW	2	10.11667	259	1.7		10.21667	242	1.8		2		S	1	4	1 WHALE BREACHED AT 259A
1/16/2007	SLR	1	3	10.13333	3	NW	2	10.13333	251	1.0		10.28333	236	1.1		1		S	0	3	
1/16/2007	SLR	1	3	10.29167	3	NW	2	0.00000	0	0.0		10.29167	241	2.0	E	1		S	0	1	
1/16/2007	SLR	1	2	10.39972	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	SCATTERED WHITECAPS
1/16/2007	SLR	1	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/16/2007	SDN	1	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/16/2007	SDN	1	3	10.69250	3	NW	3	10.69250	272	1.0		10.95556	241	1.2		4		S	0	6	
1/16/2007	SDN	1	3	10.72722	3	NW	3	10.72722	260	1.0		10.89833	237	1.1		1		S	0	5	
1/16/2007	SDN	1	3	10.98833	3	NW	3	10.98833	266	1.1		11.15167	241	1.3		3		S	0	6	
1/16/2007	SDN	1	3	11.02389	3	NW	3	11.02389	267	1.0		11.21972	238	1.2		5		S	0	9	
1/16/2007	SDN	1	3	11.13306	3	NW	3	0.00000	0	0.0		11.13306	230	1.2		3		S	0	1	
1/16/2007	SDN	1	3	11.24167	3	NW	3	11.24167	259	0.8		11.36806	237	1.2		2		S	0	4	
1/16/2007	SDN	1	3	11.27833	3	NW	3	11.27833	259	1.0		11.60444	241	1.0		7		S	0	7	GROUP SCATTERED
1/16/2007	SDN	1	3	11.44944	3	NW	3	11.44944	255	1.0		11.64278	241	1.1		8		S	0	6	
1/16/2007	SDN	1	2	11.54444	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/16/2007	SDN	1	3	11.67972	4	NW	5	11.67972	249	0.9		11.77444	241	1.0		7		S	0	4	
1/16/2007	SDN	1	5	11.79361	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	RESTROOM
1/16/2007	SDN	1	1	11.83500	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	BACK ON WATCH
1/16/2007	SDN	1	3	11.86694	4	NW	5	11.86694	253	1.3		11.97667	241	1.8		4		S	0	4	
1/16/2007	SDN	1	3	11.88528	4	NW	5	0.00000	0	0.0		11.88528	242	1.2		2		S	0	1	
1/16/2007	SDN	1	3	11.99778	4	NW	5	11.99778	250	1.9		12.12944	240	1.9		5		S	0	3	
1/16/2007	SDN	1	3	12.19722	4	NW	5	0.00000	0	0.0		12.19722	240	1.5	E	1		S	0	1	
1/16/2007	SDN	1	3	12.27139	4	NW	5	12.27139	243	1.7		12.29028	240	1.7		2		S	0	2	
1/16/2007	SDN	1	3	12.61444	4	NW	5	0.00000	0	0.0		12.61444	241	0.7		1		S	0	1	
1/16/2007	SDN	1	3	12.76083	4	NW	5	12.76083	260	1.5	E	12.86583	242	1.5		1		S	0	2	
1/16/2007	SDN	1	3	12.88833	4	NW	5	12.88833	246	1.6		12.94250	242	1.6		6		S	0	3	
1/16/2007	SDN	1	3	13.00500	4	NW	5	13.00500	245	3.0		13.08000	239	3.0		1		S	1	2	
1/16/2007	SDN	1	3	13.19944	4	NW	5	13.19944	257	2.2		13.34944	241	2.2		1		S	0	1	
1/16/2007	SDN	1	2	13.99083	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/16/2007	SDN	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"B13509; A315"
1/16/2007	IML	1	1	13.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/16/2007	IML	1	3	13.55278	3	NW	4	13.55278	247	1.5		13.61944	235	1.4		3		S	0	4	
1/16/2007	IML	1	3	13.60000	3	NW	4	13.60000	253	1.2		13.67972	242	1.2		3		S	0	3	
1/16/2007	IML	1	3	13.72556	3	NW	4	0.00000	0	0.0		13.72556	240	2.0	E	1		S	0	1	ANGLE AND RETICLE ESTIMATED
1/16/2007	IML	1	3	13.77222	3	NW	4	13.77222	270	1.2		13.96972	242	1.4		3		S	0	10	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/16/2007	IML	1	3	13.84278	3	NW	4	0.00000	0	0.0		13.84278	265	1.5	1			S	0	1	
1/16/2007	IML	1	3	13.91667	3	NW	4	0.00000	0	0.0		13.91667	225	1.2	4			S	0	1	
1/16/2007	IML	1	3	14.02889	3	NW	4	0.00000	0	0.0		14.02889	241	1.2	2			S	0	2	
1/16/2007	IML	1	2	14.06556	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"GLARE ACROSS LINE, BLOWS QUICKLY GONE"
1/16/2007	IML	1	3	14.26861	4	NW	5	0.00000	0	0.0		14.26861	285	0.9	1			S	0	1	
1/16/2007	IML	1	3	14.39306	4	NW	5	0.00000	0	0.0		14.39306	275	1.0	2			S	0	1	
1/16/2007	IML	1	3	14.43556	4	NW	5	14.43556	272	0.8		14.68250	240	1.0	E 2			S	0	4	ANGLE ESTIMATED
1/16/2007	IML	1	3	14.55944	4	NW	5	14.55944	247	6.8		14.56861	243	6.9	1			S	0	2	
1/16/2007	IML	1	3	14.58083	4	NW	5	14.58083	254	1.5		14.65444	240	1.6	3			S	0	3	
1/16/2007	IML	1	3	14.79972	4	NW	5	14.79972	260	1.5		14.90583	243	1.7	2			S	0	5	
1/16/2007	IML	1	3	14.93361	4	NW	5	0.00000	0	0.0		14.93361	242	1.7	1			S	0	1	
1/16/2007	IML	1	3	15.06778	4	NW	5	15.06778	270	1.3		15.29556	238	1.5	5			S	0	6	
1/16/2007	IML	1	2	15.06944	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/16/2007	IML	1	3	15.15417	3	NW	4	15.15417	273	1.5		15.34944	238	1.8	4			S	0	7	
1/16/2007	IML	1	3	15.43167	3	NW	4	0.00000	0	0.0		15.43167	243	2.7	1			S	0	3	
1/16/2007	IML	1	3	15.50806	3	NW	4	15.50806	277	0.7		15.75944	240	1.1	1			S	0	6	
1/16/2007	IML	1	2	15.71306	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/16/2007	IML	1	3	15.75472	3	NW	3	15.75472	262	0.6		15.89889	250	0.7	2			S	0	3	
1/16/2007	IML	1	3	15.86333	3	NW	3	15.86333	263	0.3		16.14139	247	0.4	2			S	0	4	
1/16/2007	IML	1	3	15.91028	3	NW	3	15.91028	258	0.6		16.03889	245	1.0	3			S	0	3	
1/16/2007	IML	1	3	16.04861	3	NW	3	1.00000	0	0.0		16.04861	272	1.5	1			S	0	1	3
1/16/2007	IML	1	3	16.09833	3	NW	3	16.09833	262	2.0		16.18528	239	2.3	1			S	0	5	
1/16/2007	IML	1	3	16.15833	3	NW	3	16.15833	246	0.2		16.27417	240	0.4	3			S	0	3	
1/16/2007	IML	1	3	16.19722	3	NW	3	16.19722	256	1.4		16.28472	240	1.8	1			S	0	4	
1/16/2007	IML	1	3	16.24722	3	NW	3	0.00000	0	0.0		16.24722	243	1.0	2			S	0	1	
1/16/2007	IML	1	3	16.26444	3	NW	3	0.00000	0	0.0		16.26444	242	1.2	2			S	0	3	
1/16/2007	IML	1	3	16.33556	3	NW	3	16.33556	267	1.8		16.49222	240	2.1	2			S	0	4	
1/16/2007	IML	1	3	16.35611	3	NW	3	16.35611	272	1.8		16.51472	243	2.5	1			S	0	3	
1/16/2007	IML	1	3	16.36806	3	NW	3	16.36806	287	1.8		16.56778	240	2.5	1			S	0	3	
1/16/2007	IML	1	3	16.44333	3	NW	3	0.00000	0	0.0		16.44333	232	1.2	1			S	0	1	
1/16/2007	IML	1	5	16.56944	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/17/2007	IML	1	1	7.39861	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"OVERCAST, POOR CONTRAST, BIG SWELL"
1/17/2007	IML	1	3	7.35028	4	NW	3	0.00000	0	0.0		7.35028	226	1.4	2			S	0	2	
1/17/2007	IML	1	3	7.37222	4	NW	3	2.00000	0	0.0		7.37222	213	1.5	4			S	0	1	
1/17/2007	IML	1	3	7.46111	4	NW	3	0.00000	0	0.0		7.46111	230	3.2	1			S	0	1	
1/17/2007	IML	1	3	7.60889	4	NW	3	0.00000	0	0.0		7.60889	230	1.2	1			S	0	2	
1/17/2007	IML	1	3	7.63083	4	NW	3	7.63083	257	1.5	E	7.72667	238	1.7	2			S	0	4	RETICLE ESTIMATED
1/17/2007	IML	1	8	7.69556	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BOAT GOING SOUTH/241/0.1

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/17/2007	IML	1	3	7.84861	4	NW	3	0.00000	0	0.0		7.84861	285	1.5	E	1		S	0	1	RETICLE ESTIMATED	
1/17/2007	IML	1	4	7.87111	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	BLOWS BARELY VISIBLE
1/17/2007	IML	1	3	8.02222	4	NW	3	0.00000	0	0.0		8.02222	235	1.0		1		S	0	1		
1/17/2007	IML	1	3	8.05250	4	NW	3	0.00000	0	0.0		8.05250	240	1.6		1		S	0	2		
1/17/2007	IML	1	3	8.11722	4	NW	3	8.11722	265	0.9		8.26639	245	1.1		6		S	0	6		
1/17/2007	IML	1	3	8.16667	4	NW	3	8.16667	280	1.8		8.33333	240	2.4		4		S	0	5		
1/17/2007	IML	1	4	8.16944	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CLEAR SKY, BLOWS MORE VISIBLE"	
1/17/2007	IML	1	3	8.39889	4	NW	3	8.39889	265	2.3		8.47500	240	2.5		1		S	0	5		
1/17/2007	IML	1	2	8.48972	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GOOD CONTRAST	
1/17/2007	IML	1	3	8.61861	3	NW	3	8.61861	285	2.3		8.71667	242	3.1		1		S	0	4	HEADING SW	
1/17/2007	IML	1	3	8.76139	3	NW	3	8.76139	265	2.9		8.82500	238	3.0		1		S	0	3		
1/17/2007	IML	1	3	8.78472	3	NW	3	8.78472	285	1.5		9.01750	244	2.2		2		S	0	2		
1/17/2007	IML	1	3	8.87778	3	NW	3	8.87778	265	4.2		8.90694	250	4.8		1		S	0	3		
1/17/2007	IML	1	3	9.04667	3	NW	3	9.04667	262	1.3		9.14472	245	1.5		3		S	0	3		
1/17/2007	IML	1	3	9.07028	3	NW	3	0.00000	0	0.0		9.07028	240	5.0		1		S	0	1		
1/17/2007	IML	1	3	9.09000	3	NW	3	0.00000	0	0.0		9.09000	265	2.8		1		S	0	1		
1/17/2007	IML	1	3	9.17111	3	NW	3	9.17111	250	1.2		9.20972	238	1.5		1		S	0	2	HEADING SW	
1/17/2007	IML	1	3	9.32500	3	NW	3	0.00000	0	0.0		9.32500	240	1.2		2		S	0	2		
1/17/2007	IML	1	3	9.39556	3	NW	3	9.39556	276	1.9		9.55917	243	2.2		1		S	0	4		
1/17/2007	IML	1	3	9.42889	3	NW	3	9.42889	270	1.5		9.60278	245	2.1		2		S	0	2		
1/17/2007	IML	1	3	9.45556	3	NW	3	0.00000	0	0.0		9.45556	270	1.5		2		S	0	1		
1/17/2007	IML	1	2	9.48583	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/17/2007	IML	1	3	9.57333	4	NW	4	0.00000	0	0.0		9.57333	275	1.8		1		S	0	1		
1/17/2007	IML	1	3	9.59278	4	NW	4	9.59278	252	3.2	E	9.61694	241	3.9		1		S	0	2	RETICLE ESTIMATED	
1/17/2007	IML	1	3	9.71389	4	NW	4	0.00000	0	0.0		9.71389	256	4.8		1		S	0	1		
1/17/2007	IML	1	2	9.78889	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HAZE, SWELL, BIRDS"	
1/17/2007	IML	1	3	9.85167	4	NW	5	0.00000	0	0.0		9.85167	270	2.0		2		S	0	1		
1/17/2007	IML	1	3	9.86139	4	NW	5	0.00000	0	0.0		9.86139	273	1.5		2		S	0	1		
1/17/2007	IML	1	3	9.89472	4	NW	5	9.89472	246	3.6		9.90278	243	3.7		1		S	0	2		
1/17/2007	IML	1	3	9.98250	4	NW	5	9.98250	273	6.0	E	10.06111	238	4.0		1		S	0	3		
1/17/2007	IML	1	3	10.01722	4	NW	5	0.00000	0	0.0		10.01722	262	2.0		2		S	0	1		
1/17/2007	IML	1	3	10.13611	4	NW	5	10.13611	270	2.0		10.30333	241	2.5		6		S	0	4		
1/17/2007	IML	1	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/17/2007	SLR	1	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"	
1/17/2007	SLR	1	3	10.55000	4	NW	5	10.55000	255	3.2	E	10.60000	237	3.2		1		S	0	4		
1/17/2007	SLR	1	3	10.71667	4	NW	5	0.00000	0	0.0		10.71667	240	0.7		2		S	0	2		
1/17/2007	SLR	1	3	10.85000	4	NW	5	0.00000	0	0.0		10.85000	243	1.5		2		S	0	2		
1/17/2007	SLR	1	3	11.00000	4	NW	5	0.00000	0	0.0		11.00000	240	6.0		2	1	S	0	4	ADULT GRAY WITH SMALLER DARK WHALE TRAVELING AT SURFACE BLOWING	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/17/2007	SLR	1	3	11.48333	4	NW	5	0.00000	0	0.0		11.48333	241	2.0		6		S	0	4	OFTEN	
1/17/2007	SLR	1	3	11.54167	4	NW	5	0.00000	0	0.0		11.54167	241	2.0		1		S	0	2		
1/17/2007	SLR	1	3	11.56667	4	NW	5	11.56667	258	2.2		11.73611	241	2.5		3		S	0	4	2 OF THE WHALES FLUKED UP SIMULTANEOUSLY AT A258	
1/17/2007	SLR	1	3	11.80000	4	NW	5	0.00000	0	0.0		11.80000	236	1.7		1		S	0	1		
1/17/2007	SLR	1	2	11.88333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	WAVES AND WHITECAPS DECREASED
1/17/2007	SLR	1	5	11.96667	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	RESTROOM BREAK
1/17/2007	SLR	1	1	12.01139	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	
1/17/2007	SLR	1	3	12.10167	3	NW	4	12.10167	252	1.5		12.21389	232	1.5		1		S	0	2		
1/17/2007	SLR	1	3	12.30000	3	NW	4	0.00000	0	0.0		12.30000	239	2.0		1		S	0	2		
1/17/2007	SLR	1	3	12.36667	3	NW	4	0.00000	0	0.0		12.36667	241	2.0		1		S	0	2		
1/17/2007	SLR	1	3	12.40667	3	NW	4	0.00000	0	0.0		12.40667	241	1.5		2		S	0	4		
1/17/2007	SLR	1	3	12.48333	3	NW	4	12.48333	258	1.1		12.57917	242	1.2		1		S	0	4		
1/17/2007	SLR	1	3	12.51667	3	NW	4	0.00000	0	0.0		12.51667	244	0.8		2		S	0	1		
1/17/2007	SLR	1	3	12.54444	3	NW	4	0.00000	0	0.0		12.54444	243	2.0		1		S	0	2		
1/17/2007	SLR	1	3	12.68333	3	NW	4	0.00000	0	0.0		12.68333	239	1.3		3		S	0	3		
1/17/2007	SLR	1	3	12.76667	3	NW	4	0.00000	0	0.0		12.76667	239	1.5		1		S	0	2		
1/17/2007	SLR	1	3	12.80000	3	NW	4	12.80000	253	1.2		12.87778	241	1.3		1		S	0	2		
1/17/2007	SLR	1	3	12.88333	3	NW	4	0.00000	0	0.0		12.88333	235	0.8		1		S	0	3		
1/17/2007	SLR	1	3	13.06667	3	NW	4	13.06667	253	2.0		13.13333	240	2.0		2		S	2	4	"1 WHALE SPLASHING ALOT WHEN SURFACES SPYHOP SIDEWAYS BEHAVIOR, JUVE?"	
1/17/2007	SLR	1	3	13.33333	3	NW	4	0.00000	0	0.0		13.33333	238	2.1		1		S	0	3		
1/17/2007	SLR	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	
1/17/2007	SDN	1	1	13.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	0	
1/17/2007	SDN	1	3	13.62778	3	NW	4	13.62778	260	1.8		13.84500	236	1.8		3		S	0	5		
1/17/2007	SDN	1	3	13.79694	3	NW	4	13.79694	247	1.4		13.83500	242	1.2		5		S	0	4		
1/17/2007	SDN	1	3	14.03944	3	NW	4	14.03944	247	1.5		14.06389	241	1.6		1		S	0	4		
1/17/2007	SDN	1	3	14.21306	3	NW	4	14.21306	251	2.0		14.31111	245	2.1		1		S	0	2		
1/17/2007	SDN	1	3	14.22667	3	NW	4	14.22667	262	1.5		14.34083	241	1.6		2		S	0	5		
1/17/2007	SDN	1	3	14.27778	3	NW	4	0.00000	0	0.0		14.27778	234	2.0		1		S	0	1		
1/17/2007	SDN	1	3	14.41500	3	NW	4	14.41500	250	3.2		14.47056	234	3.2		1		S	0	3		
1/17/2007	SDN	1	3	14.43917	3	NW	4	14.43917	252	3.1		14.48944	239	3.0		3		S	0	4		
1/17/2007	SDN	1	3	14.61389	3	NW	4	14.61389	255	1.0		14.76889	235	1.0		3		S	0	4		
1/17/2007	SDN	1	3	14.87250	3	NW	4	14.87250	255	1.8		14.96278	243	1.8		2		S	0	3		
1/17/2007	SDN	1	3	14.89778	3	NW	4	14.89778	245	1.5		14.91000	241	1.5		2		S	0	2		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/17/2007	SDN	1	3	15.13139	3	NW	4	15.13139	264	4.5		15.22722	236	5.2		1		S	0	4	
1/17/2007	SDN	1	3	15.23722	3	NW	4	15.23722	260	1.9		15.30889	241	1.8		1		S	0	1	
1/17/2007	SDN	1	3	15.29778	3	NW	4	15.29778	256	1.6		15.35278	239	2.0		2		S	0	5	
1/17/2007	SDN	1	3	15.32361	3	NW	4	15.32361	266	0.8		15.55889	241	1.2		5		S	0	9	
1/17/2007	SDN	1	3	15.37222	3	NW	4	15.37222	250	1.5		15.40611	243	1.5		2		S	0	3	
1/17/2007	SDN	1	3	15.38528	3	NW	4	15.38528	257	2.0		15.43917	242	2.2		1		S	0	4	
1/17/2007	SDN	1	3	15.55194	3	NW	4	0.00000	0	0.0		15.55194	251	1.0		2		S	0	2	
1/17/2007	SDN	1	3	15.58500	3	NW	4	15.58500	253	1.0		15.69611	236	1.0		6		S	0	6	
1/17/2007	SDN	1	3	15.71361	3	NW	4	0.00000	0	0.0		15.71361	242	1.0		1		S	0	1	
1/17/2007	SDN	1	3	15.73722	3	NW	4	15.73722	259	1.7		15.82861	238	1.6		3		S	0	6	
1/17/2007	SDN	1	3	15.76222	3	NW	4	15.76222	266	1.8		15.90750	238	1.8		1		S	0	3	
1/17/2007	SDN	1	3	15.80444	3	NW	4	15.80444	251	1.0		15.86389	241	1.0		1		S	0	2	
1/17/2007	SDN	1	3	15.94167	3	NW	4	15.94167	267	1.5		16.02917	243	1.8		1		S	0	4	
1/17/2007	SDN	1	3	16.09389	3	NW	4	16.09389	247	1.8		16.14861	235	1.8		1		S	0	2	
1/17/2007	SDN	1	3	16.20167	3	NW	4	16.20167	244	1.7		16.23639	238	1.7		2		S	0	2	
1/17/2007	SDN	1	5	16.50472	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/18/2007	CDV	1	1	7.50000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	13509 LR 315 DEG
1/18/2007	CDV	1	4	7.50278	4	SW	3	0.00000	0	0.0		7.50278	225	2.4		2		S	0	0	BLOWS BARELY VISIBLE FROM 242 NORTH. NEED LIGHT
1/18/2007	CDV	1	3	7.52444	4	SW	3	0.00000	0	0.0		7.52444	216	1.5		3		S	0	0	
1/18/2007	CDV	1	3	7.55528	4	SW	3	7.55528	246	2.9		7.59917	232	3.2		1		S	0	0	
1/18/2007	CDV	1	3	7.58333	4	SW	3	7.58333	264	1.2		7.72528	235	1.3		2		S	0	0	
1/18/2007	CDV	1	3	7.63361	4	SW	3	7.63361	260	2.8		7.69639	242	3.2		2		S	0	0	
1/18/2007	CDV	1	3	7.65389	4	SW	3	0.00000	0	0.0		7.65389	240	2.2		1		S	0	0	
1/18/2007	CDV	1	3	7.80611	4	SW	3	7.80611	270	1.7		7.96278	238	1.8	E	2		S	0	0	
1/18/2007	CDV	1	3	7.86056	4	SW	3	7.86056	283	1.0		8.22361	234	1.5		4		S	0	4	
1/18/2007	CDV	1	3	7.89333	4	SW	3	0.00000	0	0.0		7.89333	242	2.5		1		S	0	0	
1/18/2007	CDV	1	2	7.92889	3	E	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	CDV	1	3	8.00389	3	E	3	8.00389	261	3.8		8.14833	235	3.9		3		S	0	3	
1/18/2007	CDV	1	3	8.02917	3	E	3	8.02917	263	1.8		8.27083	233	1.6		2		S	0	0	
1/18/2007	CDV	1	3	8.20833	3	E	3	8.20833	277	1.2		8.38361	243	1.8		5		S	0	0	
1/18/2007	CDV	1	3	8.31944	3	E	3	8.31944	258	1.8		8.39083	244	1.9		3		S	0	0	
1/18/2007	CDV	1	3	8.34028	3	E	3	8.34028	268	1.2		8.49389	241	1.5		5		S	0	0	
1/18/2007	CDV	1	3	8.41361	3	E	3	0.00000	0	0.0		8.41361	238	1.8		1		S	0	1	
1/18/2007	CDV	1	3	8.44806	3	E	3	8.44806	270	1.3		8.65167	235	2.0		2		S	0	5	
1/18/2007	CDV	1	2	8.45000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	CDV	1	3	8.51528	2	NW	2	0.00000	0	0.0		8.51528	239	2.0		3		S	0	0	
1/18/2007	CDV	1	3	8.59139	2	NW	2	0.00000	0	0.0		8.59139	237	2.0		2		S	0	0	
1/18/2007	CDV	1	5	8.66583	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	BREAK
1/18/2007	CDV	1	1	8.73694	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	CDV	1	3	8.85056	2	NW	2	8.85056	280	1.9		8.99750	240	2.8		1		S	0	3	
1/18/2007	CDV	1	3	9.14972	2	NW	2	0.00000	0	0.0		9.14972	230	2.0		1		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/18/2007	CDV	1	3	9.19917	2	NW	2	9.19917	287	2.5		9.34167	242	3.0		4		S	0	0	
1/18/2007	CDV	1	3	9.25056	2	NW	2	9.25611	277	1.0		9.46750	242	1.2		2		S	0	0	
1/18/2007	CDV	1	3	9.39472	2	NW	2	9.39472	282	2.0		9.71806	242	4.2		4		S	0	2	
1/18/2007	CDV	1	3	9.42444	2	NW	2	9.42444	273	1.0		9.61306	242	1.8		2		S	0	0	
1/18/2007	CDV	1	3	9.53139	2	NW	2	9.53139	264	0.6		9.71972	242	0.8		4		S	0	0	
1/18/2007	CDV	1	3	9.68250	2	NW	2	0.00000	0	0.0		9.68250	228	1.0		1		S	0	0	
1/18/2007	CDV	1	3	9.76139	2	NW	2	0.00000	0	0.0		9.76139	240	1.2		3		S	0	0	
1/18/2007	CDV	1	2	9.81667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	CDV	1	3	9.84444	3	NW	3	9.84444	284	1.0		10.18028	238	1.6		4		S	0	0	
1/18/2007	CDV	1	3	9.86333	3	NW	3	9.86333	281	1.2		10.21028	235	1.8		5		S	0	0	
1/18/2007	CDV	1	3	9.89361	3	NW	3	9.89361	295	3.9		10.08833	240	6.0		2	2	S	0	4	
1/18/2007	CDV	1	3	10.01056	3	NW	3	0.00000	0	0.0		10.01056	242	1.1		2		S	0	0	
1/18/2007	CDV	1	3	10.19667	3	NW	3	0.00000	0	0.0		10.19667	220	1.0		3		S	0	0	
1/18/2007	CDV	1	3	10.23417	3	NW	3	10.23417	260	1.1		10.33722	242	1.2		4		S	0	0	
1/18/2007	CDV	1	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SDN	2	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SDN	2	3	10.91028	3	NW	3	10.91028	274	3.8		11.00167	237	4.0		2		S	0	4	
1/18/2007	SDN	2	3	10.92361	3	NW	3	10.92361	262	1.8		11.03028	242	1.8		2		S	0	6	
1/18/2007	SDN	2	3	11.16889	3	NW	3	11.16889	275	2.0		11.47250	241	2.0		3		S	0	5	
1/18/2007	SDN	2	3	11.20694	3	NW	3	0.00000	0	0.0		11.20694	241	2.0		1		S	0	1	
1/18/2007	SDN	2	5	11.78556	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	BATHROOM BREAK
1/18/2007	SDN	2	1	11.81667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	BACK ON WATCH
1/18/2007	SDN	2	3	12.10833	3	NW	3	12.10833	270	1.0		12.50917	244	1.2		3		S	0	6	
1/18/2007	SDN	2	3	12.22889	3	NW	3	12.22889	272	1.2		12.61056	232	1.0		1		S	0	3	
1/18/2007	SDN	2	3	12.32944	3	NW	3	12.32944	278	1.4		12.66389	234	1.4		2		S	0	5	
1/18/2007	SDN	2	3	12.47139	3	NW	3	12.47139	264	1.6		12.72417	242	1.5		4		S	0	5	
1/18/2007	SDN	2	3	12.83556	3	NW	3	12.83556	276	1.0		13.08611	242	1.5		3		S	0	7	
1/18/2007	SDN	2	3	12.91722	3	NW	3	12.91722	270	1.2		13.16806	238	1.4		6		S	0	8	
1/18/2007	SDN	2	2	13.03139	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SDN	2	3	13.12778	3	NW	4	13.12778	276	1.5		13.32972	241	1.2		4		S	0	6	
1/18/2007	SDN	2	3	13.18556	3	NW	4	13.18556	247	1.8		13.20222	245	1.6		1		S	0	2	
1/18/2007	SDN	2	3	13.31806	3	NW	4	13.31806	256	1.8		13.39389	242	1.8		2		S	0	3	
1/18/2007	SDN	2	3	13.35944	3	NW	4	13.35944	257	1.5		13.47389	242	1.5		3		S	0	4	
1/18/2007	SDN	2	2	13.49167	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SDN	2	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/18/2007	SLM	2	1	13.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SLM	2	3	13.60833	4	NW	5	13.60833	261	1.7		13.76222	242	1.8		3		S	0	5	
1/18/2007	SLM	2	3	13.87806	4	NW	5	13.87806	255	1.2		13.96722	239	1.4		1		S	0	3	
1/18/2007	SLM	2	3	14.16139	4	NW	5	14.16139	286	1.2		14.35556	241	1.9		2		S	0	6	
1/18/2007	SLM	2	2	14.38333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SLM	2	3	14.38889	3	NW	4	14.38889	270	1.8		14.57778	241	2.0		2		S	0	5	
1/18/2007	SLM	2	3	14.84583	3	NW	4	14.84583	270	1.1		15.06194	241	1.3		2		S	0	11	
1/18/2007	SLM	2	3	15.13056	3	NW	4	15.13056	300	1.3		15.44111	241	3.2		8		S	0	13	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/18/2007	SLM	2	3	15.17139	3	NW	4	15.17139	276	2.8		15.24417	257	3.2		2		S	0	4	
1/18/2007	SLM	2	2	15.20000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/18/2007	SLM	2	3	15.23056	3	NW	3	15.23056	273	1.9		15.26528	255	2.1		2		S	0	3	
1/18/2007	SLM	2	3	15.34667	3	NW	3	15.34667	289	1.4		15.65556	243	2.1		6		S	0	7	HARD TO TELL IF THIS POD WAS ONE OR TWO PODS
1/18/2007	SLM	2	3	15.69028	3	NW	3	15.69028	250	3.1		15.72500	240	3.0		1		S	0	2	
1/18/2007	SLM	2	3	15.76861	3	NW	3	15.76861	283	2.3		16.07667	251	1.9		2		S	0	6	
1/18/2007	SLM	2	3	15.81028	3	NW	3	15.81028	273	2.6		15.88833	246	3.3		1		S	0	5	
1/18/2007	SLM	2	3	15.93556	3	NW	3	15.93556	292	0.9		16.28694	243	2.0		3		S	0	8	AGAIN HARD TO TELL IF THIS WAS TWO OR ONE POD
1/18/2007	SLM	2	8	16.05833	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RETICLE 0.8, TRAVELING NORTH, MAYBE A COAST GUARD SHIP"
1/18/2007	SLM	2	3	16.21528	3	NW	3	16.21528	265	5.2		16.24444	253	6.3		1		S	0	3	
1/18/2007	SLM	2	3	16.25167	3	NW	3	0.00000	0	0.0		16.25167	238	2.0		1		S	0	2	
1/18/2007	SLM	2	3	16.38333	3	NW	3	16.38333	290	1.3		16.55972	257	2.3		1		S	0	5	
1/18/2007	SLM	2	3	16.46194	3	NW	3	16.46194	287	1.2		16.66528	245	2.1		4		S	0	7	
1/18/2007	SLM	2	5	16.68611	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	CDV	2	1	7.50000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BINOCES 13509 315
1/19/2007	CDV	2	3	7.52583	2	SW	2	0.00000	0	0.0		7.52583	215	1.9		5		S	0	1	
1/19/2007	CDV	2	3	7.55028	2	SW	2	7.55028	254	1.0	E	7.61278	243	1.6		3		S	0	2	
1/19/2007	CDV	2	3	7.59528	2	SW	2	7.59528	254	1.5		7.87000	243	2.2		2		S	0	3	
1/19/2007	CDV	2	3	7.74583	2	SW	2	0.00000	0	0.0		7.74583	220	1.2		2		S	0	2	
1/19/2007	CDV	2	3	7.89111	2	SW	2	0.00000	0	0.0		7.89111	232	1.2		1		S	0	2	
1/19/2007	CDV	2	3	7.93861	2	SW	2	7.93861	258	1.5		8.02472	242	1.5		2		S	0	3	
1/19/2007	CDV	2	3	7.98889	2	SW	2	7.98889	262	0.8		8.27111	235	0.8		3		S	0	0	
1/19/2007	CDV	2	3	8.00944	2	SW	2	8.00944	269	1.2		8.20750	238	1.7		2		S	0	0	
1/19/2007	CDV	2	3	8.14639	2	SW	2	0.00000	0	0.0		8.14639	239	1.8		2		S	0	0	
1/19/2007	CDV	2	3	8.18694	2	SW	2	0.00000	0	0.0		8.18694	240	1.2		3		S	0	0	
1/19/2007	CDV	2	4	8.25000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	CDV	2	3	8.31528	2	SW	2	8.31528	277	2.2		8.43806	242	2.8		5		S	0	0	
1/19/2007	CDV	2	3	8.33444	2	SW	2	8.33444	270	1.5		8.63417	230	1.3		4		S	0	0	
1/19/2007	CDV	2	3	8.50167	2	SW	2	8.50167	253	1.5		8.56889	243	1.8		3		S	0	0	
1/19/2007	CDV	2	4	8.50750	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SHIP #1 CENTER 243 DEG.
1/19/2007	CDV	2	3	8.61194	2	SW	2	8.61194	275	1.2		8.74222	243	1.9		7		S	0	2	
1/19/2007	CDV	2	4	8.75944	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SHIP #2 CENTER 216 DEGREES
1/19/2007	CDV	2	3	8.77861	2	SW	2	8.77861	256	1.8		8.87889	238	1.9		3		S	0	0	
1/19/2007	CDV	2	3	8.82000	2	SW	2	0.00000	0	0.0		8.82000	249	12.0		2		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/19/2007	CDV	2	2	8.90556	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	CDV	2	4	9.00833	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SHIP #2 CENTER 247 DEGREES
1/19/2007	CDV	2	3	9.07972	3	NW	3	0.00000	0	0.0		9.07972	271	1.0		3		S	0	2	
1/19/2007	CDV	2	4	9.18056	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	POWER BOAT PASSING THROUGH 242
1/19/2007	CDV	2	4	9.25000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SHIP #2 STERN 272 DEGREES
1/19/2007	CDV	2	2	9.30000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	CDV	2	3	9.37778	4	NW	4	9.37778	271	1.2		9.54056	242	1.8		2		S	0	2	
1/19/2007	CDV	2	3	9.47028	4	NW	4	9.47028	262	3.2		9.50000	245	3.2		1		S	0	3	
1/19/2007	CDV	2	3	9.63694	4	NW	4	9.63694	275	1.5		9.92417	238	1.9		2		S	0	2	
1/19/2007	CDV	2	3	9.68028	4	NW	4	9.68028	286	1.2		10.00000	243	1.9		5		S	0	4	
1/19/2007	CDV	2	3	9.73972	4	NW	4	0.00000	0	0.0		9.73972	235	1.8		7		S	0	3	
1/19/2007	CDV	2	3	9.81889	4	NW	4	9.81889	274	3.8		9.90000	242	4.5		2		S	0	2	
1/19/2007	CDV	2	3	9.98528	4	NW	4	0.00000	0	0.0		9.98528	240	3.0		1		S	0	1	
1/19/2007	CDV	2	3	10.13250	4	NW	4	10.13250	253	1.5		10.18722	242	1.5		2		S	0	2	
1/19/2007	CDV	2	2	10.21139	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	CDV	2	3	10.35306	4	NW	5	0.00000	0	0.0		10.35306	242	1.5		4		S	0	0	
1/19/2007	CDV	2	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	SDN	1	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	SDN	1	3	10.59083	4	NW	5	0.00000	0	0.0		10.59083	242	1.0		4		S	0	1	
1/19/2007	SDN	1	2	10.60556	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	SDN	1	3	10.64833	5	NW	6	10.64833	266	1.6		10.72028	239	1.8		1		S	0	4	
1/19/2007	SDN	1	3	10.74222	5	NW	6	10.74222	246	1.5	E	10.76333	240	1.5		4		S	0	3	
1/19/2007	SDN	1	3	10.91333	5	NW	6	10.91333	252	1.5	E	10.96889	241	1.6		1		S	0	3	
1/19/2007	SDN	1	3	11.08778	5	NW	6	11.08778	260	1.8		11.18667	240	1.8	E	1		S	0	4	
1/19/2007	SDN	1	3	11.11278	5	NW	6	11.11278	262	1.8		11.22222	240	2.0		2		S	0	4	
1/19/2007	SDN	1	3	11.29806	5	NW	6	0.00000	0	0.0		11.29806	240	1.5	E	1		S	0	1	
1/19/2007	SDN	1	3	11.34444	5	NW	6	0.00000	0	0.0		11.34444	240	1.8		3		S	0	1	
1/19/2007	SDN	1	3	11.54417	5	NW	6	11.54417	244	2.0	E	11.55528	242	2.0		2		S	0	2	
1/19/2007	SDN	1	2	11.65194	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	SDN	1	5	11.69639	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
1/19/2007	SDN	1	1	11.75167	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/19/2007	SDN	1	3	11.77500	4	NW	5	11.77500	245	1.8		11.78056	242	1.8		2		S	0	2	
1/19/2007	SDN	1	3	12.03056	4	NW	5	0.00000	0	0.0		12.03056	240	1.8		1		S	0	1	
1/19/2007	SDN	1	3	12.30000	4	NW	5	12.30000	244	2.0	E	12.33389	236	2.0	E	1		S	0	2	
1/19/2007	SDN	1	3	12.38278	4	NW	5	0.00000	0	0.0		12.38278	248	1.5	E	1		S	0	1	
1/19/2007	SDN	1	3	12.42500	4	NW	5	12.42500	248	2.0		12.45389	238	2.0		1		S	0	3	
1/19/2007	SDN	1	3	12.45611	4	NW	5	12.45611	248	1.5		12.52556	240	1.8		1		S	0	3	
1/19/2007	SDN	1	3	12.63694	4	NW	5	0.00000	0	0.0		12.63694	234	1.5		4		S	0	1	
1/19/2007	SDN	1	3	12.76111	4	NW	5	12.76111	266	1.8		12.97222	248	1.8		1		S	0	10	
1/19/2007	SDN	1	3	12.84139	4	NW	5	0.00000	0	0.0		12.84139	232	1.5		2		S	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/19/2007	SDN	1	3	12.86389	4	NW	5	0.00000	0	0.0		12.86389	242	1.5	E	2		S	0	1	
1/19/2007	SDN	1	2	12.92778	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SDN	1	3	13.09722	3	NW	4	0.00000	0	0.0		13.09722	243	3.0		1		S	0	1	
1/19/2007	SDN	1	3	13.14806	3	NW	4	13.14806	259	2.0		13.20056	243	2.0		2		S	0	3	
1/19/2007	SDN	1	5	13.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/19/2007	SLM	2	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	3	13.67611	4	NW	4	13.67611	253	1.2		13.74861	239	1.2		2		S	0	5	
1/19/2007	SLM	2	2	13.78333	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	3	13.81861	5	NW	4	13.81861	268	0.6		14.01611	242	0.6		2		S	0	7	
1/19/2007	SLM	2	3	14.09306	5	NW	4	0.00000	0	0.0		14.09306	243	1.2		2		S	0	2	
1/19/2007	SLM	2	3	14.18500	5	NW	4	14.18500	269	1.4		14.34444	242	1.4		6		S	0	7	
1/19/2007	SLM	2	3	14.23750	5	NW	4	14.23750	275	1.2		14.43333	243	1.3		3		S	0	8	
1/19/2007	SLM	2	2	14.48333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	2	14.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	3	14.61250	3	NW	3	0.00000	0	0.0		14.61250	234	1.5		2		S	0	2	"MIGHT BE THE SAME POD AS THE PREVIOUS ONE. IT WOULD BE SLOW THOUGH"
1/19/2007	SLM	2	3	14.94444	3	NW	3	0.00000	0	0.0		14.94444	241	1.1		1		S	0	3	
1/19/2007	SLM	2	3	15.04861	3	NW	3	15.04861	260	2.1		15.11750	247	2.2		1		S	0	2	
1/19/2007	SLM	2	2	15.16667	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	3	15.23944	4	NW	3	15.23944	275	1.4		15.38750	241	2.4	E	1		S	0	4	
1/19/2007	SLM	2	3	15.30556	4	NW	3	15.30556	292	1.5		15.61000	241	2.8		3		S	0	7	
1/19/2007	SLM	2	3	15.51111	4	NW	3	0.00000	0	0.0		15.51111	243	3.0	E	1		S	0	2	
1/19/2007	SLM	2	3	15.64444	4	NW	3	15.64444	267	2.3		15.77917	247	2.5		2		S	0	4	
1/19/2007	SLM	2	3	15.95389	4	NW	3	15.95389	257	2.1		16.01111	243	2.1		1		S	0	4	
1/19/2007	SLM	2	3	16.08806	4	NW	3	16.08806	265	3.0		16.17500	233	3.7		1		S	0	4	
1/19/2007	SLM	2	2	16.21667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/19/2007	SLM	2	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	1	7.35000	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	7.43361	5	NW	2	0.00000	0	0.0		7.43361	237	0.9		1		S	0	3	
1/20/2007	SLM	2	2	7.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	7.59306	4	NW	2	7.59306	275	2.0		7.78906	232	1.9		2		S	0	6	
1/20/2007	SLM	2	3	7.67500	4	NW	2	7.67500	285	2.2		7.87500	241	3.8		1		S	0	3	
1/20/2007	SLM	2	3	7.81639	4	NW	2	0.00000	0	0.0		7.81639	242	0.3		2		S	0	1	
1/20/2007	SLM	2	2	7.89333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	7.89528	4	NW	3	0.00000	0	0.0		7.89528	239	1.0		1		S	0	2	
1/20/2007	SLM	2	3	7.92361	4	NW	3	7.92361	262	0.9		7.99389	247	0.8		1		S	0	3	
1/20/2007	SLM	2	2	8.03333	5	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	8.19722	5	NW	3	0.00000	0	0.0		8.19722	239	1.7		2		S	0	1	
1/20/2007	SLM	2	3	8.29861	5	NW	3	8.29861	266	1.8		8.39944	241	2.0		3		S	0	6	
1/20/2007	SLM	2	3	8.44083	5	NW	3	8.44083	260	1.4		8.52889	236	1.1		3		S	0	2	
1/20/2007	SLM	2	2	8.50000	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/20/2007	SLM	2	3	8.56583	5	NW	4	0.00000	0	0.0		8.56583	215	4.0		1		S	0	2	
1/20/2007	SLM	2	2	8.71667	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	8.75222	4	NW	3	8.75222	264	2.1		8.88472	238	2.2		2		S	0	4	
1/20/2007	SLM	2	3	8.77917	4	NW	3	0.00000	0	0.0		8.77917	231	1.3		1		S	0	2	
1/20/2007	SLM	2	3	8.80306	4	NW	3	8.80306	267	1.1		8.97028	240	1.2		2		S	0	4	
1/20/2007	SLM	2	3	8.99861	4	NW	3	8.99861	255	1.7		9.04083	245	1.9		2		S	0	3	
1/20/2007	SLM	2	3	9.01111	4	NW	3	9.01111	265	0.6		9.31083	240	1.2		2		S	0	3	
1/20/2007	SLM	2	3	9.12167	4	NW	3	9.12167	265	1.0		9.34861	241	1.4		4		S	0	7	
1/20/2007	SLM	2	3	9.18889	4	NW	3	9.18889	252	2.0		9.32167	233	2.0		1		S	0	2	
1/20/2007	SLM	2	3	9.33778	4	NW	3	9.33778	260	1.9		9.45639	241	2.0	E	5		S	0	3	
1/20/2007	SLM	2	3	9.41250	4	NW	3	9.41250	267	1.7		9.52917	236	1.9	E	2		S	0	3	
1/20/2007	SLM	2	3	9.46389	4	NW	3	9.46389	255	3.5		9.69167	228	2.0		3		S	0	5	
1/20/2007	SLM	2	3	9.60000	4	NW	3	9.60000	265	1.7		9.72778	240	1.8		3		S	0	4	
1/20/2007	SLM	2	2	9.75000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	SLM	2	3	9.93889	3	NW	3	9.93889	276	1.3		10.12361	236	1.8		1		S	0	4	
1/20/2007	SLM	2	3	9.98111	3	NW	3	9.98111	277	1.2		10.15500	241	2.1		2		S	0	5	
1/20/2007	SLM	2	3	10.02500	3	NW	3	10.02500	276	2.0		10.23000	239	1.9		1		S	0	3	
1/20/2007	SLM	2	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	CDV	2	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	13509
1/20/2007	CDV	2	3	10.68861	3	NW	3	10.68861	280	1.0		11.00667	242	1.2		5		S	0	4	
1/20/2007	CDV	2	3	10.74639	3	NW	3	10.74639	245	1.0		10.86750	238	1.0		4		S	0	2	
1/20/2007	CDV	2	3	10.74667	3	NW	3	10.74667	246	1.0		10.90139	239	1.0		2		S	0	2	
1/20/2007	CDV	2	3	11.09611	3	NW	3	0.00000	0	0.0		11.09611	239	1.2		1		S	0	2	
1/20/2007	CDV	2	3	11.17972	3	NW	3	11.17972	268	0.8		11.40250	242	0.9		3		S	0	3	
1/20/2007	CDV	2	3	11.30806	3	NW	3	11.30806	275	1.2		11.62417	234	1.2		4		S	0	4	
1/20/2007	CDV	2	3	11.47111	3	NW	3	11.47111	256	1.5		11.66583	240	1.8		4		S	0	2	
1/20/2007	CDV	2	3	11.53028	3	NW	3	11.53028	272	1.5		11.66000	236	2.0		2		S	0	2	
1/20/2007	CDV	2	3	11.54556	3	NW	3	11.54556	258	2.8		11.61500	239	2.5		2		S	0	2	
1/20/2007	CDV	2	3	11.71972	3	NW	3	0.00000	0	0.0		11.71972	242	1.8		1		S	0	2	
1/20/2007	CDV	2	3	11.76583	3	NW	3	0.00000	0	0.0		11.76583	243	1.8		4		S	0	3	
1/20/2007	CDV	2	3	11.87139	3	NW	3	11.87139	264	2.3		11.93472	243	2.5		1		S	0	2	
1/20/2007	CDV	2	3	11.96111	3	NW	3	11.96111	257	1.2		12.05500	239	1.5		3		S	0	3	
1/20/2007	CDV	2	3	12.03139	3	NW	3	12.03139	266	2.0		12.11972	242	2.1		4		S	0	3	
1/20/2007	CDV	2	3	12.09500	3	NW	3	0.00000	0	0.0		12.09500	232	0.5		1		S	0	1	
1/20/2007	CDV	2	3	12.15528	3	NW	3	0.00000	0	0.0		12.15528	234	1.5		3		S	0	1	
1/20/2007	CDV	2	5	12.16667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	BREAK
1/20/2007	CDV	2	1	12.20333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	CDV	2	2	12.23333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/20/2007	CDV	2	3	12.27417	4	NW	3	0.00000	0	0.0		12.27417	241	1.5		2		S	0	1	
1/20/2007	CDV	2	3	12.40306	4	NW	3	12.40306	246	1.5		12.42917	241	1.5		1		S	0	3	
1/20/2007	CDV	2	3	12.46944	4	NW	3	0.00000	0	0.0		12.46944	252	1.5	E	1		S	0	1	
1/20/2007	CDV	2	3	12.48111	4	NW	3	0.00000	0	0.0		12.48111	240	1.0		1		S	0	2	
1/20/2007	CDV	2	3	12.63472	4	NW	3	12.63472	248	1.0		12.67917	240	1.2		2		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/20/2007	CDV	2	3	12.69000	4	NW	3	0.00000	0	0.0		12.69000	242	1.8		1		S	0	1	
1/20/2007	CDV	2	3	12.71333	4	NW	3	12.71333	248	2.7		12.75361	242	2.7		2		S	0	0	
1/20/2007	CDV	2	3	12.71861	4	NW	3	12.71861	249	2.8		12.77333	230	2.8		2		S	0	0	
1/20/2007	CDV	2	3	12.74917	4	NW	3	0.00000	0	0.0		12.74917	225	4.4		1		S	0	1	
1/20/2007	CDV	2	3	12.78806	4	NW	3	0.00000	0	0.0		12.78806	230	1.0		1		S	0	0	
1/20/2007	CDV	2	3	12.82389	4	NW	3	12.82389	256	1.0		12.97833	235	1.0		2		S	0	0	
1/20/2007	CDV	2	3	12.86861	4	NW	3	12.86861	244	2.0		12.89139	239	2.0		3		S	0	0	
1/20/2007	CDV	2	3	12.95306	4	NW	3	0.00000	0	0.0		12.95306	240	2.0		1		S	0	0	
1/20/2007	CDV	2	3	13.10361	4	NW	3	0.00000	0	0.0		13.10361	235	1.8		3		S	0	1	
1/20/2007	CDV	2	3	13.26472	4	NW	3	13.26472	252	2.0		13.36556	232	2.0		4		S	0	0	
1/20/2007	CDV	2	3	13.41972	4	NW	3	13.41972	266	2.8		13.49833	242	2.8		2		S	0	2	
1/20/2007	CDV	2	5	13.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
1/20/2007	SLR	1	1	13.50028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509,A315"
1/20/2007	SLR	1	3	13.54583	4	NW	3	0.00000	0	0.0		13.54583	239	2.4		1		S	0	1	
1/20/2007	SLR	1	3	13.65000	4	NW	3	0.00000	0	0.0		13.65000	242	1.1		1		S	0	2	
1/20/2007	SLR	1	3	13.72778	4	NW	3	13.72778	253	1.3		13.85000	240	1.3		1		S	0	3	
1/20/2007	SLR	1	3	13.85028	4	NW	3	0.00000	0	0.0		13.85028	242	1.3		2		S	0	3	SPLASH 13:59 AT A235
1/20/2007	SLR	1	3	13.86667	4	NW	3	0.00000	0	0.0		13.86667	238	2.0		1		S	0	1	
1/20/2007	SLR	1	3	13.90000	4	NW	3	13.90000	257	1.7		13.97222	240	1.8		1		S	0	3	
1/20/2007	SLR	1	3	13.95000	4	NW	3	0.00000	0	0.0		13.95000	246	1.8		1		S	0	2	
1/20/2007	SLR	1	3	14.08333	4	NW	3	0.00000	0	0.0		14.08333	240	2.0		1		S	0	1	
1/20/2007	SLR	1	3	14.13611	4	NW	3	0.00000	0	0.0		14.13611	241	1.1		1		S	0	1	
1/20/2007	SLR	1	3	14.20000	4	NW	3	14.20000	263	1.8	E	14.30000	236	2.0		1		S	0	3	
1/20/2007	SLR	1	3	14.34167	4	NW	3	0.00000	0	0.0		14.34167	241	2.3		1		S	0	1	
1/20/2007	SLR	1	3	14.41667	4	NW	3	14.41667	255	1.8		14.45000	247	1.8		2		S	0	5	
1/20/2007	SLR	1	3	14.59167	4	NW	3	0.00000	0	0.0		14.59167	240	2.3		3		S	0	2	
1/20/2007	SLR	1	3	14.61667	4	NW	3	0.00000	0	0.0		14.61667	241	1.8		4		S	0	3	
1/20/2007	SLR	1	3	14.68333	4	NW	3	0.00000	0	0.0		14.68333	244	1.8		1		S	0	2	
1/20/2007	SLR	1	3	14.75556	4	NW	3	0.00000	0	0.0		14.75556	241	1.4		1		S	0	4	
1/20/2007	SLR	1	3	14.80000	4	NW	3	14.80000	251	2.0		14.87778	239	2.1		1		S	0	2	
1/20/2007	SLR	1	3	14.81667	4	NW	3	0.00000	0	0.0		14.81667	253	2.0		1		S	0	1	
1/20/2007	SLR	1	3	14.96111	4	NW	3	0.00000	0	0.0		14.96111	240	1.8		1		S	0	3	
1/20/2007	SLR	1	3	14.96667	4	NW	3	0.00000	0	0.0		14.96667	245	1.8		1		S	0	3	
1/20/2007	SLR	1	3	15.06667	4	NW	3	15.06667	252	0.8		15.11667	246	0.8		1		S	0	2	
1/20/2007	SLR	1	2	15.11389	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"VIS WAS "GOOD" PRIOR TO THIS FOR ABOUT 1 HR. BUSY WITH WHALES"
1/20/2007	SLR	1	3	15.20556	4	NW	4	0.00000	0	0.0		15.20556	242	2.0		1		S	0	2	
1/20/2007	SLR	1	3	15.25278	4	NW	4	0.00000	0	0.0		15.25278	246	2.0		1		S	0	1	
1/20/2007	SLR	1	3	15.25306	4	NW	4	0.00000	0	0.0		15.25306	250	2.3		1		S	0	1	
1/20/2007	SLR	1	3	15.28889	4	NW	4	0.00000	0	0.0		15.28889	241	1.1		2		S	0	4	
1/20/2007	SLR	1	3	15.30000	4	NW	4	0.00000	0	0.0		15.30000	242	1.0		1		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/20/2007	SLR	1	3	15.54444	4	NW	4	0.00000	0	0.0		15.54444	241	1.1		1		S	0	3	
1/20/2007	SLR	1	3	15.81667	4	NW	4	0.00000	0	0.0		15.81667	238	7.0	E	1		S	0	1	
1/20/2007	SLR	1	3	15.90000	4	NW	4	15.90000	262	2.0		15.76333	249	2.0		6		S	0	4	
1/20/2007	SLR	1	3	16.00000	4	NW	4	0.00000	0	0.0		16.00000	240	3.0		1		S	0	3	
1/20/2007	SLR	1	3	16.01667	4	NW	4	0.00000	0	0.0		16.01667	254	1.5		1		S	0	1	
1/20/2007	SLR	1	3	16.05000	4	NW	4	0.00000	0	0.0		16.05000	245	1.0		1		S	0	1	
1/20/2007	SLR	1	3	16.08333	4	NW	4	0.00000	0	0.0		16.08333	248	1.1		1		S	0	1	
1/20/2007	SLR	1	3	16.15000	4	NW	4	0.00000	0	0.0		16.15000	240	2.0		3		S	0	2	
1/20/2007	SLR	1	3	16.22083	4	NW	4	0.00000	0	0.0		16.22083	241	2.0		1		S	0	3	THIS WHALE AND 161410 ENTRY WHALE TRAVELING SAME RET
1/20/2007	SLR	1	3	16.23611	4	NW	4	0.00000	0	0.0		16.23611	241	2.1		1		S	0	3	
1/20/2007	SLR	1	3	16.25000	4	NW	4	0.00000	0	0.0		16.25000	241	1.1		1		S	0	1	
1/20/2007	SLR	1	3	16.33333	4	NW	4	0.00000	0	0.0		16.33333	238	1.8		1		S	0	2	
1/20/2007	SLR	1	3	16.35000	4	NW	4	0.00000	0	0.0		16.35000	242	1.9		2		S	0	3	
1/20/2007	SLR	1	3	16.41667	4	NW	4	16.41667	264	1.5		16.51667	242	1.7		1		S	0	3	
1/20/2007	SLR	1	3	16.48333	4	NW	4	0.00000	0	0.0		16.48333	268	1.3		2		S	0	3	
1/20/2007	SLR	1	5	16.58333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0				0	
1/21/2007	SLR	1	1	7.30833	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	"B13509, A315 HIGH GLARE"
1/21/2007	SLR	1	6	7.42222	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0				0	"A230, RET 1.8 SOME TYPE OF DOLPHIN SPECIES? 1-2 ANIMALS"
1/21/2007	SLR	1	2	7.46611	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0				0	
1/21/2007	SLR	1	3	7.50833	4	NW	4	0.00000	0	0.0		7.50833	241	2.4		1		S	0	2	
1/21/2007	SLR	1	3	7.58889	4	NW	4	7.58889	251	1.8		7.79722	234	1.8		1		S	0	2	FLUKE UP AT 251 ANGLE
1/21/2007	SLR	1	3	7.74722	4	NW	4	7.74722	262	1.3		7.85000	242	1.5	E	2		S	0	3	
1/21/2007	SLR	1	2	7.86667	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0				0	"SOME SPRAY, LOTS OF SEABIRDS"
1/21/2007	SLR	1	3	7.86667	4	NW	5	7.86667	255	1.9		7.94722	239	2.0		1		S	0	4	
1/21/2007	SLR	1	3	8.01667	4	NW	5	8.01667	261	1.0		8.14444	242	1.2		2		S	0	5	
1/21/2007	SLR	1	3	8.25000	4	NW	5	0.00000	0	0.0		8.25000	242	1.6		1		S	0	2	FLUKE UP DIVE
1/21/2007	SLR	1	3	8.26667	4	NW	5	0.00000	0	0.0		8.26667	242	1.3		3		S	0	4	
1/21/2007	SLR	1	3	8.35000	4	NW	5	8.35000	256	2.3		8.41667	237	2.3	E	1		S	0	3	
1/21/2007	SLR	1	3	8.48333	4	NW	5	0.00000	0	0.0		8.48333	239	2.1		1		S	0	1	
1/21/2007	SLR	1	3	8.50000	4	NW	5	8.50000	257	1.3		8.57778	243	1.6		2		S	0	4	
1/21/2007	SLR	1	3	8.60000	4	NW	5	8.60000	252	1.4		8.64722	244	1.6		3		S	0	4	
1/21/2007	SLR	1	2	8.67056	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0				0	GLARE DECREASED
1/21/2007	SLR	1	3	8.70000	3	NW	5	0.00000	0	0.0		8.70000	240	2.0		1		S	0	1	
1/21/2007	SLR	1	3	8.76667	3	NW	5	0.00000	0	0.0		8.76667	241	1.4		3		S	0	4	
1/21/2007	SLR	1	3	8.81667	3	NW	5	8.81667	258	1.2		9.07222	231	1.3		1		S	0	2	
1/21/2007	SLR	1	3	8.86667	3	NW	5	0.00000	0	0.0		8.86667	243	1.2		1		S	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/21/2007	SLR	1	5	9.07778	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
1/21/2007	SLR	1	1	9.13056	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LOTS OF WHITECAPS, SOME SPRAY, FALSE CUES"
1/21/2007	SLR	1	3	9.26667	4	NW	5	0.00000	0	0.0		9.26667	246	1.1		1		S	0	3	
1/21/2007	SLR	1	3	9.43333	4	NW	5	9.43333	264	1.9		9.53056	242	2.1		3		S	0	4	
1/21/2007	SLR	1	3	9.63333	4	NW	5	9.63333	269	4.3		9.71667	240	5.0	E	1		S	0	3	
1/21/2007	SLR	1	3	9.80000	4	NW	5	9.80000	265	1.9		9.89167	241	2.1		3		S	0	5	
1/21/2007	SLR	1	2	10.10222	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/21/2007	SLR	1	3	10.21667	4	NW	6	0.00000	0	0.0		10.21667	255	1.0		1		S	0	1	
1/21/2007	SLR	1	3	10.31667	4	NW	6	10.31667	265	3.5	E	10.46667	241	3.2		2		S	0	2	1 WHALE ALWAYS FLUKED UP HIGH AND WENT DOWN SIDEWAYS
1/21/2007	SLR	1	5	10.50000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/21/2007	CDV	2	1	10.50028	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509
1/21/2007	CDV	2	3	10.57889	4	NW	6	10.57889	295	1.5		10.88806	240	2.5		3		S	0	3	
1/21/2007	CDV	2	3	10.58667	4	NW	6	10.58667	294	0.5		10.95028	242	1.4		2		S	0	3	
1/21/2007	CDV	2	3	10.64861	4	NW	6	0.00000	0	0.0		10.64861	235	2.3		1		S	0	2	
1/21/2007	CDV	2	3	11.04583	4	NW	6	0.00000	0	0.0		11.04583	248	1.0		1		S	0	0	
1/21/2007	CDV	2	3	11.05583	4	NW	6	11.05583	250	1.1		11.11694	242	1.2		1		S	0	2	
1/21/2007	CDV	2	3	11.18389	4	NW	6	11.18389	301	0.5		11.77056	242	1.8		4		S	0	0	
1/21/2007	CDV	2	3	11.24972	4	NW	6	0.00000	0	0.0		11.24972	235	1.5		1		S	0	0	
1/21/2007	CDV	2	3	11.31694	4	NW	6	11.31694	265	1.5		11.41861	240	1.8		2		S	0	3	
1/21/2007	CDV	2	3	11.48861	4	NW	6	0.00000	0	0.0		11.48861	252	2.3		1		S	0	0	
1/21/2007	CDV	2	3	11.58889	4	NW	6	0.00000	0	0.0		11.58889	240	1.5	E	1		S	0	0	
1/21/2007	CDV	2	3	11.61444	4	NW	6	0.00000	0	0.0		11.61444	272	2.5		2		S	0	0	
1/21/2007	CDV	2	3	11.73972	4	NW	6	0.00000	0	0.0		11.73972	235	5.0		1		S	0	0	
1/21/2007	CDV	2	3	11.78750	4	NW	6	11.78750	258	1.8		11.95861	242	1.8		7		S	0	0	
1/21/2007	CDV	2	3	11.89000	4	NW	6	0.00000	0	0.0		11.89000	232	1.0		3		S	0	0	
1/21/2007	CDV	2	3	12.08083	4	NW	6	0.00000	0	0.0		12.08083	242	1.0		2		S	0	0	
1/21/2007	CDV	2	3	12.15167	4	NW	6	12.15167	246	1.2		12.20444	238	1.2		2		S	0	0	
1/21/2007	CDV	2	3	12.22306	4	NW	6	12.22306	252	1.2		12.29306	239	1.2		2		S	0	0	
1/21/2007	CDV	2	5	12.33333	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK
1/21/2007	CDV	2	1	12.36861	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/21/2007	CDV	2	3	12.50278	4	NW	6	0.00000	0	0.0		12.50278	245	0.5		1		S	0	0	
1/21/2007	CDV	2	3	12.51889	4	NW	6	12.51889	245	1.2		12.56333	238	1.2		4		S	0	0	
1/21/2007	CDV	2	3	12.60833	4	NW	6	12.60833	282	1.0		12.91167	235	1.5		4		S	0	3	
1/21/2007	CDV	2	3	12.61861	4	NW	6	12.61861	260	2.2		12.69917	242	2.2		2		S	0	0	
1/21/2007	CDV	2	3	12.96611	4	NW	6	12.96611	254	1.7		13.04444	242	1.8		4		S	0	0	
1/21/2007	CDV	2	3	13.12889	4	NW	6	0.00000	0	0.0		13.12889	243	1.2		4		S	0	0	
1/21/2007	CDV	2	3	13.14889	4	NW	6	13.14889	261	1.1		13.33278	231	1.2		2		S	0	0	
1/21/2007	CDV	2	3	13.37167	4	NW	6	0.00000	0	0.0		13.37167	232	1.2		2		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/21/2007	CDV	2	3	13.39167	4	NW	6	13.39167	252	2.0		13.44944	239	2.8		1		S	0	0	
1/21/2007	CDV	2	5	13.50000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/21/2007	SDN	2	1	13.50028	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/21/2007	SDN	2	3	13.62806	4	NW	6	13.62806	246	1.0		13.66028	241	1.0		1		S	0	3	
1/21/2007	SDN	2	3	13.74611	4	NW	6	13.74611	270	1.0		13.91972	241	1.3		7		S	0	8	
1/21/2007	SDN	2	3	13.96278	4	NW	6	13.96278	248	1.0		13.99472	242	1.2		1		S	0	3	
1/21/2007	SDN	2	3	14.04556	4	NW	6	14.04556	269	2.5		14.14167	239	2.6		2		S	0	3	
1/21/2007	SDN	2	3	14.18778	4	NW	6	14.18778	275	2.6		14.30722	242	3.0		11		S	0	6	
1/21/2007	SDN	2	3	14.37389	4	NW	6	14.37389	275	1.0		14.53111	242	1.8		8		S	0	8	
1/21/2007	SDN	2	3	14.51972	4	NW	6	0.00000	0	0.0		14.51972	245	0.5		1		S	0	1	
1/21/2007	SDN	2	3	14.59083	4	NW	6	14.59083	269	1.8		14.77028	242	1.6		5		S	0	10	
1/21/2007	SDN	2	3	14.59083	4	NW	6	0.00000	0	0.0		14.59083	269	5.0		1		S	0	1	
1/21/2007	SDN	2	3	14.69556	4	NW	6	14.69556	267	1.0		14.86639	239	1.5		1		S	0	4	
1/21/2007	SDN	2	3	14.90056	4	NW	6	14.90056	268	1.0		15.11917	235	1.2		3		S	0	8	
1/21/2007	SDN	2	3	14.92861	4	NW	6	14.92861	251	1.2		15.07861	240	1.0		2		S	0	3	
1/21/2007	SDN	2	3	15.03972	4	NW	6	15.03972	255	1.5		15.14222	247	1.2		1		S	0	3	
1/21/2007	SDN	2	3	15.09250	4	NW	6	0.00000	0	0.0		15.09250	240	3.0		1		S	0	1	
1/21/2007	SDN	2	3	15.13306	4	NW	6	15.13306	262	0.8		15.31194	242	0.8		3		S	0	7	
1/21/2007	SDN	2	3	15.15250	4	NW	6	0.00000	0	0.0		15.15250	241	1.2		6		S	0	1	
1/21/2007	SDN	2	3	15.18333	4	NW	6	15.18333	255	1.8		15.26778	236	1.6		1		S	0	4	
1/21/2007	SDN	2	3	15.34000	4	NW	6	15.34000	252	1.5		15.43722	235	1.4		3		S	0	3	
1/21/2007	SDN	2	3	15.47278	4	NW	6	15.47278	247	1.5		15.50306	242	1.8		3		S	0	3	
1/21/2007	SDN	2	3	15.64361	4	NW	6	15.64361	274	1.2		15.85389	238	1.5		4		S	0	12	
1/21/2007	SDN	2	3	15.65222	4	NW	6	15.65222	256	1.2		15.74389	240	1.0		1		S	0	6	
1/21/2007	SDN	2	3	15.76944	4	NW	6	15.76944	255	3.5		15.86694	241	3.5		1		S	0	2	
1/21/2007	SDN	2	3	15.89278	4	NW	6	15.89278	252	1.4		15.98750	234	1.5		2		S	0	5	
1/21/2007	SDN	2	3	16.05583	4	NW	6	16.05583	268	1.5		16.20750	240	1.5		1		S	0	7	
1/21/2007	SDN	2	3	16.30083	4	NW	6	0.00000	0	0.0		16.30083	240	4.0		1		S	0	1	
1/21/2007	SDN	2	3	16.42472	4	NW	6	16.42472	275	1.0		16.62056	243	1.5		3		S	0	8	
1/21/2007	SDN	2	5	16.62778	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/22/2007	SDN	2	1	7.47250	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/22/2007	SDN	2	3	7.68889	2	NW	2	7.68889	255	1.2		7.81861	238	1.3		2		S	0	4	
1/22/2007	SDN	2	3	7.70444	2	NW	2	0.00000	0	0.0		7.70444	237	1.2		4		S	0	1	
1/22/2007	SDN	2	3	7.96556	2	NW	2	7.96556	262	2.8		8.02417	242	3.0		1		S	0	4	
1/22/2007	SDN	2	3	7.97444	2	NW	2	7.97444	261	0.6		8.18417	241	0.8		1		S	0	4	
1/22/2007	SDN	2	3	8.26278	2	NW	2	8.26278	262	2.0		8.45778	242	2.3		1		S	0	6	
1/22/2007	SDN	2	3	8.44472	2	NW	2	8.44472	268	2.0		8.73250	230	2.0		4		S	0	4	
1/22/2007	SDN	2	3	8.52889	2	NW	2	8.52889	259	1.0		8.71500	242	1.0		1		S	0	3	
1/22/2007	SDN	2	5	8.79167	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
1/22/2007	SDN	2	1	8.85194	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/22/2007	SDN	2	3	8.86889	2	NW	2	8.86889	263	3.0		8.95167	235	3.5		1		S	0	2	
1/22/2007	SDN	2	3	8.99167	2	NW	2	8.99167	262	2.6		9.06583	241	2.8		2		S	0	5	
1/22/2007	SDN	2	3	9.12333	2	NW	2	9.12333	269	1.5		9.30389	238	2.0		9		S	0	5	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/22/2007	SDN	2	3	9.39278	2	NW	2	9.39278	257	2.0		9.50611	238	2.1		1		S	0	3	
1/22/2007	SDN	2	3	9.68556	2	NW	2	9.68556	254	5.0		9.74889	231	4.0		1		S	0	3	
1/22/2007	SDN	2	3	9.88417	2	NW	2	0.00000	0	0.0		9.88417	240	5.0		1		S	0	1	
1/22/2007	SDN	2	3	10.05972	2	NW	2	10.05972	256	1.8		10.12917	244	1.8		2		S	0	1	
1/22/2007	SDN	2	3	10.28778	2	NW	2	10.28778	255	1.2		10.39667	242	1.2		2		S	0	5	
1/22/2007	SDN	2	3	10.45833	2	NW	2	10.45833	249	2.0		10.49806	244	2.0		3		S	0	2	
1/22/2007	SDN	2	5	10.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	END WATCH
1/22/2007	SLR	1	1	10.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"B13509, A315"
1/22/2007	SLR	1	3	10.64444	2	NW	2	0.00000	0	0.0		10.64444	247	1.7		5		S	0	2	
1/22/2007	SLR	1	3	10.66667	2	NW	2	0.00000	0	0.0		10.66667	238	2.0		1		S	0	2	
1/22/2007	SLR	1	3	10.78056	2	NW	2	10.78056	253	1.4		10.80000	249	1.4		1		S	0	3	FLUKE UP DIVES
1/22/2007	SLR	1	3	11.23333	2	NW	2	0.00000	0	0.0		11.23333	230	3.5		1		S	0	1	
1/22/2007	SLR	1	3	11.31667	2	NW	2	11.31667	273	1.1		11.56667	242	1.4		2		S	0	7	"ENTRIES 11:34 & 11:36 2 DYADS, JOINED 261A RET 1.3, SEPARATED AT CROSSING 241A"
1/22/2007	SLR	1	3	11.43333	2	NW	2	11.43333	255	3.0		11.53333	240	3.1		1		S	0	2	
1/22/2007	SLR	1	3	11.60000	2	NW	2	0.00000	0	0.0		11.60000	237	1.4		2		S	0	6	"11:34 & 11:36 ENTRIES 2 DYADS JOINED AT 261, SEPARATE AT 241 A BUT CLOSE BY"
1/22/2007	SLR	1	3	11.82500	2	NW	2	0.00000	0	0.0		11.82500	253	1.3		1		S	0	1	
1/22/2007	SLR	1	2	11.85833	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"GLARE AND HAZE. BLOWS NOT SHOWING UP WELL"
1/22/2007	SLR	1	3	12.19444	3	NW	2	0.00000	0	0.0		12.19444	236	1.4		3		S	0	4	"3 WHALES FLUKED UP, BUT POSSIBLY 4 WHALES IN POD."
1/22/2007	SLR	1	3	12.30000	3	NW	2	12.30000	253	2.5		12.36806	241	2.5		2		S	0	4	"2 PODS TRAVELING SAME RET, 12:18 & 12:20 ENTRIES"
1/22/2007	SLR	1	3	12.33333	3	NW	2	12.33333	252	2.5		12.41667	236	2.5		1		S	0	2	12:18 & 12:20 ENTRIES ARE 2 PODS TRAVELING SAME RET
1/22/2007	SLR	1	3	12.48333	3	NW	2	0.00000	0	0.0		12.48333	253	2.4		1		S	0	1	
1/22/2007	SLR	1	3	12.56944	3	NW	2	0.00000	0	0.0		12.56944	237	1.5		1		S	0	1	
1/22/2007	SLR	1	3	12.60000	3	NW	2	12.60000	280	1.2		12.96667	231	2.0		2		S	0	5	
1/22/2007	SLR	1	3	12.65833	3	NW	2	12.65833	253	2.0		12.70833	241	2.3		2		S	0	3	"BOTH WHALES FLUKED UP 253A, 1 WHALE DID FLUKE DOWN DIVE AT 250A"
1/22/2007	SLR	1	2	12.79444	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"SEEING BLOWS ""ALITTLE"" BETTER"
1/22/2007	SLR	1	3	12.90000	2	NW	2	0.00000	0	0.0		12.90000	245	2.2		3		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/22/2007	SLR	1	3	13.06667	2	NW	2	13.06667	260	2.8		13.18333	241	3.1		3		S	0	3	
1/22/2007	SLR	1	3	13.15000	2	NW	2	0.00000	0	0.0		13.15000	240	1.1		3		S	0	4	2 OF THE WHALES FLUKED UP
1/22/2007	SLR	1	3	13.28333	2	NW	2	13.28333	251	0.9	E	13.38333	242	1.0		1		S	0	3	
1/22/2007	SLR	1	3	13.31667	2	NW	2	0.00000	0	0.0		13.31667	241	1.0		2		S	0	3	ONE FLUKED UP
1/22/2007	SLR	1	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/22/2007	IML	2	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BLUE SKY, CLEAR HORIZON, SORRY NO BINO CHECK TODAY TOO BUSY!"
1/22/2007	IML	2	3	13.56167	2	NW	2	13.56167	265	1.5		13.67806	247	1.7		3		S	0	5	
1/22/2007	IML	2	3	13.59472	2	NW	2	13.59472	276	1.8		13.78889	236	2.2		1		S	0	4	
1/22/2007	IML	2	3	13.70667	2	NW	2	13.70667	265	1.9		13.93361	231	1.7		1		S	0	2	
1/22/2007	IML	2	3	13.70833	2	NW	2	0.00000	0	0.0		13.70833	246	25.0	E	1		S	0	1	"SUPER CLOSE, OUT OF SCALE. RETICLE ESTM."
1/22/2007	IML	2	3	13.84889	2	NW	2	13.84889	249	2.5		13.93361	230	3.0		1		S	0	2	
1/22/2007	IML	2	3	13.85722	2	NW	2	0.00000	0	0.0		13.85722	242	1.7		1		S	0	1	
1/22/2007	IML	2	3	13.88083	2	NW	2	13.88083	271	1.1		14.10694	240	1.3	E	1		S	0	1	RETICLE AND ANGLE ESTM
1/22/2007	IML	2	3	13.88833	2	NW	2	13.88833	250	2.5		13.95083	235	2.5		2		S	0	3	
1/22/2007	IML	2	3	13.96917	2	NW	2	13.96917	244	1.0		14.00528	240	1.1		1		S	0	3	
1/22/2007	IML	2	3	14.03667	2	NW	2	14.03667	252	1.4		14.14278	235	1.5		2		S	0	2	
1/22/2007	IML	2	3	14.07583	2	NW	2	0.00000	0	0.0		14.07583	258	1.5		1		S	0	1	
1/22/2007	IML	2	3	14.11000	2	NW	2	0.00000	0	0.0		14.11000	230	1.0		2		S	0	1	
1/22/2007	IML	2	3	14.20917	2	NW	2	14.20917	247	1.5		14.26417	241	1.5		1		S	0	2	
1/22/2007	IML	2	2	14.35528	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GLARE, BLOW DIFFICULT TO SEE"
1/22/2007	IML	2	3	14.41417	3	NW	2	0.00000	0	0.0		14.41417	235	1.5		3		S	0	1	
1/22/2007	IML	2	6	14.45583	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"UNID DOLPHINS GOING NORTH/236/0.3 1000 INDIVS, 143438/242/0.5"
1/22/2007	IML	2	3	14.56306	3	NW	2	14.56306	283	1.1		14.86611	242	1.5		3		S	0	10	
1/22/2007	IML	2	6	14.63000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	DOLPHINS NOW OGING SE AT 245/0.5
1/22/2007	IML	2	2	14.87167	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/22/2007	IML	2	3	15.03139	2	NW	2	0.00000	0	0.0		15.03139	279	2.5		1		S	0	1	
1/22/2007	IML	2	3	15.04750	2	NW	2	0.00000	0	0.0		15.04750	271	1.5		2		S	0	1	
1/22/2007	IML	2	3	15.12167	2	NW	2	15.12167	260	2.0		15.23083	240	2.0		1		S	0	4	
1/22/2007	IML	2	3	15.19111	2	NW	2	15.19111	258	1.9		15.29972	237	2.0		1		S	0	2	
1/22/2007	IML	2	3	15.40806	2	NW	2	0.00000	0	0.0		15.40806	290	1.0		1		S	0	1	
1/22/2007	IML	2	3	15.41944	2	NW	2	15.41944	262	1.7		15.54722	238	2.0		2		S	0	6	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/22/2007	IML	2	3	15.42889	2	NW	2	15.42889	257	3.2		15.46611	249	3.5		1		S	0	5	
1/22/2007	IML	2	3	15.57861	2	NW	2	0.00000	0	0.0		15.57861	235	2.0		2		S	0	1	
1/22/2007	IML	2	3	15.57861	2	NW	2	0.00000	0	0.0		15.57861	277	1.0		3		S	0	1	
1/22/2007	IML	2	3	15.72528	2	NW	2	15.72528	273	2.1		15.90833	235	2.4		1		S	0	2	
1/22/2007	IML	2	3	15.74444	2	NW	2	0.00000	0	0.0		15.74444	243	2.7		1		S	0	1	
1/22/2007	IML	2	3	15.76639	2	NW	2	0.00000	0	0.0		15.76639	262	1.9		1		S	0	1	
1/22/2007	IML	2	2	15.83333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/22/2007	IML	2	3	15.85417	3	NW	2	15.85417	272	1.2		16.04000	247	1.5		3		S	0	7	
1/22/2007	IML	2	2	16.01111	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/22/2007	IML	2	3	16.06694	2	NW	2	16.06694	267	1.2		16.21694	246	1.5		2		S	0	5	
1/22/2007	IML	2	3	16.15639	2	NW	2	0.00000	0	0.0		16.15639	266	1.7		1		S	0	1	
1/22/2007	IML	2	3	16.16528	2	NW	2	0.00000	0	0.0		16.16528	272	1.7		1		S	0	1	
1/22/2007	IML	2	3	16.17139	2	NW	2	16.17139	275	0.6		16.57639	240	0.9		4		S	0	6	
1/22/2007	IML	2	3	16.17139	2	NW	2	16.17139	276	0.6		16.60306	240	0.8		1		S	0	1	
1/22/2007	IML	2	3	16.28806	2	NW	2	16.28806	266	3.2		16.38306	239	3.5		1		S	0	4	
1/22/2007	IML	2	3	16.30944	2	NW	2	0.00000	0	0.0		16.30944	240	1.7		1		S	0	1	
1/22/2007	IML	2	3	16.33444	2	NW	2	16.33444	245	1.5		16.36556	241	1.5		3		S	0	2	
1/22/2007	IML	2	3	16.44972	2	NW	2	0.00000	0	0.0		16.44972	240	2.0		1		S	0	1	
1/22/2007	IML	2	3	16.47444	2	NW	2	16.47444	272	1.0		16.69472	242	1.1		2		S	0	5	
1/22/2007	IML	2	3	16.50083	2	NW	2	16.50083	280	2.0		16.69472	243	2.5		2		S	0	3	
1/22/2007	IML	2	5	16.70000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	SLM	2	1	7.38889	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	SLM	2	3	7.71139	3	NE	2	0.00000	0	0.0		7.71139	242	1.3		2		S	0	2	
1/23/2007	SLM	2	3	7.77333	3	NE	2	7.77333	254	1.1		7.97556	242	1.3		14		S	0	5	
1/23/2007	SLM	2	3	7.88000	3	NE	2	0.00000	0	0.0		7.88000	241	2.4	E	1		S	0	1	
1/23/2007	SLM	2	3	8.02889	3	NE	2	0.00000	0	0.0		8.02889	241	1.4		1		S	0	3	
1/23/2007	SLM	2	3	8.16917	3	NE	2	8.16917	255	1.4		8.28722	230	1.4		4		S	0	3	
1/23/2007	SLM	2	3	8.27694	3	NE	2	0.00000	0	0.0		8.27694	258	3.2		1		S	0	1	
1/23/2007	SLM	2	3	8.30694	3	NE	2	8.30694	257	1.8		8.34944	250	1.7		2		S	0	2	
1/23/2007	SLM	2	3	8.32417	3	NE	2	0.00000	0	0.0		8.32417	250	1.5		1		S	0	2	
1/23/2007	SLM	2	3	8.36250	3	NE	2	0.00000	0	0.0		8.36250	255	1.5		2		S	0	2	
1/23/2007	SLM	2	3	8.42222	3	NE	2	8.42222	255	1.4		8.58611	230	1.3		1		S	0	3	
1/23/2007	SLM	2	3	8.61361	3	NE	2	8.61361	257	1.3		8.75583	236	1.3		3		S	0	3	
1/23/2007	SLM	2	3	8.64306	3	NE	2	0.00000	0	0.0		8.64306	235	1.6		1		S	0	2	
1/23/2007	SLM	2	3	8.70528	3	NE	2	8.70528	261	1.2		8.90972	240	1.3		2		S	0	2	
1/23/2007	SLM	2	3	8.85806	3	NE	2	8.85806	252	1.4		8.99194	239	1.8		1		S	0	5	
1/23/2007	SLM	2	3	9.05667	3	NE	2	0.00000	0	0.0		9.05667	242	1.7		1		S	0	2	
1/23/2007	SLM	2	3	9.09361	3	NE	2	9.09361	257	1.0		9.14278	249	1.2	E	1		S	0	3	
1/23/2007	SLM	2	3	9.30278	3	NE	2	9.30278	268	1.4		9.43278	247	1.4		2		S	0	3	
1/23/2007	SLM	2	3	9.42333	3	NE	2	9.42333	269	2.9		9.48694	247	3.0		2		S	0	3	
1/23/2007	SLM	2	3	9.44361	3	NE	2	0.00000	0	0.0		9.44361	212	3.4		1		S	0	1	
1/23/2007	SLM	2	3	9.52167	3	NE	2	0.00000	0	0.0		9.52167	223	4.0		1		S	0	1	
1/23/2007	SLM	2	3	9.65667	3	NE	2	0.00000	0	0.0		9.65667	268	3.1		1		S	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/23/2007	SLM	2	3	9.78972	3	NE	2	9.78972	276	0.0		9.98361	240	2.3		3		S	0	4	
1/23/2007	SLM	2	2	9.98056	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	SLM	2	3	9.98056	2	SW	2	9.98056	270	1.5		10.06306	235	2.1		4		S	0	3	
1/23/2007	SLM	2	3	10.25222	2	SW	2	10.25222	282	1.0		10.53611	230	1.5		4		S	0	3	
1/23/2007	SLM	2	3	10.33167	2	SW	2	0.00000	0	0.0		10.33167	240	1.4		1		S	0	2	
1/23/2007	SLM	2	3	10.36056	2	SW	2	0.00000	0	0.0		10.36056	247	1.2		1		S	0	2	
1/23/2007	SLM	2	3	10.37833	2	SW	2	0.00000	0	0.0		10.37833	200	7.0		2		S	0	2	
1/23/2007	SLM	2	3	10.45917	2	SW	2	0.00000	0	0.0		10.45917	240	1.3		2		S	0	2	
1/23/2007	SLM	2	5	10.50000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	IML	2	1	10.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"B13509, A314.4 BLUE SKY, CRISP HORIZON"
1/23/2007	IML	2	3	10.65028	2	NW	2	0.00000	0	0.0		10.65028	239	1.5		1		S	0	1	
1/23/2007	IML	2	3	10.70528	2	NW	2	0.00000	0	0.0		10.70528	242	1.5		4		S	0	1	
1/23/2007	IML	2	3	10.73611	2	NW	2	10.73611	245	5.0		10.74472	241	5.2		1		S	0	2	
1/23/2007	IML	2	3	10.83528	2	NW	2	0.00000	0	0.0		10.83528	235	1.5		1		S	0	1	
1/23/2007	IML	2	3	10.93833	2	NW	2	0.00000	0	0.0		10.93833	238	1.5		1		S	0	1	
1/23/2007	IML	2	3	11.19972	2	NW	2	11.19972	250	1.8		11.24361	242	1.9		2		S	0	5	
1/23/2007	IML	2	3	11.26750	2	NW	2	11.26750	250	1.9		11.38694	230	1.8		2		S	0	3	
1/23/2007	IML	2	3	11.48056	2	NW	2	11.48056	280	3.8		11.61861	241	5.0		1		S	0	5	
1/23/2007	IML	2	3	11.50222	2	NW	2	11.50222	253	2.5		11.66944	214	2.3		1		S	0	1	
1/23/2007	IML	2	3	11.53444	2	NW	2	11.53444	285	4.0		11.61861	242	5.0		1		S	0	7	SEE NOTES
1/23/2007	IML	2	3	11.63917	2	NW	2	0.00000	0	0.0		11.63917	238	7.0		1		S	0	2	
1/23/2007	IML	2	3	11.96167	2	NW	2	11.96167	265	2.0		12.09333	240	2.5		1		S	0	1	
1/23/2007	IML	2	3	12.00833	2	NW	2	12.00833	251	1.3		12.09333	240	1.5		1		S	0	4	
1/23/2007	IML	2	3	12.09972	2	NW	2	0.00000	0	0.0		12.09972	240	2.0		1		S	0	1	
1/23/2007	IML	2	3	12.13583	2	NW	2	12.13583	260	6.7		12.23056	215	6.8		2		S	0	4	
1/23/2007	IML	2	3	12.15083	2	NW	2	0.00000	0	0.0		12.15083	255	1.7		1		S	0	1	
1/23/2007	IML	2	3	12.26139	2	NW	2	2.00000	0	0.0		12.26139	235	1.4		1		S	0	1	
1/23/2007	IML	2	3	12.28917	2	NW	2	0.00000	0	0.0		12.28917	225	1.0		2		S	0	1	
1/23/2007	IML	2	3	12.28917	2	NW	2	0.00000	0	0.0		12.28917	225	0.2		1		S	0	1	
1/23/2007	IML	2	3	12.29194	2	NW	2	0.00000	0	0.0		12.29194	235	1.5		1		S	0	1	
1/23/2007	IML	2	3	12.32278	2	NW	2	12.31722	243	0.9		12.34806	240	0.9		2		S	0	2	
1/23/2007	IML	2	3	12.40306	2	NW	2	12.40306	253	1.8		12.49361	237	1.8		1		S	0	2	
1/23/2007	IML	2	3	12.44750	2	NW	2	0.00000	0	0.0		12.44750	231	2.2		2		S	0	1	
1/23/2007	IML	2	3	12.51139	2	NW	2	0.00000	0	0.0		12.51139	260	0.9		2		S	0	1	
1/23/2007	IML	2	2	12.51167	1	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	IML	2	3	12.74361	1	NW	2	12.74361	247	1.2		12.78583	240	1.2		8		S	0	2	
1/23/2007	IML	2	3	12.94889	1	NW	2	12.94889	246	3.0		12.96750	240	3.1		2		S	0	3	
1/23/2007	IML	2	3	13.03361	1	NW	2	13.03361	267	1.8		13.15361	245	1.8		2		S	0	5	
1/23/2007	IML	2	3	13.17056	1	NW	2	13.17056	255	0.8		13.40556	233	1.2		4		S	0	4	SEE NOTES
1/23/2007	IML	2	3	13.17750	1	NW	2	13.17750	255	1.0		13.40556	233	1.2		5		S	0	3	
1/23/2007	IML	2	3	13.23361	1	NW	2	0.00000	0	0.0		13.23361	225	2.0		2		S	0	1	
1/23/2007	IML	2	3	13.27111	1	NW	2	0.00000	0	0.0		13.27111	262	1.2		1		S	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/23/2007	IML	2	3	13.39167	1	NW	2	13.39167	245	1.2		13.55972	236	1.5		2		S	0	1		
1/23/2007	IML	2	5	13.50000	1	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/23/2007	SLR	1	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"B13509; A315"
1/23/2007	SLR	1	8	13.56944	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		FISHING TYPE BOAT AT RET 0.9 N BOUND ABOUT 30' LONG
1/23/2007	SLR	1	3	13.60278	2	NW	2	0.00000	0	0.0		13.60278	240	1.6		1		S	0	2		
1/23/2007	SLR	1	3	13.73056	2	NW	2	0.00000	0	0.0		13.73056	245	1.5		1		S	0	3		
1/23/2007	SLR	1	3	13.79444	2	NW	2	0.00000	0	0.0		13.79444	245	1.6		1		S	0	1		
1/23/2007	SLR	1	3	13.85000	2	NW	2	0.00000	0	0.0		13.85000	241	1.5		2		S	0	5		
1/23/2007	SLR	1	3	13.85278	2	NW	2	13.85278	258	2.3	E	13.96667	230	2.6		2		S	0	2		
1/23/2007	SLR	1	3	14.00000	2	NW	2	14.00000	266	1.4		14.19722	243	1.9		4		S	0	5		ALL 4 FLUKED UP
1/23/2007	SLR	1	3	14.06667	2	NW	2	14.06667	271	1.0	E	14.34722	240	1.6		1		S	0	3		
1/23/2007	SLR	1	3	14.28611	2	NW	2	14.28611	253	1.8		14.40833	240	1.7		5		S	0	4		ALL 5 FLUKED UP AT N & S SIGHTINGS
1/23/2007	SLR	1	3	14.45000	2	NW	2	0.00000	0	0.0		14.45000	233	0.2		4		S	0	2		"4 BLOWS SIMULTANEOUSLY, AGAIN AT 210A EST."
1/23/2007	SLR	1	3	14.56667	2	NW	2	14.56667	253	1.2		14.70000	241	1.3		2		S	0	3		BOTH FLUKED UP AT A250
1/23/2007	SLR	1	3	14.66667	2	NW	2	0.00000	0	0.0		14.66667	240	2.1		1		S	0	2		
1/23/2007	SLR	1	4	14.83333	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"HORIZON DARK FROM RET 1.5 UP AT 241A; WIDER TOWARDS N; HAZE GLARE"
1/23/2007	SLR	1	3	14.90000	2	NW	2	14.90000	258	4.0		15.05000	231	3.8		2		S	0	3		"NOT SURFACING SIMULTANEOUSLY, 1 WHALE BEHIND THE OTHER 250 & 253 ANGLES"
1/23/2007	SLR	1	3	15.06667	2	NW	2	0.00000	0	0.0		15.06667	241	1.9		4		S	0	3		
1/23/2007	SLR	1	3	15.18333	2	NW	2	0.00000	0	0.0		15.18333	245	1.6		1		S	0	2		
1/23/2007	SLR	1	3	15.20833	2	NW	2	0.00000	0	0.0		15.20833	240	1.3		2		S	0	4		
1/23/2007	SLR	1	4	15.21667	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"HORIZON LIGHTENED, GLARE INCREASING TOWARDS 241A"
1/23/2007	SLR	1	3	15.33333	2	NW	2	0.00000	0	0.0		15.33333	240	1.8		6		S	0	5		"ACTIVE FLUKE SIDEWAYS SUBMERGE, TRAVELING IN A LINE"
1/23/2007	SLR	1	3	15.41667	2	NW	2	15.41667	265	2.5	E	15.55000	240	2.6		2		S	0	4		
1/23/2007	SLR	1	3	15.65000	2	NW	2	15.65000	270	0.9		15.95556	241	1.1		2		S	0	4		
1/23/2007	SLR	1	3	15.76667	2	NW	2	15.76667	281	1.4		15.98611	242	1.9		2		S	0	7		
1/23/2007	SLR	1	2	15.81083	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/23/2007	SLR	1	3	16.03333	3	NW	3	16.03333	252	2.2	E	16.06667	243	2.3		2		S	0	3		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/23/2007	SLR	1	3	16.05972	3	NW	3	0.00000	0	0.0		16.05972	240	4.0		2		S	0	2	
1/23/2007	SLR	1	2	16.12694	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	SLR	1	3	16.15000	3	NW	4	16.15000	265	1.4		16.26111	246	1.5	E	2		S	0	2	GOOD TRACKING BUT SOME POD CONFUSION AT 241 LINE
1/23/2007	SLR	1	3	16.21667	3	NW	4	16.21667	265	1.4		16.33333	242	1.5		4		S	0	4	
1/23/2007	SLR	1	3	16.21944	3	NW	4	16.21944	265	1.0		16.38056	241	1.2		2		S	0	6	
1/23/2007	SLR	1	5	16.50000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	IML	1	1	7.34694	4	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315 BLUE SKY, FOG ON HORIZON, GLARE AND HAZE EVERYWHERE"
1/24/2007	IML	1	3	7.39000	4	S	2	7.39000	251	2.0		7.44750	240	2.0		4		S	0	4	
1/24/2007	IML	1	3	7.47444	4	S	2	7.47444	272	2.4		7.66167	232	2.8		3		S	0	4	
1/24/2007	IML	1	3	7.53083	4	S	2	7.53083	257	1.8		7.62083	232	1.9		3		S	0	2	
1/24/2007	IML	1	3	7.73889	4	S	2	7.73889	267	2.0		7.86972	237	2.2		3		S	0	3	
1/24/2007	IML	1	3	8.05750	4	S	2	0.00000	0	0.0		8.05750	225	3.8		2		S	0	1	
1/24/2007	IML	1	3	8.24861	4	S	2	8.24861	263	1.2	E	8.37250	240	1.5		1		S	0	2	RET ESTIMATED
1/24/2007	IML	1	3	8.31861	4	S	2	0.00000	0	0.0		8.31861	249	2.6		2		S	0	1	
1/24/2007	IML	1	2	8.39250	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	IML	1	3	8.43000	3	S	2	8.43000	264	1.7		8.5028	240	1.9		3		S	0	6	
1/24/2007	IML	1	5	8.55972	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RSTROOM BRAKE
1/24/2007	IML	1	1	8.61944	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	IML	1	2	8.67667	2	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MUCH IMPROVED CONTRAST
1/24/2007	IML	1	3	8.68972	2	S	2	8.68972	272	1.8		8.82917	245	1.9		2		S	0	3	
1/24/2007	IML	1	3	8.80639	2	S	2	0.00000	0	0.0		8.80639	267	1.5		1		S	0	1	
1/24/2007	IML	1	3	8.97778	2	S	2	8.97778	268	2.5		9.19361	210	2.3		1		S	0	2	
1/24/2007	IML	1	3	9.01056	2	S	2	9.01056	252	2.5		9.06139	243	2.6		1		S	0	2	
1/24/2007	IML	1	2	9.19167	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE & GLARE = POOR CONTRAST EVERYWHERE
1/24/2007	IML	1	3	9.21028	3	S	2	0.00000	0	0.0		9.21028	229	1.5		1		S	0	1	
1/24/2007	IML	1	3	9.33806	3	S	2	9.33806	272	2.0		9.47000	241	2.4		1		S	0	3	
1/24/2007	IML	1	3	9.38000	3	S	2	9.38000	283	1.3		9.59750	241	2.0		1		S	0	2	
1/24/2007	IML	1	3	9.41889	3	S	2	9.41889	278	1.0		9.77778	230	1.3		2		S	0	3	
1/24/2007	IML	1	3	9.66667	3	S	2	9.66667	277	0.8		9.92250	250	1.2		6		S	0	4	
1/24/2007	IML	1	3	9.80444	3	S	2	9.80444	252	2.0		9.98111	234	1.8		2		S	0	2	
1/24/2007	IML	1	3	9.97528	3	S	2	0.00000	0	0.0		9.97528	241	1.0		2		S	0	1	
1/24/2007	IML	1	3	10.15167	3	S	2	0.00000	0	0.0		10.15167	240	1.2		2		S	0	2	
1/24/2007	IML	1	3	10.18417	3	S	2	0.00000	0	0.0		10.18417	235	1.2		2		S	0	1	
1/24/2007	IML	1	3	10.21028	3	S	2	10.21028	252	1.5		10.35556	235	1.5		9		S	0	3	
1/24/2007	IML	1	3	10.30500	3	S	2	10.30500	250	1.8		10.41583	235	1.8		2		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/24/2007	IML	1	3	10.31667	3	S	2	10.31667	253	1.7		10.39972	236	1.7		3		S	0	2	
1/24/2007	IML	1	5	10.50000	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	SDN	2	1	10.50028	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	SDN	2	3	10.55056	3	S	2	10.55056	272	1.0		10.85278	236	1.0		6		S	0	6	
1/24/2007	SDN	2	3	10.63028	3	S	2	10.63028	272	1.2		10.90722	242	1.4		1		S	0	3	
1/24/2007	SDN	2	3	10.79667	3	S	2	10.79667	271	1.5		11.00333	237	1.5		2		S	0	3	
1/24/2007	SDN	2	3	11.22556	3	S	2	0.00000	0	0.0		11.22556	236	1.5		1		S	0	1	
1/24/2007	SDN	2	3	11.50694	3	S	2	11.50694	247	2.5		11.56472	233	2.5		1		S	0	2	
1/24/2007	SDN	2	3	11.60944	3	S	2	11.60944	282	1.1		11.86694	242	1.0		3		S	0	6	
1/24/2007	SDN	2	3	11.70917	3	S	2	0.00000	0	0.0		11.70917	237	2.0		1		S	0	1	
1/24/2007	SDN	2	3	11.72472	3	S	2	11.72472	271	1.0		11.93056	241	1.0		4		S	0	5	
1/24/2007	SDN	2	6	12.07917	3	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LARGE GROUP OF DOLPHINS
1/24/2007	SDN	2	3	12.10222	3	S	2	0.00000	0	0.0		12.10222	240	2.0		1		M	0	3	
1/24/2007	SDN	2	3	12.19000	3	S	2	0.00000	0	0.0		12.19000	243	0.6		1		S	0	1	
1/24/2007	SDN	2	2	12.20056	2	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	SDN	2	3	12.21250	2	S	2	0.00000	0	0.0		12.21250	238	1.8		1		S	0	1	
1/24/2007	SDN	2	3	12.26472	2	S	2	12.26472	248	1.0		12.35639	236	1.0		1		S	0	2	
1/24/2007	SDN	2	5	12.76750	2	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
1/24/2007	SDN	2	1	12.82083	2	S	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/24/2007	SDN	2	3	12.84944	2	S	2	12.84944	270	2.5		12.94333	242	2.7		1		S	1	7	
1/24/2007	SDN	2	3	13.01861	2	S	2	13.01861	280	11.0		13.05639	242	13.0		1		S	0	2	
1/24/2007	SDN	2	3	13.11556	2	S	2	0.00000	0	0.0		13.11556	224	2.2		2		S	0	1	
1/24/2007	SDN	2	3	13.30417	2	S	2	13.30417	248	3.5		13.34500	237	3.5		1		S	0	2	
1/24/2007	SDN	2	2	13.46861	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/24/2007	SDN	2	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/24/2007	SLR	2	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315"
1/24/2007	SLR	2	3	13.56667	3	NW	2	0.00000	0	0.0		13.56667	248	3.8		1		S	0	2	
1/24/2007	SLR	2	3	13.65278	3	NW	2	0.00000	0	0.0		13.65278	245	4.5		2		S	0	2	
1/24/2007	SLR	2	3	13.78333	3	NW	2	0.00000	0	0.0		13.78333	240	1.7		2		S	1	0	"ACTIVITY IN POD, KIND OF A HALF BREACH BEHAVIOR"
1/24/2007	SLR	2	3	13.85000	3	NW	2	0.00000	0	0.0		13.85000	238	1.7		2		S	0	0	
1/24/2007	SLR	2	3	13.86944	3	NW	2	0.00000	0	0.0		13.86944	239	1.7		1		S	0	0	SEVERAL PODS TRAVELING ON SAME RET
1/24/2007	SLR	2	3	13.90000	3	NW	2	0.00000	0	0.0		13.90000	245	5.0		2		S	0	5	ALL SOUTH CUES
1/24/2007	SLR	2	3	13.92222	3	NW	2	0.00000	0	0.0		13.92222	241	1.7		1		S	0	0	
1/24/2007	SLR	2	3	13.94722	3	NW	2	0.00000	0	0.0		13.94722	241	1.6		1		S	0	0	
1/24/2007	SLR	2	3	14.10000	3	NW	2	14.10000	260	1.0		14.26667	238	1.0		1		S	0	4	
1/24/2007	SLR	2	2	14.11222	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LESS GLARE
1/24/2007	SLR	2	3	14.22639	2	NW	2	0.00000	0	0.0		14.22639	241	0.3		3		S	0	2	
1/24/2007	SLR	2	3	14.37778	2	NW	2	0.00000	0	0.0		14.37778	233	3.8		2		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/24/2007	SLR	2	3	14.45000	2	NW	2	0.00000	0	0.0		14.45000	225	6.7		1		S	0	2	"FUZZY HORIZON, HIGH GLARE AND HAZE"	
1/24/2007	SLR	2	4	14.67083	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		ALL RET'S EST NOW DUE TO UNCLEAR HORIZON
1/24/2007	SLR	2	3	14.76944	2	NW	2	0.00000	0	0.0		14.76944	251	2.6	E	1		S	0	1		BREACHING WHALE N SIGHTING
1/24/2007	SLR	2	3	14.86667	2	NW	2	14.86667	253	0.8	E	14.95000	244	0.8	E	4		S	0	5		"2 WHALES FLUKED UP HORIZON STILL HAZE & GLARE BUT CAN SEE A LINE NOW"
1/24/2007	SLR	2	3	14.89722	2	NW	2	14.89722	264	1.2	E	15.01111	241	1.4	E	4		S	1	3		GLARE HIGH TOWARDS 241 A
1/24/2007	SLR	2	3	14.91667	2	NW	2	14.91667	256	1.2	E	15.03333	241	1.2	E	2		S	0	3		BOTH WHALES FLUKED UP
1/24/2007	SLR	2	3	15.10833	2	NW	2	0.00000	0	0.0		15.10833	241	1.6		2		S	0	2		GLARE HIGH TOWARDS 241 A
1/24/2007	SLR	2	3	15.13611	2	NW	2	0.00000	0	0.0		15.13611	243	1.8		1		S	0	0		BOTH WHALES FLUKED UP
1/24/2007	SLR	2	2	15.21639	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/24/2007	SLR	2	3	15.23333	3	NW	3	15.23333	257	1.2		15.37917	240	1.4		2		S	0	3		
1/24/2007	SLR	2	3	15.26111	3	NW	3	0.00000	0	0.0		15.26111	240	2.9		1		S	0	4		
1/24/2007	SLR	2	3	15.48333	3	NW	3	0.00000	0	0.0		15.48333	238	1.6		1		S	0	3		
1/24/2007	SLR	2	3	15.81250	3	NW	3	15.81250	256	1.1		15.95139	241	1.1		3		S	0	8		
1/24/2007	SLR	2	3	15.83333	3	NW	3	0.00000	0	0.0		15.83333	250	2.3		2		S	0	2		BOTH FLUKED UP AT 262 A
1/24/2007	SLR	2	4	15.99083	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		HIGH GLARE SOUTH TOWARDS 250 A
1/24/2007	SLR	2	3	16.01250	3	NW	3	16.01250	263	1.3		16.15000	245	1.7	E	8		S	0	3		"8 WHALES FLUKED UP, HORIZON FOGGED IN, SOUTH AREA SIGHTINGS"
1/24/2007	SLR	2	3	16.05000	3	NW	3	0.00000	0	0.0		16.05000	236	2.3		2		S	0	1		"DON'T THINK IT'S 1550 POD, TOO LATE"
1/24/2007	SLR	2	2	16.27778	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		VERY HIGH GLARE NOW
1/24/2007	SLR	2	3	16.40000	4	NW	3	0.00000	0	0.0		16.40000	258	4.2		1		S	0	2		"FIRST SEEN 289 A, ABOUT 6 BLOWS TRAVELING AT SURFACE THEN FLUKE UP 256A"
1/24/2007	SLR	2	3	16.48333	4	NW	3	0.00000	0	0.0		16.48333	263	1.0		1		S	0	1		
1/24/2007	SLR	2	5	16.52778	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/25/2007	SDN	2	1	7.45167	4	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		"HEAVY HAZE, LIGHT FOG"
1/25/2007	SDN	2	3	7.81278	4	W	2	7.81278	269	1.0		8.14833	239	1.0		10		S	0	4		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/25/2007	SDN	2	3	8.19611	4	W	2	0.00000	0	0.0		8.19611	238	2.3	1			S	0	1	
1/25/2007	SDN	2	3	8.21500	4	W	2	0.00000	0	0.0		8.21500	234	1.0	1			S	0	1	
1/25/2007	SDN	2	3	8.34056	4	W	2	8.34056	252	3.6		8.40750	233	3.6	E			S	0	3	
1/25/2007	SDN	2	5	8.47972	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	RESTROOM
1/25/2007	SDN	2	1	8.52111	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/25/2007	SDN	2	3	8.66111	4	W	2	0.00000	0	0.0		8.66111	232	1.0	6			S	0	1	
1/25/2007	SDN	2	3	9.12833	4	W	2	9.12833	260	1.5		9.2306	242	1.5	3			S	0	6	
1/25/2007	SDN	2	3	9.31500	4	W	2	9.31500	282	1.0		9.54861	242	1.5	3			S	0	11	
1/25/2007	SDN	2	3	9.60389	4	W	2	9.60389	259	1.0		9.71889	243	1.2	1			S	0	2	
1/25/2007	SDN	2	3	9.61972	4	W	2	9.61972	262	2.1		9.74889	245	2.2	1			S	0	2	
1/25/2007	SDN	2	5	9.75944	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	RESTROOM
1/25/2007	SDN	2	1	9.81111	4	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/25/2007	SDN	2	2	9.85417	3	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"HAZE, GLARE DOWN A BIT"
1/25/2007	SDN	2	3	10.18861	3	W	2	10.18861	282	1.0		10.44694	242	1.8	3			S	0	6	VIS WORSE < 1 RETICLE
1/25/2007	SDN	2	3	10.35278	3	W	2	10.35278	274	1.4		10.50944	241	1.8	1			S	0	2	
1/25/2007	SDN	2	5	10.50000	3	W	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	END WATCH
1/25/2007	IML	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"B13509, A315.5 BLUE SKY, BTN R 0-1.0, HAZE AND GLARE EVERYWHERE"
1/25/2007	IML	1	4	10.80667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	FORCE 3 BTN RET 0-2
1/25/2007	IML	1	3	10.86667	3	NW	2	10.86667	254	1.0		10.96389	238	1.1	1			S	0	3	
1/25/2007	IML	1	3	10.86667	3	NW	2	10.86667	253	1.5	E	10.97611	239	1.9	1			S	0	3	RET ESTM
1/25/2007	IML	1	3	11.03361	3	NW	2	1.00000	0	0.0		10.03361	278	0.3	E	2		S	0	1	RET ESTM
1/25/2007	IML	1	3	11.05417	3	NW	2	11.05417	273	6.9		11.15944	201	5.0	1			S	0	2	
1/25/2007	IML	1	3	11.20833	3	NW	2	0.00000	0	0.0		11.20833	268	1.0	1			S	0	1	
1/25/2007	IML	1	3	11.24944	3	NW	2	0.00000	0	0.0		11.24944	225	11.0	1			S	0	1	
1/25/2007	IML	1	2	11.33944	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/25/2007	IML	1	3	11.38917	3	NW	3	11.38917	260	1.0	E	11.49917	235	1.3	2			S	0	2	RET ESTM
1/25/2007	IML	1	3	11.40250	3	NW	3	0.00000	0	0.0		11.40250	270	1.0	E	1		S	0	1	RET ESTM
1/25/2007	IML	1	3	11.44167	3	NW	3	11.44167	260	0.8	E	11.60583	240	1.0	2			S	0	2	RET ESTM
1/25/2007	IML	1	3	11.57778	3	NW	3	0.00000	0	0.0		11.57778	241	1.0	1			S	0	1	
1/25/2007	IML	1	3	11.68611	3	NW	3	0.00000	0	0.0		11.68611	273	1.0	E	1		S	0	1	RET ESTM
1/25/2007	IML	1	3	11.79889	3	NW	3	11.79889	246	1.5		11.82694	239	1.5	2			S	0	1	
1/25/2007	IML	1	3	11.86083	3	NW	3	11.86083	249	2.1		11.87361	242	2.2	1			S	0	2	
1/25/2007	IML	1	2	12.99889	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/25/2007	IML	1	3	12.37333	3	NW	2	12.37333	282	1.4		12.71028	237	2.0	7			S	0	7	
1/25/2007	IML	1	3	12.97250	3	NW	2	0.00000	0	0.0		12.97250	272	0.5	E	1		S	0	1	RET ESTM
1/25/2007	IML	1	3	13.05861	3	NW	2	0.00000	0	0.0		13.05861	265	0.8	E	1		S	1	1	"BRECH = CUE, RET AND ANGLE ESTM"
1/25/2007	IML	1	3	13.11972	3	NW	2	13.11972	291	3.0		13.26861	241	5.0	2			S	0	5	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/25/2007	IML	1	2	13.29833	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG > RET 1.0
1/25/2007	IML	1	3	13.43194	4	NW	2	0.00000	0	0.0		13.43194	203	2.5		1		S	0	1	
1/25/2007	IML	1	5	13.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/25/2007	CDV	1	1	13.50028	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BINOCS 13509 315.5 HORIZON OBSCURED BY FOG. VERY POOR VIS TO 2 RETS APPROX.
1/25/2007	CDV	1	3	14.00972	4	NW	2	14.00972	262	1.0		14.31167	242	1.1		3		S	1	2	
1/25/2007	CDV	1	3	14.20056	4	NW	2	0.00000	0	0.0		14.20056	245	0.5		1		S	0	1	
1/25/2007	CDV	1	3	14.31083	4	NW	2	0.00000	0	0.0		14.31083	240	3.0		1		S	0	1	
1/25/2007	CDV	1	3	14.34417	4	NW	2	0.00000	0	0.0		14.34417	242	1.2		5		S	0	3	
1/25/2007	CDV	1	3	14.54167	4	NW	2	0.00000	0	0.0		14.54167	242	1.5		1		S	0	0	
1/25/2007	CDV	1	3	14.57250	4	NW	2	0.00000	0	0.0		14.57250	230	1.0		1		S	0	0	
1/25/2007	CDV	1	3	14.62722	4	NW	2	0.00000	0	0.0		14.62722	275	4.5		1		S	0	0	
1/25/2007	CDV	1	3	14.67417	4	NW	2	14.67417	261	2.2		14.75861	238	2.5		2		S	0	3	
1/25/2007	CDV	1	3	14.74833	4	NW	2	14.74833	251	1.0		14.83444	242	1.1		1		S	0	0	
1/25/2007	CDV	1	3	14.93222	4	NW	2	14.93222	275	3.2		15.06333	235	3.4		1		S	0	2	
1/25/2007	CDV	1	3	15.12639	4	NW	2	15.12639	285	1.1		15.45222	238	2.8		2		S	0	4	
1/25/2007	CDV	1	3	15.32806	4	NW	2	15.32806	274	2.8		15.47889	240	3.2		2		S	1	2	
1/25/2007	CDV	1	3	15.33528	4	NW	2	15.33528	268	1.8		15.51306	225	2.0		2		S	0	1	
1/25/2007	CDV	1	3	15.40806	4	NW	2	15.40806	258	1.2		15.53694	238	1.2		2		S	0	2	
1/25/2007	CDV	1	3	15.49278	4	NW	2	15.49278	289	1.4		15.79028	244	1.4		1		S	0	0	
1/25/2007	CDV	1	3	15.59111	4	NW	2	15.59111	258	1.7		15.81472	242	1.7		2		S	0	0	
1/25/2007	CDV	1	3	15.73194	4	NW	2	15.73194	268	2.7		15.81917	242	3.1		5		S	0	0	
1/25/2007	CDV	1	3	15.76694	4	NW	2	15.76694	257	1.7		15.85333	243	2.1		1		S	0	0	
1/25/2007	CDV	1	3	15.88722	4	NW	2	15.88722	258	2.2		15.93972	238	2.2		1		S	0	0	
1/25/2007	CDV	1	3	15.91833	4	NW	2	15.91833	252	1.1		15.98167	242	1.2		1		S	0	0	
1/25/2007	CDV	1	3	16.02000	4	NW	2	16.02000	256	1.8		16.14306	242	1.8		16		S	0	0	
1/25/2007	CDV	1	3	16.04167	4	NW	2	16.04167	262	3.8		16.09250	242	4.0		1		S	0	0	
1/25/2007	CDV	1	3	16.10639	4	NW	2	0.00000	0	0.0		16.10639	244	1.2		1		S	0	0	
1/25/2007	CDV	1	2	16.21667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/25/2007	CDV	1	3	16.24889	3	NW	2	16.24889	272	1.9		16.44667	240	2.4		2		S	0	0	
1/25/2007	CDV	1	3	16.27056	3	NW	2	16.27056	266	1.8		16.42222	242	2.2		1		S	0	0	
1/25/2007	CDV	1	5	16.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/26/2007	CDV	2	1	7.50000	4	E	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	13509
1/26/2007	CDV	2	3	7.55694	4	E	2	7.55694	295	1.6		7.88444	238	1.7		1		S	0	0	
1/26/2007	CDV	2	3	7.79167	4	E	2	0.00000	0	0.0		7.79167	232	3.0		2		S	0	0	
1/26/2007	CDV	2	3	7.93917	4	E	2	0.00000	0	0.0		7.93917	245	4.0		1		S	0	1	
1/26/2007	CDV	2	3	8.00722	4	E	2	8.00722	248	2.5		8.03333	242	2.5		1		S	0	1	
1/26/2007	CDV	2	3	8.03861	4	E	2	0.00000	0	0.0		8.03861	242	2.5		1		S	0	2	
1/26/2007	CDV	2	3	8.14278	4	E	2	8.14278	279	1.5		8.32111	243	1.8		4		S	0	1	
1/26/2007	CDV	2	3	8.16056	4	E	2	8.16056	262	1.5		8.26528	243	1.7		2		S	1	0	
1/26/2007	CDV	2	3	8.16083	4	E	2	8.16083	264	1.5		8.28750	239	1.7		2		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/26/2007	CDV	2	3	8.46583	4	E	2	0.00000	0	0.0		8.46583	250	6.0		2		S	0	2	
1/26/2007	CDV	2	2	8.50000	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	CDV	2	3	8.63806	3	N	2	0.00000	0	0.0		8.63806	232	4.5		1		S	0	2	HIGHLY SUSPECT CALF WITH ADULT'S BEHAVIOR
1/26/2007	CDV	2	3	8.83028	3	N	2	8.83028	257	1.5		8.92139	242	1.5		2		S	0	2	
1/26/2007	CDV	2	3	9.10528	3	N	2	9.10528	265	1.5		9.26000	233	1.7		1		S	0	0	
1/26/2007	CDV	2	3	9.12361	3	N	2	0.00000	0	0.0		9.12361	228	1.2		1		S	0	0	
1/26/2007	CDV	2	3	9.18194	3	N	2	9.18194	270	1.2		9.35556	245	1.5		3		S	0	0	
1/26/2007	CDV	2	5	9.39861	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK
1/26/2007	CDV	2	1	9.44944	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	CDV	2	3	9.50833	3	N	2	0.00000	0	0.0		9.50833	220	6.5		2		S	0	3	
1/26/2007	CDV	2	3	9.61111	3	N	2	9.61111	277	4.0		9.75833	252	6.0		1		S	0	0	
1/26/2007	CDV	2	3	9.90417	3	N	2	0.00000	0	0.0		9.90417	250	4.8		1		S	0	0	
1/26/2007	CDV	2	3	9.92472	3	N	2	0.00000	0	0.0		9.92472	229	3.8		1		S	0	1	
1/26/2007	CDV	2	3	9.96250	3	N	2	9.96250	262	2.4		10.06556	232	2.5		1		S	0	0	
1/26/2007	CDV	2	3	10.07639	3	N	2	10.07639	276	1.4		10.28278	239	1.8		1		S	0	0	
1/26/2007	CDV	2	3	10.09861	3	N	2	10.09861	275	2.5		10.23194	242	2.8		2		S	0	0	
1/26/2007	CDV	2	3	10.20972	3	N	2	10.20972	281	1.0		10.49972	240	1.3		4		S	0	0	
1/26/2007	CDV	2	3	10.49972	3	N	2	0.00000	0	0.0		10.49972	236	1.0		1		S	0	0	
1/26/2007	CDV	2	5	10.50000	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	SDN	2	1	10.50028	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	SDN	2	3	10.86894	3	N	2	10.86894	272	1.6		11.03056	235	1.8		1		S	0	5	
1/26/2007	SDN	2	3	11.10861	3	N	2	11.10861	279	1.8		11.42250	231	1.8		3		S	0	4	
1/26/2007	SDN	2	3	11.25583	3	N	2	0.00000	0	0.0		11.25583	238	2.4		1		S	0	1	
1/26/2007	SDN	2	3	11.26917	3	N	2	11.26917	262	1.5		11.33250	250	1.5		2		S	0	3	
1/26/2007	SDN	2	3	11.37083	3	N	2	11.37083	272	2.0		11.60472	234	2.0		4		S	0	6	
1/26/2007	SDN	2	3	11.49944	3	N	2	11.49944	264	2.0		11.60500	238	2.0		1		S	0	4	
1/26/2007	SDN	2	3	11.58361	3	N	2	11.58361	254	1.5		11.69444	242	1.5		1		S	0	3	
1/26/2007	SDN	2	3	11.64806	3	N	2	11.64806	252	1.6		11.80667	232	1.5		1		S	0	2	
1/26/2007	SDN	2	2	12.15472	4	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING FOR ROLLING IN
1/26/2007	SDN	2	2	12.31583	5	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	VIS AT ZERO< 2 RETICLE NORTH OF 240
1/26/2007	SDN	2	3	12.36444	5	N	3	0.00000	0	0.0		12.36444	244	2.2		1		S	0	1	
1/26/2007	SDN	2	3	12.42139	5	N	3	12.42139	250	1.5	E	12.43361	245	1.5		1		S	0	2	
1/26/2007	SDN	2	4	12.51500	5	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	UNABLE TO DETERMINE RETICLE BECAUSE HORIZON BLOCKED BY FOG
1/26/2007	SDN	2	3	12.57333	5	N	3	0.00000	0	0.0		12.57333	253	1.0	E	1		S	0	1	
1/26/2007	SDN	2	2	12.66833	6	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG HAS REACHED THE SHORE. VIS AT

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/26/2007	SDN	2	5	13.03333	6	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	ZERO
1/26/2007	IML	1	1	13.41639	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/26/2007	IML	1	3	13.53694	3	SW	3	13.53694	269	2.0	E	13.69167	239	1.5		5		S	0	4	"B13509, A315, FOGGY HORIZON, OVERCAST"
1/26/2007	IML	1	3	13.65667	3	SW	3	13.65667	260	2.0	E	13.74889	233	2.0		1		S	0	2	RET ESTM
1/26/2007	IML	1	4	13.75528	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	CLEAR HORIZON ON THE LINE +/- 30 DEGREES
1/26/2007	IML	1	3	13.78889	3	SW	3	13.78889	246	1.9		13.81500	240	2.0		3		S	0	2	
1/26/2007	IML	1	3	13.80944	3	SW	3	0.00000	0	0.0		13.80944	245	2.0		1		S	0	3	
1/26/2007	IML	1	3	13.90028	3	SW	3	13.90028	257	1.8		14.01722	238	2.0	E	6		S	0	3	RET ESTM
1/26/2007	IML	1	3	14.00333	3	SW	3	0.00000	0	0.0		14.00333	243	3.0	E	1		S	0	1	RET SETM
1/26/2007	IML	1	4	14.05306	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG ON HORIZON <0.5
1/26/2007	IML	1	3	14.08444	3	SW	3	0.00000	0	0.0		14.08444	279	1.0		1		S	0	1	
1/26/2007	IML	1	2	14.17222	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	CLEAR HORIZON ON 241
1/26/2007	IML	1	3	14.24194	3	SW	4	0.00000	0	0.0		14.24194	278	1.5	E	2		S	0	2	RET ESTM
1/26/2007	IML	1	3	14.29972	3	SW	4	14.29972	260	1.5		14.42500	241	1.6	E	1		S	0	3	RET ESTM
1/26/2007	IML	1	3	14.32306	3	SW	4	14.32306	262	1.8		14.39750	240	2.0	E	3		S	0	5	RET ESTM
1/26/2007	IML	1	3	14.47306	3	SW	4	0.00000	0	0.0		14.47306	240	1.4	E	1		S	0	1	RET ESTM
1/26/2007	IML	1	3	14.48389	3	SW	4	0.00000	0	0.0		14.48389	222	3.8	E	1		S	0	1	RET ESTM
1/26/2007	IML	1	2	14.54417	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG > 2.0 AND COMING CLOSER
1/26/2007	IML	1	3	14.68889	4	SW	4	0.00000	0	0.0		14.68889	235	1.2	E	2		S	0	2	
1/26/2007	IML	1	3	14.81306	4	SW	4	0.00000	0	0.0		14.81306	252	2.0	E	1		S	0	1	RET ESTM
1/26/2007	IML	1	4	14.95389	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CANT EVEN ESTM RET. TOO MUCH FOG"
1/26/2007	IML	1	2	14.98278	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG HAS RETREATED BUT STILL FOG ON HORIZON
1/26/2007	IML	1	3	15.15000	3	SW	3	0.00000	0	0.0		15.15000	240	1.0	E	1		S	0	1	RET ESTM
1/26/2007	IML	1	3	15.19083	3	SW	3	15.19083	250	1.3	E	15.27889	235	1.5	E	1		S	0	2	RET ESTM
1/26/2007	IML	1	3	15.25417	3	SW	3	0.00000	0	0.0		15.25417	233	1.0	E	1		S	0	1	RET ESTM
1/26/2007	IML	1	3	15.59722	3	SW	3	0.00000	0	0.0		15.59722	236	1.0		3		S	0	1	
1/26/2007	IML	1	4	15.69861	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NO FOG JUST HAZE AND OVERCAST STILL
1/26/2007	IML	1	3	15.71056	3	SW	3	15.71056	250	2.0		15.77306	236	2.2		2		S	0	2	
1/26/2007	IML	1	3	16.00083	3	SW	3	16.00083	252	1.9		16.10083	236	2.0		2		S	0	2	
1/26/2007	IML	1	3	16.32056	3	SW	3	16.32056	272	1.8		16.48222	242	2.2		2		S	0	2	
1/26/2007	IML	1	2	16.35667	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	THICK HAZE EVERYWHERE
1/26/2007	IML	1	5	16.50000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/27/2007	SLM	2	1	7.38889	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	SLM	2	3	7.34861	3	NE	2	0.00000	0	0.0		7.34861	228	2.4		2		S	0	2	
1/27/2007	SLM	2	3	7.38639	3	NE	2	7.38639	273	2.8		7.49633	241	4.1		2		S	0	3	
1/27/2007	SLM	2	3	7.41250	3	NE	2	7.41250	275	2.4		7.66778	237	2.8		3		S	0	5	
1/27/2007	SLM	2	3	7.98306	3	NE	2	0.00000	0	0.0		7.98306	240	1.4		2		S	0	2	
1/27/2007	SLM	2	3	8.05861	3	NE	2	8.05861	262	0.9		8.24472	243	1.1		3		S	0	4	
1/27/2007	SLM	2	3	8.06694	3	NE	2	8.06694	281	1.0		8.34250	255	1.1		2	1	S	0	5	
1/27/2007	SLM	2	3	8.13083	3	NE	2	8.13083	278	0.5		8.67778	237	1.0		1		S	0	0	
1/27/2007	SLM	2	3	8.52500	3	NE	2	0.00000	0	0.0		8.52500	254	1.1		3		S	0	0	
1/27/2007	SLM	2	3	8.54639	3	NE	2	8.54639	270	0.6		8.77306	247	1.4		2		S	0	0	
1/27/2007	SLM	2	3	8.75194	3	NE	2	8.75194	266	1.2		8.91083	246	1.2		1		S	0	0	
1/27/2007	SLM	2	3	8.79111	3	NE	2	8.79111	268	1.2		9.05472	239	1.3		2		S	0	0	
1/27/2007	SLM	2	3	8.95528	3	NE	2	8.95528	271	1.1		9.21417	244	1.7		4		S	0	0	
1/27/2007	SLM	2	2	9.10833	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/27/2007	SLM	2	3	9.21556	3	SW	3	9.21556	266	1.3		9.39333	242	1.4		2		S	0	0	
1/27/2007	SLM	2	3	9.34222	3	SW	3	9.34222	271	1.1		9.63867	243	1.1		6		S	0	0	
1/27/2007	SLM	2	4	9.73417	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/27/2007	SLM	2	3	9.80444	3	SW	3	0.00000	0	0.0		9.80444	243	1.5		1		S	0	0	
1/27/2007	SLM	2	3	9.83917	3	SW	3	0.00000	0	0.0		9.83917	244	1.2		2		S	0	0	
1/27/2007	SLM	2	3	9.89750	3	SW	3	0.00000	0	0.0		9.89750	261	1.2		2		S	0	0	
1/27/2007	SLM	2	3	9.98111	3	SW	3	0.00000	0	0.0		9.98111	247	0.8		2	1	S	0	0	
1/27/2007	SLM	2	2	10.03194	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/27/2007	SLM	2	3	10.09444	4	SW	4	10.09444	257	1.2		10.18111	239	1.2		6		S	0	0	
1/27/2007	SLM	2	3	10.27639	4	SW	4	0.00000	0	0.0		10.27639	241	1.3		2		S	0	0	
1/27/2007	SLM	2	2	10.29722	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/27/2007	SLM	2	3	10.32639	3	SW	4	0.00000	0	0.0		10.32639	245	1.2		5		S	0	0	
1/27/2007	SLM	2	3	10.44611	3	SW	4	0.00000	0	0.0		10.44611	239	1.5		2		S	0	0	
1/27/2007	SLM	2	5	10.50000	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/27/2007	CDV	1	1	10.50028	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
1/27/2007	CDV	1	3	10.58222	3	SW	4	10.58222	260	1.2		10.69250	242	1.5		2		S	0	3	.5 RET APART
1/27/2007	CDV	1	3	10.61194	3	SW	4	10.61194	292	1.0		11.08722	242	1.5		1		S	0	2	
1/27/2007	CDV	1	3	10.79750	3	SW	4	10.79750	294	1.0		11.14444	245	1.5		1		S	0	2	
1/27/2007	CDV	1	3	10.84111	3	SW	4	10.84111	279	1.1		11.10139	242	1.5		1		S	0	3	
1/27/2007	CDV	1	3	10.98722	3	SW	4	10.98722	275	1.2		11.22111	239	1.8		2		S	1	3	
1/27/2007	CDV	1	3	11.24917	3	SW	4	0.00000	0	0.0		11.24917	244	1.5		1		S	0	1	
1/27/2007	CDV	1	3	11.35833	3	SW	4	11.35833	249	1.8		11.39222	243	1.8		2		S	0	2	
1/27/2007	CDV	1	3	11.41306	3	SW	4	11.41306	270	1.8	E	11.55806	240	1.5		1		S	0	0	
1/27/2007	CDV	1	3	11.46389	3	SW	4	11.46389	290	1.0		11.68972	241	1.8		1		S	0	0	
1/27/2007	CDV	1	3	11.46444	3	SW	4	11.46444	292	1.0		11.70056	243	2.0		1		S	0	0	
1/27/2007	CDV	1	3	11.49306	3	SW	4	11.49306	255	1.8		11.56083	242	1.8		1		S	0	0	
1/27/2007	CDV	1	3	11.50361	3	SW	4	11.50361	249	1.5		11.56944	242	1.5		1		S	0	0	
1/27/2007	CDV	1	3	11.73333	3	SW	4	11.73333	252	2.0		11.86944	226	2.0		1		S	0	0	
1/27/2007	CDV	1	3	11.73417	3	SW	4	0.00000	0	0.0		11.73417	254	1.2		1		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/27/2007	CDV	1	3	11.79417	3	SW	4	0.00000	0	0.0		11.79417	261	1.8		1		S	0	0	
1/27/2007	CDV	1	3	11.80861	3	SW	4	0.00000	0	0.0		11.80861	248	1.0		1		S	0	0	
1/27/2007	CDV	1	3	11.85833	3	SW	4	0.00000	0	0.0		11.85833	250	1.8		1		S	0	0	
1/27/2007	CDV	1	3	11.94000	3	SW	4	0.00000	0	0.0		11.94000	250	1.8		1		S	0	0	
1/27/2007	CDV	1	3	11.98000	3	SW	4	0.00000	0	0.0		11.98000	240	1.1		1		S	0	0	
1/27/2007	CDV	1	2	12.05028	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK - GRAY OVERCAST MAKING SIGHTINGS DIFFICULT
1/27/2007	CDV	1	5	12.08333	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	CDV	1	1	12.14583	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	CDV	1	3	12.17556	4	SW	4	12.17556	283	0.8		12.44167	257	1.0		2		S	0	2	
1/27/2007	CDV	1	3	12.57778	4	SW	4	12.57778	275	0.5		12.80056	247	1.2		2		S	0	0	
1/27/2007	CDV	1	3	12.85611	4	SW	4	0.00000	0	0.0		12.85611	248	1.5		1		S	0	0	
1/27/2007	CDV	1	3	12.95139	4	SW	4	0.00000	0	0.0		12.95139	242	1.2		4		S	0	0	
1/27/2007	CDV	1	3	12.99194	4	SW	4	0.00000	0	0.0		12.99194	242	1.2		1		S	0	0	
1/27/2007	CDV	1	3	13.03944	4	SW	4	13.03944	272	1.5		13.29139	242	1.5		2		S	1	0	BREACHED FROM 247 - 240
1/27/2007	CDV	1	3	13.05194	4	SW	4	0.00000	0	0.0		13.05194	240	1.2		2		S	0	0	
1/27/2007	CDV	1	3	13.35389	4	SW	4	0.00000	0	0.0		13.35389	239	1.5		2		S	0	0	
1/27/2007	CDV	1	3	13.42833	4	SW	4	0.00000	0	0.0		13.42833	252	1.5		2		S	0	0	
1/27/2007	CDV	1	5	13.50000	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	SDN	1	1	13.50028	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	SDN	1	3	13.66278	4	SW	4	13.66278	276	2.2		14.82028	243	1.6		1		S	0	3	"DARK CLOUD COVER, INCREASING WIND"
1/27/2007	SDN	1	2	13.79000	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/27/2007	SDN	1	3	14.13833	5	SW	4	0.00000	0	0.0		14.13833	238	2.0	E	1		S	0	1	
1/27/2007	SDN	1	3	14.20472	5	SW	4	0.00000	0	0.0		14.20472	239	4.0		1		S	0	1	
1/27/2007	SDN	1	3	14.45722	5	SW	4	14.45722	277	1.5	E	14.70222	241	2.0		2		S	0	5	
1/27/2007	SDN	1	3	14.67944	5	SW	4	14.67944	262	2.0	E	14.77722	243	2.3		1		S	0	3	
1/27/2007	SDN	1	5	14.78333	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
1/27/2007	SDN	1	1	14.84361	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/27/2007	SDN	1	3	14.85833	5	SW	4	0.00000	0	0.0		14.85833	241	1.8		1		S	0	1	
1/27/2007	SDN	1	3	15.00833	5	SW	4	15.00833	271	2.0	E	14.20167	245	2.0	E	1		S	0	3	
1/27/2007	SDN	1	3	15.12167	5	SW	4	0.00000	0	0.0		15.12167	237	1.5		1		S	0	1	
1/27/2007	SDN	1	3	15.69639	5	SW	4	15.69639	266	1.5		15.85111	242	1.3		3		S	0	3	
1/27/2007	SDN	1	5	15.98667	5	SW	4	15.98667	252	2.0		16.04194	249	2.0		1		S	0	2	
1/28/2007	SLM	2	1	16.50250	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/28/2007	SLM	2	1	7.43333	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	SLM	2	8	7.57000	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CROSSED 241, TRAVELING SOUTH, RETICLE 2.8, PRIVATE BOAT"
1/28/2007	SLM	2	3	7.62833	4	SE	2	0.00000	0	0.0		7.62833	250	1.0		2		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/28/2007	SLM	2	3	8.16194	4	SE	2	0.00000	0	0.0		8.16194	232	1.4		1		S	0	1	
1/28/2007	SLM	2	2	8.21944	5	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	SLM	2	3	8.29583	5	SE	2	0.00000	0	0.0		8.29583	252	2.3		1		S	0	1	
1/28/2007	SLM	2	3	9.03111	5	SE	2	0.00000	0	0.0		9.03111	235	1.7		1		S	0	2	
1/28/2007	SLM	2	3	9.06278	5	SE	2	9.06278	254	1.1		9.25222	239	1.2		2		S	0	2	
1/28/2007	SLM	2	3	9.28250	5	SE	2	0.00000	0	0.0		9.28250	242	1.3		2	1	S	0	2	
1/28/2007	SLM	2	2	9.33722	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	SLM	2	2	9.98056	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	SLM	2	3	9.98917	3	SE	2	9.98917	257	0.8		10.11306	246	1.2		1		S	0	2	
1/28/2007	SLM	2	3	10.39611	3	SE	2	0.00000	0	0.0		10.39611	240	1.0		2		S	0	4	
1/28/2007	SLM	2	5	10.50000	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	CDV	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509
1/28/2007	CDV	1	3	10.51111	3	NW	2	10.51111	266	1.4		10.76389	242	1.5		9		S	0	4	
1/28/2007	CDV	1	3	10.60861	3	NW	2	0.00000	0	0.0		10.60861	238	1.1		2		S	0	0	
1/28/2007	CDV	1	3	10.71556	3	NW	2	10.71556	289	0.9		11.20167	228	1.5		4		S	4	0	"BEHAVIORS 4.2, 3.1 AS REACTION TO GRAY GRAMPUS INTERACTION"
1/28/2007	CDV	1	3	10.75917	3	NW	2	0.00000	0	0.0		10.75917	241	2.1		1		S	0	1	
1/28/2007	CDV	1	3	10.80000	3	NW	2	0.00000	0	0.0		10.80000	230	0.9		2		S	0	0	
1/28/2007	CDV	1	3	10.94389	3	NW	2	10.94389	285	3.0		11.09611	242	4.0		1		S	0	0	
1/28/2007	CDV	1	3	10.94417	3	NW	2	10.94417	286	3.0		11.09611	243	4.0		1		S	0	0	
1/28/2007	CDV	1	6	11.00000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	APPROX 100 GRAY GRAMPUS TRAVELING FROM 270 - 242 FROM 1 - 4 RETS.
1/28/2007	CDV	1	6	11.18333	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	100+ GRAMPUS SEE DATA SHEET FOR DETAILS
1/28/2007	CDV	1	6	11.46667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GRAMPUS SEE DATA SHEET FOR DETAILS
1/28/2007	CDV	1	3	11.80472	3	NW	2	11.80472	277	3.0		11.99472	246	3.8		2	2	S	0	1	MOVING VERY SLOWLY
1/28/2007	CDV	1	3	11.82167	3	NW	2	0.00000	0	0.0		11.82167	276	0.2		1		S	0	0	
1/28/2007	CDV	1	3	12.50750	3	NW	2	12.50750	292	1.2		12.81722	242	1.6		1		S	0	1	
1/28/2007	CDV	1	3	12.51861	3	NW	2	0.00000	0	0.0		12.51861	302	0.3		1		S	0	1	
1/28/2007	CDV	1	3	12.55361	3	NW	2	0.00000	0	0.0		12.55361	270	0.1		1		S	0	1	
1/28/2007	CDV	1	3	12.73250	3	NW	2	0.00000	0	0.0		12.73250	242	0.2		1		S	0	0	
1/28/2007	CDV	1	3	12.78417	3	NW	2	0.00000	0	0.0		12.78417	298	6.0	E	2	2	S	0	1	
1/28/2007	CDV	1	2	12.81667	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	CDV	1	3	13.01611	2	NW	2	13.01611	256	1.1		13.18750	242	1.2		3		S	0	1	
1/28/2007	CDV	1	3	13.10389	2	NW	2	0.00000	0	0.0		13.10389	262	0.1		1		S	0	0	
1/28/2007	CDV	1	3	13.13722	2	NW	2	0.00000	0	0.0		13.13722	242	0.5		3		S	0	0	
1/28/2007	CDV	1	3	13.18583	2	NW	2	0.00000	0	0.0		13.18583	241	0.5		1		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/28/2007	CDV	1	3	13.25361	2	NW	2	0.00000	0	0.0		13.25361	250	1.5		1		N	0	0	FIRST NORTH SIGHTING FOR ME
1/28/2007	CDV	1	3	13.34528	2	NW	2	13.34528	248	1.2		13.39889	242	1.2		2		S	0	0	
1/28/2007	CDV	1	3	13.40556	2	NW	2	0.00000	0	0.0		13.40556	246	1.2		2		S	0	0	
1/28/2007	CDV	1	3	13.42750	2	NW	2	0.00000	0	0.0		13.42750	248	0.2		1		S	0	0	
1/28/2007	CDV	1	3	13.43611	2	NW	2	0.00000	0	0.0		13.43611	248	1.0		2		S	0	0	
1/28/2007	CDV	1	3	13.48583	2	NW	2	0.00000	0	0.0		13.48583	242	2.3		1		S	0	0	
1/28/2007	CDV	1	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/28/2007	SDN	1	1	13.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0					
1/28/2007	SDN	1	3	13.54167	2	NW	2	0.00000	0	0.0		13.54167	240	1.2		2		S	0	1	
1/28/2007	SDN	1	3	13.61472	2	NW	2	0.00000	0	0.0		13.61472	240	0.4		2		S	0	1	
1/28/2007	SDN	1	3	13.71806	2	NW	2	0.00000	0	0.0		13.71806	235	0.5		1		S	0	1	
1/28/2007	SDN	1	3	13.78278	2	NW	2	0.00000	0	0.0		13.78278	242	0.2		1		S	0	1	
1/28/2007	SDN	1	8	14.08472	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	TWO NORTHBOUND SPEED BOATS AT .5 RETICLE
1/28/2007	SDN	1	3	14.29639	2	NW	2	14.29639	276	1.2		14.76944	244	1.5		3		S	0	6	
1/28/2007	SDN	1	3	14.39611	2	NW	2	14.39611	285	1.5		14.86833	243	1.5		4		S	0	5	
1/28/2007	SDN	1	3	14.58944	2	NW	2	0.00000	0	0.0		14.58944	230	1.4		1		S	0	1	
1/28/2007	SDN	1	3	14.75722	2	NW	2	14.75722	266	1.6		14.89278	245	1.5		5		S	0	5	
1/28/2007	SDN	1	3	15.06722	2	NW	2	15.06722	268	1.8		15.23694	241	1.8		1		S	0	3	
1/28/2007	SDN	1	3	15.23278	2	NW	2	15.23278	255	2.0		15.37139	242	2.0		4		S	0	3	
1/28/2007	SDN	1	3	15.56306	2	NW	2	0.00000	0	0.0		15.56306	249	0.8		1		S	0	1	
1/28/2007	SDN	1	3	16.02889	2	NW	2	16.02889	266	1.0		16.21111	240	1.3		1		S	0	4	
1/28/2007	SDN	1	5	16.50361	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/29/2007	CDV	1	1	7.50000	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
1/29/2007	CDV	1	3	7.50139	3	E	2	0.00000	0	0.0		7.50139	216	2.5		1		S	1	5	
1/29/2007	CDV	1	3	7.75028	3	E	2	7.75028	246	1.2		7.90306	238	1.2		2		S	0	1	
1/29/2007	CDV	1	3	7.78722	3	E	2	7.78722	248	1.2		7.89667	240	1.2		7		S	1	3	
1/29/2007	CDV	1	3	7.96556	3	E	2	0.00000	0	0.0		7.96556	239	1.0		1		S	0	1	
1/29/2007	CDV	1	3	8.16667	3	E	2	8.16667	272	1.9		8.33778	242	2.2		1		S	0	2	
1/29/2007	CDV	1	3	8.17972	3	E	2	8.17972	287	0.8		8.63639	212	1.2		2		S	0	2	
1/29/2007	CDV	1	3	8.34250	3	E	2	8.34250	252	2.0		8.36889	240	2.0		1		S	0	2	
1/29/2007	CDV	1	3	8.42306	3	E	2	0.00000	0	0.0		8.42306	270	2.0		1		S	0	1	VIS FLUCTUATES BETWEEN VERY GOOD TO POOR DEPENDING ON LIGHT CONDITIONS
1/29/2007	CDV	1	3	8.77000	3	E	2	8.77000	255	1.3	E	8.87361	225	2.0		2		S	0	2	
1/29/2007	CDV	1	3	8.90861	3	E	2	8.90861	292	0.5		9.40361	236	1.2		2		S	0	3	
1/29/2007	CDV	1	3	8.93583	3	E	2	8.93583	273	1.8		9.15417	229	2.1		3		S	0	3	
1/29/2007	CDV	1	5	9.23333	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/29/2007	CDV	1	1	9.28472	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/29/2007	CDV	1	3	9.43111	3	E	2	9.43111	276	1.0		9.73611	248	1.2		2		S	0	3	RAIN AT 0-2 RETS.

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/29/2007	CDV	1	3	9.93361	3	E	2	0.00000	0	0.0		9.93361	235	1.1	1			S	1	3	
1/29/2007	CDV	1	3	10.20833	3	E	2	10.20833	292	2.0		10.49167	244	3.8	1			S	0	4	
1/29/2007	CDV	1	5	10.50000	3	E	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	END OF WATCH
1/29/2007	SDN	1	1	10.50028	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/29/2007	SDN	1	8	10.59417	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	NORTHBOUND SPEED BOAT AT RETICLE 4.5
1/29/2007	SDN	1	3	10.66333	4	NW	2	10.66333	269	1.0		11.04528	244	1.5	1			S	0	4	
1/29/2007	SDN	1	3	10.90722	4	NW	2	10.90722	268	1.4		11.27222	238	1.2	1			S	0	3	
1/29/2007	SDN	1	3	11.05639	4	NW	2	0.00000	0	0.0		11.05639	244	1.0	1			S	0	1	
1/29/2007	SDN	1	3	11.06861	4	NW	2	0.00000	0	0.0		11.06861	235	4.0	1			S	0	1	
1/29/2007	SDN	1	3	11.21083	4	NW	2	11.21083	272	1.4	E	12.38250	242	1.3	1			S	0	3	
1/29/2007	SDN	1	3	11.44833	4	NW	2	11.44833	276	1.6		11.64389	243	1.8	1			S	0	5	
1/29/2007	SDN	1	2	11.47972	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/29/2007	SDN	1	5	11.84556	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BREAK
1/29/2007	SDN	1	1	11.90389	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BACK ON WATCH
1/29/2007	SDN	1	3	12.05722	3	NW	2	12.05722	248	3.0		12.09583	236	3.0	1			S	0	2	
1/29/2007	SDN	1	3	12.56861	3	NW	2	12.56861	282	1.0		12.94361	244	1.2	2			S	0	5	
1/29/2007	SDN	1	8	12.61278	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	FISHING BOAT NORTH BOUND AT RETICLE 7.0
1/29/2007	SDN	1	3	12.65944	3	NW	2	0.00000	0	0.0		12.65944	228	14.0	1			S	0	1	
1/29/2007	SDN	1	3	13.42306	3	NW	2	0.00000	0	0.0		13.42306	222	1.8	1			S	0	1	
1/29/2007	SDN	1	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	END WATCH
1/29/2007	IML	2	1	13.50028	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"B13509; A315 HAZE ON 241, OVERCAST, VERY LIGHT WIND"
1/29/2007	SDN	1	3	13.50139	3	NW	2	0.00000	0	0.0		13.50139	224	0.5	2			S	0	1	
1/29/2007	IML	2	3	13.62389	3	SW	2	0.00000	0	0.0		13.62389	218	1.8	2			S	0	1	
1/29/2007	IML	2	4	13.65250	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"BREACHER IN A POD OF 3, AT 204/2.4"
1/29/2007	IML	2	3	13.76750	3	SW	2	0.00000	0	0.0	E	13.76750	265	8.0	1			S	0	1	RET AND ANGLE ESTM
1/29/2007	IML	2	2	13.88889	4	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	HEAVY GLARE AND HAZE SOUT OF 240
1/29/2007	IML	2	3	13.94639	4	SW	2	0.00000	0	0.0		13.94639	238	0.6	1			S	0	1	
1/29/2007	IML	2	6	13.96667	4	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	GG GOING NORTH AT 220/2.3 ~ 30-50 SLOW TRAV
1/29/2007	IML	2	6	14.00056	4	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	GG GOING NORTH AT 186/1.5 ~ 100-200
1/29/2007	IML	2	3	14.04611	4	SW	2	0.00000	0	0.0		14.04611	262	1.8	1			S	0	1	
1/29/2007	IML	2	3	14.09917	4	SW	2	0.00000	0	0.0		14.09917	275	1.0	1			S	0	1	
1/29/2007	IML	2	3	14.16278	4	SW	2	0.00000	0	0.0		14.16278	245	1.5	1			S	0	1	
1/29/2007	IML	2	3	14.17250	4	SW	2	14.17250	250	9.0		14.18250	245	10.0	2			S	0	2	
1/29/2007	IML	2	3	14.18250	4	SW	2	2.00000	0	0.0		14.18250	247	2.0	1			N	0	1	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/29/2007	IML	2	6	14.19333	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GG GOING NORTH, 200-230; FEEDING, HEADSLAP, ~ 1000-2000"
1/29/2007	IML	2	3	14.49278	4	SW	2	0.00000	0	0.0		14.49278	250	4.9	E	1		S	0	1	RET AND ANGLE ESTM
1/29/2007	IML	2	6	14.59806	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HUMPBACKS WITH GG, POSSIBLY PREVIOUS BREACHER. SEE NOTES ON DATASHEET"
1/29/2007	IML	2	2	14.66111	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LESS HAZE
1/29/2007	IML	2	3	14.70222	3	SW	2	14.70222	268	3.0		14.85972	235	3.5		1		S	0	3	
1/29/2007	IML	2	3	14.70222	3	SW	2	14.70222	278	3.2		14.86417	237	3.9		3		S	0	4	
1/29/2007	IML	2	3	15.03667	3	SW	2	15.03667	270	2.9		15.17861	238	3.5	E	4		S	0	3	RET AND ANGLE ESTM
1/29/2007	IML	2	3	15.19917	3	SW	2	15.19917	267	1.5		15.46250	243	2.0		5		S	0	2	
1/29/2007	IML	2	3	15.25833	3	SW	2	0.00000	0	0.0		15.25833	267	1.7		1		S	0	1	
1/29/2007	IML	2	3	15.35333	3	SW	2	0.00000	0	0.0		15.35333	240	1.8		3		S	0	1	
1/29/2007	IML	2	3	15.39944	3	SW	2	15.39944	253	1.8		15.57694	240	1.8		4		S	0	3	
1/29/2007	IML	2	3	15.49056	3	SW	2	15.49056	273	3.5		15.59472	243	4.0		1		S	0	3	
1/29/2007	IML	2	3	15.49972	3	SW	2	15.49972	265	3.9		15.59472	243	4.0		2		S	0	2	
1/29/2007	IML	2	3	15.54056	3	SW	2	15.54056	256	2.0		15.61111	242	2.1		3		S	0	3	
1/29/2007	IML	2	3	15.55028	3	SW	2	0.00000	0	0.0		15.55028	245	1.5		3		S	0	1	
1/29/2007	IML	2	3	15.63361	3	SW	2	15.63361	250	1.0		15.95944	236	1.4		4		S	0	3	
1/29/2007	IML	2	3	15.64861	3	SW	2	15.64861	254	2.0		15.70750	245	1.9		2		S	0	3	
1/29/2007	IML	2	3	15.73583	3	SW	2	15.73583	255	5.0		15.74333	252	5.2		3		S	0	1	
1/29/2007	IML	2	4	15.74722	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	IMPROVED CONTRAST
1/29/2007	IML	2	3	15.80306	3	SW	2	0.00000	0	0.0		15.80306	242	1.0		2		S	0	1	
1/29/2007	IML	2	3	16.13389	3	SW	2	0.00000	0	0.0		16.13389	252	1.4		1		S	0	1	
1/29/2007	IML	2	3	16.24417	3	SW	2	16.24417	245	3.9		16.25611	240	3.9		1		S	0	2	
1/29/2007	IML	2	3	16.27972	3	SW	2	0.00000	0	0.0		16.27972	240	1.8		1		S	0	1	
1/29/2007	IML	2	3	16.31361	3	SW	2	16.31361	252	1.5		16.37250	245	1.8		1		S	0	2	
1/29/2007	IML	2	3	16.32861	3	SW	2	16.32861	253	1.7		16.37250	245	1.8		2		S	0	2	
1/29/2007	IML	2	3	16.40861	3	SW	2	0.00000	0	0.0		16.40861	270	1.3		1		S	0	1	
1/29/2007	IML	2	3	16.42167	3	SW	2	16.42167	273	1.2		16.46806	267	1.3		2		S	0	2	MISSED OR LATE
1/29/2007	IML	2	5	16.69306	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	SLM	2	1	7.43333	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	SLM	2	3	7.71750	5	SW	2	0.00000	0	0.0		7.71750	240	1.3		1		S	1	3	POSSIBLE BREACH
1/30/2007	SLM	2	2	7.82083	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	SLM	2	3	7.83472	4	SW	2	7.83472	265	1.4		7.93889	244	1.6		1		S	0	2	
1/30/2007	SLM	2	3	8.03306	4	SW	2	0.00000	0	0.0		8.03306	265	8.5		1		S	0	2	
1/30/2007	SLM	2	3	8.14917	4	SW	2	8.14917	268	1.2		8.30444	239	1.5		1		S	0	4	
1/30/2007	SLM	2	3	8.42667	4	SW	2	0.00000	0	0.0		8.42667	240	5.2		2	1	S	0	3	
1/30/2007	SLM	2	2	8.46944	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/30/2007	SLM	2	3	8.47528	3	SW	2	0.00000	0	0.0		8.47528	232	1.3	1			S	0	1	
1/30/2007	SLM	2	3	8.48028	3	SW	2	8.48028	269	1.3		8.79750	225	1.6	2			S	0	3	
1/30/2007	SLM	2	3	8.55139	3	SW	2	0.00000	0	0.0		8.55139	245	1.2	2			S	0	2	
1/30/2007	SLM	2	3	8.58139	3	SW	2	8.58139	252	0.5		8.73028	240	0.9	2			S	0	3	
1/30/2007	SLM	2	3	8.67444	3	SW	2	0.00000	0	0.0		8.67444	244	12.0	1			S	0	1	"1 ONLY SAW THIS WHALE ONCE, AND ONLY 1 BLOW, SO THERE MAY HAVE BEEN MORE THAN 1"
1/30/2007	SLM	2	3	8.77667	3	SW	2	8.77667	247	1.4		8.83000	238	1.7	1			S	0	2	
1/30/2007	SLM	2	3	9.02806	3	SW	2	0.00000	0	0.0		9.02806	231	1.1	3			S	0	2	
1/30/2007	SLM	2	3	9.24056	3	SW	2	9.24056	271	1.8		9.56639	243	2.0	2		1	S	0	7	
1/30/2007	SLM	2	3	9.26417	3	SW	2	9.26417	271	1.2		9.50306	235	1.3	1			S	0	3	
1/30/2007	SLM	2	3	9.34083	3	SW	2	9.34083	280	3.2		9.48111	237	5.0	2		1	S	0	3	
1/30/2007	SLM	2	3	9.41056	3	SW	2	9.41056	292	1.0		9.89222	242	1.3	1			S	0	0	
1/30/2007	SLM	2	3	9.64167	3	SW	2	9.64167	278	5.5		9.64167	278	5.5	1			S	0	0	
1/30/2007	SLM	2	6	9.66972	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"BOTTLENOSE DOLPHINS, POD=15-20, ANGLE 285, RET=2.5, HEADED SE"
1/30/2007	SLM	2	3	9.69861	3	SW	2	9.69861	273	1.3		9.95944	246	1.2	1			S	0	0	
1/30/2007	SLM	2	3	9.91111	3	SW	2	9.91111	274	7.5		10.02306	210	6.0	2		1	S	0	2	
1/30/2007	SLM	2	3	9.97917	3	SW	2	9.97917	275	1.8		10.17278	237	2.0	2			S	0	0	
1/30/2007	SLM	2	3	10.00500	3	SW	2	10.00500	292	0.7		10.37944	247	1.7	3			S	0	0	
1/30/2007	SLM	2	3	10.18917	3	SW	2	0.00000	0	0.0		10.18917	237	1.1	1			S	0	0	
1/30/2007	SLM	2	3	10.26833	3	SW	2	10.26833	267	1.3		10.48389	245	1.4	1			S	0	0	
1/30/2007	SLM	2	5	10.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/30/2007	IML	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"B13509, A315, OVERCAST, HAZY"
1/30/2007	IML	1	3	10.56750	3	NW	2	10.56750	253	1.3		10.64417	241	1.5	2			S	0	3	
1/30/2007	IML	1	3	10.61944	3	NW	2	10.61944	255	1.5		10.68417	243	1.8	3			S	0	3	
1/30/2007	IML	1	3	10.75278	3	NW	2	10.75278	250	1.3		10.80194	240	1.8	3			S	0	2	
1/30/2007	IML	1	3	10.81806	3	NW	2	0.00000	0	0.0		10.75139	240	1.8	1			S	0	1	
1/30/2007	IML	1	3	10.95250	3	NW	2	0.00000	0	0.0		10.95250	247	1.5	1			S	0	1	
1/30/2007	IML	1	3	11.03917	3	NW	2	2.00000	0	0.0		11.03917	247	1.8	1			S	0	1	
1/30/2007	IML	1	3	11.11361	3	NW	2	11.11361	267	1.5		11.29250	240	1.7	2			S	0	4	
1/30/2007	IML	1	8	11.13611	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	SPEED BOAT GOING NORTH/240/3.5 AT FAST SPEED
1/30/2007	IML	1	3	11.20389	3	NW	2	0.00000	0	0.0		11.20389	235	2.0	1			S	1	2	BREACHED 4 TIMES
1/30/2007	IML	1	3	11.39139	3	NW	2	0.00000	0	0.0		11.39139	240	1.6	2			S	0	1	
1/30/2007	IML	1	3	11.41278	3	NW	2	11.41278	261	1.9		11.53583	242	1.9	E 2			S	0	4	RET ESTM
1/30/2007	IML	1	4	11.47684	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	FOG BTN RET 0-1

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	QUE	COMMENTS
1/30/2007	IML	1	3	11.49194	3	NW	2	11.49194	267	1.5	E	11.66417	240	1.9	E	4		S	0	4	"LESS FOG ON LINE, STILL HAZE AND GLARE"
1/30/2007	IML	1	4	11.75667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	IML	1	3	11.80361	3	NW	2	0.00000	0	0.0		11.80361	238	1.7		5		S	0	1	
1/30/2007	IML	1	3	11.91167	3	NW	2	0.00000	0	0.0		11.91167	282	0.2	E	2		S	0	1	ESTM RET
1/30/2007	IML	1	3	11.91167	3	NW	2	11.91167	283	1.5		12.12611	240	2.2		3		S	0	4	
1/30/2007	IML	1	3	11.96056	3	NW	2	11.96056	285	1.2		12.26444	239	2.1		3		S	0	3	
1/30/2007	IML	1	3	12.22306	3	NW	2	12.22306	285	2.1		12.41639	240	2.2		1		S	0	2	LATE ARRIVAL ON LINE
1/30/2007	IML	1	3	12.47611	3	NW	2	12.47611	266	1.0		12.61139	245	1.2		2		S	0	3	
1/30/2007	IML	1	3	12.58389	3	NW	2	0.00000	0	0.0		12.58389	267	1.2		1		S	0	1	
1/30/2007	IML	1	3	12.63083	3	NW	2	0.00000	0	0.0		12.63083	240	1.4		2		S	0	1	
1/30/2007	IML	1	3	12.69417	3	NW	2	0.00000	0	0.0		12.69417	264	1.0		1		S	1	1	
1/30/2007	IML	1	3	12.74444	3	NW	2	12.74444	266	1.0		12.92139	240	1.2		2		S	0	3	
1/30/2007	IML	1	3	12.77222	3	NW	2	0.00000	0	0.0		12.77222	239	1.2	E	1		S	0	1	RET ESTM
1/30/2007	IML	1	8	12.84472	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FISHING BOAT GOING SOUTH /243/0.1
1/30/2007	IML	1	3	12.87250	3	NW	2	0.00000	0	0.0		12.87250	262	1.5		2		S	0	1	
1/30/2007	IML	1	3	12.93611	3	NW	2	12.93611	262	1.2		13.04472	247	1.2		1		S	0	3	
1/30/2007	IML	1	3	12.95583	3	NW	2	12.95583	260	1.0		13.11889	235	1.1		1		s	0	3	
1/30/2007	IML	1	3	12.96944	3	NW	2	12.96944	257	1.5		13.09194	247	1.7		3		S	0	2	
1/30/2007	IML	1	3	12.97806	3	NW	2	12.97806	275	1.0		13.23361	243	1.2		2		S	0	3	
1/30/2007	IML	1	3	13.07528	3	NW	2	13.07528	250	1.7		13.14361	240	1.8		3		S	0	4	
1/30/2007	IML	1	3	13.16417	3	NW	2	13.16417	253	1.2		13.20972	245	1.5		2		S	0	2	
1/30/2007	IML	1	3	13.18222	3	NW	2	13.18222	250	1.8		13.22778	240	1.9		3		S	0	2	
1/30/2007	IML	1	3	13.22778	3	NW	2	0.00000	0	0.0		13.22778	244	1.8		5		S	0	1	
1/30/2007	IML	1	3	13.2806	3	NW	2	0.00000	0	0.0		13.32806	235	1.2		2		S	0	1	
1/30/2007	IML	1	3	13.32806	3	NW	2	0.00000	0	0.0		13.32806	240	1.8		4		S	0	1	
1/30/2007	IML	1	3	13.34750	3	NW	2	0.00000	0	0.0		13.34750	236	1.5		5		S	0	1	
1/30/2007	IML	1	3	13.37806	3	NW	2	0.00000	0	0.0		13.37806	234	5.9		1		S	0	1	
1/30/2007	IML	1	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	SDN	1	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/30/2007	SDN	1	3	13.57417	3	NW	2	0.00000	0	0.0		13.57417	239	2.0		1		S	0	1	
1/30/2007	SDN	1	3	13.61250	3	NW	2	13.61250	268	1.5		13.90361	243	1.7		2		S	0	5	
1/30/2007	SDN	1	3	13.69833	3	NW	2	13.69833	272	1.0		14.00972	242	1.5		3		S	0	7	
1/30/2007	SDN	1	3	13.78694	3	NW	2	0.00000	0	0.0		13.78694	247	2.6		1		S	0	1	
1/30/2007	SDN	1	3	14.04806	3	NW	2	14.04806	275	1.5		14.24278	241	1.8		4		S	0	7	
1/30/2007	SDN	1	3	14.15000	3	NW	2	14.15000	258	1.8		14.33083	243	1.8		2		S	0	4	
1/30/2007	SDN	1	3	14.17778	3	NW	2	14.17778	264	2.0		14.19361	259	2.0		2		S	0	2	
1/30/2007	SDN	1	3	14.46778	3	NW	2	14.46778	274	1.0		14.77444	242	1.5		3		S	0	6	
1/30/2007	SDN	1	3	14.68167	3	NW	2	14.68167	258	1.5		14.98333	243	1.2		3		S	0	3	
1/30/2007	SDN	1	3	15.11944	3	NW	2	0.00000	0	0.0		15.11944	242	1.8		1		S	0	1	
1/30/2007	SDN	1	3	15.13278	3	NW	2	15.13278	248	3.8		15.14083	246	3.8		2		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/30/2007	SDN	1	3	15.47306	3	NW	2	15.47306	269	1.0		15.65889	240	1.5	3			S	0	6	
1/30/2007	SDN	1	3	15.80500	3	NW	2	15.80500	261	1.5		15.95861	247	1.5	1			S	0	1	
1/30/2007	SDN	1	3	15.82472	3	NW	2	15.82472	280	1.0		16.05444	243	1.5	8			S	0	5	
1/30/2007	SDN	1	3	15.83833	3	NW	2	15.83833	281	1.0		16.23250	232	1.5	6			M	0	4	MILLED A BOT AFTER CROSSING THE LINE
1/30/2007	SDN	1	3	15.90222	3	NW	2	0.00000	0	0.0		15.90222	240	10.0	1	1	S	0	1		
1/30/2007	SDN	1	3	16.16833	3	NW	2	16.16833	250	1.5		16.24639	240	1.5	4		M	0	4		ALSO MILLED/ JOINED UP WITH PREVIOUS GROUP SOUTH OF 240
1/30/2007	SDN	1	3	16.28889	3	NW	2	0.00000	0	0.0		16.28889	238	1.2	1		S	0	1		
1/30/2007	SDN	1	3	16.34861	3	NW	2	16.34861	258	1.5		16.48250	239	1.6	4		S	0	4		
1/30/2007	SDN	1	3	16.37944	3	NW	2	16.37944	262	1.5		16.51306	238	1.7	2		S	0	3		
1/30/2007	SDN	1	3	16.50611	3	NW	2	0.00000	0	0.0		16.50611	246	2.2	1		S	0	1		
1/30/2007	SDN	1	5	16.55306	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	END WATCH
1/31/2007	IML	1	1	7.40917	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	"OVERCAST, LOW LIGHT, CLEAR HORIZON"
1/31/2007	IML	1	3	7.55556	4	NW	3	7.55556	260	1.5		7.64722	242	1.7	1		S	0	4		
1/31/2007	IML	1	2	7.68528	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
1/31/2007	IML	1	3	7.72472	4	NW	2	7.72472	260	1.4		7.85944	241	1.5	3		S	0	4		
1/31/2007	IML	1	2	7.78361	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	MORE LIGHT = BETTER CONTRAST
1/31/2007	IML	1	3	8.04250	3	NW	2	8.04250	278	0.8		8.35611	238	1.1	2		S	0	4		
1/31/2007	IML	1	3	8.30639	3	NW	2	8.30639	260	0.9		8.57944	240	1.1	3		S	0	3		
1/31/2007	IML	1	3	8.59639	3	NW	2	8.59639	265	1.0		8.78361	241	1.2	2		S	0	2		
1/31/2007	IML	1	3	8.60444	3	NW	2	8.60444	263	1.0		8.77417	241	1.0	1		S	0	2		
1/31/2007	IML	1	3	8.69194	3	NW	2	0.00000	0	0.0		8.69194	238	1.1	3		S	0	1		
1/31/2007	IML	1	3	8.88389	3	NW	2	0.00000	0	0.0		8.88389	236	1.1	4		S	0	1		ELUSIVE
1/31/2007	IML	1	3	8.93556	3	NW	2	0.00000	0	0.0		8.93556	235	4.0	1		S	0	3		
1/31/2007	IML	1	3	8.97056	3	NW	2	8.97056	252	1.0		9.08667	237	1.1	1		S	0	2		
1/31/2007	IML	1	2	9.03861	4	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	GLARE EVERYWHERE
1/31/2007	IML	1	2	9.06583	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
1/31/2007	IML	1	8	9.13389	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	TANKER GOING NORTH /240/0.0
1/31/2007	IML	1	4	9.21861	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	GLARE IS GONE
1/31/2007	IML	1	3	9.38528	3	NW	3	9.38528	278	1.2		9.64083	243	1.8	3		S	0	10		
1/31/2007	IML	1	2	9.41083	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
1/31/2007	IML	1	3	9.43694	2	NW	3	9.43694	278	1.1		9.69894	245	1.7	2		S	0	4		
1/31/2007	IML	1	3	9.44556	2	NW	3	9.44556	290	2.0		9.60306	245	4.0	1		S	0	4		MOVED OFFSHORE
1/31/2007	IML	1	3	9.50861	2	NW	3	0.00000	0	0.0		9.50861	232	1.0	E	1	S	0	1		RET ESTM
1/31/2007	IML	1	3	9.78361	2	NW	3	0.00000	0	0.0		9.78361	236	2.5	2		S	0	2		
1/31/2007	IML	1	3	9.80944	2	NW	3	0.00000	0	0.0		9.80944	243	1.5	1		S	0	1		
1/31/2007	IML	1	3	9.81389	2	NW	3	9.81389	250	1.8		9.88556	241	1.8	2		S	0	3		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/31/2007	IML	1	3	9.83917	2	NW	3	9.83917	257	1.4		9.92833	242	1.7		2		S	0	3	
1/31/2007	IML	1	3	9.96694	2	NW	3	9.96694	273	1.3		10.14028	245	1.7		2		S	0	3	
1/31/2007	IML	1	3	9.98417	2	NW	3	9.98417	260	1.4		10.06556	245	1.7		3		S	0	3	
1/31/2007	IML	1	8	10.22000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SAILBOAT GOING N/252/1.0
1/31/2007	IML	1	2	10.23556	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/31/2007	IML	1	3	10.24639	3	NW	2	10.24639	249	1.1		10.33806	236	1.0		4		S	0	2	
1/31/2007	IML	1	3	10.40111	3	NW	2	0.00000	0	0.0		10.40111	243	0.7		4		S	0	1	
1/31/2007	IML	1	2	10.46250	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	PARTLY CLOUDY
1/31/2007	IML	1	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/31/2007	SDN	1	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/31/2007	SDN	1	3	10.50861	3	NW	3	10.50861	273	2.3		10.67778	240	1.8		3		S	0	3	
1/31/2007	SDN	1	3	10.65444	3	NW	3	0.00000	0	0.0		10.65444	238	1.6		2		S	0	1	
1/31/2007	SDN	1	3	10.80556	3	NW	3	0.00000	0	0.0		10.80556	236	1.8		1		S	0	1	PART OF 103081 POD SPLIT AT 240
1/31/2007	SDN	1	3	11.35000	3	NW	3	11.35000	285	0.5		11.76667	241	1.0		2		S	0	8	
1/31/2007	SDN	1	3	11.62556	3	NW	3	11.62556	280	2.0		11.81389	244	2.5		2		S	0	5	
1/31/2007	SDN	1	3	11.87222	3	NW	3	11.87222	282	1.0		12.01472	246	1.0		2		S	0	3	
1/31/2007	SDN	1	3	11.92833	3	NW	3	11.92833	280	0.8		12.16917	243	1.5		2		S	0	5	
1/31/2007	SDN	1	3	12.12722	3	NW	3	12.12722	250	6.5		12.14528	240	6.5		1		S	0	2	
1/31/2007	SDN	1	3	12.13083	3	NW	3	12.13083	263	2.0		12.25639	242	2.0		1		S	0	2	
1/31/2007	SDN	1	3	12.20000	3	NW	3	12.20000	247	1.0		12.24250	240	1.0		4		S	0	2	
1/31/2007	SDN	1	5	12.27750	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
1/31/2007	SDN	1	1	12.32944	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
1/31/2007	SDN	1	3	12.52944	3	NW	3	12.52944	280	3.5		12.68250	238	5.2		2		S	0	6	
1/31/2007	SDN	1	3	12.65278	3	NW	3	12.65278	270	1.0		13.12500	242	1.0		3		S	0	5	
1/31/2007	SDN	1	3	12.71056	3	NW	3	12.71056	278	0.5		13.28667	242	0.8		1		S	0	6	
1/31/2007	SDN	1	3	13.02528	3	NW	3	13.02528	269	4.0		13.11028	242	4.2		1		S	0	4	
1/31/2007	SDN	1	3	13.17333	3	NW	3	13.17333	279	1.0		13.41972	241	1.0		1		S	0	4	
1/31/2007	SDN	1	3	13.21444	3	NW	3	13.21444	252	1.0		13.38083	243	1.0		1		S	0	4	
1/31/2007	SDN	1	3	13.31111	3	NW	3	13.31111	250	1.0		13.43361	240	1.0		1		S	0	3	
1/31/2007	SDN	1	3	13.40806	3	NW	3	13.40806	258	1.2		13.49222	245	1.2		1		S	0	2	
1/31/2007	SDN	1	5	13.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
1/31/2007	CDV	1	1	13.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
1/31/2007	CDV	1	3	13.54222	3	NW	3	0.00000	0	0.0		13.54222	242	1.0		2		S	0	0	
1/31/2007	CDV	1	3	13.54722	3	NW	3	0.00000	0	0.0		13.54722	239	1.5		3		S	0	0	
1/31/2007	CDV	1	3	13.54750	3	NW	3	0.00000	0	0.0		13.54750	240	1.0		1		N	0	0	
1/31/2007	CDV	1	3	13.60861	3	NW	3	0.00000	0	0.0		13.60861	242	1.0		1		S	0	0	
1/31/2007	CDV	1	3	13.66111	3	NW	3	13.66111	246	1.1		13.69222	242	1.1		1		S	0	0	
1/31/2007	CDV	1	3	13.74833	3	NW	3	13.74833	253	1.0		13.90167	238	1.1		2		S	0	0	
1/31/2007	CDV	1	3	13.76000	3	NW	3	13.76000	247	1.0		13.79750	242	1.0		1		S	0	0	
1/31/2007	CDV	1	3	13.82611	3	NW	3	13.82611	252	1.0		13.89750	240	1.0		1		S	0	0	
1/31/2007	CDV	1	3	13.83694	3	NW	3	13.83694	276	1.0		14.19139	234	1.1		1		S	0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/31/2007	CDV	1	3	13.87500	3	NW	3	13.87500	267	1.0		13.99167	241	1.0		1		S	0	0	
1/31/2007	CDV	1	3	14.12944	3	NW	3	14.12944	258	1.0		14.25861	243	1.2		2		S	0	0	
1/31/2007	CDV	1	3	14.14583	3	NW	3	0.00000	0	0.0		14.14583	253	1.1		1		S	0	0	
1/31/2007	CDV	1	3	14.15139	3	NW	3	14.15139	251	1.1		14.27417	238	1.1		1		S	0	0	
1/31/2007	CDV	1	3	14.21472	3	NW	3	0.00000	0	0.0		14.21472	236	5.0		1		S	0	0	"STRONGLY SUSPECT CALF PRESENT, BUT DID NOT SEE"
1/31/2007	CDV	1	8	14.33611	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT HEADING NORTH
1/31/2007	CDV	1	3	14.38361	3	NW	3	0.00000	0	0.0		14.38361	240	6.0	E	1		S	0	0	
1/31/2007	CDV	1	3	14.46389	3	NW	3	0.00000	0	0.0		14.46389	233	1.3		1		S	0	0	
1/31/2007	CDV	1	3	15.16667	3	NW	3	15.16667	248	1.5		15.22528	238	1.5		1		S	0	3	
1/31/2007	CDV	1	3	15.38833	3	NW	3	15.38833	282	3.8		15.56167	247	5.0		3		S	0	2	
1/31/2007	CDV	1	2	15.60000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/31/2007	CDV	1	5	15.66861	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK
1/31/2007	CDV	1	1	15.72306	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/31/2007	CDV	1	3	15.89806	2	NW	3	15.89806	278	0.8		16.16167	240	1.0		1		S	0	3	
1/31/2007	CDV	1	3	16.06500	2	NW	3	16.06500	283	0.8		16.47472	245	1.2		3		S	0	6	
1/31/2007	CDV	1	3	16.35083	2	NW	3	16.35083	273	0.8		16.49583	254	1.0		7		S	0	3	
1/31/2007	CDV	1	5	16.50000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
2/1/2007	SLM	1	1	7.44167	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SLM	1	2	7.83611	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SLM	1	3	7.87417	4	SW	2	7.87417	287	1.1		8.25444	240	1.8		3		S	0	11	
2/1/2007	SLM	1	3	8.14917	4	SW	2	8.14917	255	8.0		8.16944	237	9.0		2	1	S	0	2	POSSIBLE C/C PAIR
2/1/2007	SLM	1	3	8.27000	4	SW	2	8.27000	275	1.0		8.54167	245	1.2		2		S	0	5	
2/1/2007	SLM	1	3	8.42250	4	SW	2	8.42250	262	4.0		8.47361	244	4.1		2	1	S	0	5	
2/1/2007	SLM	1	3	8.52056	4	SW	2	0.00000	0	0.0		8.52056	248	2.5		1		S	0	2	
2/1/2007	SLM	1	2	8.73750	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SLM	1	8	9.03444	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FISHING BOAT, RET 4, 300DEG., RET 9 AT 241 TRAVELING SOUTH, 091417"
2/1/2007	SLM	1	3	9.10944	3	SW	2	9.10944	270	2.1		9.23083	248	2.8	E	1		S	0	2	
2/1/2007	SLM	1	3	9.30917	3	SW	2	9.30917	296	1.4		9.56972	241	2.4		1		S	0	4	
2/1/2007	SLM	1	2	9.67500	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SLM	1	3	9.72556	3	NW	2	9.72556	299	1.0		10.16194	239	2.1		2		S	0	7	
2/1/2007	SLM	1	8	10.46111	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FISHING BOAT, RETICLE 1.0, 241 TRAVELING SOUTH"
2/1/2007	SLM	1	3	10.46250	3	NW	2	0.00000	0	0.0		10.46250	251	1.4		2		S	0	1	
2/1/2007	SLM	1	3	10.49972	3	NW	2	0.00000	0	0.0		10.49972	242	1.0		2		S	0	2	
2/1/2007	SLM	1	5	10.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	IML	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"OVERCAST, LOTS OF FOAM FROM R2.5 TO

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/1/2007	IML	1	3	10.64778	3	NW	2	0.00000	0	0.0		10.64778	240	0.9		2		S	0	2	SHORE, VISIB HOR."
2/1/2007	IML	1	3	10.66111	3	NW	2	0.00000	0	0.0		10.66111	239	2.4		1		S	0	3	
2/1/2007	IML	1	3	11.02889	3	NW	2	11.02889	285	0.9		11.48444	233	1.4		1		S	0	3	
2/1/2007	IML	1	3	11.08611	3	NW	2	0.00000	0	0.0		11.88611	242	1.8		1		S	0	2	
2/1/2007	IML	1	3	11.12833	3	NW	2	11.12833	274	1.2		11.33361	241	1.4		2		S	0	5	
2/1/2007	IML	1	3	11.16028	3	NW	2	11.16028	270	1.3		11.36306	236	1.5		5		S	0	4	
2/1/2007	IML	1	3	11.31694	3	NW	2	11.31694	274	1.0		11.53472	240	1.7		4		S	0	3	
2/1/2007	IML	1	3	11.67556	3	NW	2	11.67556	250	1.7		11.72972	240	1.8		2		S	0	4	
2/1/2007	IML	1	3	11.76861	3	NW	2	0.00000	0	0.0		11.76861	236	2.0	E	1		S	0	1	RET AND ANGLE ESTIM
2/1/2007	IML	1	3	11.78194	3	NW	2	11.78194	275	2.5		11.89361	240	3.9		1		S	0	3	
2/1/2007	IML	1	3	11.93806	3	NW	2	11.93806	261	0.9		12.20472	240	1.0		3		S	0	4	
2/1/2007	IML	1	3	12.18361	3	NW	2	0.00000	0	0.0		12.18361	261	2.0		1		S	0	1	
2/1/2007	IML	1	5	12.36194	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE
2/1/2007	IML	1	1	12.41500	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	IML	1	2	12.44917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	IML	1	3	12.45806	3	NW	3	12.45806	267	1.7		12.60861	240	2.0		1		S	0	4	
2/1/2007	IML	1	3	12.46361	3	NW	3	12.46361	261	1.4		12.56694	242	1.7		3		S	0	7	
2/1/2007	IML	1	3	12.63861	3	NW	3	12.63861	272	3.0	E	12.76083	244	3.1		1		S	0	5	ESTM RET
2/1/2007	IML	1	3	13.18611	3	NW	3	13.18611	278	1.2		13.39167	247	1.5		1		S	0	4	
2/1/2007	IML	1	3	13.21750	3	NW	3	13.21750	257	1.4		13.30583	240	1.6		1		S	0	5	
2/1/2007	IML	1	3	13.32250	3	NW	3	13.32250	273	1.4		13.50028	238	1.7		1		S	0	2	
2/1/2007	IML	1	5	13.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SDN	1	1	13.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/1/2007	SDN	1	3	13.53139	3	NW	3	0.00000	0	0.0		13.53139	241	1.8		3		S	0	1	
2/1/2007	SDN	1	3	13.77722	3	NW	3	13.77722	267	1.5		13.99194	242	1.6		1		S	0	4	
2/1/2007	SDN	1	3	13.82306	3	NW	3	13.82306	254	1.7		13.98222	231	1.8		3		S	0	3	
2/1/2007	SDN	1	3	14.04056	3	NW	3	14.04056	266	1.5		14.18500	243	1.6		1		S	0	5	
2/1/2007	SDN	1	3	14.09722	3	NW	3	14.09722	268	2.0		14.29667	248	2.6		1		S	0	3	
2/1/2007	SDN	1	3	14.44083	3	NW	3	14.44083	272	1.2		14.81056	244	1.4		2		S	0	4	
2/1/2007	SDN	1	3	14.77167	3	NW	3	14.77167	252	1.8		14.95000	232	1.5		3		S	0	3	
2/1/2007	SDN	1	3	14.91417	3	NW	3	0.00000	0	0.0		14.91417	243	3.5		1		S	0	1	
2/1/2007	SDN	1	3	15.04194	3	NW	3	0.00000	0	0.0		15.04194	248	0.8		2		S	0	1	
2/1/2007	SDN	1	3	15.09611	3	NW	3	15.09611	269	1.2		15.25111	243	1.2		3		S	0	4	
2/1/2007	SDN	1	3	15.32389	3	NW	3	0.00000	0	0.0		15.32389	244	1.3		2		S	0	1	
2/1/2007	SDN	1	5	15.34694	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/1/2007	SDN	1	1	15.40194	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
2/1/2007	SDN	1	3	15.55389	3	NW	3	15.55389	276	1.5		0.00000	0	0.0		0			0	0	Q
2/1/2007	SDN	1	3	15.85611	3	NW	3	15.85611	250	4.0		15.88222	246	4.0		1		S	0	2	
2/1/2007	SDN	1	3	16.39472	3	NW	3	0.00000	0	0.0		16.39472	253	1.8		1		S	0	1	
2/1/2007	SDN	1	5	16.55444	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/2/2007	SLM	1	1	7.43611	5	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SLM	1	3	7.51389	5	NE	2	0.00000	0	0.0		7.51389	235	1.9		2	1	S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/2/2007	SLM	1	2	7.59028	4	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SLM	1	3	7.76028	4	NE	2	7.76028	257	5.0		7.92389	214	4.2		1		S	0	3	
2/2/2007	SLM	1	3	7.78750	4	NE	2	7.78750	285	1.4		8.02139	240	2.3		3		S	0	7	
2/2/2007	SLM	1	3	8.30389	4	NE	2	8.30389	274	1.8		8.47750	239	2.1		2		S	0	4	
2/2/2007	SLM	1	2	8.67778	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SLM	1	3	9.00944	3	NE	2	9.00944	265	0.6		9.15667	254	0.8		2		S	0	2	
2/2/2007	SLM	1	3	9.03722	3	NE	2	9.03722	288	0.5		9.61306	240	1.1		3		S	0	0	
2/2/2007	SLM	1	3	9.46833	3	NE	2	0.00000	0	0.0		9.46833	242	1.1		4		S	0	2	
2/2/2007	SLM	1	3	9.53167	3	NE	2	9.53167	283	0.9		9.93694	242	1.3		2		S	0	0	
2/2/2007	SLM	1	3	9.71583	3	NE	2	0.00000	0	0.0		9.71583	240	1.2		3		S	0	3	
2/2/2007	SLM	1	2	9.76528	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SLM	1	3	9.78611	2	NW	2	0.00000	0	0.0		9.78611	237	11.0		2	1	S	0	2	
2/2/2007	SLM	1	5	10.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	IML	1	1	10.50028	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315, 50% OVERCAST, VISIB. HORIZON, FOAM FROM R10 TO SHORE. RET ESTM"
2/2/2007	IML	1	3	10.99944	2	NW	2	10.99944	273	0.9	E	11.21306	237	1.2		2		S	0	3	
2/2/2007	IML	1	8	11.37389	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SPORTFISHING BOAT GOING NORTH/240/1.8
2/2/2007	IML	1	3	11.45139	2	NW	2	11.45139	275	1.7		11.61111	246	2.2		1		S	0	5	
2/2/2007	IML	1	3	11.48306	2	NW	2	11.48306	281	1.2		11.71361	244	2.1		2		S	0	5	
2/2/2007	IML	1	3	11.48611	2	NW	2	11.48611	287	1.0		11.93250	238	1.8		3		S	0	4	
2/2/2007	IML	1	3	11.87528	2	NW	2	11.87528	262	0.2		12.16806	239	0.3		4		S	0	3	
2/2/2007	IML	1	2	12.76028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HAZY, OVERCAST 75%"
2/2/2007	IML	1	3	12.78694	3	NW	2	12.78694	265	4.5		12.80028	261	4.5		1		S	0	2	
2/2/2007	IML	1	3	12.89472	3	NW	2	12.89472	273	2.0		13.09444	240	2.5		2		S	0	3	
2/2/2007	IML	1	3	12.98833	3	NW	2	0.00000	0	0.0		12.98833	220	4.2		2		S	0	1	
2/2/2007	IML	1	3	13.05583	3	NW	2	13.05583	250	2.3		13.08472	242	2.8		1		S	0	3	
2/2/2007	IML	1	2	13.14472	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"NO HAZE, STILL OVERCAST 75%"
2/2/2007	IML	1	3	13.27972	2	NW	2	2.00000	0	0.0		13.27972	260	1.0		1		S	0	1	
2/2/2007	IML	1	3	13.34167	2	NW	2	13.34167	270	1.0		13.50500	247	1.1		3		S	0	4	
2/2/2007	IML	1	5	13.50000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SDN	1	1	13.50028	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SDN	1	3	13.63944	2	W	2	13.63944	254	1.2		13.73111	241	1.0		3		S	0	3	
2/2/2007	SDN	1	3	13.67583	2	W	2	13.67583	256	1.2		13.78889	238	1.2		2		S	0	3	
2/2/2007	SDN	1	3	13.89861	2	W	2	13.89861	247	4.7		13.91278	242	4.5		1		S	0	2	
2/2/2007	SDN	1	3	13.97306	2	W	2	0.00000	0	0.0		13.97306	252	2.5	E	1		S	0	1	MERGED WITH NEXT POD
2/2/2007	SDN	1	3	14.10000	2	W	2	14.10000	261	1.0		14.30111	240	1.5		3		S	0	2	
2/2/2007	SDN	1	3	14.28750	2	W	2	14.28750	274	3.5		14.43417	243	3.5		1		S	0	2	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/2/2007	SDN	1	3	14.38750	2	W	2	14.38750	253	0.8		14.51917	236	0.8		3		S	0	2	
2/2/2007	SDN	1	5	15.03917	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/2/2007	SDN	1	1	15.10806	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
2/2/2007	SDN	1	3	15.23222	2	W	2	15.23222	272	4.0		15.32667	242	4.0		2	1	S	0	3	
2/2/2007	SDN	1	3	15.24972	2	W	2	15.24972	254	2.8		15.29917	239	3.0		1		S	0	2	
2/2/2007	SDN	1	2	15.48750	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/2/2007	SDN	1	3	15.60556	3	NW	2	15.60556	272	1.0		15.86889	240	1.0		3		S	0	4	
2/2/2007	SDN	1	3	15.80611	3	NW	2	15.80611	254	2.0		15.96389	237	2.0		1		S	1	2	
2/2/2007	SDN	1	3	15.83056	3	NW	2	15.83056	261	1.0		16.10833	242	1.0		3		S	0	4	
2/2/2007	SDN	1	3	16.45472	3	NW	2	0.00000	0	0.0		16.45472	242	1.0		1		S	0	1	
2/2/2007	SDN	1	5	16.50722	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/3/2007	IML	1	1	7.34056	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B1305, A315.5 FOG ON HORIZON, CLEAR SKY, LOW LIGHT"
2/3/2007	IML	1	8	7.37972	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	COMERCIAL FISHING BOAT GOING S/242/3.0
2/3/2007	IML	1	8	7.45361	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/230/1.2
2/3/2007	IML	1	2	7.82722	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MORE LIGHT BUT FOG ON HORIZON FROM R 0 TO 1
2/3/2007	IML	1	8	7.85778	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/239/4.9
2/3/2007	IML	1	3	7.91389	4	NW	2	0.00000	0	0.0		7.91389	240	1.0	E	1		S	0	2	RET ESTM
2/3/2007	IML	1	8	8.03472	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/242/0.4
2/3/2007	IML	1	5	8.04694	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BRAKE
2/3/2007	IML	1	1	8.08500	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	IML	1	3	8.13639	4	NW	2	8.13639	252	1.4	E	8.27194	228	1.4	E	1		S	0	2	
2/3/2007	IML	1	2	8.37056	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"STILL FOG ON HORIZON NORTH OF 230, HAZY"
2/3/2007	IML	1	3	8.47500	3	NW	2	8.47500	260	1.0	E	8.64444	240	1.2	E	5		S	0	2	RET ESTM
2/3/2007	IML	1	3	8.49167	3	NW	2	8.49167	249	1.2	E	8.52472	245	1.3	E	1		S	0	2	RET ESTM
2/3/2007	IML	1	3	8.67694	3	NW	2	0.00000	0	0.0		8.67694	235	4.2		1		S	0	1	
2/3/2007	IML	1	3	8.71583	3	NW	2	0.00000	0	0.0		8.71583	242	1.2		3		S	0	1	
2/3/2007	IML	1	4	8.90639	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	JUST HAZE NOW
2/3/2007	IML	1	4	9.39750	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NO HAZE
2/3/2007	IML	1	3	9.41722	3	NW	2	0.00000	0	0.0		9.41722	267	0.2		2		S	0	1	SPOTTED IN BINOS
2/3/2007	IML	1	5	9.78139	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE
2/3/2007	IML	1	1	9.83500	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	IML	1	8	9.87278	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/240/1.4

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/3/2007	IML	1	8	10.19417	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CARGOSHIP GOING NORTH/239/0.0, JUST BARELY SEEN THROUGH FOG"
2/3/2007	IML	1	4	10.20111	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG ON HOR
2/3/2007	IML	1	3	10.32250	3	NW	2	0.00000	0	0.0		10.32250	240	1.0		1		S	0	1	ELUSIVE
2/3/2007	IML	1	5	10.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SDN	1	1	10.50028	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SDN	1	3	11.02694	3	N	2	11.02694	290	5.0		11.27417	251	6.0		1		S	0	2	
2/3/2007	SDN	1	2	11.11444	4	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SDN	1	3	11.68889	4	N	2	11.68889	275	1.0		11.87306	246	1.0		1		S	0	2	
2/3/2007	SDN	1	3	11.77778	4	N	2	11.77778	270	1.0		11.99611	242	1.0		2		S	0	3	
2/3/2007	SDN	1	3	12.02500	4	N	2	12.02500	277	1.2		12.29139	241	1.0		4		S	0	4	
2/3/2007	SDN	1	3	12.05722	4	N	2	12.05722	258	1.0		12.25222	244	1.0		2		S	0	2	
2/3/2007	SDN	1	3	12.20111	4	N	2	12.20111	256	2.6		12.27778	238	2.6		1		S	0	2	
2/3/2007	SDN	1	3	12.33333	4	N	2	12.33333	260	0.8		12.48833	239	1.0		5		S	0	4	
2/3/2007	SDN	1	3	12.45444	4	N	2	12.45444	260	1.0		12.58111	244	1.0		2		S	0	3	
2/3/2007	SDN	1	3	12.55861	4	N	2	12.55861	253	1.0		12.69000	244	1.0		3		S	0	3	
2/3/2007	SDN	1	3	12.67306	4	N	2	12.67306	271	0.8		12.95417	244	0.8		4		S	0	4	
2/3/2007	SDN	1	3	12.70139	4	N	2	12.70139	261	0.8		12.95417	244	0.8		4		S	0	4	GROUP MERGED WITH PREVIOUS POD AT 244
2/3/2007	SDN	1	8	12.86000	4	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NORTHBOUND FISHING BOAT RETICLE 4
2/3/2007	SDN	1	3	12.99306	4	N	2	12.99306	253	1.0		13.22083	237	1.0		2		S	0	2	
2/3/2007	SDN	1	3	13.13083	4	N	2	13.13083	254	1.2		13.21750	243	1.2		3		S	0	4	
2/3/2007	SDN	1	3	13.23333	4	N	2	13.23333	258	7.0		13.37194	219	7.0		1		S	0	2	
2/3/2007	SDN	1	3	13.27444	4	N	2	13.27444	245	1.0		13.31889	242	1.0		3		S	0	2	
2/3/2007	SDN	1	2	13.29806	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SDN	1	3	13.38500	3	N	2	13.38500	247	1.2		13.44000	238	1.2		2		S	0	2	
2/3/2007	SDN	1	5	13.50000	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/3/2007	SLM	1	1	13.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SLM	1	3	13.58194	3	NW	2	13.58194	272	1.2		13.79000	241	1.6		2		S	0	5	
2/3/2007	SLM	1	8	13.65750	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FISHING BOAT, RET. 4.5, 241, HEADING NORTH"
2/3/2007	SLM	1	3	13.67278	3	NW	2	13.67278	273	1.3		13.88417	237	1.4		2		S	1	4	
2/3/2007	SLM	1	2	13.95833	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/3/2007	SLM	1	3	13.96694	4	NW	2	13.96694	252	1.4		14.15611	235	1.5		4		S	0	0	
2/3/2007	SLM	1	3	13.97583	4	NW	2	0.00000	0	0.0		13.97583	239	1.6		2		S	0	0	
2/3/2007	SLM	1	8	14.02917	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RET. 1.5, 240, DIVE BOAT, TRAVELING NORTH"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/3/2007	SLM	1	3	14.26028	4	NW	2	0.00000	0	0.0		14.26028	235	1.8		1		S	0	2	
2/3/2007	SLM	1	3	14.32694	4	NW	2	14.32694	262	1.8		14.46250	234	1.7		2		S	0	2	
2/3/2007	SLM	1	3	14.37500	4	NW	2	14.37500	264	2.1		14.49556	236	2.6		2		S	0	3	
2/3/2007	SLM	1	3	14.44889	4	NW	2	14.44889	278	2.1		14.76417	234	3.0		1		S	0	3	
2/3/2007	SLM	1	3	14.52778	4	NW	2	14.52778	252	4.0		14.57333	238	6.5		1		S	0	3	
2/3/2007	SLM	1	3	14.54611	4	NW	2	14.54611	265	4.0		14.60194	248	4.5		3		S	0	0	
2/3/2007	SLM	1	3	14.67083	4	NW	2	14.67083	250	1.3		14.79667	236	1.7		4		S	0	0	
2/3/2007	SLM	1	3	14.82056	4	NW	2	14.82056	262	1.3		14.95139	236	2.0		1		S	0	0	
2/3/2007	SLM	1	2	14.91694	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
2/3/2007	SLM	1	3	15.58694	3	NW	2	15.58694	287	4.5		15.69667	243	5.5		2	1	S	0	4	
2/3/2007	SLM	1	3	15.66306	3	NW	2	15.66306	271	0.6		15.91778	242	0.8		3		S	0	0	
2/3/2007	SLM	1	3	15.78833	3	NW	2					15.98722	241	0.8		3		S	0	0	COULD HAVE BEEN PART OF LAST POD TOO
2/3/2007	SLM	1	5	16.50000	3	NW	2	15.66306	271	0.6		0.00000	0	0.0		0					
2/4/2007	SLM	1	1	7.40833	5	SW	1	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	SLM	1	3	8.21694	5	SW	1	0.00000	0	0.0		8.21694	239	1.1		1		S	0	2	
2/4/2007	SLM	1	3	8.32222	5	SW	1	0.00000	0	0.0		8.32222	240	1.2		3		S	0	3	
2/4/2007	SLM	1	3	8.60389	5	SW	1	0.00000	0	0.0		8.60389	244	1.2		1		S	0	1	
2/4/2007	SLM	1	2	8.86944	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	SLM	1	3	9.06333	5	SW	2	9.06333	275	1.8		9.23083	235	2.1		3		S	0	5	"PRIVATE SHIP. RET. 0.2, 241, HEADING SOUTH"
2/4/2007	SLM	1	8	9.31500	5	SW	2					0.00000	0	0.0		0					
2/4/2007	SLM	1	2	9.38750	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	SLM	1	5	10.50000	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	CDV	1	1	10.50028	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0					13509 315
2/4/2007	CDV	1	3	10.92944	4	NW	2	10.92944	259	2.5		11.04222	233	2.5		3		S	0	2	
2/4/2007	CDV	1	3	11.42250	4	NW	2	0.00000	0	0.0		11.42250	192	2.5		1		S	0	2	
2/4/2007	CDV	1	2	11.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	CDV	1	3	11.56000	3	NW	2	11.56000	283	1.2		11.88528	242	1.7		4		S	0	3	
2/4/2007	CDV	1	3	11.72000	3	NW	2	11.72000	272	5.8		11.84167	223	6.0		3		S	0	2	
2/4/2007	CDV	1	3	12.01333	3	NW	2	0.00000	0	0.0		12.01333	215	1.0		1		S	0	1	
2/4/2007	CDV	1	3	12.34250	3	NW	2	0.00000	0	0.0		12.34250	200	0.5		7		S	0	2	
2/4/2007	CDV	1	3	12.57556	3	NW	2	0.00000	0	0.0		12.57556	216	0.8		1		S	0	2	
2/4/2007	CDV	1	3	12.87944	3	NW	2	12.87944	264	1.5		13.08444	243	1.5		2		S	0	3	
2/4/2007	CDV	1	3	13.15250	3	NW	2	13.15250	246	1.3		13.20278	238	1.4		3		S	0	3	
2/4/2007	CDV	1	3	13.18333	3	NW	2	13.18333	256	1.2		13.25028	242	1.5		4		S	1	4	
2/4/2007	CDV	1	3	13.28528	3	NW	2	0.00000	0	0.0		13.11861	242	1.5		2		S	0	0	BROKE OFF FROM 131100 POD AT 242 DEGREES
2/4/2007	CDV	1	2	13.31667	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0					
2/4/2007	CDV	1	5	13.50000	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0					

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/4/2007	SDN	1	1	13.50028	2	W	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/4/2007	SDN	1	3	13.56556	2	W	1	13.56556	257	1.5		13.73083	236	1.4		3		S	0	3	
2/4/2007	SDN	1	3	13.69722	2	W	1	0.00000	0	0.0		13.69722	238	6.0		1		S	0	1	
2/4/2007	SDN	1	3	13.75833	2	W	1	13.75833	262	1.2		13.98500	241	1.0		1		S	0	3	
2/4/2007	SDN	1	2	14.49250	3	W	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/4/2007	SDN	1	3	14.85722	3	W	1	14.85722	271	1.0		15.09167	238	1.0		4		S	0	4	
2/4/2007	SDN	1	8	15.31250	3	W	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NORTHBOUND SPEEDBOAT RETICLE 5.0
2/4/2007	SDN	1	3	15.43278	3	W	1	15.43278	260	1.0		15.53500	242	1.0		2		S	0	3	
2/4/2007	SDN	1	3	16.05722	3	W	1	16.05722	262	2.0	E	16.17222	241	2.0	E	1		S	0	5	
2/4/2007	SDN	1	5	16.50389	3	W	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/5/2007	SLR	1	1	7.42444	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BT3509, A315 HIGH GLARE, SLIGHT BREEZE"
2/5/2007	SLR	1	3	7.50028	4	SW	2	7.50028	263	1.8		7.64722	240	2.0		2		S	0	2	1 WHALE FLUKED UP AT 263A
2/5/2007	SLR	1	3	7.65833	4	SW	2	0.00000	0	0.0		7.65833	221	1.6		1		S	0	2	FLUKED UP
2/5/2007	SLR	1	3	7.78750	4	SW	2	0.00000	0	0.0		7.78750	235	4.6		1		N	0	2	"FLUKED UP NORTH DIRECTION 235, SIGHTED AGAIN AT 260A RET 3.2.07:53"
2/5/2007	SLR	1	3	7.85917	4	SW	2	0.00000	0	0.0		7.85917	242	1.2		3		S	0	3	3 PODS TRAVELING AT SAME OR SIMILAR RET (THIS ENTRY AND FOLLOWING 2)
2/5/2007	SLR	1	3	7.91639	4	SW	2	0.00000	0	0.0		7.91639	244	1.2		2		S	0	3	
2/5/2007	SLR	1	3	7.98417	4	SW	2	0.00000	0	0.0		7.98417	238	1.0		1		S	0	3	
2/5/2007	SLR	1	3	8.02222	4	SW	2	0.00000	0	0.0		8.02222	239	1.0		2		S	0	1	4TH POD TRAVELING SIMILAR RET
2/5/2007	SLR	1	3	8.18472	4	SW	2	8.18472	253	1.5		8.32806	240	1.6		2		S	0	2	FLUKED UP AT 253A
2/5/2007	SLR	1	2	8.41806	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LESS GLARE BUT HORIZON HAS FOG
2/5/2007	SLR	1	3	8.58056	3	NW	3	0.00000	0	0.0		8.58056	252	1.0	E	1		N	0	2	"TRACKED 252 TO 255, AGAIN AT 269A RET 1 08:45"
2/5/2007	SLR	1	3	8.79583	3	NW	3	8.79583	265	2.0	E	8.93889	240	2.1	E	2		S	0	5	(HORIZON FOGGED IN)
2/5/2007	SLR	1	2	8.98667	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HIGH GLARE AGAIN, HORIZON STILL FOGGED"
2/5/2007	SLR	1	5	9.02833	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/5/2007	SLR	1	1	9.07222	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/5/2007	SLR	1	4	9.24722	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND CHANGING DIRECTION

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/5/2007	SLR	1	3	9.26667	4	SW	2	9.26667	284	5.0		9.40556	222	4.0		1		S	0	4	TRAVELED MORE OFFSHORE WITH SOUTH SIGHTING
2/5/2007	SLR	1	2	9.45361	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LESS FOG ON HORIZON (LITTLE CLEARER), GLARE DECREASED"
2/5/2007	SLR	1	3	9.51611	3	SW	2	9.51611	264	1.9		9.65417	235	2.1		1		S	0	8	HIGH FLUKE UP AT 235A
2/5/2007	SLR	1	2	10.09694	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE AGAIN
2/5/2007	SLR	1	5	10.50000	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/5/2007	SDN	1	1	10.50028	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/5/2007	SDN	1	4	10.73889	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON HARD TO MAKE OUT BECAUSE OF HAZE
2/5/2007	SDN	1	2	10.86389	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING HAZE
2/5/2007	SDN	1	3	10.88250	5	SW	2	10.88250	256	1.5		11.04056	237	1.5		3		S	0	2	
2/5/2007	SDN	1	3	11.67556	5	SW	2	11.67556	259	2.0		11.81667	240	2.2		2		S	0	3	
2/5/2007	SDN	1	3	11.88222	5	SW	2	11.88222	260	2.0		12.01889	246	2.0		3		S	0	3	
2/5/2007	SDN	1	3	12.17972	5	SW	2	0.00000	0	0.0		12.17972	243	1.0		1		S	0	1	
2/5/2007	SDN	1	8	12.30139	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOUTHBOUND SPEEDBOAT RETICLE 6.0
2/5/2007	SDN	1	2	12.36972	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE DOWN A BIT
2/5/2007	SDN	1	3	12.71417	4	SW	2	12.69750	268	10.0		12.84833	242	10.0		1		S	0	2	
2/5/2007	SDN	1	2	12.85444	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG UP, CAN'T MAKE OUT HORIZON"
2/5/2007	SDN	1	3	13.27889	5	SW	2	0.00000	0	0.0		13.27889	229	2.0		2		S	0	1	
2/5/2007	SDN	1	5	13.50000	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/5/2007	CDV	1	1	13.50028	5	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
2/5/2007	CDV	1	3	13.79667	5	NW	2	0.00000	0	0.0		13.79667	278	2.0		1		S	1	1	
2/5/2007	CDV	1	3	13.82778	5	NW	2	13.82778	289	4.5		14.05611	242	4.8		2		S	0	3	
2/5/2007	CDV	1	3	14.39111	5	NW	2	14.39111	270	1.0		14.72806	242	1.5		5		S	0	3	
2/5/2007	CDV	1	2	14.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/5/2007	CDV	1	3	14.60361	4	NW	2	14.60361	267	1.0		14.87250	236	1.5		3		S	0	3	
2/5/2007	CDV	1	3	14.84889	4	NW	2	14.84889	250	1.5		14.89972	238	1.5		7		S	0	3	
2/5/2007	CDV	1	3	14.90000	4	NW	2	0.00000	0	0.0		14.90000	240	1.5		1		S	0	2	
2/5/2007	CDV	1	3	14.94583	4	NW	2	14.94583	268	2.0		15.09639	239	2.0		2		S	0	3	
2/5/2007	CDV	1	3	15.07139	4	NW	2	0.00000	0	0.0		15.07139	240	1.0		2		S	0	2	
2/5/2007	CDV	1	3	15.12111	4	NW	2	15.12111	265	3.5		15.21278	240	3.5		1		S	0	3	
2/5/2007	CDV	1	3	15.80278	4	NW	2	15.80278	273	1.2		15.99972	240	1.2		2		S	0	3	
2/5/2007	CDV	1	3	15.85583	4	NW	2	15.85583	277	1.0		16.10306	242	1.2		1		S	0	3	
2/5/2007	CDV	1	3	16.10528	4	NW	2	16.10528	251	1.3		16.30000	218	1.0		3		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/5/2007	CDV	1	5	16.50000	4	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/6/2007	SDN	1	1	7.47167	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/6/2007	SDN	1	3	7.60583	2	W	2	0.00000	0	0.0		7.60583	244	1.5		1		S	0	1	
2/6/2007	SDN	1	3	8.22139	2	W	2	8.22139	257	1.0		8.23500	239	1.0		3		S	0	3	
2/6/2007	SDN	1	3	8.77667	2	W	2	8.61278	265	3.0		8.94944	234	3.0		2		S	0	3	
2/6/2007	SDN	1	3	8.97500	2	W	2	8.97500	271	2.0		9.20167	232	2.5		4		S	0	3	
2/6/2007	SDN	1	5	9.38639	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/6/2007	SDN	1	1	9.43583	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
2/6/2007	SDN	1	3	9.45028	2	W	2	9.45028	266	1.0		9.73500	242	1.2		2		S	0	4	
2/6/2007	SDN	1	3	9.89444	2	W	2	9.89444	254	1.5		10.07667	231	1.8		2		S	0	3	
2/6/2007	SDN	1	2	10.34750	3	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING HAZE
2/6/2007	SDN	1	5	10.50000	3	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/6/2007	SLR	1	1	10.50028	3	W	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, 315A, PATCHY GLARE"
2/6/2007	SLR	1	2	11.41361	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/6/2007	SLR	1	3	11.51944	3	SW	2	11.51944	287	1.0		11.88889	241	1.7		2		S	0	6	BOTH WHALES FLUKED UP
2/6/2007	SLR	1	4	11.66667	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GLARE IN SOUTH, SOME DARK PATCHES IN NORTH"
2/6/2007	SLR	1	3	12.20833	3	SW	2	0.00000	0	0.0		12.20833	250	1.4	E	2		S	0	4	4 N CUES WITH TRACKING BUT LOST SOUTH SIGHTING IN GLARE
2/6/2007	SLR	1	3	12.33333	3	SW	2	12.33333	262	1.8		12.43333	243	1.7		4		S	0	2	"4 WHALES FLUKED UP, S SIGHTING AT ALITTLE FARTHER RET THAN EXPECTED"
2/6/2007	SLR	1	3	12.52500	3	SW	2	0.00000	0	0.0		12.52500	249	1.8		2		S	0	2	
2/6/2007	SLR	1	3	12.70861	3	SW	2	0.00000	0	0.0		12.70861	221	1.3		1		S	0	1	SLIPPED BY ME IN PATCHY GLARE?
2/6/2007	SLR	1	4	12.73333	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE IS PATCHY THRU-OUT
2/6/2007	SLR	1	3	12.74028	3	SW	2	12.74028	256	1.2		12.85028	243	1.3		3		S	0	2	3 WHALES FLUKED UP
2/6/2007	SLR	1	3	13.06694	3	SW	2	0.00000	0	0.0		13.06694	240	1.3		5		S	0	2	LOOKS LIKE DIFFERENT POD FROM PREVIOUS ENTRY (125101)
2/6/2007	SLR	1	3	13.33417	3	SW	2	0.00000	0	0.0		13.33417	239	1.1		1		S	0	2	
2/6/2007	SLR	1	5	13.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/6/2007	IML	1	1	13.50028	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, OVERCAST, VISIB. HOR. FLAT SEAS, PATCHY GLARE"
2/6/2007	IML	1	3	13.56167	3	SW	2	13.56167	255	2.0		13.70417	230	2.0		2		S	0	3	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/6/2007	IML	1	3	13.73333	3	SW	2	0.00000	0	0.0		13.73333	243	1.7	1			S	0	2	
2/6/2007	IML	1	3	13.80861	3	SW	2	13.80861	246	1.1		13.84417	241	1.1	2			S	0	4	
2/6/2007	IML	1	3	13.86694	3	SW	2	0.00000	0	0.0		13.86694	207	6.2	1			S	0	1	
2/6/2007	IML	1	3	14.36833	3	SW	2	14.03500	273	2.1		14.50583	241	2.6	1			S	0	2	RESTROOM BRAKE
2/6/2007	IML	1	5	14.52333	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/6/2007	IML	1	1	14.58778	3	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"LOW LIGHT, POOR CONTRAST, MANY FALSE CUES"
2/6/2007	IML	1	2	14.70417	4	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/6/2007	IML	1	3	14.84028	4	SW	2	0.00000	0	0.0		14.84028	220	2.2	1			S	0	1	
2/6/2007	IML	1	3	14.92306	4	SW	2	14.92306	291	0.8		15.52194	232	1.4	1			S	0	2	LATE
2/6/2007	IML	1	3	15.31778	4	SW	2	15.31778	270	1.2		15.53611	240	1.6	2			S	1	4	
2/6/2007	IML	1	2	16.05250	5	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"HEAVY GLARE AND HAZE, OVERCAST, NO CONTRAST"
2/6/2007	IML	1	4	16.21306	5	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	FOG ON HOR.
2/6/2007	IML	1	5	16.50000	5	SW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/7/2007	IML	1	1	7.38083	5	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"B13509, A315, OVERCAST, LOW LIGHT, VISIB. HORIZON, FLAT SEAS"
2/7/2007	IML	1	8	7.45333	5	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	BOAT/214/0.0 SITTING WITH BRIGHT LIGHT ~ SQUID BOAT
2/7/2007	IML	1	3	7.51472	5	SW	3	7.51472	25	2.1		7.54778	244	2.1	2			S	0	4	
2/7/2007	IML	1	2	7.56222	4	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	LIGHT INCREASE
2/7/2007	IML	1	2	7.88972	3	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/7/2007	IML	1	3	8.04694	3	SW	3	0.00000	0	0.0		8.04694	244	2.0	1			S	0	1	
2/7/2007	IML	1	8	8.15278	3	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	CARGOSHIP GOING NORTH/241/0.3
2/7/2007	IML	1	4	8.16750	3	SW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	FOG MOVING IN FROM SW
2/7/2007	IML	1	2	8.21056	4	SW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"FOG AND HAZE, DECREASED VISIB. GREY EVERYWHERE"
2/7/2007	IML	1	3	8.46139	4	SW	4	8.46139	275	2.1		9.56750	245	2.5	1			S	0	3	
2/7/2007	IML	1	4	8.70944	4	SW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	NO FOG
2/7/2007	IML	1	3	8.72278	4	SW	4	8.72278	282	1.3		9.03222	244	1.8	1			S	0	5	LATE.
2/7/2007	IML	1	3	8.75611	4	SW	4	0.00000	0	0.0		8.75611	244	2.4	1			S	0	2	
2/7/2007	IML	1	2	9.15639	3	SW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/7/2007	IML	1	3	9.18694	3	SW	4	9.18694	266	1.4		9.32722	244	1.9	1			S	0	3	
2/7/2007	IML	1	3	9.40417	3	SW	4	9.40417	249	1.4		9.53528	232	1.4	1			S	0	2	ANGLE AND RET ESTM
2/7/2007	IML	1	4	9.56389	3	SW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	NOW PREV. SQUID

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/7/2007	IML	1	3	9.59028	3	SW	4	9.59028	292	2.5		9.82111	249	4.2		1		S	0	4	BOAT FACING NORTH/239/0.2
2/7/2007	IML	1	3	9.99306	3	SW	4	0.00000	0	0.0		9.99306	278	1.5		1		S	0	1	LATE
2/7/2007	IML	1	3	10.04194	3	SW	4	10.04194	282	0.9		10.39472	242	1.2		2		S	0	3	LATE
2/7/2007	IML	1	2	10.32667	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/7/2007	IML	1	3	10.34194	4	SW	5	0.00000	0	0.0		10.34194	242	2.2		1		N	0	1	POSSIBLE LATE FOR 095935
2/7/2007	IML	1	3	10.45639	4	SW	5	0.00000	0	0.0		10.45639	241	2.2		1		S	0	1	POSSIBLY THE NORTHBOUND WHALE
2/7/2007	IML	1	5	10.50000	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/7/2007	SDN	1	1	10.50028	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/7/2007	SDN	1	3	10.99167	4	SW	5	10.99167	279	1.0		11.30611	242	1.6		4		S	1	5	
2/7/2007	SDN	1	3	11.26861	4	SW	5	11.26861	266	1.0		11.49861	240	1.2		2		S	0	4	
2/7/2007	SDN	1	4	11.56778	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STARTED RAINING
2/7/2007	SDN	1	2	11.64861	5	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING WIND AND RAIN
2/7/2007	SDN	1	3	11.97583	5	SW	5	11.97583	260	2.5		12.06853	238	3.0		1		S	0	3	
2/7/2007	SDN	1	5	12.08583	5	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/7/2007	SDN	1	1	12.14611	5	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BACK ON WATCH
2/7/2007	SDN	1	3	12.34250	5	SW	5	0.00000	0	0.0		12.34250	244	2.0		1		S	0	1	
2/7/2007	SDN	1	2	12.64778	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LIGHT DRIZZLING, WIND DOWN A BIT"
2/7/2007	SDN	1	3	13.07278	4	SW	5	13.07278	268	2.0		13.18111	244	2.0		6		S	0	4	
2/7/2007	SDN	1	5	13.50000	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/7/2007	SLR	1	1	13.50028	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BT3509; A315, HORIZON FOGGED IN, DARK SKIES; LIGHT RAIN"
2/7/2007	SLR	1	4	14.01500	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	CAN SEE HORIZON LINE NOW
2/7/2007	SLR	1	4	15.38472	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON BECOMING FOGGED IN AGAIN
2/7/2007	SLR	1	4	15.45667	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG MOVED NORTH, CAN SEE HORIZON NOW"
2/7/2007	SLR	1	2	15.55528	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SUPER HIGH GLARE, RAIN STOPPED"
2/7/2007	SLR	1	5	15.64028	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/7/2007	SLR	1	1	15.69583	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE DECREASED ALOT
2/7/2007	SLR	1	2	16.00806	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE MOVED IN AGAIN AND SOME FOG ON HORIZON

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/7/2007	SLR	1	5	16.50000	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/8/2007	SLR	1	1	7.34722	4	S	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 HORIZON FOGGED IN, DARK SKIES, LIGHT RAIN - MIST"
2/8/2007	SLR	1	2	7.55028	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE
2/8/2007	SLR	1	2	7.91861	5	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME SPRAY
2/8/2007	SLR	1	2	8.41833	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SOME FOG LIFTED FROM HORIZON
2/8/2007	SLR	1	5	8.90194	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/8/2007	SLR	1	1	8.97750	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CAN SEE HORIZON, DARK SKIES STILL, RAIN STOPPED"
2/8/2007	SLR	1	2	9.72556	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SOME FOG ON HORIZON AGAIN, DARK SEAS AND DARK SKIES"
2/8/2007	SLR	1	2	10.08472	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SOME FOAM, WIND PICKING UP MORE"
2/8/2007	SLR	1	4	10.26028	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON CLEAR
2/8/2007	SLR	1	3	10.45028	5	SW	7	0.00000	0	0.0		10.45028	245	5.1		2	S	0	1		
2/8/2007	SLR	1	5	10.50000	5	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/8/2007	SDN	1	1	10.50028	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/8/2007	SDN	1	3	11.18083	4	SW	6	0.00000	0	0.0		11.18083	238	1.0		1	S	0	1		
2/8/2007	SDN	1	4	11.54917	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HORIZON HARD TO MAKE OUT BECAUSE OF FOG
2/8/2007	SDN	1	3	11.57333	4	SW	6	11.57333	262	2.5	E	11.67472	239	2.5	E	2	S	0	3		
2/8/2007	SDN	1	2	11.75056	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING FOG
2/8/2007	SDN	1	2	12.44083	6	SW	6					0.00000	0	0.0		0			0	0	ZERO VIS BECAUSE OF FOG
2/8/2007	SDN	1	5	12.44750	6	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG HAS REACHED SHORE
2/8/2007	SDN	1	1	12.58583	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BACK ON, FOG DOWN A BIT"
2/8/2007	SDN	1	2	13.16250	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LESS FOG
2/8/2007	SDN	1	3	13.40833	4	SW	6	13.40833	282	4.0	E	13.54167	230	5.0	E	1	S	0	3		
2/8/2007	SDN	1	5	13.50000	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/8/2007	IML	1	1	13.50028	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, OVERCAST, FOG ON HOR."
2/8/2007	IML	1	2	13.59694	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	THICK FOG R 0 TO 2.5
2/8/2007	IML	1	4	13.86000	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"THICK FOG, NOW HALF WAY TO SHORE, NO HOR"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/8/2007	IML	1	2	14.28917	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"VISIB. HOR. FOG RETREATED"
2/8/2007	IML	1	2	14.69528	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FO ON LINE - R 0 TO 3.0
2/8/2007	IML	1	2	14.99306	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FOG ON HOR. TO ~ R 2.0
2/8/2007	IML	1	4	15.12417	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	VISIB HOR
2/8/2007	IML	1	2	15.79472	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GOOD CONTRAST, VISIB HOR. NO FOG"
2/8/2007	IML	1	5	15.88056	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BRAKE
2/8/2007	IML	1	1	15.96000	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/8/2007	IML	1	3	16.06028	3	SW	5	16.06028	270	3.0		16.20333	231	3.2	1		S	0	5		
2/8/2007	IML	1	5	16.50000	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLM	1	1	7.38889	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLM	1	6	7.61583	5	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"7-10 BOTTLENOSE (I THINK) DOLPHINS, RET-4.0, 238, TRAVELING SOUTH"
2/9/2007	SLM	1	2	7.88611	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLM	1	3	8.35556	4	SW	3	0.00000	0	0.0		8.35556	241	1.4	3		S	9	3		
2/9/2007	SLM	1	2	9.04583	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLM	1	2	9.62389	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLM	1	3	9.82083	3	SW	3	9.82083	284	1.4		10.01472	265	1.5	2		S	0	4		
2/9/2007	SLM	1	3	10.07722	3	SW	3	10.07722	270	1.8		10.25278	245	1.6	2		S	0	3		
2/9/2007	SLM	1	3	10.11889	3	SW	3	10.11889	276	1.1		10.39306	246	1.8	1		S	0	3		
2/9/2007	SLM	1	5	10.50000	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLR	1	1	10.50028	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315"
2/9/2007	SLR	1	3	10.53639	3	SW	3	0.00000	0	0.0		10.53639	263	2.8	1		s	0	1		"TRAVEL DIRECTION UNKNOWN, JUST CAUGHT END OF BLOW AND SLICK"
2/9/2007	SLR	1	3	10.58361	3	SW	3	0.00000	0	0.0		10.58361	235	1.7	E	1		S	0	1	SHAE PASSED ON POD
2/9/2007	SLR	1	3	10.67083	3	SW	3	10.67083	251	2.0		10.71833	244	2.0	1		S	0	2		
2/9/2007	SLR	1	2	10.84333	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"DARK, OVERCAST"
2/9/2007	SLR	1	3	10.88917	4	SW	4	0.00000	0	0.0		10.88917	236	2.0	1		S	0	2		
2/9/2007	SLR	1	3	10.91528	4	SW	4	10.91528	252	2.5		11.00278	234	2.5	E	1		S	0	2	
2/9/2007	SLR	1	3	11.05139	4	SW	4	0.00000	0	0.0		11.05139	246	2.8	1		S	0	1		
2/9/2007	SLR	1	3	11.24167	4	SW	4	0.00000	0	0.0		11.24167	230	1.8	2		S	0	1		
2/9/2007	SLR	1	2	11.30806	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SEAS PICKING UP, FOAM AND ALSO RAIN"
2/9/2007	SLR	1	2	11.47361	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAIN STOPPED, FOG ON HORIZON"
2/9/2007	SLR	1	4	11.89389	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLR	1	2	12.14889	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HIGH FOG, HAZE AND

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/9/2007	SLR	1	5	12.21722	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE"
2/9/2007	SLR	1	1	12.27528	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/9/2007	SLR	1	2	12.55056	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAINING AGAIN, (LIGHT)"
2/9/2007	SLR	1	3	12.71806	4	SW	5	0.00000	0	0.0		12.71806	240	1.5	E	1	N	0	4	0	LESS FOG AND GLARE
2/9/2007	SLR	1	2	12.90389	3	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG LIFTED, LESS WHITECAPS"
2/9/2007	SLR	1	3	13.04722	3	SW	4	13.04722	283	1.8	E	13.43583	246	2.3		1	S	0	3	0	GLARE MOVING IN AGAIN
2/9/2007	SLR	1	2	13.12056	4	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLR	1	2	13.48528	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SLR	1	5	13.50000	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SDN	1	1	13.50028	4	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/9/2007	SDN	1	2	13.57472	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH WINDS FROM SW
2/9/2007	SDN	1	2	14.35389	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	WIND DOWN A BIT
2/9/2007	SDN	1	2	14.40278	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STARTED RAINING
2/9/2007	SDN	1	3	14.47361	4	SW	6	14.47361	268	1.5	E	14.65333	239	1.5	E	2	S	0	3	0	RETICLE EST BECAUSE OF FOGGY HORIZON
2/9/2007	SDN	1	2	14.76056	5	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	INCREASING FOG
2/9/2007	SDN	1	3	15.21333	5	SW	6	0.00000	0	0.0		15.21333	249	1.5	E	1	S	0	1	0	
2/9/2007	SDN	1	2	16.02444	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"FOG RISING A BIT, HORIZON IS A BIT MORE CLEAR"
2/9/2007	SDN	1	3	16.31278	4	SW	6	16.31278	276	2.0	E	16.47028	245	3.0	E	2	S	0	3	0	
2/9/2007	SDN	1	5	16.50167	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/10/2007	SLR	1	1	7.33972	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 RAIN AND DARK SKIES"
2/10/2007	SLR	1	2	7.85722	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"RAIN STOPPED, SKY LIGHTER"
2/10/2007	SLR	1	4	8.38944	4	SW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE
2/10/2007	SLR	1	2	8.53028	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND PICKING UP, SKY DARKER AGAIN"
2/10/2007	SLR	1	3	8.73056	4	SW	7	0.00000	0	0.0		8.73056	241	1.0		2	S	0	2	0	
2/10/2007	SLR	1	3	8.94472	4	SW	7	0.00000	0	0.0		8.94472	235	1.2		2	S	0	1	0	
2/10/2007	SLR	1	3	9.39583	4	SW	7	0.00000	0	0.0		9.39583	222	4.0	E	1	S	0	2	0	FOG ON HORIZON
2/10/2007	SLR	1	5	9.62167	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/10/2007	SLR	1	1	9.66417	4	SW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LIGHT RAIN
2/10/2007	SLR	1	2	10.16472	5	SW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RAIN STOPPED
2/10/2007	SLR	1	5	10.50000	5	SW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	STEAK WAVES EVERYWHERE
2/10/2007	SDN	1	1	10.50028	5	SW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/10/2007	SDN	1	4	11.09000	5	SW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOW CLOUD COVER

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/10/2007	SDN	1	3	11.48583	5	SW	8	0.00000	0	0.0		11.48583	246	3.5	E 1			S	0	1	MAKING SEA VERY DARK < 2 RETICLES
2/10/2007	SDN	1	4	11.86583	5	SW	8	0.00000	0	0.0		0.00000	0	0.0					0	0	FOG COMING IN
2/10/2007	SDN	1	3	12.08056	5	SW	8	0.00000	0	0.0		12.08056	259	2.0	E 1			S	0	1	
2/10/2007	SDN	1	4	12.90000	5	SW	8	0.00000	0	0.0		0.00000	0	0.0					0	0	STARTED RAINING
2/10/2007	SDN	1	3	13.18750	5	SW	8	0.00000	0	0.0		13.18750	245	2.0	E 2			S	0	1	END WATCH
2/10/2007	SDN	1	5	13.50000	5	SW	8	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	1	13.50028	5	SW	7	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	2	14.60833	5	SW	6	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	2	14.70167	5	SW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	2	14.77000	6	SW	5	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	2	14.87139	5	SW	5	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	2	15.77250	5	SW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/10/2007	SLM	1	3	16.23278	5	SW	4	0.00000	0	0.0		16.23278	237	1.8		2	S	0	2		
2/10/2007	SLM	1	5	16.50000	5	SW	4	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SLM	1	1	7.36944	4	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SLM	1	2	8.26528	5	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SLM	1	3	8.58917	5	SW	2	8.58917	281	2.0		8.87056	236	2.7		3	1	S	0	5	"C/C. CLOSE TOGETHER, SMALL BLOW, SMALL FLUKE, TRAVELLING SLOW"
2/11/2007	SLM	1	2	9.12833	4	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SLM	1	3	9.32889	4	SW	2	9.32889	284	3.1		9.58583	228	3.8		1		S	1	4	
2/11/2007	SLM	1	5	10.50000	4	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SDN	1	1	10.50028	4	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SDN	1	2	11.15194	3	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	SDN	1	3	11.65528	3	SW	2	11.65528	274	2.0		11.82444	243	2.0		2		S	0	3	
2/11/2007	SDN	1	3	12.10611	3	SW	2	12.10611	266	3.0		12.19944	239	3.0	E 1			S	0	2	
2/11/2007	SDN	1	3	13.06833	3	SW	2	13.06833	251	2.0		13.18000	239	2.0		2		S	0	3	
2/11/2007	SDN	1	5	13.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	IML	1	1	13.50028	3	SW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	IML	1	2	13.72944	3	WNW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	IML	1	3	13.87444	3	WNW	3	13.87444	248	2.0	E	13.91139	240	2.6		1		S	0	4	BEARING AND RET ESTM. SINGLE BLOW/SURFACE
2/11/2007	IML	1	3	14.59750	3	WNW	3	14.59750	291	1.1		14.89972	244	2.0		1		S	0	8	
2/11/2007	IML	1	5	14.63667	3	WNW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	IML	1	1	14.72194	3	WNW	3	0.00000	0	0.0		0.00000	0	0.0					0	0	
2/11/2007	IML	1	2	14.86944	2	WNW	2	0.00000	0	0.0		0.00000	0	0.0					0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/11/2007	IML	1	3	15.11583	2	WNW	2	15.11583	230	2.2		15.23444	230	2.2		1		S	0	3	GLARE
2/11/2007	IML	1	2	15.53333	3	WNW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LOTS OF HAZE AND GLARE ON LINE
2/11/2007	IML	1	3	15.53611	3	WNW	2	15.61583	263	2.0		15.53611	249	2.0		1		N	0	4	SEEN AT 154610/2821.2 AFTER RESTROOM BRAKE
2/11/2007	IML	1	5	15.70861	3	WNW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/11/2007	IML	1	1	15.76139	3	WNW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/11/2007	IML	1	3	15.95361	3	WNW	2	0.00000	0	0.0		15.95361	230	2.0	E	1		S	0	1	RIGHT IN GLARE
2/11/2007	IML	1	8	16.19833	3	WNW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	TRAWLER GOING SOUTH/242/0.3
2/12/2007	IML	1	5	16.50000	3	WNW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/12/2007	IML	1	1	7.39250	5	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315, 75% OVERCAST, HAZE, LOW LIGHT, CLEAR HOR"
2/12/2007	IML	1	3	7.52222	5	SW	2	0.00000	0	0.0		17.52222	275	2.2		1		N	0	2	
2/12/2007	IML	1	3	7.64444	5	SW	2	7.64444	252	3.5		7.75861	236	3.2		2		S	0	4	
2/12/2007	IML	1	2	7.81472	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"MORE LIGHT, HAZY NORTH OF 250"
2/12/2007	IML	1	3	7.96083	4	SW	2	7.96083	245	2.0		7.97667	241	2.1		3		S	0	3	
2/12/2007	IML	1	2	8.09972	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/12/2007	IML	1	5	8.35472	3	SW	2					0.00000	0	0.0		0			0	0	RESTROOM
2/12/2007	IML	1	1	8.40778	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/241/0.2
2/12/2007	IML	1	8	8.73556	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BOAT GOING SOUTH/241/10.2
2/12/2007	IML	1	4	8.74278	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BLIMP CROSSING LINE GOING SOUTH
2/12/2007	IML	1	2	9.80444	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"VERY GOOD CONTRAST, NO HAZE"
2/12/2007	IML	1	3	10.02972	2	SW	2	0.00000	0	0.0		10.02972	243	2.7		2		N	0	4	
2/12/2007	IML	1	5	10.50000	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/12/2007	SDN	1	1	10.50028	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/12/2007	SDN	1	3	11.31861	2	SW	2	0.00000	0	0.0		11.31861	266	10.0		1		S	0	1	
2/12/2007	SDN	1	2	12.17889	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/12/2007	SDN	1	3	12.49444	3	SW	2	12.49444	253	3.0		12.56000	238	3.0		2		S	0	3	
2/12/2007	SDN	1	5	13.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/12/2007	CDV	1	1	13.50028	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
2/12/2007	CDV	1	3	14.44528	3	SW	2	14.44528	294	0.9		14.97306	240	1.9		2		S	0	6	
2/12/2007	CDV	1	3	15.62528	3	SW	2	0.00000	0	0.0		15.62528	253	1.5		1		N	0	2	
2/12/2007	CDV	1	5	16.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
2/13/2007	SLM	1	1	7.44167	3	NE	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/13/2007	SLM	1	2	8.39917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/13/2007	SLM	1	3	9.11194	3	NW	3	9.11194	294	3.1		9.28278	232	7.5	1		S	0	5		
2/13/2007	SLM	1	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
2/13/2007	IML	1	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	"B13509, A315, 25% OVERCAST, CRISP HORIZON"
2/13/2007	IML	1	8	10.51917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	CARGOSHIP GOING NORTH/241/0.0
2/13/2007	IML	1	2	10.61500	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	IML	1	2	11.22639	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	IML	1	3	11.34278	3	NW	3	11.34278	267	1.8		11.50944	250	2.0	2		S	0	3		"LATE, LONG BREATHHOLDERS ~ 9 MIN"
2/13/2007	IML	1	3	11.44278	3	NW	3	0.00000	0	0.0		11.44278	232	3.2	1		N	0	6		
2/13/2007	IML	1	2	11.68972	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	"75% OVERCAST, CLEAR HOR"
2/13/2007	IML	1	5	11.79472	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	RESTROOM BRAKE
2/13/2007	IML	1	1	11.85889	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	IML	1	3	11.91583	3	NW	2	11.91583	273	1.2		11.97806	260	1.3	1		S	0	3		
2/13/2007	IML	1	2	12.05306	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	BEST CONTRAST NOF 250
2/13/2007	IML	1	2	12.41333	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	IML	1	2	12.86583	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	"50% OVERCAST, GOOD CONTRAST"
2/13/2007	IML	1	2	13.22194	3	NW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	STILL GOOD CONTRAST
2/13/2007	IML	1	5	13.50000	3	NW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	SDN	1	1	13.50028	3	NW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	SDN	1	3	13.69917	3	NW	5	0.00000	0	0.0		13.69917	243	6.0	2		S	0	1		
2/13/2007	SDN	1	3	14.43806	3	NW	5	14.43806	252	3.0		14.47444	244	3.0	1		S	0	2		
2/13/2007	SDN	1	2	14.44167	4	NW	6	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/13/2007	SDN	1	5	16.50000	4	NW	6	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/14/2007	SLR	1	1	7.30861	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	"B13509, A315 HIGH GLARE"
2/14/2007	SLR	1	3	8.70306	4	NW	3	8.70306	261	2.8		8.75056	246	3.0	1		S	0	4		
2/14/2007	SLR	1	3	9.04667	4	NW	3	9.04667	258	2.2		9.10806	241	2.2	1		S	0	4		
2/14/2007	SLR	1	2	9.21556	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	LESS GLARE
2/14/2007	SLR	1	3	9.26139	3	NW	3	0.00000	0	0.0		9.26139	241	1.5	2		S	0	3		OTHER WHALE AT RET 1.8
2/14/2007	SLR	1	5	9.42528	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	RESTROOM
2/14/2007	SLR	1	1	9.45083	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	
2/14/2007	SLR	1	8	9.70361	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	0	"HUGE BARGE (100' APPROX) WITH CONTAINERS ON

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/14/2007	SLR	1	2	10.26250	2	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0		HORIZON RET 0.0 A241"
2/14/2007	SLR	1	5	10.50000	2	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0		"POD COMING IN NORTH, PASSING ON TO NEXT WATCH"
2/14/2007	SDN	1	1	10.50028	2	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/14/2007	SDN	1	3	10.52361	2	NW	4	10.52361	266	2.0		10.66417	241	2.0	4			S	0	4	
2/14/2007	SDN	1	3	11.36972	2	NW	4	0.00000	0	0.0		11.36972	240	2.5	1			S	0	2	
2/14/2007	SDN	1	2	11.37667	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/14/2007	SDN	1	3	11.86611	3	NW	5	11.86611	260	1.8		12.00333	234	1.8	4			S	0	3	
2/14/2007	SDN	1	3	12.19167	3	NW	5	12.19167	263	14.0		12.21917	226	14.0	1			S	0	2	
2/14/2007	SDN	1	5	13.50000	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/14/2007	CDV	1	1	13.50028	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		13509 315
2/14/2007	CDV	1	3	14.11083	3	NW	5	14.11083	285	2.0		14.45389	240	2.8	1			S	0	4	
2/14/2007	CDV	1	3	14.61444	3	NW	5	0.00000	0	0.0		14.61444	250	10.5	1			S	0	1	
2/14/2007	CDV	1	2	16.00000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/14/2007	CDV	1	3	16.19694	3	NW	3	16.19694	282	1.6		16.42611	243	2.0	2			S	0	2	
2/14/2007	CDV	1	3	16.26778	3	NW	3	16.26778	276	1.0		16.48472	246	1.4	1			S	0	2	
2/14/2007	CDV	1	3	16.48556	3	NW	3	0.00000	0	0.0		16.48556	287	1.8	1			S	0	1	
2/14/2007	CDV	1	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0		END OF WATCH
2/15/2007	SLM	1	1	7.46722	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	2	8.73972	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	2	8.92028	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	2	9.46917	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	5	9.69944	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	1	9.74222	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	SLM	1	5	10.50000	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	IML	1	1	10.50028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		"B13509; A315, CLEAR SKIES, VISIB. HOR, HAZY"
2/15/2007	IML	1	2	10.92111	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0		THE SHED IS SHAKING OFF/ON
2/15/2007	IML	1	8	11.17750	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0		SAILBOAT GOING SOUTH/241/0.2
2/15/2007	IML	1	2	11.33917	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		SOME HAZE
2/15/2007	IML	1	5	11.57306	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		RESTROOM
2/15/2007	IML	1	1	11.65583	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		
2/15/2007	IML	1	2	12.12722	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		FOG/HAZE/GLARE SOUTH OF 260
2/15/2007	IML	1	3	12.37917	5	NW	5	0.00000	0	0.0		12.37917	297	3.0	E	3		N	0	2	RET ESTM: GOOD VIS THAT NORTH
2/15/2007	IML	1	4	12.57139	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0		"75% OVRECAST, FOG

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/15/2007	IML	1	8	12.57972	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RET 0-1"
2/15/2007	IML	1	5	13.50000	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"CARGOSHIP GOING NORTH/239/0.0, SEEN THROUGH FOG"
2/15/2007	SLR	1	1	13.50028	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 HIGH HAZE & GLARE"
2/15/2007	SLR	1	4	13.85000	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	DISTRACTION: PERSON WALKED IN FRONT OF SHED AND PERSON ON ROCKS TO RIGHT
2/15/2007	SLR	1	2	14.02444	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"STREAK WAVES FOAM, EXTREME HAZE & GLARE"
2/15/2007	SLR	1	2	15.30056	5	NW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM
2/15/2007	SLR	1	5	15.33139	5	NW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	DISTRACTION: 2 PEOPLE BY ROCKS TO THE RIGHT
2/15/2007	SLR	1	1	15.39389	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	DEPT OF FISH & GAME PERSONNEL ARRIVE AND SPEAK TO ME RE: PEOPLE
2/15/2007	SLR	1	4	15.67250	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	OVERALL VERY DISTRACTING WATCH SEE DATA SHEET (POOR VIS ANYWAY)
2/15/2007	SLR	1	5	16.50000	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	1	7.45361	4	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	3	7.70722	4	NE	3	0.00000	0	0.0		7.70722	238	2.0		1		N	0	2	
2/16/2007	SLM	1	3	7.89222	4	NE	3	0.00000	0	0.0		7.89222	242	3.2		1		N	0	2	
2/16/2007	SLM	1	3	7.96000	4	NE	3	0.00000	0	0.0		7.96000	240	10.0		2		S	0	3	
2/16/2007	SLM	1	2	8.24583	3	NE	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	3	8.40444	3	NE	3	8.40444	297	3.4		8.55889	241	8.0		1		S	0	6	
2/16/2007	SLM	1	2	9.39167	4	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	2	9.56806	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	2	9.79722	4	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLM	1	5	10.50000	4	NE	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SDN	1	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SDN	1	2	11.52778	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SDN	1	3	11.71222	5	NW	6	0.00000	0	0.0		11.71222	245	5.0		1		N	0	1	
2/16/2007	SDN	1	2	13.01194	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SDN	1	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/16/2007	SLR	1	1	13.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 VERY WINDY!"

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/16/2007	SLR	1	2	14.15111	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	EXTREME GLARE IN SOUTH
2/16/2007	SLR	1	8	14.19028	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FISHING TYPE BOAT APPROX 40' RET.3 A241 HEADING N
2/16/2007	SLR	1	8	14.20889	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	SMALLER BOAT FOLLOWING LARGER ONE (N) RET 3 A241
2/16/2007	SLR	1	4	15.36889	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	DISTRACTION: BRYN CAME OVER & SPOKE TO ME RE: SHEDS FOR ABOUT 2 MIN
2/16/2007	SLR	1	3	15.48444	4	NW	6	15.48444	269	2.0		15.61722	240	2.2	1		S	0	5		
2/16/2007	SLR	1	2	15.94000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/16/2007	SLR	1	5	16.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	SLM	1	1	7.40833	3	NE	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	SLM	1	2	8.49194	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	SLM	1	3	8.73167	3	NE	2	8.73167	278	1.3		9.13139	233	1.7	2		S	0	5		
2/17/2007	SLM	1	3	9.01361	3	NE	2	0.00000	0	0.0		9.01361	254	3.5	1		s	0	1		"ONLY SAW 1 BLOW, COULDNT TELL THE DIRECTION IT WAS TRAVELLING"
2/17/2007	SLM	1	2	9.78556	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	SLM	1	3	9.84083	3	SW	2	9.84083	285	1.6		10.23528	240	2.3	2		S	0	5		
2/17/2007	SLM	1	3	10.34972	3	SW	2	0.00000	0	0.0		10.34972	241	1.5	3		N	0	4		
2/17/2007	SLM	1	5	10.50000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	CDV	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
2/17/2007	CDV	1	3	11.26750	3	NW	2	11.26750	259	1.2		11.41861	242	1.3	3		S	0	4		
2/17/2007	CDV	1	3	11.43194	3	NW	2	11.43194	270	1.2		11.62722	242	1.5	3		S	0	2		
2/17/2007	CDV	1	3	11.44389	3	NW	2	0.00000	0	0.0		11.44389	250	5.0	2		N	0	2		
2/17/2007	CDV	1	2	11.63333	2	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	CDV	1	3	12.08583	2	NW	1	12.08583	282	2.0		12.34889	242	2.4	2		S	0	4		
2/17/2007	CDV	1	2	12.71667	1	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	CDV	1	5	13.50000	1	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
2/17/2007	SDN	1	1	13.50028	1	NW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/17/2007	SDN	1	2	14.30167	2	NW	3					0.00000	0	0.0		0			0	0	
2/17/2007	SDN	1	5	16.50000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SLM	1	1	7.45500	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SLM	1	3	7.49639	4	NW	3	7.49639	277	1.7		7.66611	245	2.1	E 1		S	0	3		
2/18/2007	SLM	1	2	8.08083	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SLM	1	2	9.41278	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SLM	1	2	10.07056	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SLM	1	3	10.20472	4	NW	5	10.20472	273	2.8		10.36889	234	3.2	2		S	0	6		

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/18/2007	SLM	1	5	10.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	CDV	1	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315
2/18/2007	CDV	1	2	11.00000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	CDV	1	3	11.06611	5	NW	6	0.00000	0	0.0		11.06611	222	1.0		1	S	0	1		
2/18/2007	CDV	1	5	13.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
2/18/2007	SDN	1	1	13.50028	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/18/2007	SDN	1	4	14.76750	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"WIND DOWN A LITTLE, GLARE IS WAY UP"
2/18/2007	SDN	1	3	14.87389	5	NW	6	0.00000	0	0.0		14.87389	247	3.5	E	1	S	0	1		
2/18/2007	SDN	1	5	16.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SDN	1	1	7.49167	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SDN	1	2	8.78500	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SDN	1	5	10.37250	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	TALKING TO BRENT ABOUT MOVING SHEDS
2/19/2007	SLR	1	1	10.42944	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 STORM HAD TO DISCUSS SHEDS WITH BRYN"
2/19/2007	SLR	1	2	10.62417	5	NW	7	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SLR	1	2	11.47389	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SLR	1	5	12.39611	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	RESTROOM BREAK
2/19/2007	SLR	1	1	12.46361	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	SLR	1	5	13.50000	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	CDV	1	1	13.50028	5	NW	8	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	CDV	1	3	14.69556	5	NW	8	14.69556	259	1.5		14.81083	238	2.0		1	S	0	3		13509 315
2/19/2007	CDV	1	3	15.75000	5	NW	8	15.75000	280	4.5		15.82611	243	5.0		1	S	0	3		
2/19/2007	CDV	1	2	15.89639	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/19/2007	CDV	1	5	16.50000	5	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END OF WATCH
2/20/2007	SLM	1	1	7.45111	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLM	1	2	8.20444	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLM	1	3	9.12444	3	NW	3	0.00000	0	0.0		9.12444	260	1.9		1	N	0	2		
2/20/2007	SLM	1	2	10.08222	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLM	1	5	10.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SDN	1	1	10.50028	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SDN	1	3	11.17222	3	NW	2	0.00000	0	0.0		11.17222	248	2.0		2	N	0	1		
2/20/2007	SDN	1	5	13.50000	3	NW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLR	1	1	13.50028	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509, A315 HIGH GLARE IN SOUTH"
2/20/2007	SLR	1	2	14.12861	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLR	1	3	14.43417	3	NW	4	14.43417	270	0.7		14.77944	241	1.0		2	S	0	5		
2/20/2007	SLR	1	8	14.51889	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FISHING TYPE BOAT APPROX 50' HEADING SOUTH RET 0.2 @241A
2/20/2007	SLR	1	2	14.83917	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HIGH GLARE IN SOUTH

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/20/2007	SLR	1	5	14.94389	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	FROM 190A TO 230A RESTROOM BREAK
2/20/2007	SLR	1	1	14.99056	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/20/2007	SLR	1	3	15.62639	3	NW	3	0.00000	0	0.0		15.62639	243	2.8		3		N	0	5	
2/20/2007	SLR	1	3	16.48306	3	NW	3	0.00000	0	0.0		16.48306	188	1.2		2		N	0	2	
2/20/2007	SLR	1	3	16.48611	3	NW	3	0.00000	0	0.0		16.48611	190	0.5		1		N	0	2	
2/20/2007	SLR	1	5	16.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	SLR	1	1	7.30361	4	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509 A315 JUST A SLIGHT BREEZE; HIGH GLARE, OVERCAST"
2/21/2007	SLR	1	3	7.51806	4	SE	2	7.51806	279	1.0		7.82167	241	1.5		1		S	0	3	FLUKE UP DIVE EVERYTIME BEFORE SUBMERGING
2/21/2007	SLR	1	3	7.58528	4	SE	2	0.00000	0	0.0		7.58528	195	2.4		1		S	0	1	"FLUKE UP DIVE, NEVER SAW AGAIN, ASSUME SOUTHBOUND"
2/21/2007	SLR	1	2	8.11444	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"LESS GLARE, SOME BLUE SKY WITH CLOUDS"
2/21/2007	SLR	1	8	8.56278	3	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"HUGE CONTAINER BARGE, APPROX 150+ RET 0.0 @241A HEADING NORTH"
2/21/2007	SLR	1	3	8.62806	3	SE	2	0.00000	0	0.0		8.62806	238	1.8		2		N	0	9	FLUKE UP DIVES
2/21/2007	SLR	1	2	8.81333	2	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	SLR	1	8	8.81361	2	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"ANOTHER HUGE CONTAINER BARGE, APPROX 150+ RET 0.0 @241 HEADING NORTH"
2/21/2007	SLR	1	8	8.90861	2	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	A 3RD HUGE CONTAINER BARGE! 150+ RET 0.0 @241A HEADING NORTH RESTROOM BREAK
2/21/2007	SLR	1	5	9.10889	2	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	SLR	1	1	9.16111	2	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	SLR	1	2	9.34333	1	SE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"SUN, LIGHT BLUE SKY, DARK BLUE SEA, ONLY SLIGHT RIPPLES"
2/21/2007	SLR	1	2	9.76639	2	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LIGHT HAZE
2/21/2007	SLR	1	5	10.50000	2	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	IML	1	1	10.50028	2	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"B13509; A315 755 OVERCAST, CRISP HOR."

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/21/2007	IML	1	6	10.75028	2	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"UNID DOLPHINS GOING N, 265/1.8, ~ 25-50, POSSIBLY LAGS"
2/21/2007	IML	1	2	11.11389	2	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GOOD LIGHT AND CONTRAST
2/21/2007	IML	1	3	11.33083	2	SW	4	0.00000	0	0.0		11.33083	235	2.7		2		N	0	10	
2/21/2007	IML	1	4	11.48472	2	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	25% OVERCAST
2/21/2007	IML	1	3	11.72194	2	SW	4	0.00000	0	0.0		11.72194	241	3.8		3		N	0	9	
2/21/2007	IML	1	3	12.42278	2	SW	4	0.00000	0	0.0		12.42278	239	2.2		3		N	0	13	
2/21/2007	IML	1	4	12.58917	2	SW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MOVING OBSERVATION TO OUTSIDE BECAUSE SHED IS BEING TAKEN DOWN
2/21/2007	IML	1	2	12.81667	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE FROM SOUTH
2/21/2007	IML	1	8	12.81917	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"GG GOING NORTH, 245/4.0 ~ 30 INDIVS"
2/21/2007	IML	1	4	13.49361	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	CARGOSHIP GOING NORTH/240/0.0
2/21/2007	IML	1	5	13.50000	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	CDV	1	1	13.50028	3	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509
2/21/2007	CDV	1	3	13.68889	3	NW	5	0.00000	0	0.0		13.68889	238	7.0		1		N	0	2	
2/21/2007	CDV	1	2	14.16667	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/21/2007	CDV	1	3	15.56778	3	SW	5	0.00000	0	0.0		15.56778	239	3.0		1		N	0	5	
2/21/2007	CDV	1	5	16.50000	3	SW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SLM	1	1	7.47917	5	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SLM	1	2	8.17361	4	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SLM	1	3	8.47722	4	NW	3	0.00000	0	0.0		8.47722	243	3.3		2		N	0	2	
2/22/2007	SLM	1	2	8.67194	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SLM	1	3	8.97500	3	NW	3	0.00000	0	0.0		8.97500	241	2.0		1		N	9	2	
2/22/2007	SLM	1	3	9.31833	3	NW	3	0.00000	0	0.0		9.31833	244	2.9		2		N	0	7	
2/22/2007	SLM	1	3	9.49639	3	NW	3	0.00000	0	0.0		9.49639	248	5.0		1		N	0	2	
2/22/2007	SLM	1	3	9.53056	3	NW	3	0.00000	0	0.0		9.53056	246	2.4		1		N	0	4	
2/22/2007	SLM	1	3	9.87944	3	NW	3	0.00000	0	0.0		9.87944	246	8.0		1		N	0	2	
2/22/2007	SLM	1	5	10.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SDN	1	1	10.81833	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	SDN	1	3	11.66722	3	NW	3	0.00000	0	0.0		11.66722	245	3.0		1		N	0	2	
2/22/2007	SDN	1	3	11.81472	3	NW	3	0.00000	0	0.0		11.81472	252	12.0		1		N	0	1	
2/22/2007	SDN	1	3	12.55972	3	NW	3	0.00000	0	0.0		12.55972	251	1.5		1		N	0	1	
2/22/2007	SDN	1	3	12.88694	3	NW	3	0.00000	0	0.0		12.88694	248	2.0		1		N	0	1	
2/22/2007	SDN	1	3	12.93500	3	NW	3	0.00000	0	0.0		12.93500	239	1.5		1		N	0	1	
2/22/2007	SDN	1	3	13.04806	3	NW	3	0.00000	0	0.0		13.04806	232	1.5		1		N	0	1	
2/22/2007	SDN	1	5	13.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	END WATCH
2/22/2007	CDV	1	1	13.78333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	13509 315

Appendix 1.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
2/22/2007	CDV	1	3	14.21583	3	NW	3	0.00000	0	0.0		14.21583	283	1.9		1		N	0	2	
2/22/2007	CDV	1	5	14.53333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BREAK FOR SHIPPING CALL
2/22/2007	CDV	1	1	14.68806	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
2/22/2007	CDV	1	3	14.91750	3	NW	3	0.00000	0	0.0		14.91750	250	2.8		1		N	0	3	
2/22/2007	CDV	1	2	16.08333	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	NORTH QUADRANT MOSTLY OBSCURED BY RAIN
2/22/2007	CDV	1	5	16.50000	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	LAST WATCH AT END OF SEASON

Appendix 2.--2006-07 gray whale census data from the north shed site. OBS = observers, X = experiment, V = visibility code, RET = reticle, E = estimated, C/C = cow with calf, T = travel direction, BEH = behavior code.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/6/2007	MMM	2	1	10.63333	4	NW	4	0	0.0	0.00000	0	0.0	0.0	0	0		S	0	0	B 14721 A 316
1/6/2007	MMM	2	3	10.70417	4	NW	4	289	0.8	10.70417	289	1.5	1.5	4	4		S	0	10	
1/6/2007	MMM	2	3	11.26111	4	NW	4	0	0.0	11.26111	283	1.3	1.3	1	1		S	0	1	
1/6/2007	MMM	2	3	11.68333	4	NW	4	270	1.2	11.68333	270	1.5	1.5	2	2		S	0	5	
1/6/2007	MMM	2	3	12.00556	4	NW	4	258	3.5	12.00556	258	3.5	3.5	1	1		S	0	3	
1/6/2007	MMM	2	3	12.26111	4	NW	4	0	0.0	12.26111	294	1.3	1.3	E	1		S	0	1	
1/6/2007	MMM	2	3	12.56500	4	NW	4	0	0.0	12.56500	250	3.5	3.5	1	1		S	0	2	
1/6/2007	MMM	2	3	12.69167	4	NW	4	0	0.0	12.69167	294	2.6	2.6	1	1		S	0	2	
1/6/2007	MMM	2	3	13.25000	4	NW	4	288	3.0	E 13.39167	233	3.0	3.0	1	1		S	0	2	
1/6/2007	MMM	2	5	13.50000	4	NW	4	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	
1/7/2007	MMM	2	1	13.50028	4	NW	4	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	B 14721 A 316
1/7/2007	MMM	2	3	13.51667	4	NW	4	0	0.0	13.51667	238	2.0	2.0	E	1		S	0	1	
1/7/2007	MMM	2	3	13.71500	4	NW	4	0	0.0	13.71500	227	1.5	1.5	1	1		S	0	3	
1/7/2007	MMM	2	2	14.29639	4	NW	5	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	
1/7/2007	MMM	2	3	14.76472	4	NW	5	0	0.0	14.76472	270	2.0	2.0	3	3		S	0	1	
1/7/2007	MMM	2	3	14.81250	4	NW	5	0	0.0	14.81250	252	2.5	2.5	1	1		S	0	1	
1/7/2007	MMM	2	3	14.83333	4	NW	5	258	2.5	14.83333	243	2.5	2.5	1	1		S	0	4	
1/7/2007	MMM	2	4	15.14806	4	NW	5	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	GLARE & HAZE
1/7/2007	MMM	2	3	15.31111	4	NW	5	0	0.0	15.31111	270	1.8	1.8	1	1		S	0	1	
1/7/2007	MMM	2	3	15.32500	4	NW	5	270	1.8	15.32500	267	1.8	1.8	1	1		S	0	1	
1/7/2007	MMM	2	3	15.45833	4	NW	5	0	0.0	15.45833	258	1.4	1.4	1	1		S	0	2	
1/7/2007	MMM	2	3	15.46778	4	NW	5	0	0.0	15.46778	252	2.4	2.4	1	1		S	0	1	
1/7/2007	MMM	2	3	15.54917	4	NW	5	250	2.6	15.54917	241	2.6	2.6	1	1		S	0	3	
1/7/2007	MMM	2	3	15.64056	4	NW	5	261	1.5	15.64056	242	1.8	1.8	1	1		S	0	4	
1/7/2007	MMM	2	3	15.82222	4	NW	5	266	1.8	E 15.92278	238	2.4	2.4	1	1		S	0	4	
1/7/2007	MMM	2	3	15.99167	4	NW	5	264	2.5	16.08333	240	2.6	2.6	1	1		S	0	4	
1/7/2007	MMM	2	3	16.01167	4	NW	5	252	1.3	16.05556	244	1.6	1.6	2	2		S	0	5	
1/7/2007	MMM	2	2	16.19639	5	NW	6	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	
1/7/2007	MMM	2	5	16.50000	5	NW	6	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	
1/8/2007	MMM	2	1	7.50000	4	NE	3	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	B 14721 A 316
1/8/2007	MMM	2	3	7.53194	4	NE	3	0	0.0	7.53194	248	2.1	2.1	1	1		S	0	2	
1/8/2007	MMM	2	2	7.56389	3	NE	3	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	
1/8/2007	MMM	2	3	7.57222	3	NE	3	0	0.0	7.57222	241	2.4	2.4	4	4		S	0	2	
1/8/2007	MMM	2	3	7.64278	3	NE	3	275	2.6	7.81528	242	2.6	2.6	1	1		S	0	7	
1/8/2007	MMM	2	3	8.29528	3	NE	3	280	1.4	8.66528	230	1.8	1.8	1	1		S	0	4	
1/8/2007	MMM	2	3	8.43194	3	NE	3	0	0.0	8.43194	270	2.0	2.0	E	2		S	0	1	
1/8/2007	MMM	2	2	8.48944	4	NE	4	0	0.0	0.00000	0	0.0	0.0	0	0			0	0	GLARE; BLOWS HARD TO SEE
1/8/2007	MMM	2	3	8.78972	4	NE	4	0	0.0	8.78972	242	1.5	1.5	2	2		S	0	2	
1/8/2007	MMM	2	3	8.97333	4	NE	4	0	0.0	8.97333	234	1.5	1.5	2	2		S	0	2	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/8/2007	MMM	2	3	10.13250	4	NE	4	10.13250	287	1.2		10.39167	264	2.2		1		S	0	1	
1/8/2007	MMM	2	3	10.17111	4	NE	4	10.17111	290	1.2		10.53333	241	1.8		1		S	0	4	
1/8/2007	MMM	2	3	10.18778	4	NE	4	10.18778	288	1.6		10.37778	241	3.2		1		S	0	7	
1/8/2007	MMM	2	3	10.19333	4	NE	4	0.00000	0	0.0		10.19333	286	0.8		1		S	0	1	
1/8/2007	MMM	2	3	10.20028	4	NE	4	0.00000	0	0.0		10.20028	287	1.4		1		S	0	1	
1/8/2007	MMM	2	5	10.50000	4	NE	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/8/2007	DJR	2	1	10.50028	4	NE	5	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	B 11546 A 314
1/8/2007	DJR	2	3	10.66111	4	NE	5	10.66111	255	2.4		10.78806	238	2.4		1		S	0	0	
1/8/2007	DJR	2	3	10.84861	4	NE	5	10.84861	278	1.3		11.06250	239	1.6		1		S	0	6	
1/8/2007	DJR	2	3	10.97917	4	NE	5	0.00000	0	0.0		10.97917	261	1.4		1		S	0	3	
1/8/2007	DJR	2	3	11.81806	4	NE	5	0.00000	0	0.0		11.81806	278	1.3		2		S	0	5	
1/8/2007	DJR	2	3	12.11806	4	NE	5	12.11806	251	1.7		12.32639	231	1.7		3		S	0	5	
1/8/2007	DJR	2	2	12.41667	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/8/2007	DJR	2	3	12.83056	3	N	4	0.00000	0	0.0		12.83056	236	2.7		1		S	0	2	NO BLOWS; C/C?
1/8/2007	DJR	2	3	12.90833	3	N	4	0.00000	0	0.0		12.90833	236	0.8		1		S	0	3	
1/8/2007	DJR	2	6	12.95000	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	PORPOISING SEA LIONS
1/8/2007	DJR	2	3	12.98333	3	N	4	12.98333	282	2.8		13.17917	235	2.6		1		S	0	9	
1/8/2007	DJR	2	2	13.00000	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/8/2007	DJR	2	5	13.50000	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/9/2007	MMM	2	1	10.50028	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	B 11548 A 314
1/9/2007	MMM	2	3	10.50306	3	N	2	10.50306	290	0.9		10.97222	252	1.5		1		S	0	3	JOINED MILLING GROUP?
1/9/2007	MMM	2	4	10.56722	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	"BINO 14721 READS 316.5, CHANGE TO BINO 11548"
1/9/2007	MMM	2	3	10.68333	3	N	2	10.68333	262	1.3		11.05139	242	1.7		6		M	0	21	
1/9/2007	MMM	2	3	11.25750	3	N	2	0.00000	0	0.0		11.25750	215	3.5		1		S	0	1	
1/9/2007	MMM	2	4	11.34250	3	N	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	SAME POD @ 235 RET 1.7
1/9/2007	MMM	2	2	11.53333	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/9/2007	MMM	2	4	11.60972	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	MILLING POD @ 242 RET 2.0
1/9/2007	MMM	2	3	11.89667	2	N	3	0.00000	0	0.0		11.89667	210	2.5		1		S	0	3	
1/9/2007	MMM	2	3	11.92083	2	N	3	0.00000	0	0.0		11.92083	225	2.5		1		S	0	1	
1/9/2007	MMM	2	4	11.94389	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	LARGE MILLING POD @ 235 RET 2.0
1/9/2007	MMM	2	3	12.26389	2	N	3	12.26389	279	4.5		12.44389	236	5.5		2	1	S	0	15	"C/C ? BIG BLOW, SMALL GRAY BODY"
1/9/2007	MMM	2	3	12.41194	2	N	3	0.00000	0	0.0		12.41194	228	2.3		1		S	0	2	
1/9/2007	MMM	2	4	12.68944	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	HAZE OVERVIEWING AREA
1/9/2007	MMM	2	4	12.79694	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	C/C? @ 215 RET 4.9
1/9/2007	MMM	2	3	13.21333	2	N	3	13.21333	264	1.5		13.43056	238	1.8		2		S	0	9	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/9/2007	MMM	2	3	13.28528	2	N	3	13.28528	259	1.5		13.40833	245	1.8		2		S	0	3	
1/9/2007	MMM	2	3	13.49806	2	N	3	0.00000	0	0.0		13.49806	248	1.8		3		S	0	1	
1/9/2007	MMM	2	5	13.50000	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/9/2007	DJR	2	1	13.50028	1	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.5
1/9/2007	DJR	2	3	13.70556	1	N	3	0.00000	0	0.0		13.70556	238	2.0		4		S	0	0	
1/9/2007	DJR	2	3	14.48333	1	N	3	14.48333	302	1.4		15.02306	241	3.2		3		S	1	29	
1/9/2007	DJR	2	3	15.20833	1	N	3	15.20833	283	1.5		15.52917	240	2.3		3		S	0	22	
1/9/2007	DJR	2	2	15.81667	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE
1/9/2007	DJR	2	3	15.87222	2	N	3	15.87222	289	3.4		15.98750	254	5.3		1		S	0	8	
1/9/2007	DJR	2	5	16.50000	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	THE PERFECT WATCH!
1/10/2007	DJR	2	1	7.37500	5	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.3
1/10/2007	DJR	2	2	7.50000	4	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	7.54861	4	N	4	0.00000	0	0.0		7.54861	229	1.4		2		S	0	0	
1/10/2007	DJR	2	3	7.70278	4	N	4	0.00000	0	0.0		7.70278	238	1.0		3		S	0	5	
1/10/2007	DJR	2	3	7.80833	4	N	4	7.80833	276	0.7		8.06806	241	1.3		E 1		S	0	7	
1/10/2007	DJR	2	3	7.91528	4	N	4	7.91528	296	1.3		8.11667	288	1.8		1		S	0	5	
1/10/2007	DJR	2	2	7.91667	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	8.15139	3	N	4	8.15139	272	1.6		8.43444	210	1.8		1		S	0	4	
1/10/2007	DJR	2	3	8.21944	3	N	4	8.21944	258	2.0		8.31389	232	1.9		1		S	1	4	
1/10/2007	DJR	2	2	8.25000	4	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	5	8.44167	4	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	1	8.47917	4	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	8.49167	4	NNW	5	0.00000	0	0.0		8.49167	226	1.9		2		S	0	0	
1/10/2007	DJR	2	3	8.63056	4	NNW	5	8.63056	285	1.8		8.86417	245	2.6		2		S	0	6	
1/10/2007	DJR	2	3	8.80056	4	NNW	5	8.80056	275	4.2		8.92778	253	4.4		3		S	0	9	
1/10/2007	DJR	2	3	9.03472	4	NNW	5	9.03472	272	1.3		9.22222	245	1.9		1		S	0	2	
1/10/2007	DJR	2	2	9.66667	3	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	9.68056	3	NNW	5	9.68056	290	1.0		9.95000	245	1.5		1		S	0	4	
1/10/2007	DJR	2	3	9.75556	3	NNW	5	9.75556	281	1.3		9.96389	241	1.6		3		S	0	19	
1/10/2007	DJR	2	3	10.03611	3	NNW	5	10.03611	292	8.0		10.07778	262	12.0		1		S	0	2	
1/10/2007	DJR	2	5	10.50000	3	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	MMM	2	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314
1/10/2007	MMM	2	3	11.00000	4	NW	4	0.00000	0	0.0		11.00000	282	2.2		1		S	0	1	
1/10/2007	MMM	2	2	11.28528	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	COLD WIND BLOWING RIGHT INTO THE SHED
1/10/2007	MMM	2	4	11.39750	5	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE ON THE HORIZON
1/10/2007	MMM	2	2	11.64306	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	MMM	2	3	12.40611	4	NW	5	12.40611	273	1.5		12.51611	238	1.8		1		S	0	6	BLOWS DISAPPEAR FAST!
1/10/2007	MMM	2	3	13.23583	4	NW	5	13.23583	254	3.2		13.25833	242	3.2		1		S	0	5	
1/10/2007	MMM	2	3	13.28111	4	NW	5	13.28111	265	1.8		13.45389	238	1.8		E 1		S	0	7	
1/10/2007	MMM	2	3	13.40000	4	NW	5	13.40000	247	2.3		13.46722	230	2.5		1		S	0	2	
1/10/2007	MMM	2	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/10/2007	DJR	2	1	13.50028	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.5
1/10/2007	DJR	2	3	14.04444	4	N	4	14.04444	1.6	E	14.11111	248	1.6		2		S	0	4	
1/10/2007	DJR	2	3	14.52500	4	N	4	14.52500	2.2		14.57361	242	2.2		2		S	0	7	
1/10/2007	DJR	2	3	14.74444	4	N	4	0.00000	0.0		14.74444	272	1.6		1		S	0	2	
1/10/2007	DJR	2	3	15.12222	4	N	4	15.12222	1.3		15.21111	245	1.6		2		S	0	3	
1/10/2007	DJR	2	3	15.25000	4	N	4	0.00000	0.0		15.25000	239	1.6		1		S	0	1	
1/10/2007	DJR	2	3	15.27222	4	N	4	15.27222	3.1		15.31778	247	3.0		1		S	0	5	
1/10/2007	DJR	2	3	15.34722	4	N	4	0.00000	0.0		15.34722	228	2.0		1		S	0	2	
1/10/2007	DJR	2	3	15.50806	4	N	4	15.50806	1.2		15.72778	241	1.7		2		S	1	25	
1/10/2007	DJR	2	2	15.75000	3	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	15.80556	3	N	4	0.00000	0.0		15.80556	248	1.7		2		S	0	6	
1/10/2007	DJR	2	3	15.86667	3	N	4	15.86667	2.83		16.15694	252	1.3		2		S	0	12	
1/10/2007	DJR	2	3	15.88611	3	N	4	15.88611	1.4		16.00556	241	1.5		2		S	0	9	
1/10/2007	DJR	2	2	16.25000	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/10/2007	DJR	2	3	16.25000	4	N	4	16.25000	2.4		16.38056	240	5.0		1		S	0	3	
1/10/2007	DJR	2	3	16.25000	3	N	4	0.00000	0.0		16.32778	245	1.5		3		S	0	2	
1/10/2007	DJR	2	3	16.40694	4	N	4	16.40694	2.2		16.43056	245	2.2		1		S	0	0	
1/10/2007	DJR	2	3	16.42083	4	N	4	0.00000	0.0		16.42083	248	2.4		1		S	0	0	
1/10/2007	DJR	2	3	16.45556	4	N	4	16.45556	2.3		16.52778	245	2.3		1		S	0	0	
1/10/2007	DJR	2	3	16.51528	4	N	4	0.00000	0.0		16.51528	235	1.5		2		S	0	0	
1/10/2007	DJR	2	5	16.53333	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	MMM	2	1	7.46667	4	N	3	0.00000	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.5
1/11/2007	MMM	2	3	7.53750	4	N	3	0.00000	0.0		7.53750	292	2.8		1		S	0	3	
1/11/2007	MMM	2	3	7.64722	4	N	3	7.64722	2.0	E	7.73389	240	2.2		1		S	0	2	
1/11/2007	MMM	2	2	7.76167	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	MMM	2	3	7.81167	4	N	4	0.00000	0.0		7.81167	241	2.5	E	1		S	0	2	
1/11/2007	MMM	2	3	7.88889	4	N	4	0.00000	0.0		7.88889	230	4.0	E	1		S	0	1	
1/11/2007	MMM	2	3	8.02000	4	N	4	0.00000	0.0		8.02000	233	1.8		2		S	0	3	
1/11/2007	MMM	2	4	8.07083	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	BLOWS DISAPPEAR FAST!
1/11/2007	MMM	2	3	8.31444	4	N	4	0.00000	0.0		8.31444	242	1.5		1		S	0	3	
1/11/2007	MMM	2	3	8.43167	4	N	4	8.43167	2.0		8.54417	241	2.5		2		S	0	3	
1/11/2007	MMM	2	3	8.45139	4	N	4	8.45139	2.2		8.54444	241	2.5		1		S	0	2	
1/11/2007	MMM	2	3	8.52500	4	N	4	0.00000	0.0		8.52500	263	2.0	E	1		S	0	2	
1/11/2007	MMM	2	3	8.91250	4	N	4	8.91250	1.2	E	8.98972	261	1.5		1		S	0	2	
1/11/2007	MMM	2	3	8.97389	4	N	4	8.97389	1.8		9.12694	238	1.8		1		S	0	3	
1/11/2007	MMM	2	3	9.00417	4	N	4	9.00417	4.0		9.08944	228	3.5		3		S	0	3	
1/11/2007	MMM	2	3	9.07472	4	N	4	0.00000	0.0		9.07472	240	2.0	E	1		S	0	1	
1/11/2007	MMM	2	3	9.10028	4	N	4	0.00000	0.0		9.10028	225	1.8		1		S	0	1	
1/11/2007	MMM	2	2	9.38528	4	N	5	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	MMM	2	2	9.57611	5	N	5	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	MMM	2	2	9.75222	4	N	5	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	MMM	2	2	10.09222	4	N	4	0.00000	0.0		0.00000	0	0.0		0			0	0	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/11/2007	MMM	2	3	10.22111	4	N	4	10.22111	284	1.7		10.40083	243	2.0	E	1		S	0	4	
1/11/2007	MMM	2	3	10.28389	4	N	4	0.00000	0	0.0		10.28389	242	2.0	E	1		S	0	1	
1/11/2007	MMM	2	5	10.50000	4	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	DJR	2	1	10.50028	4	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.4
1/11/2007	DJR	2	3	10.54722	4	N	4	0.00000	0	0.0		10.54722	243	2.1		1		S	0	0	
1/11/2007	DJR	2	3	10.61528	4	N	4	0.00000	0	0.0		10.61528	243	1.6		1		S	0	0	
1/11/2007	DJR	2	3	11.04444	4	N	4	11.04444	275	1.8		11.20556	230	2.7		1		S	0	3	
1/11/2007	DJR	2	3	11.16111	4	N	4	11.16111	288	1.0		11.53611	230	1.6		5		S	0	13	
1/11/2007	DJR	2	2	11.16667	4	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	DJR	2	3	11.46389	4	N	4	0.00000	0	0.0		11.46389	240	1.8		1		S	0	3	
1/11/2007	DJR	2	3	11.64722	3	N	4	11.64722	277	1.5		11.86528	235	1.5		1		S	0	6	
1/11/2007	DJR	2	3	11.85000	3	N	4	11.85000	283	1.7		11.94444	246	2.5		2		S	0	6	
1/11/2007	DJR	2	3	12.25028	3	N	4	12.25028	264	1.1		12.36111	248	1.4		2		S	0	5	
1/11/2007	DJR	2	3	12.45000	3	N	4	0.00000	0	0.0		12.45000	245	1.7		2		S	0	10	
1/11/2007	DJR	2	5	12.48333	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	DJR	2	1	12.53333	3	N	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/11/2007	DJR	2	3	12.63056	3	N	5	12.63056	264	2.0		12.69583	244	2.3		1		S	0	3	
1/11/2007	DJR	2	3	12.78056	3	N	5	12.78056	290	1.3		12.99306	248	2.1		2		S	0	19	
1/11/2007	DJR	2	3	13.39444	3	N	5	13.39444	252	2.5		13.46250	234	2.8		1		S	0	2	
1/11/2007	DJR	2	5	13.53333	3	N	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	1	10.55000	3	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B 11548 A 314.0
1/12/2007	DJR	2	3	10.71250	3	N	3	10.71250	268	2.0		10.80972	240	1.3		1		S	0	3	
1/12/2007	DJR	2	3	10.83333	3	N	3	0.00000	0	0.0		10.83333	239	0.6		1		S	0	3	
1/12/2007	DJR	2	3	10.83750	3	N	3	0.00000	0	0.0		10.83750	230	0.6		1		S	0	5	
1/12/2007	DJR	2	2	10.90000	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	3	11.20972	2	N	3	11.20972	302	1.7		11.42361	243	4.2		2		S	0	16	
1/12/2007	DJR	2	2	11.75000	3	N	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	3	11.77500	3	N	4	11.77500	278	1.0		12.06528	244	1.0		1		S	0	3	
1/12/2007	DJR	2	3	11.81806	3	N	4	11.81806	278	1.6		12.0139	244	1.6		1		S	0	9	
1/12/2007	DJR	2	3	11.83333	3	N	4	11.83333	272	0.6		12.20278	241	0.9		2		S	0	4	
1/12/2007	DJR	2	2	12.00000	3	NNW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	3	12.38333	3	NNW	5	0.00000	0	0.0		12.38333	257	1.0	E	1		S	0	1	
1/12/2007	DJR	2	2	12.41667	4	NW	6	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	3	12.98444	4	NW	6	12.98444	254	1.8		13.15556	227	1.9		2		S	0	5	
1/12/2007	DJR	2	3	13.01111	4	NW	6	13.01111	258	1.8		13.07778	238	1.4		4		S	0	5	
1/12/2007	DJR	2	2	13.18333	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/12/2007	DJR	2	3	13.30694	4	NW	5	13.30694	261	1.9		13.41389	232	2.5		2		S	0	5	
1/12/2007	DJR	2	3	13.33333	4	NW	5	0.00000	0	0.0		13.33333	240	2.3		2		S	0	3	
1/12/2007	DJR	2	3	13.36389	4	NW	5	0.00000	0	0.0		13.36389	246	2.0		1		S	0	2	
1/12/2007	DJR	2	5	13.51667	4	NW	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	DJR	2	1	7.36389	4	NE	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	DJR	2	3	7.37778	4	NE	2	7.37778	280	2.2		7.51528	240	2.7		1		S	0	2	B 11548 A 315.0
1/13/2007	DJR	2	3	7.62500	4	NE	2	0.00000	0	0.0		7.62500	241	5.0		3		S	0	4	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/13/2007	DJR	2	3	7.66667	4	NE	2	7.66667	260	2.0		7.93111	240	2.8		1		S	0	3	
1/13/2007	DJR	2	3	7.75833	4	NE	2	7.75833	285	2.4		7.86667	239	2.4		2		S	0	8	
1/13/2007	DJR	2	2	7.76111	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/13/2007	DJR	2	3	7.83889	3	NE	2	7.83889	270	2.1		7.97639	238	2.5		2		S	0	10	
1/13/2007	DJR	2	3	8.02500	3	NE	2	8.02500	266	1.7		8.23056	244	2.1		1		S	0	2	
1/13/2007	DJR	2	3	8.05139	3	NE	2	8.05139	266	1.4		8.17222	240	1.5		1		S	0	3	
1/13/2007	DJR	2	3	8.09167	3	NE	2	0.00000	0	0.0		8.09167	276	1.3		1		S	0	2	
1/13/2007	DJR	2	3	8.10833	3	NE	2	0.00000	0	0.0		8.10833	250	1.6		1		S	0	2	
1/13/2007	DJR	2	3	8.19167	3	NE	2	0.00000	0	0.0		8.19167	265	3.5	E	1		S	0	2	
1/13/2007	DJR	2	3	8.31528	3	NE	2	8.31528	289	0.8		8.78056	236	0.9		6		S	0	0	
1/13/2007	DJR	2	5	8.41667	3	NE	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/13/2007	DJR	2	1	8.49167	2	N	3	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/13/2007	DJR	2	3	8.52917	2	N	3	8.52917	262	1.6		8.61944	249	1.5		1		S	0	7	
1/13/2007	DJR	2	3	8.7083	2	N	3	8.7083	266	2.0		8.91389	240	2.2		1		S	0	10	
1/13/2007	DJR	2	3	8.95694	2	N	3	0.00000	0	0.0		8.95694	278	1.5		1		S	0	4	
1/13/2007	DJR	2	3	8.98611	2	N	3	0.00000	0	0.0		8.98611	250	1.9		1		S	0	1	
1/13/2007	DJR	2	3	9.05694	2	N	3	9.05694	256	2.0		9.10611	242	2.2		1		S	0	4	
1/13/2007	DJR	2	2	9.16667	2	N	2	0.00000	0	0.0		0.00000	0	0.0		0		S	0	0	
1/13/2007	DJR	2	3	9.17639	2	N	2	9.17639	269	2.3		9.24444	251	2.6		3		S	0	10	
1/13/2007	DJR	2	3	9.61667	2	N	2	0.00000	0	0.0		9.61667	270	1.7		1		S	0	7	
1/13/2007	DJR	2	3	9.65139	2	N	2	9.65139	294	1.3		9.90833	254	2.3		3		S	0	10	
1/13/2007	DJR	2	3	9.67639	2	N	2	9.67639	260	2.2		9.75139	243	2.6		1		S	0	2	
1/13/2007	DJR	2	6	9.91944	2	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GRAMPUS? 5 DOLPHINS RET 1.0 @ 231 DEG
1/13/2007	DJR	2	6	10.26667	2	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	20 GRAMPUS GOING SOUTH FAST; RET 1.0 @ 241 DEG
1/13/2007	DJR	2	6	10.51111	2	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	*GRAMPUS 15 (THIRD GROUP) GOING SOUTH; RET 3.0 @ 241 DEG*
1/13/2007	DJR	2	5	10.51667	2	N	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	DJR	2	1	13.38333	3	N	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MY SECOND WATCH TODAY
1/13/2007	DJR	2	3	13.43750	3	N	3	0.00000	0	0.0		13.43750	248	1.5		1		S	0	0	
1/13/2007	DJR	2	2	13.50000	5	N	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	DJR	2	2	14.16667	4	N	5	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/13/2007	DJR	2	3	14.47222	4	N	5	14.47222	285	1.4		14.70278	243	1.7		4		S	0	17	
1/13/2007	DJR	2	3	15.09444	4	N	5	15.09444	281	1.5		15.25278	246	2.2		2		S	0	12	
1/13/2007	DJR	2	3	15.21528	4	N	5	0.00000	0	0.0		15.21528	265	2.2		1		S	0	0	
1/13/2007	DJR	2	3	15.21528	4	N	5	15.21528	265	2.2		15.35139	246	2.0		1		S	0	3	
1/13/2007	DJR	2	3	15.44167	4	N	5	15.44167	290	0.5		16.44167	253	1.6		7		S	0	43	
1/13/2007	DJR	2	3	15.51250	4	N	5	15.51250	278	1.6		15.81611	246	2.0		2		S	0	7	
1/13/2007	DJR	2	3	15.58611	4	N	5	15.58611	282	2.2		15.64861	247	2.2		1		S	0	7	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/13/2007	DJR	2	2	15.76667	3	N	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/13/2007	DJR	2	3	15.84472	3	N	4	0.00000	0	0.0		15.84472	282	0.8	4	4		S	0	0	
1/13/2007	DJR	2	2	16.00000	2	N	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/13/2007	DJR	2	3	16.24444	2	N	4	16.24444	262	1.2		16.36556	245	1.6	2	2		S	0	4	
1/13/2007	DJR	2	2	16.25000	1	N	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/13/2007	DJR	2	5	16.51667	1	N	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/14/2007	DJR	2	1	10.36667	2	N	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	B 11548 A 315.0
1/14/2007	DJR	2	3	10.37083	2	N	2	10.37083	264	1.4		10.51028	245	1.5	2	2		S	0	0	
1/14/2007	DJR	2	3	10.43500	2	N	2	10.43500	289	0.9		10.84389	243	1.5	1	1		S	0	1	
1/14/2007	DJR	2	3	10.44750	2	N	2	10.44750	250	1.0		11.03361	247	1.6	3	3		S	0	25	
1/14/2007	DJR	2	3	10.45417	2	N	2	0.00000	0	0.0		10.45417	241	0.7	1	1		S	0	0	
1/14/2007	DJR	2	3	10.47417	2	N	2	10.47417	268	1.3		10.56556	246	1.5	1	1		S	0	0	
1/14/2007	DJR	2	3	10.47833	2	N	2	0.00000	0	0.0		10.47833	247	1.0	1	1		S	0	0	
1/14/2007	DJR	2	3	10.54750	2	N	2	10.54750	296	0.7		11.10444	244	1.5	2	2		S	0	13	
1/14/2007	DJR	2	3	10.66306	2	N	2	10.66306	289	1.5		11.11528	231	1.5	1	1		S	0	3	
1/14/2007	DJR	2	3	11.05000	2	N	2	0.00000	0	0.0		11.05000	243	1.3	1	1		S	0	3	
1/14/2007	DJR	2	3	11.12806	2	N	2	11.12806	254	1.4		11.21444	241	1.5	1	1		S	0	6	
1/14/2007	DJR	2	3	11.19778	2	N	2	11.19778	255	1.4		11.26167	243	1.5	1	1		S	0	8	
1/14/2007	DJR	2	3	11.29889	2	N	2	11.29889	275	1.4		11.49500	247	1.7	1	1		S	0	9	
1/14/2007	DJR	2	3	11.38056	2	N	2	11.38056	257	0.8		11.48639	246	0.8	2	2		S	0	15	
1/14/2007	DJR	2	4	11.55333	2	N	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	SMALL PLANE CIRCLING OVER WHALES
1/14/2007	DJR	2	2	11.60000	2	NW	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/14/2007	DJR	2	3	11.65028	2	NW	4	11.65028	283	0.3		12.30500	241	0.6	2	2		S	0	6	
1/14/2007	DJR	2	3	11.87000	2	NW	4	11.87000	253	0.6		12.07000	245	0.6	2	2		S	0	5	
1/14/2007	DJR	2	3	11.88917	2	NW	4	11.88917	262	0.6		12.13139	242	1.0	1	1		S	0	3	
1/14/2007	DJR	2	3	11.92472	2	NW	4	0.00000	0	0.0		11.92472	239	1.6	1	1		S	0	1	
1/14/2007	DJR	2	3	12.27639	2	NW	4	12.27639	273	1.3		12.58222	227	1.6	2	2		S	0	3	
1/14/2007	DJR	2	3	12.33278	2	NW	4	12.33278	276	1.2		12.66833	230	1.0	1	1		S	0	6	
1/14/2007	DJR	2	3	12.39639	2	NW	4	12.39639	257	1.7		12.49139	241	1.7	1	1		S	0	3	
1/14/2007	DJR	2	3	12.43139	2	NW	4	12.43139	264	1.5		12.64389	234	1.3	1	1		S	0	3	
1/14/2007	DJR	2	3	12.45333	2	NW	4	12.45333	283	0.8		12.84722	243	1.3	1	1		S	0	4	
1/14/2007	DJR	2	3	12.61833	2	NW	4	12.61833	268	1.3		12.78306	239	1.4	1	1		S	0	8	
1/14/2007	DJR	2	3	12.80000	2	NW	4	0.00000	0	0.0		12.80000	223	0.6	1	1		S	0	2	
1/14/2007	DJR	2	2	13.00000	2	NNW	5	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/14/2007	DJR	2	3	13.01833	2	NNW	5	13.01833	256	1.6		13.10861	243	1.9	1	1		S	0	9	
1/14/2007	DJR	2	5	13.51667	2	NNW	5	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/15/2007	DJR	2	1	10.51667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	B 11548 A 314.6
1/15/2007	DJR	2	3	10.53083	3	NW	2	10.53083	262	1.4		10.73000	241	1.5	9	9		S	0	0	
1/15/2007	DJR	2	3	10.69194	3	NW	2	10.69194	250	1.6		10.69194	223	1.4	1	1		S	0	0	
1/15/2007	DJR	2	3	10.75861	3	NW	2	10.75861	250	1.6		10.78750	247	1.6	1	1		S	0	3	
1/15/2007	DJR	2	3	10.87139	3	NW	2	10.87139	272	1.5		11.08472	241	1.5	4	4		S	0	8	
1/15/2007	DJR	2	3	11.06611	3	NW	2	11.06611	271	1.1		11.39694	231	1.3	7	7		S	0	0	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/15/2007	DJR	2	3	11.25833	3	NW	2	0.00000	0	0.0		11.25833	239	1.3	4			S	0	0	
1/15/2007	DJR	2	3	11.50194	3	NW	2	11.50194	257	1.0		11.71417	249	1.0	5			S	0	6	
1/15/2007	DJR	2	3	11.78583	3	NW	2	11.78583	253	0.9		11.95361	241	1.2	1			S	0	5	
1/15/2007	DJR	2	3	11.86389	3	NW	2	11.86389	273	6.6		11.92806	249	7.8	2	1		S	0	5	CALF RISES HIGH ENOUGH TO SHOW ALL OF ITS HEAD AND BACK
1/15/2007	DJR	2	3	12.00556	3	NW	2	12.00556	262	1.1		12.10806	254	1.1	1			S	0	3	
1/15/2007	DJR	2	3	12.07750	3	NW	2	12.07750	269	1.3		12.27556	242	1.3	2			S	0	2	
1/15/2007	DJR	2	3	12.08833	3	NW	2	0.00000	0	0.0		12.08833	258	2.0	2			S	0	4	
1/15/2007	DJR	2	3	12.16417	3	NW	2	12.16417	255	1.3		12.22917	240	1.2	2			S	0	4	
1/15/2007	DJR	2	3	12.27583	3	NW	2	0.00000	0	0.0		12.27583	241	1.1	1			S	0	1	
1/15/2007	DJR	2	3	12.30000	3	NW	2	12.30000	258	1.1		12.42139	249	1.3	1			S	0	2	
1/15/2007	DJR	2	3	12.30694	3	NW	2	0.00000	0	0.0		12.30694	245	1.3	3			S	0	4	
1/15/2007	DJR	2	3	12.33833	3	NW	2	12.33833	247	1.2		12.40500	246	1.2	2			S	0	5	
1/15/2007	DJR	2	3	12.34500	3	NW	2	0.00000	0	0.0		12.34500	238	1.7	2			S	0	4	
1/15/2007	DJR	2	3	12.38972	3	NW	2	12.38972	258	1.0		12.49472	248	1.2	2			S	0	7	
1/15/2007	DJR	2	2	12.45000	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			S	0	0	
1/15/2007	DJR	2	3	12.48528	2	NW	2	0.00000	0	0.0		12.48528	238	1.1	3			S	0	2	
1/15/2007	DJR	2	3	12.51528	2	NW	2	12.51528	260	0.7		12.81889	229	1.1	1			S	0	0	
1/15/2007	DJR	2	3	12.53889	2	NW	2	12.53889	252	1.1		12.73194	238	1.1	2			S	0	8	
1/15/2007	DJR	2	3	12.55028	2	NW	2	0.00000	0	0.0		12.55028	238	1.6	1			S	0	3	
1/15/2007	DJR	2	3	12.58361	2	NW	2	12.58361	269	1.2		12.79111	247	1.3	3			S	0	4	
1/15/2007	DJR	2	3	12.61694	2	NW	2	12.61694	258	1.1		12.84472	246	1.2	2			S	0	3	
1/15/2007	DJR	2	3	12.68083	2	NW	2	12.68083	280	3.0		12.82778	236	3.6	2	1		S	0	7	LITTLE FLUKE SHOWED
1/15/2007	DJR	2	3	12.72472	2	NW	2	12.72472	260	1.4		12.90222	238	1.5	1			S	0	3	
1/15/2007	DJR	2	3	12.86611	2	NW	2	0.00000	0	0.0		12.86611	245	2.8	1			S	0	3	
1/15/2007	DJR	2	3	12.93361	2	NW	2	0.00000	0	0.0		12.93361	245	1.3	2			S	0	5	
1/15/2007	DJR	2	3	12.94361	2	NW	2	12.94361	255	1.2		13.12417	233	1.4	3			S	0	3	
1/15/2007	DJR	2	3	12.95750	2	NW	2	0.00000	0	0.0		12.95750	236	1.3	3			S	0	9	
1/15/2007	DJR	2	3	12.98389	2	NW	2	12.98389	292	2.6		13.20222	238	3.8	1			S	0	9	GOOD VIEW BUT NO CALF SEEN
1/15/2007	DJR	2	3	13.14944	2	NW	2	0.00000	0	0.0		13.14944	232	1.3	1			S	0	4	
1/15/2007	DJR	2	3	13.15833	2	NW	2	0.00000	0	0.0		13.15833	234	1.3	1			S	0	3	
1/15/2007	DJR	2	5	13.51667	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/17/2007	KWS	2	1	9.08611	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/17/2007	KWS	2	3	9.08750	3	NW	3	0.00000	0	0.0		9.08750	232	4.5	1			S	0	0	
1/17/2007	KWS	2	3	9.09250	3	NW	3	9.09250	250	1.3		9.18361	236	1.4	1			S	0	0	
1/17/2007	KWS	2	3	9.24250	3	NW	3	0.00000	0	0.0		9.24250	234	1.5	1			S	0	0	
1/17/2007	KWS	2	3	9.32861	3	NW	3	0.00000	0	0.0		9.32861	237	1.4	2			S	0	0	
1/17/2007	KWS	2	2	9.33333	4	NW	4	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/17/2007	KWS	2	3	9.43333	4	NW	4	0.00000	0	0.0		9.43333	240	3.0	E 1			S	0	0	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N TIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/17/2007	KWS	2	3	9.52333	4	NW	4	9.52333	256	2.0	E	9.55750	241	1.8		1		S	0	0	
1/17/2007	KWS	2	3	9.56389	4	NW	4	0.00000	0	0.0		9.56389	269	2.8		1		S	0	0	
1/17/2007	KWS	2	3	9.59444	4	NW	4	9.59444	248	3.2		9.62222	235	3.5		2		S	0	0	
1/17/2007	KWS	2	3	9.67500	4	NW	4	0.00000	0	0.0		9.67500	228	2.1		1		S	0	0	
1/17/2007	KWS	2	6	9.70000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	6 SBOUND CA SEA LIONS BIG MALES
1/17/2007	KWS	2	3	9.73111	4	NW	4	0.00000	0	0.0		9.73111	251	2.5	E	1		S	0	0	
1/17/2007	KWS	2	3	9.82472	4	NW	4	9.82472	267	3.5	E	9.89444	244	3.8		1		S	0	0	
1/17/2007	KWS	2	3	9.89583	4	NW	4	0.00000	0	0.0		9.89583	238	1.4	E	1		S	0	0	
1/17/2007	KWS	2	3	10.03611	4	NW	4	0.00000	0	0.0		10.03611	235	5.5	E	1		S	0	0	
1/17/2007	KWS	2	3	10.06111	4	NW	4	0.00000	0	0.0		10.06111	240	3.2		1		S	0	0	
1/17/2007	KWS	2	3	10.22528	4	NW	4	10.22528	252	2.2		10.34028	232	2.5		5		S	0	0	SLOW
1/17/2007	KWS	2	3	10.33389	4	NW	4	0.00000	0	0.0		10.33389	243	3.5		1		S	0	0	
1/17/2007	KWS	2	5	10.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/17/2007	KWS	2	1	10.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/17/2007	KWS	2	3	10.55028	4	NW	4	0.00000	253	2.1		10.59583	237	2.1		1		S	0	0	
1/17/2007	KWS	2	3	10.63111	4	NW	4	0.00000	0	0.0		10.63111	242	2.0		1		S	0	0	
1/17/2007	KWS	2	3	10.82194	4	NW	4	10.82194	248	1.7		10.84611	242	1.7		2		S	0	0	
1/17/2007	KWS	2	3	10.99528	4	NW	4	0.00000	0	0.0		10.99528	229	1.5		1		S	0	0	
1/17/2007	KWS	2	3	11.02389	4	NW	4	0.00000	0	0.0		11.02389	241	5.0	E	1		S	0	0	CALF?
1/17/2007	KWS	2	3	11.12944	4	NW	4	0.00000	0	0.0		11.12944	241	3.5	E	1		S	0	0	
1/17/2007	KWS	2	2	11.15000	5	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	GLARE HAZE FROM 250 AND SOUTH
1/17/2007	KWS	2	3	11.17194	5	NW	4	0.00000	0	0.0		11.17194	229	1.8		1		S	0	0	
1/17/2007	KWS	2	3	11.32806	5	NW	4	0.00000	0	0.0		11.32806	237	1.5		1		S	0	0	
1/17/2007	KWS	2	3	11.43750	5	NW	4	11.43750	248	1.9		11.47500	241	2.0		5		S	0	0	
1/17/2007	KWS	2	3	11.49306	5	NW	4	11.49306	252	2.0		11.53972	242	2.0		2		S	0	0	
1/17/2007	KWS	2	2	11.50000	4	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	HAZE LIFTING
1/17/2007	KWS	2	2	11.51667	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	BETTER LIGHTING
1/17/2007	KWS	2	6	11.58333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	MY FIRST SEA OTTER OF THE SEASON AND ITS A MOM AND PUP
1/17/2007	KWS	2	3	11.70444	3	NW	4	11.70444	252	1.8		11.75278	243	1.8		2		S	0	0	
1/17/2007	KWS	2	3	11.72778	3	NW	4	0.00000	0	0.0		11.72778	244	2.5		3		S	0	0	
1/17/2007	KWS	2	3	11.80583	3	NW	4	0.00000	0	0.0		11.80583	240	2.0		1		S	0	0	
1/17/2007	KWS	2	5	12.00000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/18/2007	KWS	2	1	10.50028	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	"BINOS 11548 SR 313.5 DEG, BINO 14721 HAS A BUBBLE IN THE COMPASS"
1/18/2007	KWS	2	6	10.51667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	1 PV IN THE COVE
1/18/2007	KWS	2	3	10.81333	3	NW	3	10.81333	295	2.2		11.01667	230	4.0		2		S	0	5	
1/18/2007	KWS	2	3	10.84111	3	NW	3	10.84111	277	1.7		11.03278	241	1.9		3		S	0	10	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N TIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/18/2007	KWS	2	2	10.86667	2	NW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/18/2007	KWS	2	3	11.07361	2	NW	3	11.07361	259	1.8		11.20833	240	2.1	1	1	S	0	0	6	
1/18/2007	KWS	2	3	11.36250	2	NW	3	11.36250	257	2.5		11.46972	241	2.8		3	S	0	0	5	SLOW!
1/18/2007	KWS	2	6	11.78333	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	0.5 RETS 243 DEG LG GROUP UD WITH BIRDS S.BOUND
1/18/2007	KWS	2	3	12.11111	2	NW	3	0.00000	0	0.0		12.11111	268	1.2		2	S	0	0	5	
1/18/2007	KWS	2	3	12.23333	2	NW	3	0.00000	0	0.0		12.23333	220	24.0		2	1	S	0	3	SMALL BODY CLEARING WATER MOTHER IN STEALTH MODE
1/18/2007	KWS	2	3	12.30056	2	NW	3	12.30056	271	1.7		12.46944	246	1.9		1	S	0	0	5	
1/18/2007	KWS	2	2	12.40000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/18/2007	KWS	2	6	12.45000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	0.9 RETS AT 260 DEG N.BOUND UD LARGE GROUP
1/18/2007	KWS	2	3	12.46194	3	NW	4	12.46194	264	1.8		12.55278	236	1.8	E	1	S	0	0	0	
1/18/2007	KWS	2	3	12.48611	3	NW	4	0.00000	0	0.0		12.48611	246	1.3		2	S	0	0	0	
1/18/2007	KWS	2	3	12.49528	3	NW	4	12.49528	258	1.5		12.64583	235	1.5	E	3	S	0	0	3	
1/18/2007	KWS	2	2	12.66667	4	NW	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	GLARE
1/18/2007	KWS	2	3	12.73194	4	NW	4	0.00000	0	0.0		12.73194	239	1.3		2	S	0	0	0	
1/18/2007	KWS	2	3	12.80694	4	NW	4	12.80694	262	0.8		13.05417	245	0.9		2	S	0	0	5	
1/18/2007	KWS	2	3	12.86250	4	NW	4	12.86250	280	2.0	E	13.10028	239	2.5	E	1	S	1	0	0	BREACHED AT 280 DEG
1/18/2007	KWS	2	3	12.88778	4	NW	4	0.00000	0	0.0		12.88778	237	1.5	E	1	S	0	0	0	
1/18/2007	KWS	2	2	12.98333	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/18/2007	KWS	2	3	13.05972	4	NW	5	13.05972	255	1.1		13.17472	237	1.4	E	3	S	0	0	0	
1/18/2007	KWS	2	3	13.18667	4	NW	5	13.18667	247	2.0		13.20556	241	2.0	5	5	S	0	0	0	
1/18/2007	KWS	2	3	13.24722	4	NW	5	13.24722	246	1.1		13.27083	242	1.2		1	S	0	0	0	
1/18/2007	KWS	2	3	13.28667	4	NW	5	13.28667	246	1.3		13.31250	242	1.3		3	S	0	0	0	
1/18/2007	KWS	2	3	13.31917	4	NW	5	13.31917	255	1.9		13.38278	241	1.9		2	S	0	0	0	
1/18/2007	KWS	2	3	13.35250	4	NW	5	13.35250	257	1.8		13.47389	241	1.8		2	S	0	0	0	
1/18/2007	KWS	2	3	13.38278	4	NW	5	0.00000	0	0.0		13.38278	241	3.0	E	1	S	0	0	0	
1/18/2007	KWS	2	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/18/2007	RCH	2	1	13.50028	4	W	4	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	"B11546.LR 314"
1/18/2007	RCH	2	3	13.67528	4	W	4	13.67528	248	1.7		13.76444	239	1.7		2	S	0	0	2	
1/18/2007	RCH	2	3	13.71417	4	W	4	0.00000	0	0.0		13.71417	238	1.9		3	S	0	0	5	
1/18/2007	RCH	2	3	13.93667	4	W	4	0.00000	0	0.0		13.93667	243	1.5		1	S	0	0	2	
1/18/2007	RCH	2	3	14.29861	4	W	4	14.29861	250	1.8		14.36500	235	1.7		1	S	0	0	3	
1/18/2007	RCH	2	3	14.34306	4	W	4	0.00000	0	0.0		14.34306	248	2.1		1	S	0	0	2	
1/18/2007	RCH	2	2	14.38333	3	SW	3	0.00000	0	0.0		0.00000	0	0.0	0	0			0	0	
1/18/2007	RCH	2	3	14.52028	3	SW	3	14.52028	248	1.8		14.58661	243	1.8		2	S	0	0	3	
1/18/2007	RCH	2	3	14.58083	3	SW	3	0.00000	0	0.0		14.58083	239	1.5		2	S	0	0	2	
1/18/2007	RCH	2	3	14.85750	3	SW	3	0.00000	0	0.0		14.85750	238	0.7		1	S	0	0	1	
1/18/2007	RCH	2	3	14.98417	3	SW	3	14.98417	250	1.2		14.04417	241	1.2		3	S	0	0	4	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/18/2007	RCH	2	3	15.07944	3	SW	3	0.00000	0	0.0		15.07944	243	2.3		1		S	0	1	
1/18/2007	RCH	2	3	15.24861	3	SW	3	0.00000	0	0.0		15.24861	257	3.4		1		S	0	0	
1/18/2007	RCH	2	3	15.28306	3	SW	3	0.00000	0	0.0		15.28306	253	2.1		1		S	0	0	
1/18/2007	RCH	2	3	15.34028	3	SW	3	15.34028	262	1.8		15.44639	243	2.0		2		S	0	0	
1/18/2007	RCH	2	3	15.35611	3	SW	3	15.35611	269	2.2		15.45028	241	2.5		7		S	0	0	
1/18/2007	RCH	2	3	15.46750	3	SW	3	0.00000	0	0.0		15.46750	244	2.5		3		S	0	0	
1/18/2007	RCH	2	3	15.56611	3	SW	3	0.00000	0	0.0		15.56611	254	2.6		3		S	0	0	
1/18/2007	RCH	2	3	15.58083	3	SW	3	0.00000	0	0.0		15.58083	252	2.3		2		S	0	0	
1/18/2007	RCH	2	3	15.59056	3	SW	3	15.59056	264	2.2		15.72222	230	2.1		2		S	0	0	
1/18/2007	RCH	2	3	15.60500	3	SW	3	0.00000	0	0.0		15.60500	245	1.6		2		S	0	0	
1/18/2007	RCH	2	3	15.63917	3	SW	3	0.00000	0	0.0		15.63917	242	1.6		2		S	0	0	
1/18/2007	RCH	2	3	15.66833	3	SW	3	0.00000	0	0.0		15.66833	243	3.2		2		S	0	0	
1/18/2007	RCH	2	5	15.80000	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/18/2007	RCH	2	1	15.90000	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/18/2007	RCH	2	3	15.90028	3	SW	3	0.00000	0	0.0		15.90028	234	2.2	E	1		S	0	0	
1/18/2007	RCH	2	3	15.93306	3	SW	3	0.00000	0	0.0		15.93306	261	1.7		2		S	0	0	
1/18/2007	RCH	2	6	16.05000	3	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	10 TO 20 SEA LIONS AT 250 DEG RET 4 PORPOISING
1/18/2007	RCH	2	3	16.09028	3	SW	3	0.00000	0	0.0		16.09028	246	3.0		1		S	0	2	
1/18/2007	RCH	2	2	16.10000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/18/2007	RCH	2	3	16.21611	4	SW	3	16.21611	262	1.5		16.32000	243	1.5		2		S	0	0	
1/18/2007	RCH	2	3	16.21694	4	SW	3	0.00000	0	0.0		16.21694	267	3.5		1		S	0	0	
1/18/2007	RCH	2	3	16.24083	4	SW	3	0.00000	0	0.0		16.24083	237	2.0		1		S	0	0	
1/18/2007	RCH	2	3	16.28611	4	SW	3	0.00000	0	0.0		16.28611	240	2.0		1		S	0	0	
1/18/2007	RCH	2	3	16.30528	4	SW	3	0.00000	0	0.0		16.30528	248	1.3		1		S	0	0	
1/18/2007	RCH	2	5	16.50000	4	SW	3	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/19/2007	RCH	2	1	7.50000	3	E	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	B11546 LR314
1/19/2007	RCH	2	3	7.60278	3	E	2	0.00000	0	0.0		7.60278	241	1.2		1		S	0	1	FLUKE
1/19/2007	RCH	2	3	7.61944	3	E	2	0.00000	0	0.0		7.61944	242	1.5		2		S	0	1	
1/19/2007	RCH	2	3	7.66778	3	E	2	0.00000	0	0.0		7.66778	232	3.2		1		S	0	1	
1/19/2007	RCH	2	3	7.72000	3	E	2	0.00000	0	0.0		7.72000	264	1.4		1		S	0	2	
1/19/2007	RCH	2	3	7.76139	3	E	2	0.00000	0	0.0		7.76139	252	1.2		2		S	0	2	
1/19/2007	RCH	2	3	7.84194	3	E	2	0.00000	0	0.0		7.84194	246	2.3		2		S	0	1	
1/19/2007	RCH	2	3	7.85556	3	E	2	0.00000	0	0.0		7.85556	245	1.9		1		S	0	1	
1/19/2007	RCH	2	3	7.94583	3	E	2	7.94583	257	1.3		7.98806	244	1.4		2		S	0	4	
1/19/2007	RCH	2	3	8.02889	3	E	2	0.00000	0	0.0		8.02889	235	0.8		1		S	0	1	
1/19/2007	RCH	2	3	8.08944	3	E	2	8.08944	249	1.3		8.17611	227	1.4		1		S	0	1	
1/19/2007	RCH	2	3	8.11278	3	E	2	8.11278	244	1.6		8.19556	237	1.7		1		S	0	2	
1/19/2007	RCH	2	3	8.12861	3	E	2	0.00000	0	0.0		8.12861	245	1.0		2		S	0	1	
1/19/2007	RCH	2	3	8.14222	3	E	2	0.00000	0	0.0		8.14222	238	1.9		1		S	0	1	
1/19/2007	RCH	2	3	8.25806	3	E	2	0.00000	0	0.0		8.25806	236	0.6		1		S	0	1	
1/19/2007	RCH	2	3	8.36694	3	E	2	8.36694	262	2.4		8.44083	238	2.5		4		S	0	4	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N TIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/19/2007	RCH	2	2	8.38333	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/19/2007	RCH	2	3	8.48667	2	NW	3	0.00000	0	0.0		8.48667	242	1.5	1		S	0	3	
1/19/2007	RCH	2	3	8.49583	2	NW	3	8.49583	254	1.5		8.54611	245	1.6	2		S	0	5	
1/19/2007	RCH	2	3	8.64222	2	NW	3	8.64222	261	1.7		8.71722	247	1.9	3		S	0	3	
1/19/2007	RCH	2	3	8.74500	2	NW	3	0.00000	0	0.0		8.74500	257	1.5	2		S	0	3	
1/19/2007	RCH	2	3	8.82250	2	NW	3	0.00000	0	0.0		8.82250	241	11.0	1		S	0	1	
1/19/2007	RCH	2	3	8.90000	2	NW	3	0.00000	0	0.0		8.90000	223	9.0	1		S	0	1	
1/19/2007	RCH	2	2	8.95000	2	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/19/2007	RCH	2	2	9.20000	3	NW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/19/2007	RCH	2	3	9.23194	3	NW	5	9.23194	278	8.5		9.28333	222	7.8	1		S	0	2	
1/19/2007	RCH	2	3	9.45361	3	NW	5	9.45361	264	1.5		9.54250	239	1.9	2		S	0	2	
1/19/2007	RCH	2	3	9.46472	3	NW	5	9.46472	253	2.9		9.49083	243	2.9	1		S	0	0	
1/19/2007	RCH	2	3	9.51556	3	NW	5	0.00000	0	0.0		9.51556	244	3.5	1		S	0	0	
1/19/2007	RCH	2	3	9.88778	3	NW	5	0.00000	0	0.0		9.88778	244	1.3	1		S	0	1	
1/19/2007	RCH	2	3	9.93111	3	NW	5	0.00000	0	0.0		9.93111	246	3.5	1		S	0	0	
1/19/2007	RCH	2	3	9.96528	3	NW	5	9.96528	250	1.3		10.01806	238	1.4	3		S	0	0	
1/19/2007	RCH	2	2	10.03333	4	NW	6	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/19/2007	RCH	2	3	10.48861	4	NW	6	0.00000	0	0.0		10.48861	232	1.9	1		S	0	1	
1/19/2007	RCH	2	3	10.56111	4	NW	6	0.00000	0	0.0		10.56111	228	1.6	1		S	0	1	
1/19/2007	RCH	2	5	10.56667	4	NW	6	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/19/2007	KWS	2	1	13.50028	4	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	11548 BINOS LR 314 DEG HAZY HORIZON
1/19/2007	KWS	2	3	13.62917	4	NW	4	13.62917	260	1.5	E	13.71306	244	1.5	2		S	0	5	3
1/19/2007	KWS	2	3	13.82278	4	NW	4	0.00000	0	0.0		13.82278	261	1.4	E 1		S	0	1	
1/19/2007	KWS	2	3	13.89611	4	NW	4	13.89611	263	1.9		13.97944	242	1.9	2		S	0	5	
1/19/2007	KWS	2	3	13.95222	4	NW	4	0.00000	0	0.0		13.95222	229	1.5	1		S	0	1	
1/19/2007	KWS	2	3	14.00444	4	NW	4	0.00000	0	0.0		14.00444	241	0.8	5		S	0	3	
1/19/2007	KWS	2	3	14.08361	4	NW	4	14.08361	282	1.2		14.36694	243	1.5	3		S	0	5	TRAVELLING BEHIND A GROUP OF 4 ABOUT 2 DEGREES AHEAD
1/19/2007	KWS	2	3	14.08361	4	NW	4	14.08361	280	1.2		14.33750	243	1.5	4		S	0	5	
1/19/2007	KWS	2	3	14.09806	4	NW	4	14.09806	247	1.5	E	14.15694	233	1.5	E 1		S	0	2	
1/19/2007	KWS	2	3	14.15639	4	NW	4	14.15639	270	1.9	E	14.33750	241	2.3	2		S	0	3	
1/19/2007	KWS	2	2	14.38333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	DARK HORIZON
1/19/2007	KWS	2	3	14.40361	3	NW	3	14.40361	249	1.6		14.43889	243	1.6	6		S	0	3	
1/19/2007	KWS	2	3	14.62917	3	NW	3	0.00000	0	0.0		14.62917	235	1.5	E 2		S	0	2	
1/19/2007	KWS	2	3	14.65028	3	NW	3	14.65028	253	1.6		14.71111	244	1.7	E 1		S	0	2	
1/19/2007	KWS	2	3	14.86667	3	NW	3	14.86667	250	0.9	E	14.93194	242	1.0	2		S	0	3	
1/19/2007	KWS	2	3	15.05667	3	NW	3	15.05667	257	2.0		15.12222	244	2.1	E 1		S	0	3	
1/19/2007	KWS	2	2	15.08333	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	GOOD LIGHTING
1/19/2007	KWS	2	3	15.38611	2	NW	3	15.38611	269	2.5		15.47639	241	2.8	1		S	0	5	
1/19/2007	KWS	2	3	15.51556	2	NW	3	15.51556	270	1.8	E	15.61694	245	2.2	1		S	0	4	
1/19/2007	KWS	2	3	15.55278	2	NW	3	15.55278	258	3.1		15.59472	240	3.4	1		S	0	3	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	NTIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/19/2007	KWS	2	3	15.64306	2	NW	3	0.00000	0	0.0		15.64306	266	2.1	1			S	0	3	LOST IN GLARE AND HAZE BANK THAT COVERED 250 AND SOUTH FOR A SHORT TIME
1/19/2007	KWS	2	3	15.76250	2	NW	3	15.76250	250	2.2		15.80556	241	2.2	1			S	0	3	7-8 TURSIOPS NBOUND IN SURF LINE AT LEAST ONE CALF IN THE GROUP
1/19/2007	KWS	2	6	15.86667	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/19/2007	KWS	2	3	15.95306	2	NW	3	15.95306	256	2.2		16.02278	245	2.3	2			S	0	5	
1/19/2007	KWS	2	3	16.00333	2	NW	3	0.00000	0	0.0		16.00333	246	2.2	1			S	0	0	
1/19/2007	KWS	2	3	16.11389	2	NW	3	16.11389	255	3.0	E	16.18361	237	3.0	E	1		S	0	4	
1/19/2007	KWS	2	3	16.30000	2	NW	3	16.30000	270	1.8	E	16.49167	243	2.1	1			S	0	2	
1/19/2007	KWS	2	5	16.50000	2	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	1	7.41667	3	NW	2	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	3	7.43417	3	NW	2	0.00000	0	0.0		7.43417	239	1.3	E	1		S	0	3	
1/20/2007	KWS	2	3	7.67083	3	NW	2	7.67083	283	2.5		7.78639	239	3.3	1			S	0	2	
1/20/2007	KWS	2	3	7.70722	3	NW	2	7.70722	251	2.6		7.75556	242	2.5	4			S	0	5	SPREAD OUT OVER 2 DEGREES
1/20/2007	KWS	2	3	7.79167	3	NW	2	7.79167	246	0.5	E	7.81472	240	0.5	1			S	0	2	
1/20/2007	KWS	2	2	7.83333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	3	7.85972	3	NW	3	7.85972	246	1.3		7.89750	238	1.3	2			S	0	3	
1/20/2007	KWS	2	3	7.92500	3	NW	3	7.92500	260	1.0	E	8.00056	245	1.0	E	1		S	0	1	
1/20/2007	KWS	2	3	7.95028	3	NW	3	0.00000	0	0.0		7.95028	239	0.8	1			S	0	0	
1/20/2007	KWS	2	3	7.97833	3	NW	3	0.00000	0	0.0		7.97833	235	2.0	1			S	0	0	
1/20/2007	KWS	2	3	8.10417	3	NW	3	8.10417	265	1.5	E	8.20028	240	1.5	E	1		S	0	3	
1/20/2007	KWS	2	4	8.11667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	4	8.21667	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	3	8.25972	3	NW	3	8.25972	264	0.6		8.39167	241	0.6	2			S	0	2	
1/20/2007	KWS	2	3	8.29028	3	NW	3	8.29028	265	1.3	E	8.39167	243	1.8	2			S	0	4	
1/20/2007	KWS	2	3	8.36833	3	NW	3	8.36833	250	2.1		8.40556	242	2.3	2			S	0	3	
1/20/2007	KWS	2	3	8.41194	3	NW	3	8.41194	246	1.8	E	8.42917	240	1.8	E	1		S	0	3	
1/20/2007	KWS	2	3	8.48722	3	NW	3	0.00000	0	0.0		8.48722	242	1.8	1			S	0	3	
1/20/2007	KWS	2	4	8.50000	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0				0	0	
1/20/2007	KWS	2	3	8.52667	3	NW	3	0.00000	0	0.0		8.52667	236	1.0	3			S	0	2	
1/20/2007	KWS	2	3	8.55361	3	NW	3	0.00000	0	0.0		8.55361	240	1.4	1			S	0	3	
1/20/2007	KWS	2	3	8.57806	3	NW	3	0.00000	0	0.0		8.57806	243	2.0	E	1		S	0	3	
1/20/2007	KWS	2	3	8.75028	3	NW	3	8.75028	262	2.2		8.88611	237	2.6	2			S	0	3	
1/20/2007	KWS	2	3	8.76361	3	NW	3	0.00000	0	0.0		8.76361	238	1.7	1			S	0	1	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS		
1/20/2007	KWS	2	3	8.86250	3	NW	3	8.86250	1.2		8.97028	240	1.5		4		S	0	5			
1/20/2007	KWS	2	3	9.03611	3	NW	3	9.03611	246	1.5	E	9.10417	231	1.5	E	1	S	0	2			
1/20/2007	KWS	2	3	9.12583	3	NW	3	9.12583	263	0.9		9.34167	240	1.0		S	0	3				
1/20/2007	KWS	2	3	9.13889	3	NW	3	9.13889	261	1.2		9.32111	238	1.2	1	S	0	3				
1/20/2007	KWS	2	3	9.13889	3	NW	3	9.13889	263	1.0		9.35417	240	1.1	1	S	0	3				
1/20/2007	KWS	2	3	9.18917	3	NW	3	0.00000	0	0.0		9.18917	247	1.2	1	S	0	2				
1/20/2007	KWS	2	3	9.39167	3	NW	3	0.00000	0	0.0		9.39167	242	1.2	E	1	S	0	1			
1/20/2007	KWS	2	3	9.40556	3	NW	3	9.40556	251	3.2		9.47222	241	3.2	E	2	S	0	2			
1/20/2007	KWS	2	3	9.47222	3	NW	3	0.00000	0	0.0		9.47222	242	1.5	E	1	S	0	1			
1/20/2007	KWS	2	3	9.47778	3	NW	3	0.00000	0	0.0		9.47778	269	3.2	E	2	S	0	1			
1/20/2007	KWS	2	3	9.68694	3	NW	3	0.00000	0	0.0		9.68694	230	1.6	E	1	S	0	2			
1/20/2007	KWS	2	3	9.72111	3	NW	3	0.00000	0	0.0		9.72111	239	1.5	2	S	0	2				
1/20/2007	KWS	2	6	9.78333	3	NW	3	0.00000	0	0.0		0.00000	0	0.0	0	S	0	0	0		PV IN THE COVE	
1/20/2007	KWS	2	3	10.08972	3	NW	3	10.08972	257	1.5		10.18417	241	1.6	1	S	0	3				
1/20/2007	KWS	2	3	10.11139	3	NW	3	10.11139	248	2.2		10.15278	240	2.2	2	S	0	3				
1/20/2007	KWS	2	3	10.12778	3	NW	3	0.00000	0	0.0		10.12778	238	1.7	1	S	0	3				
1/20/2007	KWS	2	2	10.18333	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0		"HAZY BIRDS, HARD TO SEE BLOWS"	
1/20/2007	KWS	2	3	10.21833	4	NW	3	0.00000	0	0.0		10.21833	241	1.6	E	1	S	0	2			
1/20/2007	KWS	2	3	10.24306	4	NW	3	0.00000	0	0.0		10.24306	261	2.2	E	1	S	0	1			
1/20/2007	KWS	2	5	10.50000	4	NW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0			
1/20/2007	RCH	2	1	10.50028	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0		B	
1/20/2007	RCH	2	3	10.72694	3	NW	4	0.00000	0	0.0		10.72694	247	0.9	6	S	0	3				
1/20/2007	RCH	2	3	10.77111	3	NW	4	0.00000	0	0.0		10.77111	235	0.7	1	S	0	1				
1/20/2007	RCH	2	3	10.99389	3	NW	4	0.00000	0	0.0		10.99389	241	1.2	3	S	0	3				
1/20/2007	RCH	2	3	11.01694	3	NW	4	0.00000	0	0.0		11.01694	237	1.3	2	S	0	1				
1/20/2007	RCH	2	3	11.03639	3	NW	4	0.00000	0	0.0		11.03639	244	1.4	2	S	0	3				
1/20/2007	RCH	2	3	11.33750	3	NW	4	11.33750	249	0.8		11.40556	239	0.8	2	S	0	3				
1/20/2007	RCH	2	3	11.46667	3	NW	4	11.46667	251	1.6		11.52333	240	1.7	2	S	0	2				
1/20/2007	RCH	2	3	11.63056	3	NW	4	0.00000	0	0.0		11.63056	230	1.3	1	S	0	1				
1/20/2007	RCH	2	3	11.66944	3	NW	4	0.00000	0	0.0		11.66944	236	2.1	1	S	0	0				
1/20/2007	RCH	2	3	11.75556	3	NW	4	0.00000	0	0.0		11.75556	233	2.3	1	S	0	0				
1/20/2007	RCH	2	3	11.76861	3	NW	4	0.00000	0	0.0		11.76861	239	1.7	3	S	0	4				
1/20/2007	RCH	2	3	12.05556	3	NW	4	12.05556	254	2.0		12.11361	240	2.1	1	S	0	5				
1/20/2007	RCH	2	3	12.12417	3	NW	4	0.00000	0	0.0		12.12417	221	1.8	1	S	0	4				
1/20/2007	RCH	2	3	12.24639	3	NW	4	0.00000	0	0.0		12.24639	245	1.0	1	S	0	1				
1/20/2007	RCH	2	3	12.34556	3	NW	4	12.34556	255	1.4		12.41417	242	1.5	2	S	0	1				
1/20/2007	RCH	2	3	12.51139	3	NW	4	0.00000	0	0.0		12.51139	255	1.8	1	S	0	3				
1/20/2007	RCH	2	3	12.67750	3	NW	4	0.00000	0	0.0		12.67750	237	1.7	1	S	0	1				
1/20/2007	RCH	2	3	12.72667	3	NW	4	0.00000	0	0.0		12.72667	242	2.3	3	S	0	3				
1/20/2007	RCH	2	3	12.75667	3	NW	4	0.00000	0	0.0		12.75667	236	3.3	1	S	0	2				
1/20/2007	RCH	2	3	12.89306	3	NW	4	0.00000	0	0.0		12.89306	236	1.9	2	S	0	2				
1/20/2007	RCH	2	3	12.95194	3	NW	4	0.00000	0	0.0		12.95194	238	2.3	1	S	0	1				

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N TIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/20/2007	RCH	2	3	13.10667	3	NW	4	0.00000	0	0.0		13.10667	233	1.7	1		S	0	1	
1/20/2007	RCH	2	3	13.28111	3	NW	4	13.28111	244	2.2		13.36361	230	2.2	2		S	0	2	
1/20/2007	RCH	2	3	13.49750	3	NW	4	0.00000	0	0.0		13.49750	241	2.9	1		S	0	1	
1/20/2007	RCH	2	3	13.51917	3	NW	4	0.00000	0	0.0		13.51917	230	0.8	3		S	0	4	
1/20/2007	RCH	2	3	13.54472	3	NW	4	0.00000	0	0.0		13.54472	228	2.3	1		S	0	2	
1/20/2007	RCH	2	5	13.58333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0	0					
1/21/2007	KWS	2	1	10.50028	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0					BINOS 11548 LR 314
1/21/2007	KWS	2	3	10.55583	4	NW	5	0.00000	0	0.0		10.55583	240	1.0	1		S	0	1	
1/21/2007	KWS	2	3	10.61333	4	NW	5	10.61333	249	1.9	E	10.65028	237	2.1	1		S	0	4	
1/21/2007	KWS	2	2	10.61667	3	NW	5	0.00000	0	0.0		0.00000	0	0.0	0					
1/21/2007	KWS	2	3	10.79722	3	NW	5	0.00000	0	0.0		10.79722	236	1.7	E 1		S	0	0	
1/21/2007	KWS	2	3	10.83611	3	NW	5	10.83611	262	4.0	E	10.92278	227	4.0	E 1		S	0	0	
1/21/2007	KWS	2	3	10.83611	3	NW	5	10.83611	262	1.5	E	11.00583	232	1.5	E 1		S	0	0	
1/21/2007	KWS	2	3	10.86556	3	NW	5	0.00000	0	0.0		10.86556	230	2.5	1		S	0	0	
1/21/2007	KWS	2	3	10.96139	3	NW	5	0.00000	0	0.0		10.96139	262	1.3	E 1		S	0	2	
1/21/2007	KWS	2	3	11.09583	3	NW	5	11.09583	267	1.5		11.20972	244	1.5	2		S	0	5	
1/21/2007	KWS	2	2	11.16667	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0					
1/21/2007	KWS	2	3	11.18694	4	NW	5	0.00000	0	0.0		11.18694	237	2.2	E 1		S	0	0	
1/21/2007	KWS	2	3	11.26250	4	NW	5	0.00000	0	0.0		11.26250	254	1.5	1		S	0	0	
1/21/2007	KWS	2	3	11.27778	4	NW	5	11.27778	262	0.8	E	11.44444	239	1.0	E 1		S	0	0	
1/21/2007	KWS	2	3	11.32806	4	NW	5	0.00000	0	0.0		11.32806	254	1.3	1		S	1	1	
1/21/2007	KWS	2	3	11.33972	4	NW	5	11.33972	257	1.5		11.47222	242	1.5	E 1		S	0	0	
1/21/2007	KWS	2	3	11.50972	4	NW	5	11.50972	248	1.6	E	11.5028	238	1.6	E 2		S	0	0	
1/21/2007	KWS	2	3	11.60556	4	NW	5	0.00000	0	0.0		11.60556	231	2.0	E 1		S	0	0	
1/21/2007	KWS	2	3	11.65000	4	NW	5	11.65000	249	0.9	E	11.79444	239	1.2	2		S	0	0	
1/21/2007	KWS	2	3	11.75278	4	NW	5	11.75278	262	1.5		11.95222	230	1.5	2		S	0	0	
1/21/2007	KWS	2	3	11.83611	4	NW	5	0.00000	0	0.0		11.83611	239	1.1	3		S	0	0	
1/21/2007	KWS	2	3	11.83611	4	NW	5	0.00000	0	0.0		11.83611	239	2.1	1		S	0	0	
1/21/2007	KWS	2	3	11.91472	4	NW	5	11.91472	247	1.7		11.94000	241	1.7	5		S	0	0	
1/21/2007	KWS	2	3	12.04722	4	NW	5	0.00000	0	0.0		12.04722	241	1.3	1		S	0	0	
1/21/2007	KWS	2	2	12.06667	4	NW	6	0.00000	0	0.0		0.00000	0	0.0	0					
1/21/2007	KWS	2	3	12.30139	4	NW	6	0.00000	0	0.0		12.30139	270	2.0	E 1		S	0	0	
1/21/2007	KWS	2	3	12.31694	4	NW	6	0.00000	0	0.0		12.31694	243	1.5	E 1		S	0	0	
1/21/2007	KWS	2	3	12.36750	4	NW	6	0.00000	0	0.0		12.36750	242	1.1	E 1		S	0	0	
1/21/2007	KWS	2	2	12.40000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0	0					
1/21/2007	KWS	2	3	12.52361	4	NW	5	0.00000	0	0.0		12.52361	243	1.9	E 2		S	0	0	
1/21/2007	KWS	2	3	12.61139	4	NW	5	12.61139	247	4.5	E	12.64472	232	4.5	1		S	0	0	CALF?
1/21/2007	KWS	2	3	12.66944	4	NW	5	0.00000	0	0.0		12.66944	243	2.2	1		S	0	0	
1/21/2007	KWS	2	3	12.66944	4	NW	5	0.00000	0	0.0		12.66944	245	3.0	1		S	0	0	
1/21/2007	KWS	2	3	12.70083	4	NW	5	0.00000	0	0.0		12.70083	230	1.5	1		S	0	0	
1/21/2007	KWS	2	3	12.75833	4	NW	5	0.00000	0	0.0		12.75833	235	2.5	E 1		S	0	0	
1/21/2007	KWS	2	3	12.76694	4	NW	5	0.00000	0	0.0		12.76694	235	0.9	1		S	0	0	
1/21/2007	KWS	2	3	12.79444	4	NW	5	0.00000	0	0.0		12.79444	238	1.5	1		S	0	0	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/21/2007	KWS	2	3	12.82917	4	NW	5	12.82917	252	2.6		12.93889	235	2.5	E	2		S	0	0	
1/21/2007	KWS	2	3	12.85972	4	NW	5	0.00000	0	0.0		12.85972	239	1.6				S	0	0	
1/21/2007	KWS	2	3	12.90333	4	NW	5	0.00000	0	0.0		12.90333	238	1.5				S	0	0	
1/21/2007	KWS	2	3	12.92222	4	NW	5	12.92222	258	1.4	E	13.04472	239	1.7				S	0	0	
1/21/2007	KWS	2	3	13.07944	4	NW	5	0.00000	0	0.0		13.07944	245	1.5				S	0	0	
1/21/2007	KWS	2	3	13.17500	4	NW	5	0.00000	0	0.0		13.17500	239	1.5				S	0	0	
1/21/2007	KWS	2	3	13.23056	4	NW	5	0.00000	0	0.0		13.23056	238	1.5	E	2		S	0	0	
1/21/2007	KWS	2	3	13.26111	4	NW	5	13.26111	252	1.0	E	13.32222	245	1.0				S	0	0	
1/21/2007	KWS	2	3	13.30694	4	NW	5	0.00000	0	0.0		13.30694	238	1.2				S	0	0	
1/21/2007	KWS	2	3	13.42722	4	NW	5	13.42722	244	1.6	E	13.45083	235	1.5	E	1		S	0	0	
1/21/2007	KWS	2	5	13.50000	4	NW	5	0.00000	0	0.0		0.00000	0	0.0				S	0	0	
1/21/2007	RCH	2	1	13.50028	4	NW	6	0.00000	0	0.0		0.00000	0	0.0				S	0	0	"B11546.LR314"
1/21/2007	RCH	2	3	13.66694	4	NW	6	0.00000	0	0.0		13.66694	236	1.2				S	0	2	
1/21/2007	RCH	2	3	13.88111	4	NW	6	0.00000	0	0.0		13.88111	246	1.3				S	0	2	
1/21/2007	RCH	2	3	13.89806	4	NW	6	0.00000	0	0.0		13.89806	243	1.6				S	0	2	
1/21/2007	RCH	2	3	13.91389	4	NW	6	0.00000	0	0.0		13.91389	237	1.5				S	0	1	
1/21/2007	RCH	2	3	13.96056	4	NW	6	0.00000	0	0.0		13.96056	246	1.4				S	0	2	
1/21/2007	RCH	2	3	14.13972	4	NW	6	0.00000	0	0.0		14.13972	237	2.9				S	0	2	
1/21/2007	RCH	2	3	14.29611	4	NW	6	0.00000	0	0.0		14.29611	243	3.0				S	0	2	
1/21/2007	RCH	2	2	14.35000	3	NW	5	0.00000	0	0.0		0.00000	0	0.0				S	0	0	
1/21/2007	RCH	2	3	14.51750	3	NW	5	0.00000	0	0.0		14.51750	243	1.7				S	0	3	
1/21/2007	RCH	2	3	14.55111	3	NW	5	0.00000	0	0.0		14.55111	264	5.6				S	0	1	
1/21/2007	RCH	2	3	14.62222	3	NW	5	0.00000	0	0.0		14.62222	244	4.3				S	0	1	
1/21/2007	RCH	2	3	14.67583	3	NW	5	0.00000	0	0.0		14.67583	243	1.8				S	0	2	
1/21/2007	RCH	2	3	14.72778	3	NW	5	14.72778	248	1.6		14.76833	243	1.6				S	0	3	
1/21/2007	RCH	2	3	14.76944	3	NW	5	0.00000	0	0.0		14.76944	245	1.6				S	0	1	
1/21/2007	RCH	2	3	14.81778	3	NW	5	0.00000	0	0.0		14.81778	238	2.3				S	0	1	
1/21/2007	RCH	2	3	14.87750	3	NW	5	0.00000	0	0.0		14.87750	238	1.3				S	0	3	
1/21/2007	RCH	2	3	14.93194	3	NW	5	14.93194	248	1.2		15.07333	243	1.2				S	0	4	
1/21/2007	RCH	2	3	15.06028	3	NW	5	0.00000	0	0.0		15.06028	249	2.7				S	0	2	
1/21/2007	RCH	2	3	15.15750	3	NW	5	0.00000	0	0.0		15.15750	237	1.4				S	0	2	
1/21/2007	RCH	2	3	15.18194	3	NW	5	15.18194	255	0.8		15.24500	246	0.9				S	0	4	
1/21/2007	RCH	2	3	15.19278	3	NW	5	0.00000	0	0.0		15.19278	243	0.7				S	0	1	
1/21/2007	RCH	2	3	15.20750	3	NW	5	0.00000	0	0.0		15.20750	246	1.6				S	0	3	
1/21/2007	RCH	2	3	15.30361	3	NW	5	0.00000	0	0.0		15.30361	247	1.1				S	0	1	
1/21/2007	RCH	2	3	15.33583	3	NW	5	15.33583	252	1.3		15.38333	244	1.4				S	0	4	
1/21/2007	RCH	2	2	15.40000	3	NW	4	0.00000	0	0.0		0.00000	0	0.0				S	0	0	
1/21/2007	RCH	2	3	15.42083	3	NW	4	15.42083	256	1.5		15.48833	243	1.6				S	0	6	
1/21/2007	RCH	2	3	15.70306	3	NW	4	0.00000	0	0.0		15.70306	245	1.3				S	0	5	
1/21/2007	RCH	2	3	15.71472	3	NW	4	0.00000	0	0.0		15.71472	245	0.8				S	0	1	
1/21/2007	RCH	2	3	15.72222	3	NW	4	0.00000	0	0.0		15.72222	247	1.6				S	0	2	
1/21/2007	RCH	2	3	15.75028	3	NW	4	15.75028	256	1.6		15.82611	242	1.8				S	0	3	
1/21/2007	RCH	2	3	15.76528	3	NW	4	15.76528	253	3.3		15.86194	240	3.3				S	0	5	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/21/2007	RCH	2	3	15.80556	3	NW	4	0.00000	0	0.0		15.80556	248	1.9		2		S	0	2		
1/21/2007	RCH	2	3	15.91444	3	NW	4	0.00000	0	0.0		15.91444	245	1.7		2		S	0	3		
1/21/2007	RCH	2	3	16.00278	3	NW	4	0.00000	0	0.0		16.00278	238	1.7		2		S	0	2		
1/21/2007	RCH	2	3	16.05000	3	NW	4	16.05000	268	1.6		16.17667	241	1.9		1		S	0	6		
1/21/2007	RCH	2	3	16.12361	3	NW	4	16.12361	255	1.5		16.21000	240	1.8		1		S	0	3		
1/21/2007	RCH	2	3	16.30333	3	NW	4	0.00000	0	0.0		16.30333	238	2.5		1		S	0	3		
1/21/2007	RCH	2	5	16.58333	3	NW	4	0.00000	0	0.0		0.00000	0	0.0		0						
1/22/2007	RCH	2	1	7.50000	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0						"B11546, RL314"
1/22/2007	RCH	2	3	7.70139	4	SW	2	0.00000	0	0.0		7.70139	235	1.4		1		S	0	4		
1/22/2007	RCH	2	3	7.74389	4	SW	2	0.00000	0	0.0		7.74389	235	1.9		1		S	0	4		
1/22/2007	RCH	2	3	7.75833	4	SW	2	0.00000	0	0.0		7.75833	230	1.5		2		S	0	3		
1/22/2007	RCH	2	3	7.82778	4	SW	2	0.00000	0	0.0		7.82778	234	1.4		3		S	0	3		
1/22/2007	RCH	2	3	7.88806	4	SW	2	0.00000	0	0.0		7.88806	230	1.4		1		S	0	1		
1/22/2007	RCH	2	3	7.98528	4	SW	2	7.98528	259	0.8		8.28889	232	0.7		2		S	0	3		
1/22/2007	RCH	2	3	8.00472	4	SW	2	0.00000	0	0.0		8.00472	247	2.9		2	1	S	0	6		
1/22/2007	RCH	2	3	8.20028	4	SW	2	0.00000	0	0.0		8.20028	255	5.5		1		S	0	1		
1/22/2007	RCH	2	3	8.25250	4	SW	2	0.00000	0	0.0		8.25250	262	2.1		1		S	0	1		
1/22/2007	RCH	2	3	8.39250	4	SW	2	0.00000	0	0.0		8.39250	233	4.3		1		S	0	3		
1/22/2007	RCH	2	3	8.60250	4	SW	2	8.60250	253	2.3		8.73333	227	2.3		3		S	0	4		
1/22/2007	RCH	2	3	8.85639	4	SW	2	0.00000	0	0.0		8.85639	264	3.3		1		S	0	3		
1/22/2007	RCH	2	3	9.10000	4	SW	2	0.00000	0	0.0		9.10000	234	2.5		2		S	0	3		
1/22/2007	RCH	2	3	9.13194	4	SW	2	9.13194	265	1.2		9.31583	241	1.7		3		S	0	2		
1/22/2007	RCH	2	3	9.14278	4	SW	2	9.14278	266	1.8		9.30694	237	2.2		3		S	0	3		
1/22/2007	RCH	2	3	9.37639	4	SW	2	0.00000	0	0.0		9.37639	235	2.3		1		S	0	1		
1/22/2007	RCH	2	3	9.43056	4	SW	2	0.00000	0	0.0		9.43056	249	2.1		1		S	0	1		
1/22/2007	RCH	2	3	9.74417	4	SW	2	0.00000	0	0.0		9.74417	229	3.6		1		S	0	2		
1/22/2007	RCH	2	3	9.85028	4	SW	2	0.00000	0	0.0		9.85028	233	1.6		3		S	0	1		
1/22/2007	RCH	2	3	9.89528	4	SW	2	0.00000	0	0.0		9.89528	235	5.2		2	1	S	0	1		
1/22/2007	RCH	2	6	10.00194	4	SW	2	0.00000	0	0.0		10.00194	236	1.8		5		S	9	0	UNIDENTIFIED DELPHINIDS	
1/22/2007	RCH	2	3	10.15472	4	SW	2	0.00000	0	0.0		10.15472	237	2.0		2		S	0	2		
1/22/2007	RCH	2	3	10.28694	4	SW	2	10.28694	253	1.3		10.39028	241	1.3		4		S	0	2		
1/22/2007	RCH	2	3	10.46083	4	SW	2	10.46083	247	1.5		10.49750	238	1.5		3		S	0	3		
1/22/2007	RCH	2	3	10.54528	4	SW	2	0.00000	0	0.0		10.54528	232	2.0		1		S	0	1		
1/22/2007	RCH	2	5	10.58333	4	SW	2	0.00000	0	0.0		0.00000	0	0.0		0						
1/22/2007	KWS	2	1	13.50028	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0						LR 314 DEG BINS 11548
1/22/2007	KWS	2	4	13.53333	2	W	2	0.00000	0	0.0		0.00000	0	0.0		0						2 FIGHTER JETS SBOUND
1/22/2007	KWS	2	3	13.56250	2	W	2	13.56250	263	1.6		13.68000	245	1.9		3		S	0	3		
1/22/2007	KWS	2	3	13.58111	2	W	2	13.58111	269	1.5		13.75583	241	2.0		1		S	0	3		
1/22/2007	KWS	2	3	13.61389	2	W	2	0.00000	0	0.0		13.61389	272	2.0		1		S	0	1		
1/22/2007	KWS	2	3	13.71278	2	W	2	0.00000	0	0.0		13.71278	240	30.0		1		S	0	1		RIGHT IN FRONT OF THE SHED IN THE COVE!

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N TIME	N- ANGLE	N- RET	E	STIME	S- ANGLE	S- RET	E POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/22/2007	KWS	2	3	13.76944	2	W	2	13.76944	254	1.9		13.86833	239	1.9	3		S	0	2	
1/22/2007	KWS	2	3	13.78500	2	W	2	13.78500	253	1.0		13.83444	246	1.0	1		S	0	3	
1/22/2007	KWS	2	3	13.84417	2	W	2	13.84417	248	2.8		13.93361	228	2.8	1		S	0	3	
1/22/2007	KWS	2	3	13.86111	2	W	2	13.86111	253	2.5		13.94583	235	2.5	1		S	0	5	
1/22/2007	KWS	2	3	13.96417	2	W	2	0.00000	0	0.0		13.96417	243	1.0	1		S	0	0	
1/22/2007	KWS	2	3	13.96944	2	W	2	0.00000	0	0.0		13.96944	243	1.3	1		S	0	0	
1/22/2007	KWS	2	3	13.98556	2	W	2	0.00000	0	0.0		13.98556	212	2.5	1		S	0	0	WOULD HAVE BEEN AT 3.5 ON THE LINE
1/22/2007	KWS	2	3	14.01722	2	W	2	14.01722	251	1.6		14.14306	235	1.6	1		S	0	0	
1/22/2007	KWS	2	3	14.01806	2	W	2	14.01806	247	1.6		14.10778	235	1.6	1		S	0	0	
1/22/2007	KWS	2	3	14.09167	2	W	2	0.00000	0	0.0		14.09167	255	1.5	E	1	S	0	0	
1/22/2007	KWS	2	3	14.20083	2	W	2	14.20083	247	1.5		14.25556	242	1.6	1		S	0	0	
1/22/2007	KWS	2	3	14.35083	2	W	2	0.00000	0	0.0		14.35083	235	0.8	1		S	0	0	
1/22/2007	KWS	2	3	14.41806	2	W	2	0.00000	0	0.0		14.41806	232	1.8	3		S	0	0	
1/22/2007	KWS	2	6	14.53333	2	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	N.BOUND UD LARGE GROUP AT 0.5 RETS
1/22/2007	KWS	2	3	14.67778	2	W	2	14.67778	267	1.3		14.88222	240	1.5	6		S	0	15	
1/22/2007	KWS	2	3	15.02000	2	W	2	0.00000	0	0.0		15.02000	235	1.0	1		S	0	0	
1/22/2007	KWS	2	3	15.12056	2	W	2	15.12056	259	2.0		15.22778	238	2.1	1		S	0	3	
1/22/2007	KWS	2	3	15.19500	2	W	2	15.19500	255	1.9		15.31056	237	1.9	2		S	0	3	
1/22/2007	KWS	2	3	15.28611	2	W	2	15.28611	275	2.6		15.46694	246	3.3	1		S	0	5	
1/22/2007	KWS	2	3	15.38833	2	W	2	15.38833	268	1.7		15.51694	244	2.0	3		S	0	5	
1/22/2007	KWS	2	6	15.40000	2	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	LARGE GROUPS OF N.BOUND ZC
1/22/2007	KWS	2	3	15.57194	2	W	2	15.57194	271	1.6		15.73889	242	2.2	1		S	0	3	
1/22/2007	KWS	2	3	15.59028	2	W	2	0.00000	0	0.0		15.59028	236	1.5	1		S	0	1	BEHIND GROUP OF 3
1/22/2007	KWS	2	3	15.76694	2	W	2	15.76694	265	2.1		15.86361	245	2.3	1		S	0	4	
1/22/2007	KWS	2	3	15.84722	2	W	2	15.84722	270	1.1		16.03000	245	1.5	3		S	0	3	
1/22/2007	KWS	2	6	15.95000	2	W	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	GROUP OF ZC S.BOUND
1/22/2007	KWS	2	2	16.16667	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/22/2007	KWS	2	3	16.20750	2	NW	2	0.00000	0	0.0		16.20750	246	1.5	2		S	0	0	
1/22/2007	KWS	2	3	16.24111	2	NW	2	0.00000	0	0.0		16.27361	243	1.9	1		S	0	0	
1/22/2007	KWS	2	3	16.24722	2	NW	2	0.00000	0	0.0		16.24722	230	1.5	3		S	0	0	
1/22/2007	KWS	2	3	16.30083	2	NW	2	16.30083	260	3.5		16.38750	238	3.5	1		S	0	0	
1/22/2007	KWS	2	3	16.30944	2	NW	2	0.00000	0	0.0		16.30944	238	1.9	1		S	0	0	
1/22/2007	KWS	2	3	16.33528	2	NW	2	0.00000	0	0.0		16.33528	243	1.3	3		S	0	0	
1/22/2007	KWS	2	3	16.34444	2	NW	2	16.34444	258	1.9		16.45000	238	1.9	1		S	0	0	
1/22/2007	KWS	2	3	16.38889	2	NW	2	16.38889	256	0.8		16.51944	245	0.8	4		S	0	0	2-3 GROUPS ABOUT 2-3 DEG APART BUT CALLED ALL ONE GROUP
1/22/2007	KWS	2	5	16.58333	2	NW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/23/2007	KWS	2	1	7.41667	4	SW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	BINOS 11548 LR 314
1/23/2007	KWS	2	3	7.44139	4	SW	2	0.00000	0	0.0		7.44139	233	0.5	1		S	0	0	BACKS AND FLUKES BUT

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/23/2007	KWS	2	3	7.45028	4	SW	2	0.00000	0.0		7.45028	230	1.3		2		S	0	0	BLOWS NOT VISIBLE
1/23/2007	KWS	2	3	7.71056	4	SW	2	0.00000	0.0		7.71056	241	1.4		3		S	0	0	
1/23/2007	KWS	2	3	7.85694	4	SW	2	0.00000	0.0		7.85694	245	1.5	E	1		S	0	0	FLUKE
1/23/2007	KWS	2	3	7.96556	4	SW	2	0.00000	0.0		7.96556	241	1.2		8		S	0	0	MORE?
1/23/2007	KWS	2	2	7.96667	3	SW	2	0.00000	0.0		0.00000	0	0.0		0		S	0	0	BLOWS VISIBLE NOW
1/23/2007	KWS	2	3	8.17028	3	SW	2	8.17028	1.5		8.25056	241	1.5		2		S	0	0	WHALES ABOUT 3 DEG APART BUT SURFACING TOGETHER
1/23/2007	KWS	2	3	8.21306	3	SW	2	0.00000	0.0		8.21306	250	1.4		1		S	0	0	ALL FOLLOWING EACH OTHER
1/23/2007	KWS	2	3	8.31389	3	SW	2	8.31389	1.5		8.37389	234	1.5		1		S	0	0	
1/23/2007	KWS	2	3	8.34583	3	SW	2	8.34583	1.5		8.40417	237	1.5		2		S	0	0	
1/23/2007	KWS	2	3	8.35556	3	SW	2	8.35556	1.2		8.44306	240	1.2		3		S	0	0	
1/23/2007	KWS	2	4	8.38333	3	SW	2	0.00000	0.0		0.00000	0	0.0		0		S	0	0	SUN OVER MOUNTAINS
1/23/2007	KWS	2	3	8.42222	3	SW	2	0.00000	0.0		8.42222	241	2.5		1		S	0	0	
1/23/2007	KWS	2	3	8.45278	3	SW	2	8.45278	1.5		8.54056	233	1.5		1		S	0	0	
1/23/2007	KWS	2	8	8.50417	3	SW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	CONTAINER SHIP BOW AT 241
1/23/2007	KWS	2	3	8.61250	3	SW	2	0.00000	0.0		8.61250	237	1.5	E	2		S	0	0	
1/23/2007	KWS	2	3	8.62833	3	SW	2	8.62833	1.3		8.71806	240	1.2		2		S	0	0	
1/23/2007	KWS	2	2	8.71667	3	W	2	0.00000	0.0		0.00000	0	0.0		0		S	0	0	
1/23/2007	KWS	2	3	8.78083	3	W	2	8.78083	1.2	E	8.89806	240	1.2		2		S	0	0	
1/23/2007	KWS	2	3	8.95028	3	W	2	0.00000	0.0		8.95028	245	1.7		2		S	0	0	
1/23/2007	KWS	2	3	9.05333	3	W	2	0.00000	0.0		9.05333	242	1.4		1		S	0	0	
1/23/2007	KWS	2	3	9.12056	3	W	2	0.00000	0.0		9.12056	243	1.5	E	1		S	0	0	
1/23/2007	KWS	2	3	9.18944	3	W	2	9.18944	268		9.25639	235	6.0		2		S	0	0	
1/23/2007	KWS	2	3	9.36694	3	W	2	9.36694	255		9.45028	240	1.5		3		S	0	0	
1/23/2007	KWS	2	3	9.48417	3	W	2	0.00000	0.0		9.48417	245	3.1		1		S	0	0	
1/23/2007	KWS	2	8	9.50556	3	W	2	0.00000	0.0		0.00000	0	0.0		0			0	0	N.BOUND CONTAINER SHIP AT 241
1/23/2007	KWS	2	2	9.53333	2	W	2	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/23/2007	KWS	2	3	9.78333	2	W	2	9.78333	276		9.95278	244	2.3		6		S	0	5	
1/23/2007	KWS	2	3	10.25056	2	W	2	10.25056	251		10.30861	243	1.2	E	1		S	0	0	
1/23/2007	KWS	2	3	10.32861	2	W	2	0.00000	0.0		10.32861	236	12.0		1		S	0	0	
1/23/2007	KWS	2	3	10.40583	2	W	2	0.00000	0.0		10.40583	246	2.0		1		S	0	0	
1/23/2007	KWS	2	3	10.46833	2	W	2	0.00000	0.0		10.46833	236	1.2		1		S	0	0	
1/23/2007	KWS	2	5	10.50000	2	W	2	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/23/2007	RCH	2	1	10.50028	2	WSW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/23/2007	RCH	2	3	10.57667	2	WSW	2	10.57667	251		10.68333	242	1.3		5		S	0	2	
1/23/2007	RCH	2	3	10.62778	2	WSW	2	0.00000	0.0		10.62778	231	3.1		2		S	0	1	
1/23/2007	RCH	2	3	10.65222	2	WSW	2	0.00000	0.0		10.65222	238	1.9	E	1		S	0	1	
1/23/2007	RCH	2	3	10.68500	2	WSW	2	0.00000	0.0		10.68500	242	4.7		1		S	0	1	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS	
1/23/2007	RCH	2	3	10.88333	2	WSW	2	0.00000	0	0.0		10.88333	244	1.4		2		S	0	2		
1/23/2007	RCH	2	3	10.90028	2	WSW	2	0.00000	0	0.0		10.90028	233	4.3	E	1		S	0	2		
1/23/2007	RCH	2	3	11.11306	2	WSW	2	0.00000	0	0.0		11.11306	242	0.3		1		S	0	1	SEEN WHILE SCANNING WITH BINOS	
1/23/2007	RCH	2	3	11.21361	2	WSW	2	0.00000	0	0.0		11.21361	245	1.7		3		S	0	2		
1/23/2007	RCH	2	3	11.26583	2	WSW	2	0.00000	0	0.0		11.26583	249	1.7		5		S	0	4		
1/23/2007	RCH	2	3	11.51528	2	WSW	2	0.00000	0	0.0		11.51528	249	2.7		1		S	0	1		
1/23/2007	RCH	2	3	11.62222	2	WSW	2	0.00000	0	0.0		11.62222	238	4.8		3	1	S	0	1		
1/23/2007	RCH	2	3	11.63972	2	WSW	2	0.00000	0	0.0		11.63972	232	9.5		1		S	0	1		
1/23/2007	RCH	2	3	12.03917	2	WSW	2	0.00000	0	0.0		12.03917	244	1.3		2		S	0	3		
1/23/2007	RCH	2	3	12.07333	2	WSW	2	0.00000	0	0.0		12.07333	239	2.5		1		S	0	1		
1/23/2007	RCH	2	3	12.08861	2	WSW	2	0.00000	0	0.0		12.08861	241	1.9		1		S	0	3		
1/23/2007	RCH	2	3	12.14250	2	WSW	2	0.00000	0	0.0		12.14250	254	6.4		2		S	0	1		
1/23/2007	RCH	2	3	12.26111	2	WSW	2	0.00000	0	0.0		12.26111	234	1.4		2		S	0	3		
1/23/2007	RCH	2	3	12.29306	2	WSW	2	12.29306	254	2.2		12.42194	233	2.2		2		S	0	6		
1/23/2007	RCH	2	3	12.31250	2	WSW	2	0.00000	0	0.0		12.31250	252	1.8		1		S	0	1		
1/23/2007	RCH	2	3	12.40528	2	WSW	2	0.00000	0	0.0		12.40528	235	0.8		2		S	0	2		
1/23/2007	RCH	2	3	12.48389	2	WSW	2	0.00000	0	0.0		12.48389	237	1.5		2		S	0	4		
1/23/2007	RCH	2	3	12.75917	2	WSW	2	0.00000	0	0.0		12.75917	249	1.2		1		S	0	3		
1/23/2007	RCH	2	3	12.97111	2	WSW	2	0.00000	0	0.0		12.97111	238	2.9		2		S	0	1		
1/23/2007	RCH	2	3	13.00000	2	WSW	2	0.00000	0	0.0		13.00000	246	1.2		5		S	0	5		
1/23/2007	RCH	2	3	13.13750	2	WSW	2	0.00000	0	0.0		13.13750	246	1.8		1		S	0	2		
1/23/2007	RCH	2	3	13.19000	2	WSW	2	13.19000	251	1.2		13.40917	232	1.2		6		S	0	5		
1/23/2007	RCH	2	3	13.39139	2	WSW	2	0.00000	0	0.0		13.39139	244	1.4		1		S	0	2		
1/23/2007	RCH	2	3	13.54083	2	WSW	2	0.00000	0	0.0		13.54083	235	1.3		2		S	0	3		
1/23/2007	RCH	2	5	13.58333	2	WSW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		
1/24/2007	KWS	2	1	10.50028	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		BINOS 11548 LR 314
1/24/2007	KWS	2	3	10.52861	2	SW	2	0.00000	0	0.0		10.52861	272	1.2		2		S	0	0		
1/24/2007	KWS	2	6	10.58222	2	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		11 RETS S:BOUND ZC
1/24/2007	KWS	2	3	10.71111	2	SW	2	10.71111	265	1.4		10.80389	246	1.4		1		S	0	0		
1/24/2007	KWS	2	3	10.73389	2	SW	2	10.73389	253	1.4		10.78611	243	1.4		2		S	1	0		
1/24/2007	KWS	2	3	10.84250	2	SW	2	0.00000	0	0.0		10.84250	247	1.5		1		S	0	0		
1/24/2007	KWS	2	3	10.91583	2	SW	2	10.91583	250	1.5		10.96250	241	1.5	E	1		S	0	0		
1/24/2007	KWS	2	3	11.00556	2	SW	2	0.00000	0	0.0		11.00556	240	1.5		2		S	0	0		
1/24/2007	KWS	2	2	11.16667	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		HAZY
1/24/2007	KWS	2	3	11.17000	2	SW	2	0.00000	0	0.0		11.17000	243	1.3	E	1		S	0	0		FLUKE
1/24/2007	KWS	2	3	11.31250	3	SW	2	0.00000	0	0.0		11.31250	239	2.2		1		S	0	0		
1/24/2007	KWS	2	4	11.40000	3	SW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0		PUT ON SUNGLASSES HELPS ALOT
1/24/2007	KWS	2	3	11.51556	3	SW	2	0.00000	0	0.0		11.51556	245	3.5	E	1		S	0	0		STEALTH MODE - CALF?
1/24/2007	KWS	2	3	11.68056	3	SW	2	0.00000	0	0.0		11.68056	243	2.1		1		S	0	0		
1/24/2007	KWS	2	3	11.70694	3	SW	2	0.00000	0	0.0		11.70694	245	1.5	E	1		S	0	0		FLUKE
1/24/2007	KWS	2	3	11.75861	3	SW	2	11.75861	257	1.9	E	11.87778	230	1.9		1		S	0	0		

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/24/2007	KWS	2	3	11.81417	3	SW	2	11.81417	1.0	E	11.89472	242	1.2		3		S	0	0	
1/24/2007	KWS	2	3	11.94583	3	SW	2	11.94583	2.0		12.09722	239	2.2	1			S	0	0	
1/24/2007	KWS	2	3	11.97000	3	SW	2	0.00000	0.0		11.97000	236	1.8	1			S	0	0	
1/24/2007	KWS	2	3	11.99278	3	SW	2	11.99278	1.1		12.13083	238	1.2	2			S	0	0	
1/24/2007	KWS	2	3	12.01833	3	SW	2	0.00000	0.0		12.01833	233	0.9	E	4		S	0	0	
1/24/2007	KWS	2	3	12.16833	3	SW	2	0.00000	0.0		12.16833	244	1.0	E	1		S	0	0	
1/24/2007	KWS	2	3	12.18972	3	SW	2	0.00000	0.0		12.18972	233	2.1		1		S	0	0	
1/24/2007	KWS	2	3	12.20583	3	SW	2	0.00000	0.0		12.20583	237	1.6	2			S	0	0	
1/24/2007	KWS	2	3	12.22889	3	SW	2	0.00000	0.0		12.22889	239	0.8	2			S	0	0	
1/24/2007	KWS	2	6	12.25861	3	SW	2	0.00000	0.0		0.00000	0	0.0	0						1000+ GRAMPIUS SBOUND AT 241 1.5RETS BREACHING SINCE 266.1204
1/24/2007	KWS	2	3	12.36528	3	SW	2	0.00000	0.0		12.36528	237	1.1	2			S	0	0	
1/24/2007	KWS	2	3	12.46667	3	SW	2	0.00000	0.0		12.46667	233	0.8	E	1		S	0	0	
1/24/2007	KWS	2	4	12.56667	3	SW	2	0.00000	0.0		0.00000	0	0.0	0						GRAMPIUS AT 220 HEADED OFFSHORE CHASING GRAY WHALES
1/24/2007	KWS	2	3	12.64750	3	SW	2	0.00000	0.0		12.64750	232	0.8	1			S	0	0	
1/24/2007	KWS	2	3	12.80306	3	SW	2	12.80306	1.7		12.93889	242	2.6	2			S	1	6	BREACHED 3X ON THE LINE
1/24/2007	KWS	2	3	12.92222	3	SW	2	12.92222	4.2		13.03889	222	4.5	2		1	S	0	0	SMALL BODY DARK ONE VERY WHITE
1/24/2007	KWS	2	3	12.97778	3	SW	2	12.97778	7.0		13.05583	240	15.0	2			S	0	0	WHALE BODY AND FLUKES
1/24/2007	KWS	2	3	12.99667	3	SW	2	12.99667	3.5		13.03056	247	3.5	2			S	0	0	
1/24/2007	KWS	2	3	13.30139	3	SW	2	0.00000	0.0		13.30139	246	3.4	1			S	0	0	
1/24/2007	KWS	2	5	13.50000	3	SW	2	0.00000	0.0		0.00000	0	0.0	0						
1/24/2007	RCH	2	1	13.50028	2	WSW	2	0.00000	0.0		0.00000	0	0.0	0						"B11546_LR314"
1/24/2007	RCH	2	3	13.56778	2	WSW	2	0.00000	0.0		13.56778	259	4.3	E	1		S	0	1	
1/24/2007	RCH	2	3	13.62833	2	WSW	2	0.00000	0.0		13.57833	252	4.8	1			S	0	1	
1/24/2007	RCH	2	3	13.65028	2	WSW	2	0.00000	0.0		13.65028	234	2.9	1			S	0	3	
1/24/2007	RCH	2	3	13.69472	2	WSW	2	13.69472	1.3		13.81167	238	1.3	1			S	0	2	
1/24/2007	RCH	2	3	13.75972	2	WSW	2	0.00000	0.0		13.75972	230	3.8	2			S	0	1	
1/24/2007	RCH	2	3	13.77917	2	WSW	2	0.00000	0.0		13.77917	237	1.4	2			S	0	1	
1/24/2007	RCH	2	3	13.84583	2	WSW	2	0.00000	0.0		13.84583	238	1.4	1			S	0	1	
1/24/2007	RCH	2	3	13.86056	2	WSW	2	0.00000	0.0		13.86056	248	4.4	2			S	0	4	
1/24/2007	RCH	2	3	13.92333	2	WSW	2	0.00000	0.0		13.92333	239	1.4	2			S	0	3	
1/24/2007	RCH	2	3	14.00000	2	WSW	2	0.00000	0.0		14.00000	246	1.4	1			S	0	2	
1/24/2007	RCH	2	3	14.20000	2	WSW	2	0.00000	0.0		14.20000	241	1.1	1			S	0	3	
1/24/2007	RCH	2	3	14.38972	2	WSW	2	0.00000	0.0		14.38972	229	3.6	1			S	0	3	
1/24/2007	RCH	2	3	14.42444	2	WSW	2	0.00000	0.0		14.42444	230	5.5	1			S	0	1	
1/24/2007	RCH	2	3	14.85139	2	WSW	2	0.00000	0.0		14.85139	230	2.5	1			S	0	3	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/24/2007	RCH	2	2	14.86667	3	WSW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	FOG MOVING IN FROM SW
1/24/2007	RCH	2	3	14.86722	3	WSW	2	14.86722	260		14.86722	243	1.4		2		S	1	2	BEHAVIOR 2 ALSO
1/24/2007	RCH	2	3	14.87944	3	WSW	2	14.87944	251		14.87944	242	0.8		1		S	0	3	
1/24/2007	RCH	2	3	14.96389	3	WSW	2	14.96389	258		15.08889	240	1.5		2		S	0	2	
1/24/2007	RCH	2	3	15.05472	3	WSW	2	0.00000	0		15.05472	241	0.9		1		S	0	4	
1/24/2007	RCH	2	3	15.11889	3	WSW	2	0.00000	0		15.11889	244	1.7		1		S	0	3	
1/24/2007	RCH	2	3	15.25083	3	WSW	2	0.00000	0		15.25083	240	2.6		1		S	0	5	
1/24/2007	RCH	2	3	15.38056	3	WSW	2	0.00000	0		15.38056	235	1.3		2		S	0	3	
1/24/2007	RCH	2	3	15.87694	3	WSW	2	0.00000	0		15.87694	233	1.4		1		S	0	1	
1/24/2007	RCH	2	3	16.01694	3	WSW	2	0.00000	0		16.01694	240	2.3		3		S	0	3	
1/24/2007	RCH	2	3	16.05306	3	WSW	2	0.00000	0		16.05306	233	0.8		1		S	0	1	
1/24/2007	RCH	2	3	16.11583	3	WSW	2	0.00000	0		16.11583	248	1.3		7		S	0	3	
1/24/2007	RCH	2	3	16.13639	3	WSW	2	0.00000	0		16.13639	249	1.3		1		S	0	2	
1/24/2007	RCH	2	3	16.15750	3	WSW	2	0.00000	0		16.15750	245	1.1		1		S	0	1	
1/24/2007	RCH	2	3	16.37278	3	WSW	2	16.37278	263		16.48556	230	4.3		1		S	0	3	
1/24/2007	RCH	2	5	16.58333	3	WSW	2	0.00000	0		0.00000	0	0.0		0			0	0	
1/25/2007	RCH	2	1	7.41667	3	WSW	2	0.00000	0		0.00000	0	0.0		0			0	0	"B11546LR314"
1/25/2007	RCH	2	3	7.59056	3	WSW	2	0.00000	0		7.59056	233	1.3		1		S	0	3	
1/25/2007	RCH	2	3	8.09722	3	WSW	2	0.00000	0		8.09722	242	1.2		5		S	0	1	
1/25/2007	RCH	2	3	8.14417	3	WSW	2	0.00000	0		8.14417	237	1.0		4		S	0	2	
1/25/2007	RCH	2	3	8.16694	3	WSW	2	0.00000	0		8.16694	237	1.0		2		S	0	2	
1/25/2007	RCH	2	3	8.21444	3	WSW	2	0.00000	0		8.21444	233	2.2		1		S	0	1	
1/25/2007	RCH	2	3	8.34139	3	WSW	2	0.00000	0		8.34139	248	3.4		2		S	0	3	
1/25/2007	RCH	2	4	8.41667	3	WSW	2	0.00000	0		0.00000	0	0.0		0			0	0	FOG ABOVE 1 RET.
1/25/2007	RCH	2	3	8.49667	3	WSW	2	0.00000	0		8.49667	244	1.2		3		S	0	2	
1/25/2007	RCH	2	3	9.20917	3	WSW	2	0.00000	0		9.20917	242	1.5		3		S	0	2	
1/25/2007	RCH	2	3	9.50083	3	WSW	2	9.50083	249		9.55083	241	1.3		3		S	0	1	
1/25/2007	RCH	2	3	9.52028	3	WSW	2	0.00000	0		9.52028	246	1.5		1		S	0	1	
1/25/2007	RCH	2	3	9.75389	3	WSW	2	0.00000	0		9.75389	235	1.1		2		S	0	1	
1/25/2007	RCH	2	3	10.31028	3	WSW	2	10.31028	264		10.43389	243	1.3		3		S	0	3	
1/25/2007	RCH	2	5	10.50000	3	WSW	2	0.00000	0		0.00000	0	0.0		0			0	0	HAZE ON HORIZON
1/25/2007	KWS	2	1	10.50028	3	SW	2	0.00000	0		0.00000	0	0.0		0			0	0	BINOS 11548 LR 313.5
1/25/2007	KWS	2	3	10.51250	3	SW	2	0.00000	0		10.51250	241	1.5	E	2		S	0	3	
1/25/2007	KWS	2	3	10.63472	3	SW	2	10.63472	282		10.93139	242	1.2		1		S	0	5	
1/25/2007	KWS	2	6	10.65000	3	SW	2	0.00000	0		0.00000	0	0.0		0			0	0	ONE PV IN THE COVE
1/25/2007	KWS	2	3	10.83333	3	SW	2	10.83333	271		10.97917	236	2.2		1		S	0	5	
1/25/2007	KWS	2	4	10.98333	3	SW	2	0.00000	0		0.00000	0	0.0		0			0	0	BEAUF 3 AT 1 RET
1/25/2007	KWS	2	3	10.99472	3	SW	2	10.99472	284		11.09167	237	9.0	E	1		S	0	5	
1/25/2007	KWS	2	2	11.15000	3	SW	3	0.00000	0		0.00000	0	0.0		0			0	0	HORIZON STILL IN HAZE
1/25/2007	KWS	2	3	11.20111	3	SW	3	11.20111	272		0.00000	223	12.5	E	1		S	0	3	CALF?
1/25/2007	KWS	2	3	11.37833	3	SW	3	11.37833	257		11.49500	233	1.5	E	2		S	0	3	

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/25/2007	KWS	2	3	11.51944	3	SW	3	11.51944	1.2	E	11.57250	239	1.3	E	2		S	0	3	
1/25/2007	KWS	2	3	11.60333	3	SW	3	0.00000	0.0		11.60333	240	0.8	E	1		S	0	2	
1/25/2007	KWS	2	6	11.68333	3	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	OTTER MOM AND PUP IN THE COVE
1/25/2007	KWS	2	3	11.72583	3	SW	3	11.72583	1.5	E	11.85000	244	2.0	E	2		S	0	3	
1/25/2007	KWS	2	3	11.80306	3	SW	3	11.80306	1.5	E	11.82917	236	1.5	E	1		S	0	2	
1/25/2007	KWS	2	3	12.31250	3	SW	3	12.31250	1.0	E	12.60278	243	2.0	E	7		S	0	10	
1/25/2007	KWS	2	5	12.65000	3	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/25/2007	KWS	2	1	12.70694	2	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/25/2007	KWS	2	2	12.95000	3	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	MORE HAZE AND SPRAY
1/25/2007	KWS	2	3	13.05278	3	SW	3	13.05278	0.5	E	13.32639	235	1.0	E	1		S	1	5	3X BREACHES ON 262 SAW IN THE BINOS
1/25/2007	KWS	2	3	13.11972	3	SW	3	13.11972	2.0	E	13.26389	242	3.5	E	2		S	0	5	
1/25/2007	KWS	2	5	13.50000	3	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	KWS	2	1	7.41667	4	S	2	0.00000	0.0		0.00000	0	0.0		0			0	0	BINOS 11548 LR 314
1/26/2007	KWS	2	3	7.41694	4	S	2	0.00000	0.0		7.41694	237	1.5	E	1		S	0	1	
1/26/2007	KWS	2	3	7.70583	4	S	2	7.70583	2.5	E	7.76389	241	2.5	E	1		S	0	4	
1/26/2007	KWS	2	3	7.88333	4	S	2	7.88333	1.8		8.01389	243	2.3		3		S	0	5	ONE LAGGING BEHIND PAIR
1/26/2007	KWS	2	3	7.90306	4	S	2	0.00000	0.0		7.90306	243	1.5		1		S	0	2	
1/26/2007	KWS	2	3	7.94222	4	S	2	0.00000	0.0		7.94222	240	3.5		1		S	0	2	
1/26/2007	KWS	2	2	8.08333	3	SW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	KWS	2	3	8.18111	3	SW	2	8.18111	1.5		8.23944	244	1.5		1		S	1	5	
1/26/2007	KWS	2	3	8.18111	3	SW	2	8.18111	1.5		8.23944	248	1.5		1		S	0	5	
1/26/2007	KWS	2	3	8.20389	3	SW	2	8.20389	1.5		8.31000	242	1.6		5		S	0	6	
1/26/2007	KWS	2	3	8.21528	3	SW	2	0.00000	0.0		8.21528	240	3.0	E	1		S	0	1	FLUKE
1/26/2007	KWS	2	3	8.32583	3	SW	2	0.00000	0.0		8.32583	253	1.3	E	1		S	0	1	FLUKE
1/26/2007	KWS	2	4	8.36667	3	SW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	SUN OVER MOUNTAINS
1/26/2007	KWS	2	3	8.43639	3	SW	2	8.43639	5.0	E	8.46556	246	6.2	E	1		S	0	3	
1/26/2007	KWS	2	2	8.50000	2	SW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	KWS	2	3	8.74556	2	SW	2	8.74556	1.2		8.91250	239	1.3		1		S	0	4	
1/26/2007	KWS	2	3	8.84333	2	SW	2	0.00000	0.0		8.84333	230	3.5		2		S	0	2	STEALTHY
1/26/2007	KWS	2	3	9.08194	2	SW	2	9.08194	1.4		9.28917	225	1.4		2		S	0	2	
1/26/2007	KWS	2	3	9.16972	2	SW	2	0.00000	0.0		9.16972	264	6.0	E	1		S	0	1	CALF?
1/26/2007	KWS	2	3	9.20611	2	SW	2	0.00000	0.0		9.20611	262	1.5		1		S	0	1	
1/26/2007	KWS	2	3	9.32528	2	SW	2	9.32528	249	1.5	9.35056	243	1.5		1		S	0	2	
1/26/2007	KWS	2	3	9.59528	2	SW	2	9.59528	276	3.1	9.90611	230	3.9		2		S	0	4	
1/26/2007	KWS	2	3	9.95917	2	SW	2	9.95917	258	2.2	10.00917	245	2.2		1		S	0	4	
1/26/2007	KWS	2	3	10.06167	2	SW	2	10.06167	1.2		10.27833	237	1.5		2		S	0	5	
1/26/2007	KWS	2	3	10.22028	2	SW	2	10.22028	278	1.0	10.46611	243	1.5		3		S	0	4	
1/26/2007	KWS	2	2	10.31667	2	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	KWS	2	5	10.50000	2	SW	3	0.00000	0.0		0.00000	0	0.0		0			0	0	
1/26/2007	RCH	2	1	10.50028	3	SSW	2	0.00000	0.0		0.00000	0	0.0		0			0	0	"B11546,LR313"

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	S-TIME	S-ANGLE	S-RET	E-POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/26/2007	RCH	2	3	10.71000	3	SSW	2	0.00000	0	0.0		10.71000	232	2.1	1		S	0	1	
1/26/2007	RCH	2	3	10.72750	3	SSW	2	0.00000	0	0.0		10.72750	227	1.3	1		S	0	1	
1/26/2007	RCH	2	3	10.98944	3	SSW	2	0.00000	0	0.0		10.98944	245	1.6	1		S	0	2	
1/26/2007	RCH	2	3	11.03250	3	SSW	2	0.00000	0	0.0		11.03250	233	1.7	1		S	0	1	
1/26/2007	RCH	2	3	11.26861	3	SSW	2	0.00000	0	0.0		11.26861	230	2.3	1		S	0	1	
1/26/2007	RCH	2	3	11.35417	3	SSW	2	0.00000	0	0.0		11.35417	243	1.6	1		S	0	1	
1/26/2007	RCH	2	3	11.44528	3	SSW	2	11.44528	257	2.1		11.50306	243	2.2	6		S	0	4	
1/26/2007	RCH	2	3	11.51917	3	SSW	2	11.51917	257	2.0		11.61889	232	1.8	5		S	0	2	
1/26/2007	RCH	2	3	11.56722	3	SSW	2	11.56722	254	1.3		11.69389	240	1.5	1		S	0	2	
1/26/2007	RCH	2	3	11.81389	3	SSW	2	0.00000	0	0.0		11.81389	229	1.3	2		S	0	2	
1/26/2007	RCH	2	2	12.03333	4	SE	3	0.00000	0	0.0		0.00000	0	0.0	0		S	0	0	
1/26/2007	RCH	2	3	12.36778	4	SE	3	0.00000	0	0.0		12.36778	242	2.3	E 1		S	0	1	
1/26/2007	RCH	2	2	12.66667	5	SE	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	RAIN & FOG
1/26/2007	RCH	2	2	12.80000	6	SE	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	RAIN
1/26/2007	RCH	2	5	13.16667	6	SE	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/27/2007	RCH	2	1	7.66667	2	SW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/27/2007	RCH	2	3	7.68389	2	SW	2	0.00000	0	0.0		7.68389	228	2.2	3		S	0	1	
1/27/2007	RCH	2	3	7.97194	2	SW	2	0.00000	0	0.0		7.97194	239	1.4	1		S	0	1	
1/27/2007	RCH	2	3	8.23333	2	SW	2	0.00000	0	0.0		8.23333	240	1.1	3		S	0	3	
1/27/2007	RCH	2	3	8.25222	2	SW	2	0.00000	0	0.0		8.25222	241	1.1	1		S	0	1	
1/27/2007	RCH	2	3	8.55667	2	SW	2	0.00000	0	0.0		8.55667	248	1.2	1		S	0	3	
1/27/2007	RCH	2	3	8.57778	2	SW	2	8.57778	251	1.2		8.67889	237	1.2	1		S	0	2	
1/27/2007	RCH	2	3	8.69556	2	SW	2	8.69556	254	0.7		8.86694	240	0.8	2		S	0	1	
1/27/2007	RCH	2	3	8.72417	2	SW	2	0.00000	0	0.0		8.72417	250	1.3	1		S	0	1	
1/27/2007	RCH	2	3	8.94417	2	SW	2	0.00000	0	0.0		8.94417	247	1.4	2		S	0	1	
1/27/2007	RCH	2	3	9.15917	2	SW	2	0.00000	0	0.0		9.15917	247	1.5	4		S	1	4	
1/27/2007	RCH	2	2	9.36667	3	SSW	3	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/27/2007	RCH	2	3	9.38500	3	SSW	3	0.00000	0	0.0		9.38500	240	1.3	1		S	0	2	
1/27/2007	RCH	2	3	9.40222	3	SSW	3	0.00000	0	0.0		9.40222	235	1.3	1		S	0	1	
1/27/2007	RCH	2	3	9.64528	3	SSW	3	0.00000	0	0.0		9.64528	241	1.2	5		S	0	4	
1/27/2007	RCH	2	3	9.70000	3	SSW	3	0.00000	0	0.0		9.70000	238	1.3	5		S	0	4	
1/27/2007	RCH	2	3	9.72250	3	SSW	3	0.00000	0	0.0		9.72250	231	1.0	1		S	0	1	
1/27/2007	RCH	2	3	9.84722	3	SSW	3	0.00000	0	0.0		9.84722	242	1.2	1		S	0	1	
1/27/2007	RCH	2	3	9.98917	3	SSW	3	0.00000	0	0.0		9.98917	235	0.6	1		S	1	1	
1/27/2007	RCH	2	2	10.00000	3	SSW	4	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/27/2007	RCH	2	3	10.10028	3	SSW	4	0.00000	0	0.0		10.10028	236	1.4	3		S	0	1	
1/27/2007	RCH	2	3	10.18694	3	SSW	4	0.00000	0	0.0		10.18694	240	1.2	1		S	0	3	
1/27/2007	RCH	2	3	10.20028	3	SSW	4	0.00000	0	0.0		10.20028	240	1.2	1		S	0	1	
1/27/2007	RCH	2	2	10.25000	3	SSW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/27/2007	RCH	2	3	10.29472	3	SSW	5	0.00000	0	0.0		10.29472	247	1.2	2		S	0	3	
1/27/2007	RCH	2	3	10.33083	3	SSW	5	0.00000	0	0.0		10.33083	247	1.3	4		S	0	3	
1/27/2007	RCH	2	5	10.58333	3	SSW	5	0.00000	0	0.0		0.00000	0	0.0	0			0	0	
1/28/2007	RCH	2	1	7.41667	4	SSW	2	0.00000	0	0.0		0.00000	0	0.0	0			0	0	"B11546,"

Appendix 2.--cont.

DATE	OBS	X	EVENT	ETIME	V	WIND DIR	WIND FORCE	N-TIME	N-ANGLE	N-RET	E	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUE	COMMENTS
1/28/2007	RCH	2	1	7.41667	4	SSW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	RCH	2	3	7.66528	4	SSW	2	0.00000	0	0.0		7.66528	227	1.3		1		S	0	1	
1/28/2007	RCH	2	3	8.69722	4	SSW	2	0.00000	0	0.0		8.69722	232	1.2	E	1		S	0	1	
1/28/2007	RCH	2	3	8.75278	4	SSW	2	0.00000	0	0.0		8.75278	230	2.2		1		S	0	1	
1/28/2007	RCH	2	2	9.00000	3	SSW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	RCH	2	3	9.01528	3	SSW	1	0.00000	0	0.0		9.01528	234	1.3		2		S	0	3	
1/28/2007	RCH	2	3	9.12556	3	SSW	1	0.00000	0	0.0		9.12556	232	1.2		1		S	0	1	
1/28/2007	RCH	2	3	9.25167	3	SSW	1	0.00000	0	0.0		9.25167	237	1.1		3		S	0	2	
1/28/2007	RCH	2	3	9.34333	3	SSW	1	0.00000	0	0.0		9.34333	238	1.2		2		S	0	1	
1/28/2007	RCH	2	3	9.37472	3	SSW	1	0.00000	0	0.0		9.37472	239	1.1		1		S	0	1	
1/28/2007	RCH	2	5	9.43333	3	SSW	1	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	RCH	2	1	9.48333	3	SSW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	
1/28/2007	RCH	2	3	9.62222	3	SSW	2	0.00000	0	0.0		9.62222	225	1.3		1		S	0	1	
1/28/2007	RCH	2	3	10.05083	3	SSW	2	0.00000	0	0.0		10.05083	241	1.1		2			0	1	
1/28/2007	RCH	2	3	10.11389	3	SSW	2	0.00000	0	0.0		10.11389	245	1.1		1		S	0	1	
1/28/2007	RCH	2	3	10.17361	3	SSW	2	10.17361	252	1.2		10.23944	238	1.2		1		S	0	2	
1/28/2007	RCH	2	3	10.30250	3	SSW	2	0.00000	0	0.0		10.30250	235	1.0		1		S	0	2	
1/28/2007	RCH	2	3	10.35250	3	SSW	2	0.00000	0	0.0		10.35250	258	0.7		2		S	0	1	
1/28/2007	RCH	2	3	10.40083	3	SSW	2	0.00000	0	0.0		10.40083	238	1.3		1		S	0	2	
1/28/2007	RCH	2	3	10.54000	3	SSW	2	0.00000	0	0.0		10.54000	235	1.3		2		S	0	3	
1/28/2007	RCH	2	3	10.58083	3	SSW	2	0.00000	0	0.0		10.58083	236	1.2		1		S	0	2	
1/28/2007	RCH	2	5	10.58333	3	SSW	2	0.00000	0	0.0		0.00000	0	0.0		0			0	0	

Appendix 3.--2006-07 gray whale census data from the 25X binocular. OBS = observers, RET = reticle, E = estimated, C/C = cow with calf, T = travel direction, BEH = behavior code.

DATE	OBS	EVENT	ETIME	VIS CODE	WIND DIR	WIND FORCE	STIME	S-ANGLE	S-RET	E	POD SIZE	C/C	T	BEH	CUES	COMMENTS
1/8/2007	MMM	1	13.04417	54322	NW	4	0.00000	0	0.0	0	0			0	0	SUNNY AND CLEAR WITH 5-10' SWELL
1/8/2007	MMM	2	13.13778	54333	NW	4	0.00000	0	0.0	0	0			0	0	
1/8/2007	MMM	2	13.17611	55333	NW	4	0.00000	0	0.0	0	0			0	0	
1/8/2007	MMM	4	13.44306	55333	NW	4	0.00000	0	0.0	0	0			0	0	TAPE RECORDER NOT WORKING!
1/8/2007	MMM	5	13.71667	55333	NW	4	0.00000	0	0.0	0	0			0	0	
1/9/2007	DJR	1	11.06667	43221	N	2	0.00000	0	0.0	0	0			0	0	
1/9/2007	DJR	6	11.52778	43221	N	2	0.00000	0	0.0	0	0			0	0	GRAMPUS GOING SOUTH AT RET 1.6; AT LEAST 2; BREACH
1/9/2007	DJR	3	11.59833	43221	N	2	11.59833	4	8.0	7	0	S	0	14	0	
1/9/2007	DJR	6	11.66111	43221	N	2	0.00000	0	0.0	0	0			0	0	GRAMPUS GOING NORTH AND SOUTH VERY FAST
1/9/2007	DJR	5	11.81667	43221	N	2	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	1	15.44167	32222	NW	3	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	3	15.50250	32222	NW	3	15.50250	5	8.2	E	2	S	0	2	0	
1/9/2007	MMM	2	15.59917	32211	NW	3	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	2	15.67056	43321	NW	3	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	2	15.70194	43322	NW	3	0.00000	0	0.0	0	0			0	0	HAZE AND GLARE AND SWELL
1/9/2007	MMM	2	15.77722	65322	NW	3	0.00000	0	0.0	0	0			0	0	HAZE ON HORIZON
1/9/2007	MMM	2	15.83306	65433	NW	3	0.00000	0	0.0	0	0			0	0	CREEPING GLARE
1/9/2007	MMM	6	15.88028	65433	NW	3	0.00000	0	0.0	0	0			0	0	SEA LION RET 6.5
1/9/2007	MMM	2	15.89194	64322	NW	3	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	6	15.90417	64322	NW	3	0.00000	0	0.0	0	0			0	0	PORPOISING SEA LIONS
1/9/2007	MMM	2	16.03778	64333	NW	3	0.00000	0	0.0	0	0			0	0	
1/9/2007	MMM	5	16.17500	64333	NW	3	0.00000	0	0.0	0	0			0	0	
1/11/2007	MMM	1	14.01667	54443	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	MMM	2	14.08861	55444	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	MMM	3	14.38722	55444	N	5	14.38722	4	8.2	3	S	0	3	0	0	142302 RET 8.0E SEC 6
1/11/2007	MMM	2	14.46667	65544	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	MMM	3	14.61472	65544	N	5	14.61472	3	5.5	1	S	0	1	0	0	
1/11/2007	MMM	2	14.64194	65444	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	MMM	5	14.76667	65444	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	DJR	1	14.88333	54443	N	5	0.00000	0	0.0	0	0			0	0	
1/11/2007	DJR	3	15.04889	54443	N	5	15.04889	5	11.0	1	S	0	1	0	0	
1/11/2007	DJR	5	15.63333	54443	N	5	0.00000	0	0.0	0	0			0	0	
1/14/2007	DJR	1	15.40000	43322	NNW	4	0.00000	0	0.0	0	0			0	0	
1/14/2007	DJR	3	15.56556	43322	NNW	4	15.56556	4	7.0	1	S	0	0	0	0	I HEARD THE BLOW!
1/14/2007	DJR	3	15.69583	43322	NNW	4	15.69583	6	8.0	1	S	0	0	0	0	
1/14/2007	DJR	3	15.70250	43322	NNW	4	15.70250	4	8.0	1	S	0	0	0	0	
1/14/2007	DJR	3	15.70722	43322	NNW	4	15.70722	2	9.0	1	S	0	0	0	0	
1/14/2007	DJR	3	15.71139	43322	NNW	4	15.71139	6	8.0	1	S	0	0	0	0	
1/14/2007	DJR	3	15.71528	43322	NNW	4	15.71528	4	7.0	1	S	0	0	0	0	

Appendix 3.--cont.

DATE	OBS	EVENT	ETIME	VIS CODE	WIND DIR	WIND FORCE	STIME	SANGLE	S-RET	E	POD SIZE	C/C	T	BEH	QUES	COMMENTS
1/14/2007	DJR	3	15.72083	43322	NNW	4	15.72083	2	7.0	1			S	0	0	
1/14/2007	DJR	3	15.72222	43322	NNW	4	15.72222	3	7.0	2			S	0	0	
1/14/2007	DJR	3	15.73222	43322	NNW	4	15.73222	4	7.0	1			S	0	0	
1/14/2007	DJR	3	15.73833	43322	NNW	4	15.73833	4	8.0	1			S	0	0	
1/14/2007	DJR	3	15.81528	43322	NNW	4	15.81528	5	6.0	1			S	0	0	
1/14/2007	DJR	3	15.81833	43322	NNW	4	15.81833	3	6.0	1			S	0	0	
1/14/2007	DJR	3	15.82389	43322	NNW	4	15.82389	2	5.0	1			S	0	0	
1/14/2007	DJR	5	16.15000	43322	NNW	4	0.00000	0	0.0	0			S	0	0	
1/15/2007	IML	1	15.63333	32111	NW	2	0.00000	0	0.0	0			S	0	0	
1/15/2007	IML	4	15.72333	32111	NW	2	0.00000	0	0.0	0			S	0	0	FORCE 3 BEAUFORT AT RETICLE 0.2
1/15/2007	IML	2	16.04778	43211	NW	3	0.00000	0	0.0	0			S	0	0	
1/15/2007	IML	3	16.16944	43211	NW	3	16.16944	5	5.5	2			S	8	1	
1/15/2007	IML	6	16.16944	43211	NW	3	0.00000	0	0.0	0			S	0	0	5-10 DOLPHINS WITH ER @ SEC 5 RET 5.5
1/15/2007	IML	3	16.17889	43211	NW	3	16.17889	6	5.5	4			S	0	1	
1/15/2007	IML	3	16.31667	43211	NW	3	16.31667	2	7.0	1			S	0	1	
1/15/2007	IML	2	16.34167	54321	NW	3	0.00000	0	0.0	0			S	0	0	GLARE AND HEAT SHIMMER @ RET 0-2
1/15/2007	IML	5	16.38333	54321	NW	3	0.00000	0	0.0	0			S	0	0	
1/16/2007	IML	1	11.56667	43211	NW	4	0.00000	0	0.0	0			S	0	0	
1/16/2007	IML	3	11.56944	43211	NW	4	11.56944	4	5.0	2			S	0	1	
1/16/2007	IML	3	11.57778	43211	NW	4	11.57778	3	4.0	2			S	0	1	
1/16/2007	IML	3	11.60278	43211	NW	4	11.60278	4	3.5	5			S	0	1	
1/16/2007	IML	3	11.61944	43211	NW	4	11.61944	5	4.0	1			S	0	1	
1/16/2007	IML	3	11.63000	43211	NW	4	11.63000	2	4.0	1			S	0	1	
1/16/2007	IML	3	11.66667	43211	NW	4	11.66667	6	3.5	1			S	0	1	
1/16/2007	IML	3	11.74833	43211	NW	4	11.74833	4	3.5	2			S	0	1	
1/16/2007	IML	3	11.86417	43211	NW	4	11.86417	4	4.0	2			S	0	1	
1/16/2007	IML	3	11.86694	43211	NW	4	11.86694	4	4.5	2			S	0	1	
1/16/2007	IML	3	11.86944	43211	NW	4	11.86944	4	6.0	1			S	0	1	
1/16/2007	IML	3	11.90278	43211	NW	4	11.90278	6	4.5	1			S	0	1	
1/16/2007	IML	3	11.94167	43211	NW	4	11.94167	2	5.5	1			S	0	1	
1/16/2007	IML	3	11.95444	43211	NW	4	11.95444	5	6.0	2			S	0	1	
1/16/2007	IML	3	11.96361	43211	NW	4	11.96361	3	7.0	1			S	0	1	
1/16/2007	IML	3	11.96833	43211	NW	4	11.96833	2	7.0	2			S	0	1	
1/16/2007	IML	3	12.02500	43211	NW	4	12.02500	5	6.0	1			S	0	1	
1/16/2007	IML	2	12.16556	43211	NW	5	0.00000	0	0.0	0			S	0	0	
1/16/2007	IML	3	12.17722	43211	NW	5	12.17722	2	5.5	1			S	0	1	
1/16/2007	IML	3	12.26806	43211	NW	5	12.26806	5	6.0	1			S	0	1	
1/16/2007	IML	3	12.28917	43211	NW	5	12.28917	5	6.0	1			S	0	1	
1/16/2007	IML	5	12.30000	43211	NW	5	0.00000	0	0.0	0			S	0	0	
1/17/2007	IML	1	12.60000	32111	NW	4	0.00000	0	0.0	0			S	0	0	
1/17/2007	IML	3	12.65278	32111	NW	4	12.65278	6	5.5	2			S	0	1	
1/17/2007	IML	3	12.70833	32111	NW	4	12.70833	5	5.0	1			S	0	1	
1/17/2007	IML	3	12.78889	32111	NW	4	12.78889	2	9.0	1			S	0	1	

Appendix 3.--cont.

DATE	OBS	EVENT	ETIME	VIS CODE	WIND DIR	WIND FORCE	STIME	SANGLE	S-RET	E	POD SIZE	C/C	T	BEH	QUES	COMMENTS
1/17/2007	IML	3	12.83917	32111	NW	4	12.83917	2	4.0		1		S	0	1	
1/17/2007	IML	3	12.86583	32111	NW	4	12.86583	3	5.5		2		S	0	1	
1/17/2007	IML	3	12.86944	32111	NW	4	12.86944	3	5.0		1		S	0	1	
1/17/2007	IML	2	12.95139	43211	NW	5	0.00000	0	0.0		0			0	0	
1/17/2007	IML	2	13.15778	43211	NW	4	0.00000	0	0.0		0			0	0	
1/17/2007	IML	3	13.30167	43211	NW	4	13.30167	3	6.5		1		S	0	1	
1/17/2007	IML	3	13.32250	43211	NW	4	13.32250	2	8.0		1		S	0	1	
1/17/2007	IML	5	13.35000	43211	NW	4	0.00000	0	0.0		0			0	0	
1/18/2007	KWS	1	14.00000	33222	NW	5	0.00000	0	0.0		0			0	0	GLARE AND HAZE ON THE HORIZON
1/18/2007	KWS	6	14.16667	33222	NW	5	0.00000	0	0.0		0			0	0	N.BOUND PORPOISING ZC AT 13 RETS SECT 3
1/18/2007	KWS	6	14.30000	33222	NW	5	0.00000	0	0.0		0			0	0	EL AT 11 RETS SECT 2
1/18/2007	KWS	3	14.56694	33222	NW	5	14.56694	4	6.5		2		S	0	3	ALSO UP AT 143435 SECT 2 GOING INTO 1
1/18/2007	KWS	5	14.75000	33222	NW	5	0.00000	0	0.0		0			0	0	
1/20/2007	SLM	1	11.08333	43111	NW	5	0.00000	0	0.0		0			0	0	
1/20/2007	SLM	3	11.30000	43111	NW	5	11.30000	3	2.5		2		S	0	0	
1/20/2007	SLM	3	11.38889	43111	NW	5	11.38889	4	3.5		2		S	0	0	
1/20/2007	SLM	3	11.52361	43111	NW	5	11.52361	2	9.0		1		S	0	0	
1/20/2007	SLM	3	11.71694	43111	NW	5	11.71694	5	7.5		1		S	0	0	
1/20/2007	SLM	3	11.75750	43111	NW	5	11.75750	5	6.5		1		S	0	0	
1/20/2007	SLM	5	11.83333	43111	NW	5	0.00000	0	0.0		0			0	0	
1/20/2007	KWS	1	12.00000	44322	NW	5	0.00000	0	0.0		0			0	0	BIG SWELL
1/20/2007	KWS	3	12.11250	44322	NW	5	12.11250	2	8.0		2		S	0	2	
1/20/2007	KWS	3	12.23361	44322	NW	5	12.23361	4	9.0		1		S	0	1	
1/20/2007	KWS	3	12.26250	44322	NW	5	12.26250	4	5.0		1		S	0	1	
1/20/2007	KWS	3	12.41667	44322	NW	5	12.41667	5	5.5		2		S	0	2	1 SOUNDED IN 5 OTHER BLEW IN A.1
1/20/2007	KWS	6	12.45000	44322	NW	5	0.00000	0	0.0		0			0	0	9 RETS SECT 5 N.BOUND ZC
1/20/2007	KWS	3	12.70583	44322	NW	5	12.70583	4	6.5		2		S	0	2	
1/20/2007	KWS	3	12.72083	44322	NW	5	12.72083	5	9.5		1		S	0	1	
1/20/2007	KWS	5	12.75000	44322	NW	5	0.00000	0	0.0		0			0	0	
1/20/2007	CDV	1	14.16667	44444	NW	5	0.00000	0	0.0		0			0	0	
1/20/2007	CDV	3	14.33583	44444	NW	5	14.33583	4	9.0		2		S	0	0	
1/20/2007	CDV	3	14.46778	44444	NW	5	14.46778	4	7.0		1		S	0	0	
1/20/2007	CDV	3	14.60556	44444	NW	5	14.60556	4	6.5		9		S	0	0	
1/20/2007	CDV	5	14.91667	44444	NW	5	0.00000	0	0.0		0			0	0	
1/21/2007	SLR	1	11.80333	44322	NW	6	0.00000	0	0.0		0			0	0	
1/21/2007	SLR	3	11.86667	44322	NW	6	11.86667	1	3.0	E	2		S	0	1	
1/21/2007	SLR	3	11.95000	44322	NW	6	11.95000	4	6.0		2		S	0	2	
1/21/2007	SLR	3	12.16667	44322	NW	6	12.16667	2	5.0		1		S	0	1	
1/21/2007	SLR	3	12.41667	44322	NW	6	12.41667	1	4.5		1		S	0	1	
1/21/2007	SLR	3	12.51667	44322	NW	6	12.51667	6	4.0		1		S	0	1	
1/21/2007	SLR	3	12.63333	44322	NW	6	12.63333	4	3.5		1		S	0	2	
1/21/2007	SLR	5	12.65000	44322	NW	6	0.00000	0	0.0		0			0	0	
1/21/2007	CDV	1	14.25000	66554	NW	5	0.00000	0	0.0		0			0	0	

Appendix 3.--cont.

DATE	OBS	EVENT	ETIME	VIS CODE	WIND DIR	WIND FORCE	STIME	SANGLE	S-RET	E	POD SIZE	C/C	T	BEH	QUES	COMMENTS
1/21/2007	CDV	3	14.30667	66554	NW	5	14.30667	4	10.0		6		S	0	7	
1/21/2007	CDV	3	14.52306	66554	NW	5	14.52306	2	6.5		3		S	0	3	
1/21/2007	CDV	3	14.59833	66554	NW	5	14.59833	4	20.0		2	1	S	0	2	
1/21/2007	CDV	3	14.70583	66554	NW	5	14.70583	2	7.5		2		S	0	2	
1/21/2007	CDV	3	14.76389	66554	NW	5	14.76389	3	4.0		4		S	0	9	
1/21/2007	CDV	5	15.00000	66554	NW	5	0.00000	0	0.0		0			0	0	
1/22/2007	KWS	1	11.66667	22111	SW	2	0.00000	0	0.0		0			0	0	
1/22/2007	KWS	6	12.13333	22111	SW	2	0.00000	0	0.0		0			0	0	EL AT 11.2 RETS FLOATING N
1/22/2007	KWS	3	12.37333	22111	SW	2	12.37333	3	9.0		2		S	0	3	FOOTPRINT A.4 SURFACED A.1 122203
1/22/2007	KWS	5	12.50000	22111	SW	2	0.00000	0	0.0		0			0	0	
1/22/2007	SLR	1	14.75000	44431	NW	2	0.00000	0	0.0		0			0	0	
1/22/2007	SLR	6	14.85000	44431	NW	2	0.00000	0	0.0		0			0	0	1000+ COMMON DOLPHINS N BOUND RET 2.5
1/22/2007	SLR	3	14.88333	44431	NW	2	14.88333	1	6.0		1		S	0	1	JUST CAUGHT BLOW WAS WATCHING DOLPHINS
1/22/2007	SLR	5	15.50000	44431	NW	2	0.00000	0	0.0		0			0	0	
1/23/2007	KWS	1	11.66667	22111	SW	2	0.00000	0	0.0		0			0	0	
1/23/2007	KWS	3	11.76250	22111	SW	2	11.76250	4	0.3		3		S	0	12	TOOK 2 MINUTES TO CROSS FIELD OF VIEW
1/23/2007	KWS	3	12.07917	22111	SW	2	12.07917	3	8.0		1		S	0	2	
1/23/2007	KWS	6	12.13333	22111	SW	2	0.00000	0	0.0		0			0	0	25 RETS 6 ZC S BOUND
1/23/2007	KWS	3	12.22778	22111	SW	2	12.22778	1	5.5		1		S	0	1	
1/23/2007	KWS	3	12.32222	22111	SW	2	12.32222	4	3.2		1		S	0	2	
1/23/2007	KWS	3	12.37361	22111	SW	2	12.37361	6	0.4		1		S	0	1	
1/23/2007	KWS	5	12.50000	22111	SW	2	0.00000	0	0.0		0			0	0	
1/23/2007	IML	1	15.03333	54321	NW	2	0.00000	0	0.0		0			0	0	FOG HAZE EVERYWHERE
1/23/2007	IML	3	15.04250	54321	NW	2	15.04250	3	6.0		1		S	0	1	
1/23/2007	IML	3	15.05389	54321	NW	2	15.05389	5	7.0		2		S	0	1	
1/23/2007	IML	3	15.31556	54321	NW	2	15.31556	3	6.0		1		S	0	1	
1/23/2007	IML	3	15.31694	54321	NW	2	15.31694	6	6.5		1		S	0	1	
1/23/2007	IML	3	15.32917	54321	NW	2	15.32917	2	5.8		2		S	0	1	
1/23/2007	IML	2	15.48661	54321	NW	3	0.00000	0	0.0		0			0	0	
1/23/2007	IML	5	15.78333	54321	NW	3	0.00000	0	0.0		0			0	0	ASSUME SAT A 45 MINUTE WATCH NO END TIME PROVIDED
1/24/2007	IML	1	11.21667	32111	S	2	0.00000	0	0.0		0			0	0	
1/24/2007	IML	3	11.82583	32111	S	2	11.82583	5	5.0		1		S	0	1	
1/24/2007	IML	3	11.86500	32111	S	2	11.86500	4	3.5		1		S	0	1	
1/24/2007	IML	3	11.87611	32111	S	2	11.87611	2	4.0		1		S	0	1	
1/24/2007	IML	3	11.89250	32111	S	2	11.89250	4	4.5		1		S	0	1	
1/24/2007	IML	3	11.89972	32111	S	2	11.89972	2	4.0		1		S	0	1	
1/24/2007	IML	5	11.96667	32111	S	2	0.00000	0	0.0		0			0	0	
1/24/2007	SDN	1	14.25028	44321	S	2	0.00000	0	0.0		0			0	0	
1/24/2007	SDN	2	14.45861	55421	S	2	0.00000	0	0.0		0			0	0	
1/24/2007	SDN	3	14.79833	55421	S	2	14.79833	4	10.0		1		S	0	1	
1/24/2007	SDN	3	14.90194	55421	S	2	14.90194	5	7.0		1		S	0	1	
1/24/2007	SDN	3	14.99444	55421	S	2	14.99444	3	5.5		1		S	0	1	

Appendix 3.--cont.

DATE	OBS	EVENT	ETIME	VIS CODE	WIND DIR	WIND FORCE	STIME	SANGLE	S-RET	E	POD SIZE	C/C	T	BEH	QUES	COMMENTS
1/24/2007	SDN	5	15.00000	55421	S	2	0.00000	0	0.0	0	0			0	0	
1/27/2007	SLM	1	11.09444	54321	SW	5	0.00000	0	0.0	0	0			0	0	
1/27/2007	SLM	3	11.13889	54321	SW	5	11.13889	6	5.0	1	1		S	0	2	
1/27/2007	SLM	3	11.19250	54321	SW	5	11.19250	4	7.5	2	2		S	0	2	
1/27/2007	SLM	3	11.23583	54321	SW	5	11.23583	5	6.0	1	1		S	0	1	
1/27/2007	SLM	3	11.37056	54321	SW	5	11.37056	6	6.5	2	2		S	0	2	
1/27/2007	SLM	3	11.53278	54321	SW	5	11.53278	2	5.5	4	4		S	0	1	
1/27/2007	SLM	3	11.69861	54321	SW	5	11.69861	2	7.0	1	1		S	0	1	
1/27/2007	SLM	3	11.76750	54321	SW	5	11.76750	3	2.0	1	1		S	0	1	
1/27/2007	SLM	5	11.84444	54321	SW	5	0.00000	0	0.0	0	0			0	0	
1/29/2007	SDN	1	14.00000	22111	SW	1	0.00000	0	0.0	0	0			0	0	
1/29/2007	SDN	6	14.05833	22111	SW	1	14.05833	0	10.0	10	10			0	0	SMALL GROUP OF DOLPHINS NORTH BOUND RET 10
1/29/2007	SDN	3	14.17583	22111	SW	1	14.17583	1	14.0	1	1		N	0	2	
1/29/2007	SDN	6	14.35889	22111	SW	1	0.00000	0	0.0	0	0			0	0	NORTHBOUND DOLPHINS
1/29/2007	SDN	3	14.54333	22111	SW	1	14.54333	3	2.0	1	1		N	0	3	WHALE PLAYING ON SURFACE SWIMMING ON ITS SIDE
1/29/2007	SDN	3	14.64000	22111	SW	1	14.64000	3	3.0	1	1		S	0	1	
1/29/2007	SDN	4	14.74722	22111	SW	1	0.00000	0	0.0	0	0			0	0	DOLPHINS PRESENT THROUGHOUT ENTIRE WATCH
1/29/2007	SDN	5	14.75000	22111	SW	1	0.00000	0	0.0	0	0			0	0	
1/30/2007	IML	1	14.33333	32111	NW	2	0.00000	0	0.0	0	0			0	0	
1/30/2007	IML	2	14.76306	42111	NW	2	0.00000	0	0.0	0	0			0	0	
1/30/2007	IML	3	14.85028	32111	NW	2	14.85028	5	2.6	2	2		S	0	2	
1/30/2007	IML	3	14.98167	42111	NW	2	14.98167	5	4.8	3	3		S	0	3	
1/30/2007	IML	5	15.08333	42111	NW	2	0.00000	0	0.0	0	0			0	0	
1/31/2007	IML	1	11.50000	32111	NW	3	0.00000	0	0.0	0	0			0	0	
1/31/2007	IML	3	11.75028	32111	NW	3	11.75028	1	5.0	1	1		S	0	1	
1/31/2007	IML	3	12.16528	32111	NW	3	12.16528	5	5.7	1	1		S	0	1	
1/31/2007	IML	3	12.23861	32111	NW	3	12.23861	1	4.0	1	1		S	0	1	
1/31/2007	IML	5	12.25000	32111	NW	3	0.00000	0	0.0	0	0			0	0	
1/31/2007	SDN	1	15.25000	22111	SW	1	0.00000	0	0.0	0	0			0	0	
1/31/2007	SDN	5	16.00000	22111	SW	1	0.00000	0	0.0	0	0			0	0	NO SIGHTINGS