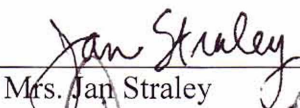


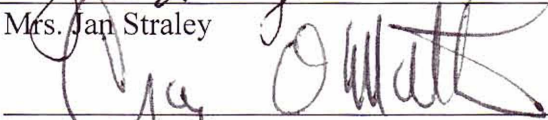
HUMPBACK WHALE (*MEGAPTERA NOVAEANGLIAE*) NUMBERS AND
DISTRIBUTION ON THEIR SUMMER FEEDING GROUNDS OF THE EASTERN
ALEUTIAN ISLANDS


By

Heather Riley

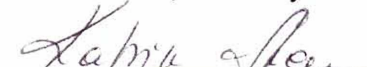
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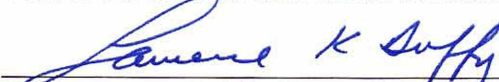

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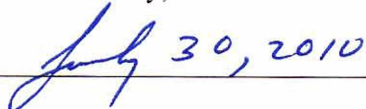

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HUMPBACK WHALE (*MEGAPTERA NOVAEANGLIAE*) NUMBERS AND
DISTRIBUTION ON THEIR SUMMER FEEDING GROUNDS OF THE
EASTERN ALEUTIAN ISLANDS

A
THESIS

Presented to the Faculty
of the University of Alaska Fairbanks

in Partial Fulfillment of the Requirements
for the Degree of

MASTER OF SCIENCE

By

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Fairbanks, Alaska

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ABSTRACT

In summer, Humpback whales (*Megaptera novaeangliae*) of the North Pacific stock feed in Alaska's nearshore waters. My research focused on the Bering Sea between Unimak and Samalga Pass with the objectives: 1) Estimate the number of humpback whales using the study area from 2001 through 2006; 2) Determine to what extent humpback whales exhibit site fidelity; 3) Describe the distribution of humpback whales and determine if depth, slope, and chlorophyll-a can predict the humpback whale presence. To investigate the degree to which whales return to the Eastern Aleutian summer feeding ground, 1,985 whale photographs were collected and an identity matrix was created; Humpback whales exhibited a 22 percent return rate with 181 whales out of 802 total whales seen in more than one year during the six year study. Program MARK (Mark and recapture parameter estimation) was used to estimate the number of humpback whales utilizing this area, resulting in an estimate of 500 to 1600 animals. Logistic regression and random forest classification determined that depth and longitude are significant predictors of humpback whale presence. These results support other studies in the Eastern Aleutians and North Pacific and further confirm the importance of oceanographic and biological features in concentrating prey and predicting humpback whale distribution.

TABLE OF CONTENTS

	PAGE
SIGNATURE PAGE	i
TITLE PAGE	ii
ABSTRACT	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vii
LIST OF TABLES	ix
LIST OF APPENDICES	xi
ACKNOWLEDGEMENTS	xii
INTRODUCTION	1
LITERATURE CITED	3
CHAPTER 1 HUMPBACK WHALE (<i>Megaptera novaeangliae</i>) NUMBERS AND SITE FIDELITY IN THE EASTERN ALEUTIAN ISLANDS	4
1.1 ABSTRACT	4
1.2 INTRODUCTION	5
1.3 METHODS	9
1.3.1 Study Area	9
1.3.2 Data Sets and Surveys	9
1.3.3 Photographic Identification Methods/Surveys	10
1.3.4 Photographic Identification Analysis	12
1.3.5 Data Analyses	14
1.4 RESULTS	17
1.4.1 Survey Effort and Site Fidelity	17
1.4.2 Numbers of Whales Estimated with Mark-Recapture	19
1.5 DISCUSSION	21

1.5.1 Site Fidelity	21
1.5.2 Mark-Recapture Population Estimate	26
1.5.3 Assumptions of Mark-Recapture Studies	27
1.6 CONCLUSIONS.....	29
1.6.1 Site Fidelity	29
1.6.2 Population Estimate	30
1.7 LITERATURE CITED	31
APPENDIX A.....	36
CHAPTER 2 HUMPBACK WHALE (<i>Megaptera novaeangliae</i>) HABITAT USE IN THE EASTERN ALEUTIAN ISLANDS WITH RELATION TO OCEANOGRAPHIC FEATURES.....	37
2.1 ABSTRACT.....	37
2.2 INTRODUCTION	38
2.3 METHODS	41
2.3.1 Study Area	41
2.3.2 Survey Cruises and Sightings	44
2.3.3 ArcGIS (Geographic Information System) Mapping	45
2.3.4 Whale Sighting and GPS data.....	45
2.3.5 Habitat Data	46
2.3.5.1 Depth.....	46
2.3.5.2 Slope	46
2.3.5.3 Chlorophyll-a	46
2.3.6 Data Compilation using ArcGIS.....	47
2.3.6.1 Creating Random Points	48
2.3.6.2 Extracting All Values.....	48
2.3.7 Data Analyses	49
2.3.7.1 Cetacean Habitat-use Modeling.....	49
2.3.7.2 Significance Levels.....	51
2.4 RESULTS	51

2.4.1 Logistic Regression.....	55
2.4.2 Evaluation of GLM Assumptions	56
2.5 DISCUSSION	59
2.5.1 Explanatory Variables.....	60
2.5.1.1 Bathymetry (Depth)	60
2.5.1.2 Slope	61
2.5.1.3 Longitude	62
2.5.1.4 Chl-a.....	63
2.5.1.5 Latitude	64
2.5.2 Limitations	64
2.5.2.1 Data Independence.....	64
2.5.2.2 Effort Assumption.....	65
2.6 CONCLUSIONS.....	66
2.6.1 Future Studies	68
2.7 LITERATURE CITED	68
APPENDIX B	76
CONCLUSION.....	84
LITERATURE CITED	86

LIST OF FIGURES

	PAGE
Figure 1.1. Primary traffic routes of vessels on the Northern Pacific great circle route traveling through the Aleutians Subarea	8
Figure 1.2. Eastern Aleutian Islands study area.....	9
Figure 1.3. Examples of black and white identification photographs of humpback whale flukes with their correct categories.	13
Figure 1.4. Humpback whale fluke distinctiveness ratings.	14
Figure 1.5. Total number of humpback whale sightings and boat days by month.	18
Figure 1.6. Eastern Aleutian humpback whale population estimates, 2003-2006.....	20
Figure 1.7. Survey track lines and effort during SPLASH, 2004-2005.....	24
Figure 1.8. Eastern Aleutian (EA), Kodiak (KOD), and Southeast Alaska (SEAK) haplogroups and their representative mtDNA haplotypes.	26
Figure 2.1. Eastern Aleutian study area.	41
Figure 2.2. Current patterns in the Eastern Aleutians study area.....	42
Figure 2.3. These images show how chl-a data for Eastern Aleutian study area are obtained from a global map from NOAA CoastWatch.	46
Figure 2.4. Data analysis flow chart.	50
Figure 2.5. 2004-2005 humpback whale sightings, tracklines, and area searched in the Eastern Aleutian study area.	51
Figure 2.6. 2004-2005 humpback whale sightings and bathymetry in the Eastern Aleutian study area.	52
Figure 2.7. 2004-2005 humpback whale sightings and slope in degrees in the Eastern Aleutian study area.	53
Figure 2.8. September 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.	54
Figure 2.9. Residual plot by latitude and longitude.	56

Figure 2.10. Variable importance plots for predictor variables from Random Forest classifications.....	57
Figure 2.11. Partial dependence plots of the Random Forest predictions of humpback whale presence for variables a) longitude and b) depth.....	58
Figure 2.12. Visual comparison between the longitudinal partial dependence plot and humpback whale sightings and tracklines.....	62
Figure 2.13. High versus low survey coverage within the Eastern Aleutian study area, 2004 and 2005.....	65
Figure B2.1. July 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.....	76
Figure B2.2. August 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.....	77
Figure B2.3. July 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.....	78
Figure B2.4. August 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.....	79
Figure B2.5. September 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.....	80

LIST OF TABLES

	PAGE
Table 1.1. Humpback whale data collection by month and organization for the Eastern Aleutians study area, 2001-2006.....	10
Table 1.2. Number of photos received by each group over the six year study period.....	10
Table 1.3. Summary of photos received and selected for analysis from different research groups from 2001 through 2006 in Eastern Aleutian study area.	10
Table 1.4. Humpback whale data collection for the Eastern Aleutians study area, 2001-2006.....	11
Table 1.5. Sighting matrix for an example study area.	15
Table 1.6. Model and data variations used in Program MARK to estimate the number of humpback whales in the study area in different time periods.....	17
Table 1.7. Number of humpback whale sightings and boat days by year of the study.....	17
Table 1.8. Humpback whale sighting matrix for the Eastern Aleutian study area, 2001-2006.	18
Table 1.9. Humpback whale sighting matrix for the Eastern Aleutian study area, 2003-2006.....	19
Table 1.10. Number and percentage of individual humpback whales seen by year during annual surveys, 2003-2006.	19
Table 1.11. Performance of different models obtained using Program MARK.	20
Table 1.12. Estimates of Derived Parameters for the model including heterogeneity, time, effort, and covariate of fluke distinctiveness, M(hte with fldi).	21
Table 1.13. Estimates of Derived Parameters for the model including time, effort, and covariate of fluke distinctiveness, M(te with fldi).	21
Table 1.14. Published humpback whale site fidelity percentages and their descriptions.	22
Table 1.15. Percentages of mtDNA haplogroups for humpback whales found in the Eastern Aleutian Islands (EA), Kodiak (KOD), and Southeast Alaska (SEAK).....	26
Table A1.1. Photographic category codes and descriptions used in the photographic identification analysis section.	35

Table 2.1. Humpback whale data collection by month and organization for the Eastern Aleutians study area during SPLASH, 2004-2005. 43

Table 2.2. Humpback whale data collection (boat-days) for the Eastern Aleutians study area, 2004-2005..... 44

Table 2.3. Buffer distance values in km placed around the tracklines of each study group. 47

Table 2.4. Logistic regression coefficient results for the original model using different random points..... 55

Table 2.5. Correlation test results between independent variables 55

Table 2.6. Means and confidence intervals of logistic regression parameters generated from the stepwise backward bootstrapping..... 57

LIST OF APPENDICES

	PAGE
A1.1. Photographic category codes and descriptions used in the photographic identification analysis section.	35
A1.2. Photographic information across study years (2001-2006) for each individual whale.	CD
A1.3. Encounter history codes for all whales used in Program MARK.	CD
B2.1. Detailed GIS steps used in the data processing methods section.	73
B2.2. All GIS raster values (chl-a, depth, slope, longitude, and latitude) for whale sightings and random points.	CD
B2.3. Chl-a values and humpback whale sightings mapped using ArcGIS for July, August, and September of 2004 and 2005.	76

LIST OF OTHER MATERIALS

	PAGE
A1.2.	CD
A1.3.	CD
B2.2.	CD

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INTRODUCTION

Humpback whales (*Megaptera novaeangliae*) have been studied since the early 1970s in some nearshore regions of their North Pacific summer feeding grounds such as Southeastern Alaska and Prince William Sound (Straley 1994). Beginning in 2001, detailed regional research has extended further west to the Shumagin Islands (Waite *et al.* 1999, Witteveen *et al.* 2004) and into the Eastern Aleutians with North Gulf Oceanic Society (Calambokidis *et al.* 2008). In 2004, an international North Pacific-wide study called SPLASH (Structure of Populations, Levels of Abundance and Status of Humpbacks) was launched with over 50 collaborating research groups to determine the trends, movements, population structure, and abundance of humpback whales throughout the North Pacific (Calambokidis *et al.* 2008). Until SPLASH, little was known about humpback whales feeding during the summer in coastal waters west of the Shumagin Islands into the Eastern Aleutians.

The Eastern Aleutians are part of a high-latitude island archipelago formed by the peaks of the Aleutian ridge (Von Huene and Shor 1969). These islands border the Bering Sea to the northwest and the Pacific Ocean to the southeast and are surrounded by a combination of currents and oceanographically unique passes that provide productive, suitable habitat for many types of marine organisms including humpback whales (Hunt and Stabenro 2005). The Eastern Aleutians account for only a small part of the overall North Pacific summer feeding areas for humpback whales but nonetheless are important because they are a predictable, productive area to which whales return. The SPLASH study focused on productive areas, such as the Eastern Aleutians, that could be considered ‘hotspots’ for humpback whales feeding in the summer months. It was not known whether or not these whales are a separate feeding aggregation that returns year after year to this same spot. To designate an area as a distinct summer feeding area, evidence is needed that 1) at least some of the whales return to the same area interannually (“site fidelity”), 2) that few of the whales from this area are found in other

summer feeding areas, and if possible, 3) that the whales in this group are genetically identifiable. I focused on this area to support or refute the hypothesis that this is a distinct summer feeding area by estimating site fidelity. I also compared the Eastern Aleutians with other summer feeding areas to determine if it is a "typical" summer feeding aggregation in terms of estimated numbers in the aggregation and in terms of habitat use.

The objectives of this study are three-fold and aim at not only gaining more baseline information about humpback whale use in this understudied area, but also comparing findings on a larger scale to add to the general knowledge of humpback whale summer feeding ground dynamics. This study is presented in two separate chapters. The first chapter focuses on estimating the number of animals using the Eastern Aleutians in summer as well as the percent return of individual whales across four summers. The second chapter characterizes what types of oceanographic variables explain the presence of humpback whales. Both chapters combined with knowledge and characteristics from other summer feeding areas aid in investigating the hypothesis that this is a distinct feeding area for humpback whales.

This study is unique and presents challenges because it compiles previously collected data from both SPLASH and other research to answer smaller-scale, regional questions about humpback whale numbers and habitat specifically on the nearshore feeding grounds of the Eastern Aleutians. The challenge lies in analyzing what kinds of information can be explored and explained about humpback whales based on the characteristics and quality of data that were originally collected to answer different and broader, North Pacific basin-wide questions.

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CHAPTER 1 HUMPBACK WHALE (*Megaptera novaeangliae*) NUMBERS AND SITE FIDELITY IN THE EASTERN ALEUTIAN ISLANDS

1.1 ABSTRACT

Humpback whales (*Megaptera novaeangliae*) have been studied since the early 1970's in nearshore regions of their North Pacific summer feeding grounds in southeastern Alaska and Prince William Sound. In 2001, research extended further west to the Shumagin Islands and into the Eastern Aleutians and in 2004 and 2005, a Pacific-wide study called SPLASH provided data to add a better understanding about the whales feeding in the coastal Eastern Aleutians. The present research focused on sightings that occurred in the nearshore waters of the Bering Sea between Unimak and Umnak Pass. The summer feeding area described in the present study has yielded 1,985 photographs of animals collected between the summers of 2001 through 2006 by four different research groups. Of the 1,985 identification photographs submitted by the four research groups, 1,441 were selected for comparison thus resulting 802 distinct individuals. Humpback whales have exhibited fidelity to specific foraging areas in Alaska such as Kodiak and Southeast Alaska. To investigate if site fidelity exists in the Eastern Aleutian summer feeding ground an identity matrix was created and site fidelity was determined to be 23% between 2001 and 2006. This may provide some evidence that the Eastern Aleutians could be a distinct feeding aggregation for humpback whales, however, other parameters need to be explored. Program MARK was used to perform a mark-recapture analysis and therefore provide a yearly estimate of the number of humpback whales using this area. A Huggins full closed capture with heterogeneity dot model was chosen over other models. Time (t), effort (e), and heterogeneity (h) were the biologically reasonable variables tested in each model and fluke distinctiveness was added as a covariate. The model that explains these data the best included (t) and (e) with the fluke distinctiveness covariate. This model reported an estimate of between approximately 500 to 1600 animals in Eastern Aleutian summer humpback whale population.

1.2 INTRODUCTION

Humpback whales (*Megaptera novaeangliae*) have been studied in nearshore regions of their North Pacific summer feeding grounds for over 40 years. Studies began in the late 1960s in southeastern Alaska (Jurasz and Palmer 1981) and in the late 1970s in Prince William Sound (Straley 1994). Beginning in 2001, detailed regional research has extended further west to the Shumagin Islands (Waite *et al.* 1999, Witteveen *et al.* 2004) and into the Eastern Aleutians with North Gulf Oceanic Society. In 2004, an international North Pacific-wide study called SPLASH (Structure of Populations, Levels of Abundance and Status of Humpbacks) was launched with over 50 collaborating research groups to determine the trends, movements, population structure, and abundance of humpback whales in the North Pacific (Calambokidis *et al.* 2008). Until SPLASH, little was known about humpback whales feeding during the summer in coastal waters west of the Shumagin Islands into the Bering Sea/Eastern Aleutians.

Humpback whales are large, baleen whales found in every ocean of the world. Historically, these whales were exploited commercially during both the 1800s and 1900s but have been protected from commercial whaling by the International Whaling Commission (IWC) since 1965 (Tonnessen and Johnsen 1982). Currently they are classified on the International Union for Conservation of Nature and Natural Resources (IUCN) Red list as vulnerable and in 1973, the United States Congress passed the Endangered Species Act, which listed the humpback whale as an endangered species (Baillie and Groombridge 1996). The North Pacific population is estimated to have been approximately 15,000 before commercial exploitation (Rice 1978). Estimates since 1965 of the number of that same group of North Pacific humpback whales were 1,400 individuals (Gambell 1976) and 1,200 individuals (Johnson and Wolman 1984). In 2001, Calambokidis *et al.* (2001) estimated part of the North Pacific population of humpback whales to be about 6,000 individuals. The most complete recent estimate of North Pacific humpback whale total abundance was 18,302 individuals for all feeding and wintering areas (Calambokidis *et al.* 2008).

Humpback whales feed in productive high-latitude waters in summer and then migrate to lower latitude protected waters for calving and mating in winter (Darling *et al.* 1996). Many studies have used photographic identification (photo ID) of humpback whales to investigate not only the large-scale migratory movements of humpback whales between areas but also the smaller scale movements of these animals within one area. These methods rely on the ability to uniquely identify and track individuals based on photographs of their natural markings including the pigmentation, scars, and ridging on the underside of the flukes (Katona *et al.* 1979). Capture-recapture methods using photo ID have been used to estimate the population size of humpbacks whales in northern Southeast Alaska (Straley *et al.* 2008) as well as Kodiak and the Shumagin Islands in western Alaska (Witteveen *et al.* 2004).

Site fidelity (individuals returning to the same area over time) has been documented for many species of migratory baleen whales (Calambokidis *et al.* 2008) on both the feeding and breeding grounds. Site fidelity of individual humpback whales to migratory destinations has also been documented in several North Pacific regions in the same or different years using photo ID (Darling and Jurasz 1983, Darling and McSweeney 1985, Baker *et al.* 1986, Urban *et al.* 1987, Calambokidis *et al.* 1996, Craig and Herman 1997). Individual whales are known to return regularly to specific wintering and feeding areas in the North Pacific (Calambokidis *et al.* 2008). A 2001 study done on the movements and abundance of North Pacific humpback whales showed that site fidelity was “very strong” in most feeding areas (Calambokidis *et al.* 2001). A feeding aggregation of humpback whales in Southeastern Alaska was said to have “high site fidelity” with 47.2% of the 326 humpbacks identified between 1979 and 1983 seen in more than one year (Baker *et al.* 1986). In the North Atlantic, individual humpback whales have shown “high fidelity” to summer feeding sites with little exchange having been observed between the sites (Katona and Beard 1990). Despite many published site fidelity studies that cover many

whale species, the definition of the degree of site fidelity (i.e., high, strong, medium, low, weak), its calculation and interpretation are inconsistent.

The SPLASH study focused on productive areas, such as the Eastern Aleutians, that could be considered ‘hotspots’ for humpback whales feeding in the summer months. It was not known whether or not these whales are a separate feeding aggregation that returns year after year to this same spot. To designate an area as a distinct summer feeding area, evidence is needed that 1) at least some of the whales return to the same area interannually (“site fidelity”), 2) that few of the whales from this area are found in other summer feeding areas, and if possible, 3) that the whales in this group are genetically identifiable.

High or strong levels of site fidelity can have important implications for not only defining the overall conservation and management of populations, but also the increasing vulnerability of populations to disturbances from localized anthropogenic influences (Warkentin and Hernandez 1996). The Eastern Aleutian Islands are located on the southern edge of a major shipping lane and are commonly subjected to localized disturbances by traffic (Nuka 2006) (Figure 1.1). This area also supports both recreational and commercial fisheries. As all of these industries change over time and with the effects of climate change, organisms from all trophic levels may face local challenges. The goal of this study was to investigate and describe the humpback whales that use this area during the summer feeding season.

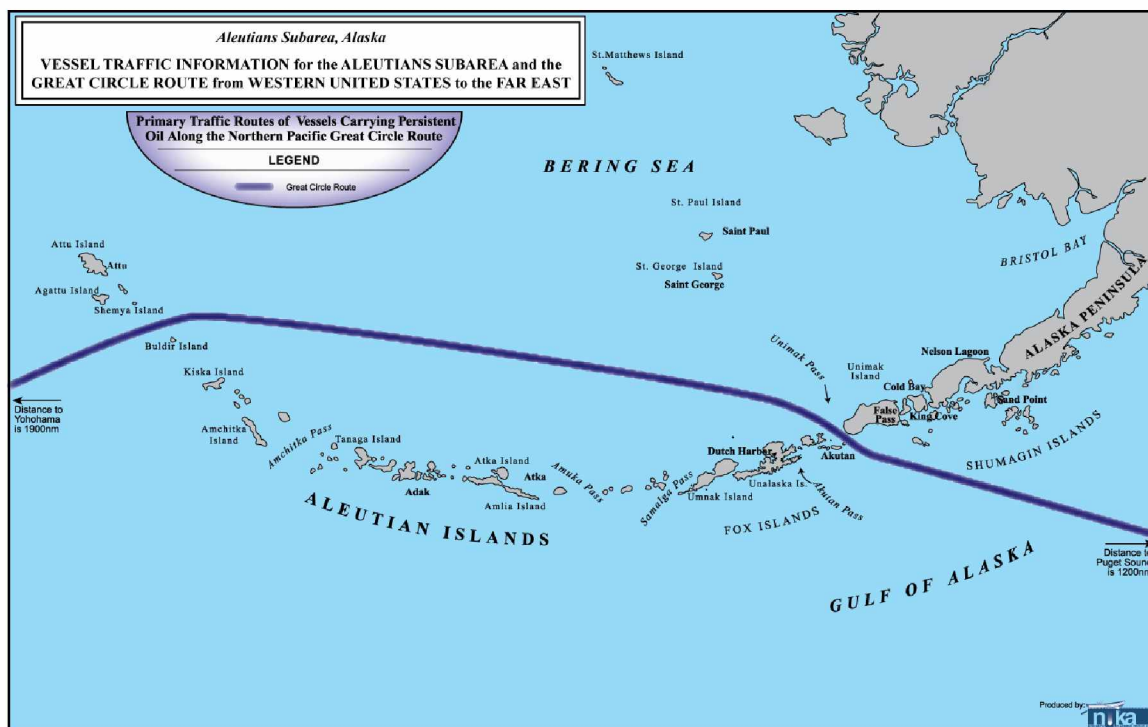


Figure 1.1. Primary traffic routes of vessels on the Northern Pacific great circle route traveling through the Aleutians Subarea (figure from (Nuka 2006)).

This study had two objectives:

- 1.) Determine to what extent humpback whales exhibit site fidelity on the summer feeding grounds in the Eastern Aleutians between Unimak and Samalga Pass.
- 2.) Estimate the number of humpback whales using the study area June-September from 2001 through 2006.

This study is unique for the Eastern Aleutians and complements the goals of SPLASH by providing a finer scale analysis of this coastal area. This was accomplished by using data collected prior to, as well as SPLASH data, to extend the detailed regional knowledge of humpback whale abundance on the nearshore feeding grounds of the coastal Eastern Aleutians.

1.3 METHODS

1.3.1 Study Area

The Eastern Aleutian Islands are defined in this study as the islands located between Unimak Pass and Samalga Pass: Unimak, Akun, Akutan, Unalaska, and Umnak Islands. They are located between $54^{\circ}20'N$ and $164^{\circ}55'W$ and $53^{\circ}46'N$ and $169^{\circ}15'W$ and are part of a high-latitude island archipelago formed by the peaks of the Aleutian ridge (Logerwell *et al.* 2005). These islands border the Bering Sea to the northwest and the Pacific Ocean to the southeast. This study focused on humpback whales sighted in the nearshore waters on the Bering Sea side of these islands and passes (Figure 1.2).

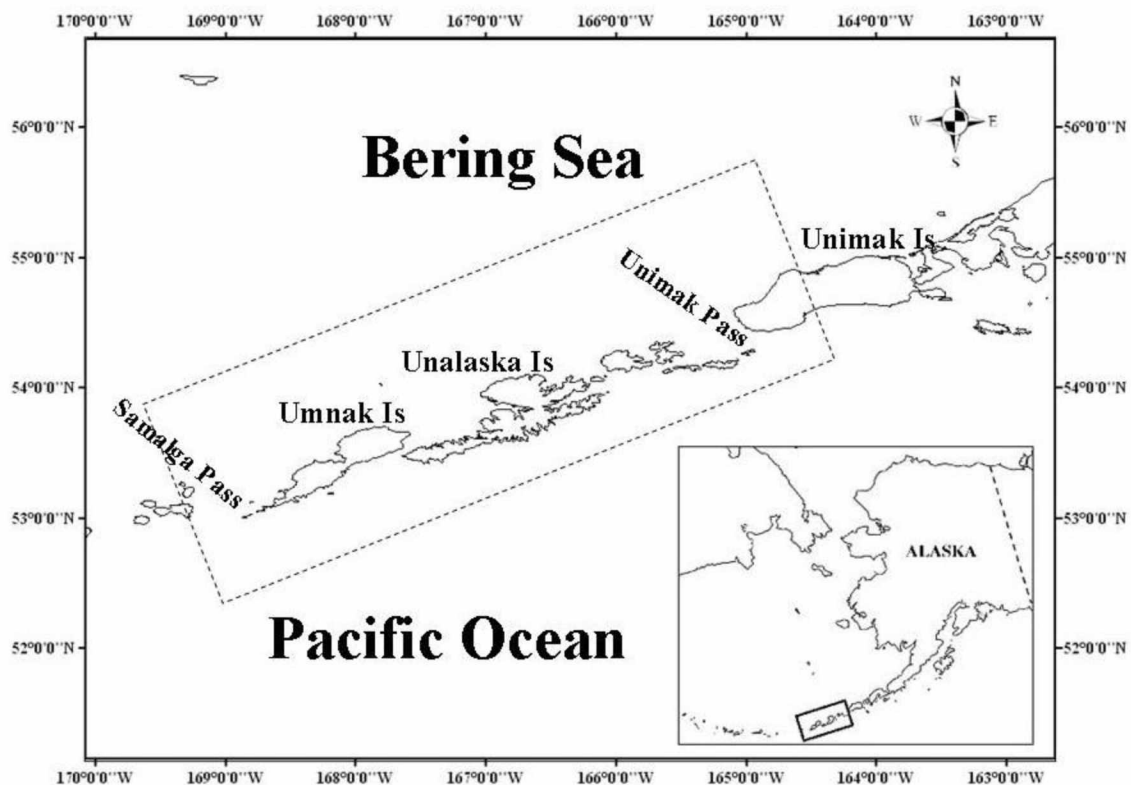


Figure 1.2. Eastern Aleutian Islands study area.

1.3.2 Data Sets and Surveys

Identification photographs of humpback whales were collected in the study area from June through September 2001 through 2006 by four collaborating organizations: North

Gulf Oceanic Society (NGOS), Southwest Fisheries Science Center (SWFSC), U.S. National Marine Mammal Lab (NMML), and Cascadia Research Collective (CRC) (Tables 1.1-1.3). Only NGOs contributed photos all six years. In 2004 and 2005, the majority of the data were collected in conjunction with SPLASH. For details of the SPLASH protocols see Calambokidis *et al.* (2008).

Table 1.1. Humpback whale data collection by month and organization for the Eastern Aleutians study area, 2001-2006.

Collector	2001	2002	2003	**2004	**2005	2006
NGOS	Aug	Jun-Aug	Jun-Aug	Jun-Sep	Jul-Aug	Jul-Aug
SWFSC				Aug-Sep		
NMML				Jun-Aug	June-Sep	
CRC					Aug-Sep	

** Denotes SPLASH-funded years

Table 1.2. Number of photos received by each group over the six year study period.

Collector	2001	2002	2003	**2004	**2005	2006
CRC					270	
NGOS	6	71	194	263	253	540
NMML				46	164	
SWFC				178		
TOTALS	6	71	194	487	687	540

** Denotes SPLASH-funded years

Table 1.3. Summary of photos received and selected for analysis from different research groups from 2001 through 2006 in Eastern Aleutian study area.

Collector	Photos submitted	Photos Selected	Unique IDs
CRC	270	181	84
NGOS	1327	977	510
NMML	210	154	106
SWFC	178	129	102
TOTALS	1985	1441	802

1.3.3 Photographic Identification Methods/Surveys

A variety of vessels were used by the different research groups but most surveys were conducted using vessels <15 meters in length. Effort is summarized by boat days over all years and months in this study (Table 1.4). Photo ID methods were standardized among groups (Calambokidis *et al.* 2008). All photos taken within this study area during

SPLASH were requested and pulled from a larger SPLASH Access database to supplement photos and data taken by NGOs in 2001, 2002, 2003, and 2006.

Table 1.4. Humpback whale data collection for the Eastern Aleutians study area, 2001-2006. Boat days among years by month. The number of hours in a survey day varied.

	2001	2002	2003	**2004	**2005	2006	Total surveys by month
June	*	6	3	15	*	*	24
July	*	4	6	8	9	3	30
August	1	*	7	10	31	10	59
September	*	*	*	5	11	*	16
Total surveys by year	1	10	16	38	51	13	129

* Denotes no data, **Denotes SPLASH-funded years

Digital cameras, such as the Nikon D70, D100, and film cameras (using high-speed black and white film), such as the Nikon F100 equipped with up to 300 mm telephoto lenses were used to collect photos. Individual humpback whales were identified from photographs of natural markings on the ventral surfaces of their flukes (Katona *et al.* 1979). Among the four different research groups the natural marks on the ventral side of the flukes were photographed and described in several different studies (Calambokidis *et al.* 1990, Darling and Mori 1993, Calambokidis *et al.* 1996, Cerchio *et al.* 1998, Waite *et al.* 1999). Markings used to distinguish humpback whales included a black to white pigmentation of the skin, leading and trailing edges of the fluke, and any visible scarring on the ventral side of the fluke (Figure 1.3).

All field data were recorded on individual survey sheets that included the date, research vessel name and crew, effort beginning and end times, and often the weather and sea state conditions. Depending on survey vessel, effort data were logged automatically with an on-board global positioning system (GPS) at various time intervals from every five minutes to once per hour. When a whale/s was sighted, a sighting form was filled out that included the time of the sighting (start and finish), date, location (latitude and longitude), number of animals present, behavior, and age/sex group (if known). Whales were then approached to photograph the ventral sides of their flukes and given alphabetical letters

as temporary identification codes used when recording the frame numbers of the whales photographed.

1.3.4 Photographic Identification Analysis

A total of 1,985 photographs were used for this study. The analysis of photographs was initially handled differently between SPLASH year photographs (2004-2005) and the prior three years due to format differences. All SPLASH photographs were in a digital format while photos from NGOS (2001-2003) were taken with a film camera and required scanning to convert into a digital format.

Data catalog development followed SPLASH protocol except for the number of fluke color and quality categories (Calambokidis *et al.* 2008). All 1,985 images were initially placed in 10 general categories. The first 6 categories used a scale from 0 (100% white fluke) to 3 (50% white fluke) to a 5 (meaning an all black fluke), and the other four categories were flukes with left notches (ln), right notches (rn), only half of fluke present (h), or poor quality photos which were completely unusable (pq)(Figure 1.3). Each photo was rated good, fair, or poor. A good rating meant the photograph exhibited a clear trailing edge, and the whole fluke was easily visible and identifiable at a good angle. A photo was rated fair and still identifiable when the shape of the trailing edge and markings were visible, but at an angle. Poor quality photos were distinguished as not seeing a visible trailing edge, having a fluke at an angle that made it unclear as to what it actually looked like, blurriness, or only a portion of the fluke was visible. The quality of the photo strongly influences the observer's ability to identify resightings (Stevick *et al.* 2001); therefore the rate of resighting was calculated only using photographs of quality categories good and fair. Of the 1,985 identification photographs, 1,441 were selected for comparison (Table 1.3).

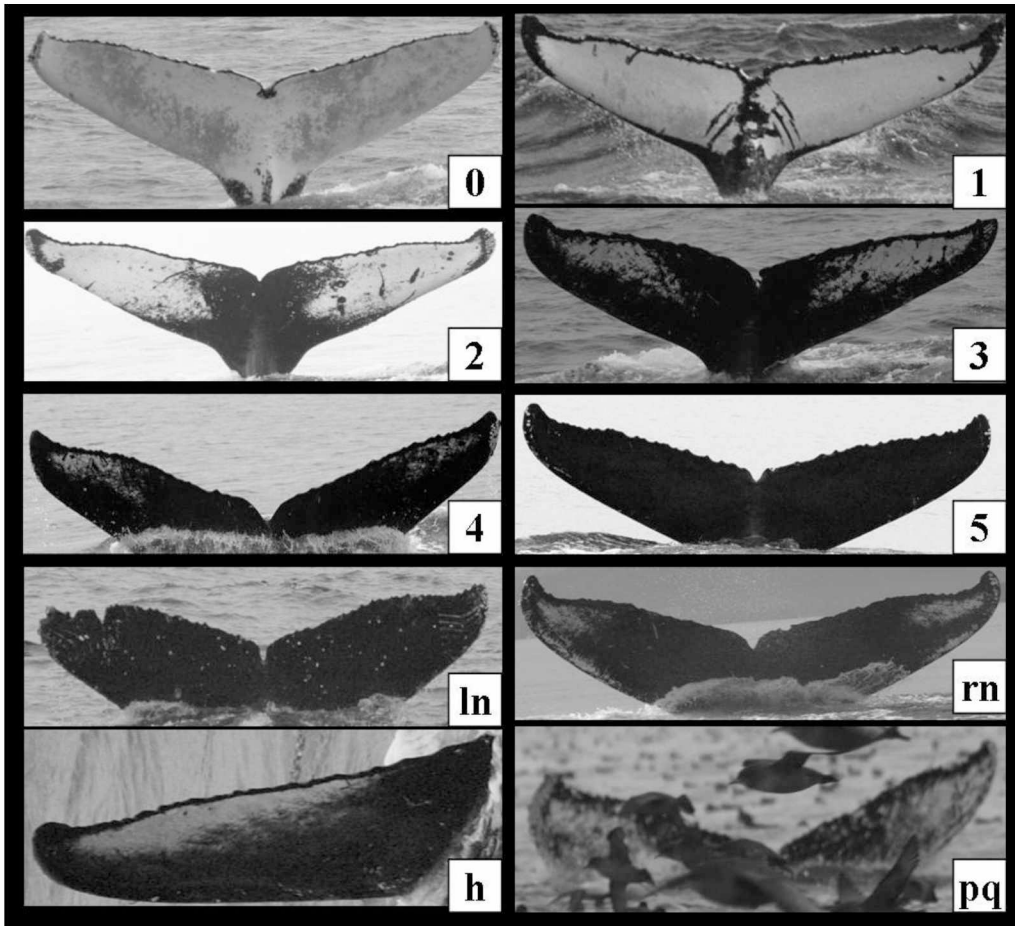


Figure 1.3. Examples of black and white identification photographs of humpback whale flukes with their correct categories. 0 (100% white fluke), 3 (50% white fluke), 5 (100% black fluke), left notch (ln), right notch (rn), half fluke (h), poor quality photo (pq).

All images were processed and organized by a single expert operator (HR), with confirmation of questionable matches by another experienced individual. Each photograph was then compared one by one with all other photos to identify matches (resights) of the same individual. Positive resights were made when photographs showed two or more of the following characteristics: white and black pattern on ventral surface of the fluke was the same; the trailing edge appeared to be the same, and/or obvious marks such as scratches, rake marks, nicks, holes were found in the same spot. When an individual was resighted, the ‘best’ photograph of that individual was marked so it was clear that there were other photos available. When all matches were found for a particular whale, the individual was given a unique identification (ID) number. After

photos had been examined for matches, the Eastern Aleutian catalogue was finalized containing 802 fluke photographs from all six years of sampling and submitted to North Gulf Oceanic Society for archiving.

Fluke distinctiveness ratings, an indication of the uniqueness of the color pattern, degree of scarring, and serrations of the trailing edge were then determined for the best picture of each whale in the Eastern Aleutian catalog. Distinctiveness ratings were low (1), medium (2), or high (3) based on the individual flukes' trailing edge (presence of one or more notches), pattern (identifiable scars), color type, and overall distinctiveness (Figure 1.4, (McSweeney *et al.* 2007). See Appendix A1.1 for a list of all photographic category codes and their descriptions. All individual whale sighting data were compiled into an excel spreadsheet (Appendix A1.2).

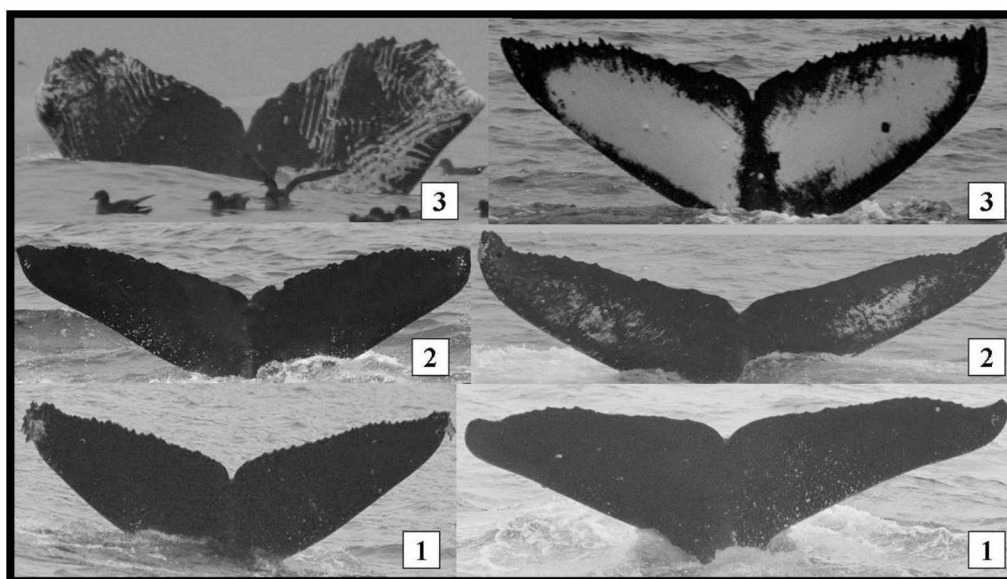


Figure 1.4. Humpback whale fluke distinctiveness ratings. 3 (high), 2 (medium), 1 (low).

1.3.5 Data Analyses

To determine the degree of site fidelity within the study area two different sighting matrices were constructed: 2001-2006, and 2003-2006 (Straley 1994). Each sighting matrix was developed based on what year an individual/s was *newly* 'captured' or photographed and when that same individual/s was recaptured (Table 1.5). The first

column represents the ‘Time of Last Capture’, the second column the ‘Time of Recapture’, and the third column the ‘Total Number of Whales’ or the ‘Sum of Newly Captured’ individuals. The last row is the total number of recaptured individuals. This percentage is calculated by dividing the total ‘Number of Recaptured’ individuals by the total number of ‘Newly Captured’ individuals and then multiplying it by 100. Site fidelity definitions and percentages from other published studies were compared with my results to determine the degree of site fidelity in my study area.

Table 1.5. Sighting matrix for an example study area.

Time of Last Capture	Time of Recapture				Total # Whales
	2001	2002	2003	2004	
2001	0	0	2	1	
2002	0	1	1	1	
2003	0	2	10	10	
Recaptured	0	3	13	12	28
Newly Captured	3	20	10	15	48
Total Captured	3	23	23	27	76

To estimate total population size, the Huggins full closed capture with heterogeneity model in Program MARK was used (White and Burnham 1999). Four total groups were created representing the four study years (2003, 2004, 2005, and 2006) and four months within each year were represented (June, July, August, September). An encounter history was developed for each whale for all months and years (Appendix A1.3). One means that the animal was present, zero that it was absent but that a survey was conducted that month, and a “dot” for a month in which no survey took place. 011. represents the 2003 encounter history of whale 3103 seen in the months of July and August but not looked for in the month of September. I assumed any behavioral effects to be negligible over time as measuring this would be beyond the scope of this study. The fluke distinctiveness covariate was added into the encounter history when testing for its fit to the most parsimonious model. An example of a sighting history with fluke distinctiveness added would be: 1001 0100 3. Recall that 3 represents a highly distinctive fluke (see Appendix A1.3 for more detailed explanation).

Estimates of the total population size of whales for each year (\hat{N}) were derived parameters from the Huggins model. The 95% confidence intervals for the estimates were determined and the minimum and maximum numbers of whales in the study area were reported for each year. Biologically reasonable models created *a priori* included time variation (t) and heterogeneity variation (h). I used a survey effort covariate (e) to model the time variation caused by different numbers of survey days per month throughout the study. The relationship between fluke distinctiveness and capture probability was investigated by using the distinctiveness code as a covariate for each individual.

Program MARK ranked the models that included time-specific changes in capture probabilities during the year, unequal effort, and individual heterogeneity. Variability associated with time due to weather changes and differences in sampling times between days and years was not measured. To determine the model with the best fit with fewest parameters, the adjusted Akaike's Information Criterion (AIC_c) and the AIC_c weights were used. The model with the lowest AIC_c score was the model considered to best explain the variation in the data while using the fewest parameters, therefore, the most parsimonious (Burnham and Anderson 2002). The ΔAIC_c value (the difference in the value of the AIC from the model with the lowest AIC), the number of estimated parameters, and the model deviance was used to compare overall model support. Under the Anderson and Burnham model selection criteria, when the difference in ΔAIC_c between two models is <2 , then both models have approximately equal weight in the data (Burnham and Anderson 2002). Several different variations of the data were analyzed in Program MARK (Table 1.6).

Table 1.6. Model and data variations used in Program MARK to estimate the number of humpback whales in the study area in different time periods.

Years Used	Months	Model Type
2001-2006	June-September	Robust Closed Capture
2001-2006	July-August	Huggins full closed capture with heterogeneity
2002-2006	July-August	Huggins full closed capture with heterogeneity
2003-2006	July-August	Huggins full closed capture with heterogeneity
2003-2006	June-September	Huggins full closed capture with heterogeneity dot model
2001-2006	June-September	Huggins full closed capture with heterogeneity dot model

1.4 RESULTS

This study of the Eastern Aleutian feeding area yielded 1,985 photographs of identifiable flukes representing 802 individuals. These were collected by four different research groups during the summers of 2001 through 2006.

1.4.1 Survey Effort and Site Fidelity

Survey effort (boat days) differed by both year and group, with the majority of effort concentrated during 2004 and 2005 (Table 1.4). A total of 129 boat days yielded 1,062 sightings with 802 individual whales photographed (Table 1.7). Most sightings were in July and August: August with 410 sightings (approximately 39% of all sightings), July with 329 sightings (31%). September had 235 sightings (22%) and June had 88 sightings (8%) (Figure 1.5).

Table 1.7. Number of humpback whale sightings and boat days by year of the study.

	2001	2002	2003	2004	2005	2006
boat days	1	10	16	38	51	13
number of sightings	7	50	126	288	451	140
sightings per boat day	7	5	8	8	9	11

The number of individual whales sighted (or total captured) during a year ranged from seven individuals in 2001 to 379 individuals in 2005 (Table 1.7) and 116 individuals in 2003 to 379 in 2005. Using all years, 23% of the whales were recaptured (Table 1.8); using only 2003-2006 data, 24% were recaptured (Table 1.9). One individual whale was

present every year from 2003 through 2006. Ten individual whales were present three out of the four years, 15 animals were present two years, and 642 animals were seen during only one year (Table 1.10).

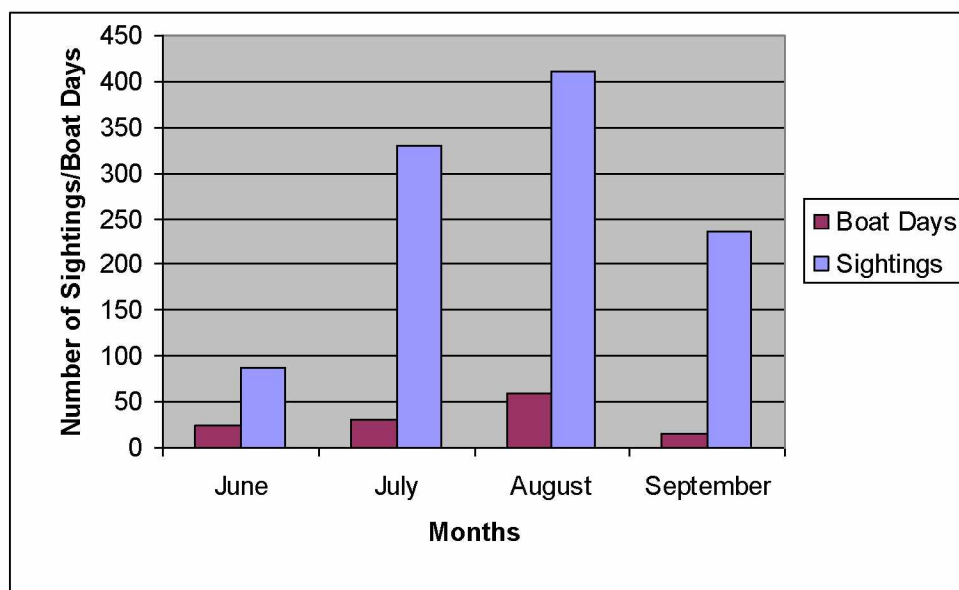


Figure 1.5. Total number of humpback whale sightings and boat days by month. These occur over a five year period (2001-2006) in the Eastern Aleutian study area.

Table 1.8. Humpback whale sighting matrix for the Eastern Aleutian study area, 2001-2006.

Time of Last Capture	Time of Recapture:						Total # Whales (sum newly captured) minimal estimate
	2001	2002	2003	2004	2005	2006	
2001	0	0	2	0	0	1	
2002	0	0	3	5	11	3	
2003	0	0	0	16	34	10	
2004	0	0	0	0	50	17	
2005	0	0	0	0	0	29	
Recaptured	0	0	5	21	95	60	181
Newly Captured	7	50	111	257	284	77	786
Total Captured	7	50	116	278	379	137	967
Total % Recaptured	23%						

Table 1.9. Humpback whale sighting matrix for the Eastern Aleutian study area, 2003-2006.

Time of Last Capture	Time of Recapture:				Total # Whales (sum newly captured) minimal estimate
	2003	2004	2005	2006	
2003	0	21	45	14	
2004	0	0	50	17	
2005	0	0	0	29	
Recaptured	0	21	95	60	176
Newly Captured	116	257	284	77	734
Total Captured	116	278	379	137	910
Total % Recaptured	24%				

Table 1.10. Number and percentage of individual humpback whales seen by year during annual surveys, 2003-2006.

	Number of Individual Whales	Percent Whales Seen
Present One Year	642	83
Present Two Years	112	14
Present Three Years	10	2
Present Four Years	1	<1

1.4.2 Numbers of Whales Estimated with Mark-Recapture

Using the Huggins full closed capture model with heterogeneity (behavioral variation) and the covariate of fluke distinctiveness (FLDI) in Program MARK, the numbers of humpback whales using the study area each year were estimated (Figure 1.6). Two models were supported by the 2003-2006 data as indicated by the ΔAIC_c (Akaike's Information Criterion) values <2 (Table 1.11) and having the highest proportion of the model weight making these models strongest. Despite having the best ΔAIC_c , the heterogeneity model was not used. With heterogeneity included, the model is over parameterized and therefore the point estimates and confidence intervals are unrealistic (Table 1.12). This held true for all other models with heterogeneity. Capture probabilities for years 2003 to 2006 were influenced by fluke distinctiveness. Model (te with FLDI) with nine parameters was the most parsimonious model (Table 1.11). The minimum population estimate provided using the Huggins closed capture model was 507 animals in 2003 with confidence limits of 309 and 911. The maximum population estimate provided

was 1570 animals in 2004 with confidence limits of 1053 and 2430 (Table 1.13 and Figure 1.6).

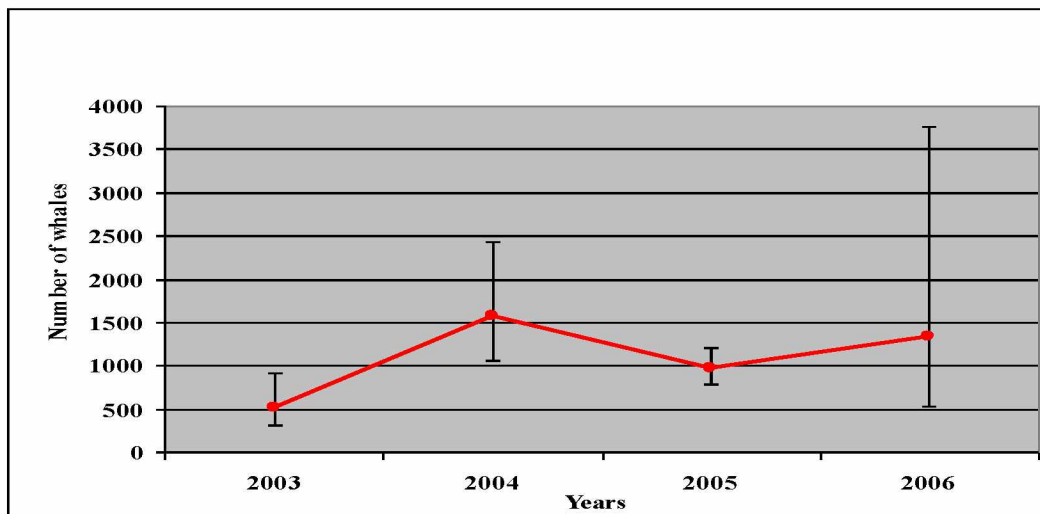


Figure 1.6. Eastern Aleutian humpback whale population estimates, 2003-2006. Estimates obtained using the Huggins closed capture model with heterogeneity from Program MARK. 95% confidence intervals are shown.

Table 1.11. Performance of different models obtained using Program MARK.

Model	AIC _c	ΔAIC _c	AIC _c Weight	Model Likelihood	# Parameters	Deviance
1. M(hte with fldi)	3982.893	0.00	0.54069	1.0000	11.000	3960.820
2. M(te with fldi)	3983.248	0.35	0.45296	0.8377	9.0000	3965.197
3. M(te)	3992.225	9.33	0.00509	0.0094	8.0000	3976.185
4. M(hte)	3995.008	12.11	0.00127	0.0023	11.000	3972.934
5. M(he with fldi)	4075.516	92.62	0.00000	0.0000	9.0000	4057.466
6. M(e)	4082.004	99.11	0.00000	0.0000	5.0000	4071.987
7. M(he)	4082.004	104.54	0.00000	0.0000	9.0000	4069.386
8. M(t with fldi)	4116.992	134.10	0.00000	0.0000	8.0000	4100.952
9. M(ht with fldi)	4117.831	134.94	0.00000	0.0000	10.000	4097.770
10. M(t)	4125.841	142.95	0.00000	0.0000	7.0000	4111.810
11. M(ht)	4128.079	145.19	0.00000	0.0000	9.0000	4110.029
12. M(h with fldi)	4313.825	330.93	0.00000	0.0000	7.0000	4299.794
13. M(h)	4325.354	342.46	0.00000	0.0000	7.0000	4311.323

^a Example definition of notation for model 1: M=model, h=heterogeneity, t=month, e=survey effort in days, fldi= fluke distinctiveness covariate.

Table 1.12. Estimates of Derived Parameters for the model including heterogeneity, time, effort, and covariate of fluke distinctiveness, M(hte with fldi).

Year	Number of Whales	Standard Error	Lower 95% CI	Upper 95% CI
2003	1144567	55864392	4956.31	0.27E+009
2004	1667	389.12	1087.97	2657.46
2005	3243164	0.16E+009	14094.06	0.77E+009
2006	1421	790.23	560.24	4037.11

Table 1.13. Estimates of Derived Parameters for the model including time, effort, and covariate of fluke distinctiveness, M(te with fldi).

Year	Number of Whales	Standard Error	Lower 95% CI	Upper 95% CI
2003	507	146.31	308.68	911.23
2004	1570	342.25	1053.26	2429.73
2005	961	104.54	790.32	1205.14
2006	1340	734.08	536.83	3761.68

1.5 DISCUSSION

1.5.1 Site Fidelity

Site fidelity for the purpose of this study, is defined as resightings of a whale returning to the same summer feeding area over time. Site fidelity in most animals is related to territory, nest or mate defense (Burrows *et al.* 2004), predictably located food resources (Hastie *et al.* 2004), or past reproductive success (Switzer 1993). For humpback whales in the North Pacific, site fidelity is “strong” at both the breeding and feeding areas (Calambokidis *et al.* 2008). Humpback whales are known to feed in several different areas in the North Pacific (Calambokidis *et al.* 1996). In particular, humpback whale aggregations have been identified north of Unalaska Island during ship surveys and near Akutan, indicating that humpbacks are using the same areas that were whaling grounds 50 years ago (Waite *et al.* 1999).

In this study and other studies of humpback whales, site fidelity was estimated based on recapture of known individuals. Site fidelity was considered to be “high” in southeastern Alaska where of 326 photo-identified whales, 47% were sighted in more than one of the five study years (Baker *et al.* 1986). Site fidelity was also considered to be ‘high’ for humpback whales near Kodiak Island when 31 whales were sighted in 2001 and nine

(29%) were resighted the following year (Witteveen *et al.* 2007) (Table 1.14). Site fidelity has been reported for whales on their summer feeding grounds in Prince William Sound (Hall 1979, Matkin and Matkin 1981) and other parts of the Gulf of Alaska (Rice and Wolman 1982), however, no percentages or degree of site fidelity were specified. Table 1.14 shows clearly the inconsistency of definition of site fidelity. Studies may determine that site fidelity exists but not report at what level or how it was calculated. These inconsistencies complicate how to define, interpret, and compare site fidelity percentages to other published marine mammal studies.

In this study, site fidelity from 2003-2006 was calculated to be 24% and 23% for the entire period 2001-2006. When comparing percentages from this study with those in Table 1.14, the Eastern Aleutian humpback whales exhibit moderate site fidelity on their summer feeding grounds, although because of inconsistent methodologies the figures are not directly comparable. To create comparable indices of site fidelity I recommend that studies report the percentage of resightings, the actual number of individuals and resights, and the number of years of the study.

Table 1.14. Published humpback whale site fidelity percentages and their descriptions.

Area	Published Site Fidelity %	Description	Source, Year
Hawaii	13.7%	'Relatively' LOW	(Baker <i>et al.</i> 1986)
Kodiak	29.0%	HIGH	(Witteveen <i>et al.</i> 2007)
SEAK	47.2%	HIGH	(Baker <i>et al.</i> 1986)
Gulf of Maine	73.2%	STRONG	(Clapham <i>et al.</i> 1993)
Eastern Aleutians	23.0%	MODERATE	this study

There are a number of reasons that the measurement of site fidelity in the Eastern Aleutians might be biased low. The majority of data used in this analysis were taken from a study, SPLASH, that was organized to answer North Pacific basin-wide questions not area-specific, small-scale questions such as the ones asked in my study. Effort and coverage in the Eastern Aleutians varied among months and years. Two years out of the five had dedicated surveys through SPLASH and therefore had more research groups and boats out searching and collecting data and covering more area. When sampling an area

with such a large number of whales, it is likely that a high proportion of whales were missed during sampling. Frequently only one boat was trying to capture over one hundred humpback whales in these feeding aggregations, resulting in a low recapture rate and therefore a lower apparent site fidelity percentage.

The lower rate of site fidelity in the Eastern Aleutians may be influenced by patterns of use. The area may not be the final feeding destination of the whales, but merely a temporary or stop-over feeding ground on the way to another feeding area. Despite six years of data collection by four different groups, it is possible that humpback whales may be feeding in regions that are unknown or unsampled. Only five animals from the Bering Sea and Eastern Aleutians showed within-season interchange with neighboring known feeding areas of the Shumagin and Kodiak Islands (Calambokidis *et al.* 2008). This should lead us to question where else these animals may be going in the summer. Lack of survey effort in the Bering Sea and Bristol Bay region may have resulted in the lack of discovery of other feeding areas used by the whales identified in this study (Figure 1.7).

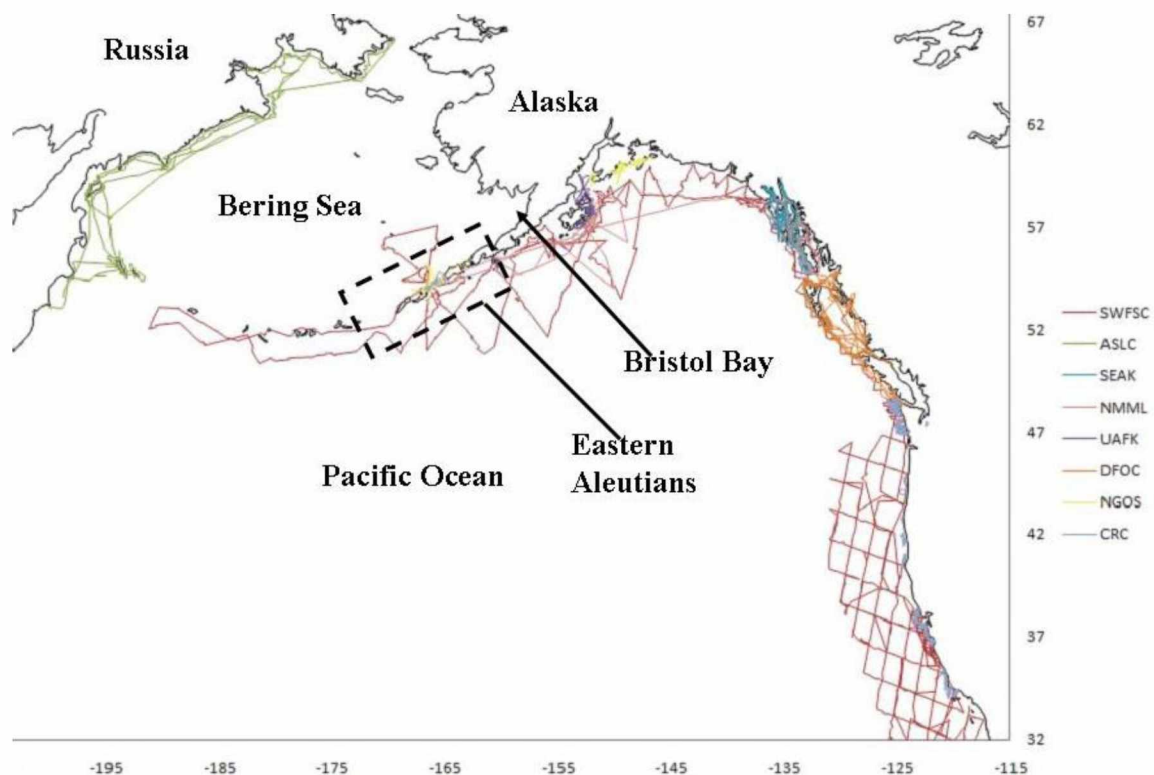


Figure 1.7. Survey track lines and effort during SPLASH, 2004-2005. Figure taken from SPLASH contract report (Calambokidis *et al.* 2008).

The animals that utilize the Eastern Aleutian area may or may not make up a distinct feeding ground separate from neighboring Kodiak, Shumagin, and Western Aleutian humpbacks. Site fidelity is one line of evidence used to determine if a discrete summer feeding area exists; genetics and stable isotope ratios are others. A resighting rate of 23.0% for animals across all years in this study is moderate when compared with other areas, but draws us to investigate the potential of the Eastern Aleutian whales being ‘distinct’ by exploring other markers such as genetics or stable isotope ratios of whales. Haplotype information obtained from tissue samples can supplement photo-identification findings and give insight into the stock structure of humpback whales (Medrano-Gonzalez *et al.* 1995). Comparing haplogroups among neighboring feeding regions using mtDNA is a tool that might be used to examine site fidelity and help define the boundaries of humpback whale feeding aggregations (Baker and Steel, unpublished data).

It is important to investigate the haplotypes of the Eastern Aleutian humpback whales in this study (n=92) with the following neighboring haplotypes from the SPLASH study: the Eastern Aleutian whales (n=38), and the Kodiak whales (n=175) (Baker and Steel, unpublished data) to speculate if the Eastern Aleutians can be considered a distinct feeding aggregation. Note that all of these haplotype data are from SPLASH, but grouped differently. SPLASH separates out the Eastern Aleutians and the Bering Sea into two different groups. The Eastern Aleutians are defined in this study using a boundary of latitude and longitude that overlaps both of the SPLASH defined areas and will be referred to as EA. Therefore, this study may be more representative of the true Eastern Aleutian whales.

In SPLASH, the western (Kodiak, KOD) and northern Gulf of Alaska (Prince William Sound, PWS) are lumped into one group called Gulf of Alaska (GOA) (Calambokidis *et al.* 2008). These two areas were found to exhibit clear differences during post-SPLASH regional analyses (Witteveen, unpublished data). Humpback whales in the EA study area are represented by nine mtDNA haplotypes and whales in KOD are represented by 12 mtDNA haplotypes (Figure 1.8, Table 1.15) (Witteveen, unpublished data). KOD and EA differed by seven haplotypes and overlapped by seven haplotypes. These results may suggest that the EA and KOD may be part of the same feeding aggregation. However, when comparing KOD and EA with Southeast Alaska (SEAK) only two haplotypes overlapped and all others were different (Figure 1.8, Table 1.15). This difference indicates that there is a transition somewhere in between these areas, which for haplotypes reflect two feeding aggregations.

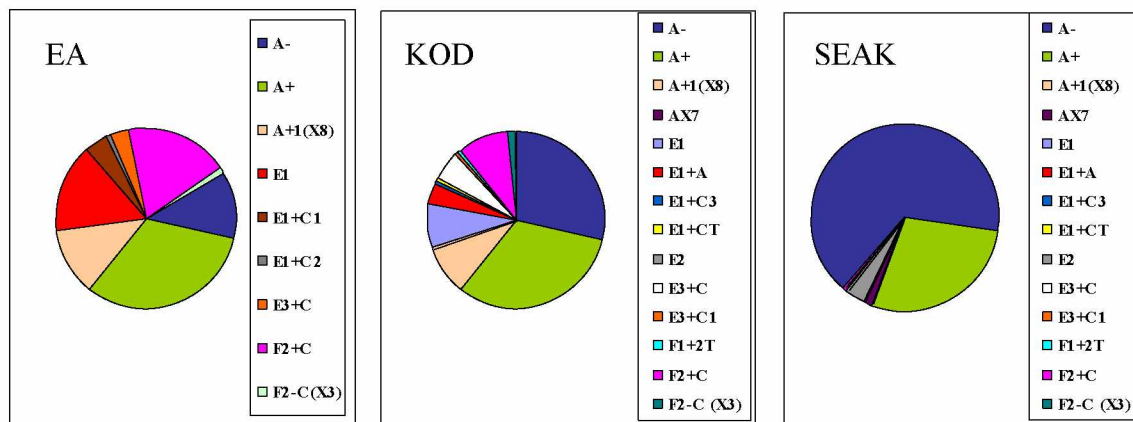


Figure 1.8. Eastern Aleutian (EA), Kodiak (KOD), and Southeast Alaska (SEAK) haplogroups and their representative mtDNA haplotypes (Witteveen, unpublished data).

Table 1.15. Percentages of mtDNA haplogroups for humpback whales found in the Eastern Aleutian Islands (EA), Kodiak (KOD), and Southeast Alaska (SEAK) (Witteveen, unpublished data).

	n	A-	A+	A+1(X8)	AX7	E1	E1+A	E1+C1	E1+C2
EA	92	12	32	12		16		4	1
KOD	175	28	31	9		8	4		
SEAK	213	67	28		1				
	n	E1+C3	E1+CT	E2	E3+C	E3+C1	F1+2T	F2+C	F2-C(X3)
EA	92				3			19	1
KOD	175	1	1		5	1	1	9	2
SEAK	213			4				0	

Movements over distances of less than 100 km and changes in distribution of animals in response to shifting prey types have been documented in other whales (Darling 1984). In my study area, humpback whales appeared to generally move west along the Eastern Aleutians as the summer progressed. This movement may be dependent on prey availability; that and its relation to the unique oceanographic features of the Eastern Aleutians will be discussed in the following chapter.

1.5.2 Mark-Recapture Population Estimate

The abundance point estimate reported here, nearly 1,570 whales, represents only a small part of the estimated 6,000-14,000 whales for the Bering Sea and Aleutian Islands region

(Calambokidis *et al.* 2008). However, it is similar to the Southeast Alaska (SEAK) summer feeding grounds average estimate of 790 to 1000 animals (Straley *et al.* 2008).

The small sample sizes and large confidence intervals result in no significant change in numbers from 2003 to 2006 within our study area. The overall SPLASH estimate is a dramatic increase in abundance from other postwhaling estimates for the North Pacific and has suggested a 4.9% annual increase (Calambokidis *et al.* 2008). A longer term dataset in the Eastern Aleutians would be required to monitor trends and detect a change in population size.

1.5.3 Assumptions of Mark-Recapture Studies

Closed mark–recapture models used to estimate abundance assume that: (1) spatial and temporal coverage remain consistent; (2) no emigration/immigration in the study area takes place, (3) markings do not change between years (4) all marks are correctly reported upon recapture and (5) the behavior of the animals does not change between capture sessions. While the estimates reported in this chapter are valid, it is important in all capture–recapture studies to assess the degree of violation of the model assumptions, and its effect on the usefulness of the results. These violations will be listed and discussed in order of importance to this study.

(1) Spatial and temporal coverage remain consistent

In this study, both spatial and temporal coverage were variable among years since much of it was opportunistic. Only during SPLASH years was the Eastern Aleutian study area thoroughly covered. The sampling strategy employed over the six years varied among groups that provided photographs for the current study. The resulting heterogeneity in capture probability would lead to a negative bias in abundance estimates (Seber 1982, Pollock *et al.* 1990, Straley 1994).

(2) No emigration/immigration in the study area takes place

This is an assumption specific to closed models, however it is impossible to control. Of course whales migrated outside the study area between years leading to a negative bias in the abundance estimates. With the SPLASH-estimated population rate increase of 4.9%, it is likely that some births occurred in this population which is a source of immigration; the number of deaths is unknown which is a source of emigration. These sources of violations could lead to either a positive or negative bias in the abundance estimates with the direction and magnitude of the bias being determined by actual pattern of the population change.

(3) Markings do not change between years

This assumption is violated because the distinguishing markings on the flukes of a young animal are not fully developed and changes may have occurred over the study duration to such an extent that some resightings may have been missed. In this study, calf sightings were not flagged so adult and calf sightings could not be differentiated. The flukes of some calves can change naturally over time (Straley 1994). This will cause the population size to be overestimated.

(4) All marks are correctly reported upon capture

Inadequate quality screening of photos can result in violation of this assumption and negatively bias the abundance estimate. If photos are included in a sample on the basis of how identifiable they are rather than photographic quality, well marked whales will be more likely to be included in a sample (Hammond 1990). In this study, all poor photos were eliminated and only good and fair quality photos were used to meet this assumption. The relationship between fluke distinctiveness and capture probability was investigated and found to be important in previous studies (Darling and McSweeney 1985, McSweeney *et al.* 2007) and I also found that the fluke distinctiveness covariate was included in both of the top models. This is an important factor that should be addressed as a covariate in mark/recapture analysis.

(5) The behavior of the animal does not change between capture sessions. Behavior was not recorded during this study and therefore cannot be quantified or controlled for in the analysis but differences in behavior are well known and can affect model results leading to a negative bias in the abundance estimate (Hammond 1986). Behavior that might alter an animal's chance of being seen during a boat survey or being successfully photo-identified if seen include how much of their flukes are presented upon diving (e.g., younger animals (recall that calves were not excluded) do not show flukes as often as adult animals); the depth of their dive; or the presence of a boat that can alter their behavior. Other potential sources of heterogeneity include sex-related biases and geographic stratification in range of the population (Cerchio *et al.* 1998).

1.6 CONCLUSIONS

1.6.1 Site Fidelity

The population structure of humpback whales in the Eastern Aleutian Islands is complex and the work presented here is only an initial assessment using limited survey data. The overall goal of calculating and defining site fidelity is to understand to what degree animals are using an area and how this area compares to other known areas. Site fidelity also helps to provide evidence used to determine if a discrete summer feeding area exists in the Eastern Aleutians study area. Humpback whales exhibited a 22 percent return rate to the study area with 181 whales out of 802 total whales seen in more than one year during the six year study. This demonstrates a moderate site fidelity rate signifying a reliable and important habitat for humpback whale which return to feed in this area. Comparisons between site fidelity rates in different areas were difficult to make due to the lack of standard definitions and reported site fidelity percentages. This supports the importance of clearly defining, at minimum, the following details related to site fidelity results: the number of study years, the total number of individuals and resights, and the percentage of resightings.

When comparing haplotypes with neighboring Kodiak area, half of the haplotypes overlapped suggesting that the Eastern Aleutian and Kodiak whales *may* be part of the same feeding aggregation. SPLASH found only five matches between 2004 and 2005 that overlapped between their Bering Sea animals and those from the Kodiak region (Calambokidis *et al.* 2008). I suggest that both the Pacific and Bering Sea waters further west of the Eastern Aleutians be studied more thoroughly as well as the waters of Bristol Bay to the east of my study area. Photo ID catalogs of individuals from the Eastern Aleutians should also be compared with nearby regions.

1.6.2 Population Estimate

Closed models that use data from multiple years have the advantage of a larger sample size, and therefore greater precision over annual models; however, they are more subject to the effects of closure violations and may be less accurate (Cerchio *et al.* 1998). The proportion of resightings across years is a result of both the abundance of whales in an area and sample size as well as the underlying true site fidelity. It is also important that other population models (including open population models) be used to look at not only survival, but how the overall population estimate compares to that of the individual years given by using the Huggins closed population model in this study. Fluke distinctiveness should be included in all future mark-recapture analyses because it was consistently found to explain variation in the data.

Overall this study showed that despite humpback whales being one of the most studied baleen whales, regional details are still minimal. A more coordinated effort will be needed to clarify to what extent these animals use the Eastern Aleutians Islands. While SPLASH was an extensive study that collected data on both feeding and breeding grounds across several years, data did suggest an unknown wintering area that has yet to be discovered (Calambokidis *et al.* 2008). Whales from the feeding grounds in the Aleutians and Bering Sea were underrepresented on all breeding grounds and therefore must be migrating to an unsampled area in the winter (Calambokidis *et al.* 2008). This Eastern Aleutian Island study provides a place to begin investigating the potential of this

unknown wintering area by providing baseline information on a population of whales that are mostly unaccounted for in the winter breeding season.

The Eastern Aleutians region is not only a summer feeding area for humpback whales, but is important in a larger context of whale habitat because of its vulnerability to effects of fishing, shipping, and pollution. Shipping most likely will increase in these areas with global climate change. Baseline information about humpback whales and their dependence on this area should be documented and well understood before these changes occur.

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APPENDIX A

A1.1. Photographic category codes and descriptions used in the photographic identification analysis section.

Photograph Category Code	Description
0	Approximately 100% white fluke
1	Approximately 83% white fluke
2	Approximately 67% white fluke
3	Approximately 50% white fluke
4	Approximately 25% white fluke
5	Approximately 100% black fluke
ln	Left side of fluke has noticeable notch
rn	Right side of fluke has noticeable notch
h	Only half of fluke is visible
pq	Unusable photograph
G	Good quality photograph
F	Fair quality photograph
P	Poor quality photograph
FLDI 1	Fluke distinctiveness is LOW
FLDI 2	Fluke distinctiveness is MODERATE
FLDI 3	Fluke distinctiveness is HIGH

**CHAPTER 2 HUMPBACK WHALE (*Megaptera novaeangliae*) HABITAT USE IN
THE EASTERN ALEUTIAN ISLANDS WITH RELATION TO
OCEANOGRAPHIC FEATURES**

2.1 ABSTRACT

In summer, humpback whales (*Megaptera novaeangliae*) of the North Pacific stock feed in nearshore waters off Alaska. They have been studied since the 1970s in southeastern Alaska and Prince William Sound but little work had been done in other areas, like the Eastern Aleutian Islands, until recently. Historically, prime whaling grounds in the North Pacific have corresponded with oceanic features. Stable ocean features (depth and slope) predictably influence biological and oceanographic processes such as upwelling, which affect the distribution of prey by concentrating them into dense patches; therefore, these features can be useful indicators of cetacean habitat. My research focused on the nearshore waters of the Bering Sea between Unimak and Samalga Pass with the objectives: 1) To describe the distribution of humpback whales in the study area; and 2) To determine if certain oceanographic features can be used to predict the presence of humpback whales in the study area. In the summers of 2004 through 2005, humpback whale sighting data were collected by four different research groups but none were collected specifically for this study. Common oceanographic habitat parameters (depth, slope, and chlorophyll-a) were used to predict the presence of humpback whales on their Eastern Aleutian feeding grounds. Logistic regression and random forest classification determined that depth and longitude are significant predictors of humpback whale presence. These results support other studies in the Eastern Aleutians and North Pacific and further confirm the importance of oceanographic features in concentrating prey and predicting humpback whale distribution.

2.2 INTRODUCTION

Prime historic whaling grounds in the North Pacific corresponded with oceanic features (Nemoto 1959, Nasu 1966, Nasu 1972). These unchanging features such as bathymetry, depth, and slope predictably influence biological and oceanographic processes such as upwelling (Payne and Heinemann 1993, Baumgartner 1997, Baumgartner *et al.* 2000, Kasamatsu *et al.* 2000, Gregr and Trites 2001, Davis *et al.* 2002, Hamazaki 2002, Ingram and Rogan 2002, Yen *et al.* 2004, Friedlaender *et al.* 2006, Doniol-Valcroze *et al.* 2008). Other oceanographic information collected from the water column or at the sea surface (*i.e.*, temperature, salinity, and chlorophyll), combined with these stable ocean features (Redfern *et al.* 2006) affect the distribution of prey by concentrating them into dense patches (Croxall *et al.* 1985, Vlietstra *et al.* 2005) and therefore can be useful indicators of cetacean habitat. Strong correlations have been found between the presence and abundance of higher trophic level organisms such as marine birds and mammals, and their prey, such as zooplankton or fishes (Schneider and Piatt 1986, Piatt and Methven 1992).

In the North Pacific, migratory baleen whales, including the humpback whale (*Megaptera novaeangliae*), have been found to concentrate in highly productive, cool coastal areas in the Gulf of Alaska (GOA) and Aleutians during their feeding season in the spring and summer (Moore *et al.* 1998, Witteveen *et al.* 2004, Pfister and DeMaster 2006, Zerbini *et al.* 2006). Humpback whales are ‘generalist predators’ and are most often observed feeding on zooplankton and small schooling fishes. Both euphausiids and fish were reported in the stomach content analyses of humpback whales during commercial whaling operations off eastern Kodiak Island (Nemoto 1959, Kawamura 1982). Stable isotope techniques from recent work in Alaska have shown that the proportion of a humpback whale’s diet attributed to fish or zooplankton may vary among regions. Gulf of Alaska (GOA) feeding groups showed the highest trophic levels, suggesting the diets in these regions are higher in fish. In contrast, trophic levels in

Russia and the western Aleutian Islands were the lowest indicating a diet higher in zooplankton (Witteveen, unpublished data).

The Aleutian Islands are connected by passes dominated by strong tidal currents and tidal mixing with a net flow primarily northward (Stabeno *et al.* 2002). These passes are important to Bering Sea and North Pacific biological systems because they contribute to the overall productivity of the system and play a role in structuring the nearshore ecosystem. In the Eastern Aleutians, cetacean distribution is significantly related to distance from the nearest tidal pass (*i.e.*, Unimak or Samalga Passes) as well as with fluorescence in water column and temperature (Byrd *et al.* 2005, Sinclair *et al.* 2005). Fluorescence is a measure of phytoplankton standing stock, similar to chlorophyll-a. Taken from the top 50 m of the water column, these values serve as a proxy of primary productivity (Pegau and Potter 2004). Humpback whale distribution in the Eastern Aleutians near Unimak and Akutan passes has also been linked to the abundance of specific lower trophic level organisms such as neritic copepods (Sinclair *et al.* 2005). In general, humpback whales are common in nearshore, shallow shelf waters and banks (Brueggeman *et al.* 1989, Gregr and Trites 2001) and are often associated with the 50-fathom isobath in both the GOA and Bering Sea (Brueggeman *et al.* 1989, Moore *et al.* 2002).

Humpback whales have been studied since the early 1970s in the nearshore regions of their North Pacific summer feeding grounds in southeastern Alaska and Prince William Sound (Straley 1994). Beginning in 2001, detailed regional research has extended further west to the Shumagin Islands (Witteveen *et al.* 2004) and into the Eastern Aleutians. In 2004, an international North Pacific-wide study called SPLASH (Structure of Populations, Levels of Abundance and Status of Humpbacks) was launched with over 50 collaborating research groups to determine the trends, movements, population structure, and abundance of humpback whales in the North Pacific (Calambokidis *et al.* 2008). Until this time, little was known about humpback whales numbers, site fidelity or

distribution in relation to oceanographic features during the summer months in coastal waters west of the Shumagin Islands into the Eastern Aleutians.

While the Eastern Aleutians account for a relative small percentage of the 18,302 animals (Calambokidis *et al.* 2008) estimated to comprise the overall North Pacific summer feeding population, it represents a predictable and productive habitat. Humpback whales exhibited a 22 percent return rate to the area with 181 whales out of 802 total whales seen in more than one year during the six year study. This demonstrates a moderate site fidelity rate signifying a reliable and important habitat for humpback whales, which return to feed in this area (Riley 2010).

In this study opportunistically collected data from several sources in conjunction with broad-scale surface and oceanographic data were used to examine humpback whale distribution and extend the detailed regional knowledge for the humpback whales found on the nearshore feeding grounds of the coastal Eastern Aleutians. GIS and statistical techniques including logistic regression and random forest analysis were utilized to investigate the following overall objectives for this study:

1. To describe the distribution of humpback whales on the summer feeding grounds in the Eastern Aleutians between Unimak and Samalga Pass in 2004 and 2005;
2. To determine to what extent selected remotely sensed variables can explain the presence of humpback whales seen in the Eastern Aleutians between Unimak and Samalga Pass in the summers of 2004 and 2005

2.3 METHODS

2.3.1 Study Area

The Eastern Aleutian Islands are defined in this study as the islands located between Unimak Pass and Samalga Pass: Unimak, Akun, Akutan, Unalaska, and Umnak. They are located between 54°20'N and 164°55'W and 53°46'N and 169°15'W and are part of a high-latitude island archipelago formed by the peaks of the Aleutian ridge (Logerwell *et al.* 2005). These islands border the Bering Sea to the northwest and the Pacific Ocean to the southeast. The marine ecosystem of the Eastern Aleutians (Unimak to Samalga Pass) is very different from the Central Aleutians region to the west of Samalga Pass (Hunt and Stabeno 2005). The physical and biological characteristics (temperature, salinity, nutrient and chlorophyll concentrations, fish and bird species) and lack of humpback whales beyond Samalga Pass (Hunt and Stabeno 2005) define this region as a natural boundary for this study, which focused on sightings that occurred in the nearshore waters of the Bering Sea and Pacific Ocean (Figure 2.1).

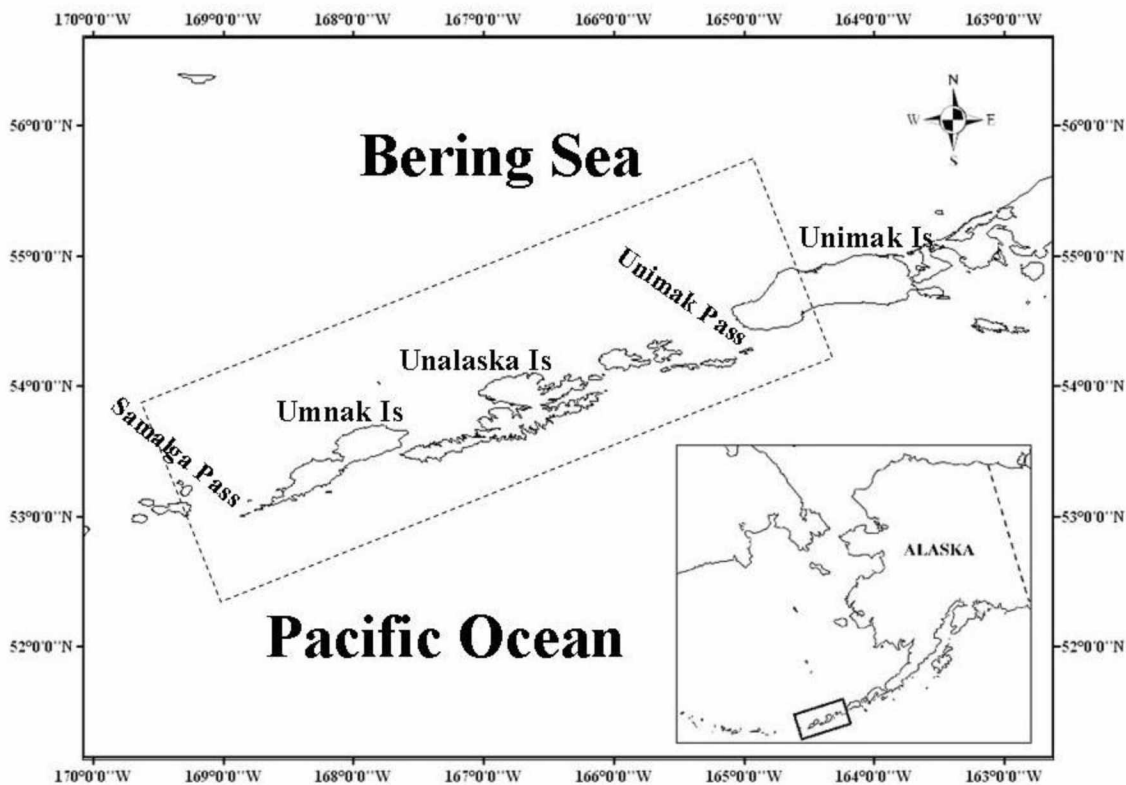


Figure 2.1. Eastern Aleutian study area.

Three major ocean currents dominate the flow in this study area: the Alaska Coastal Current (ACC), the Alaskan Stream (AS), and the Aleutian North Slope Current (ANSC) (Figure 2.2).

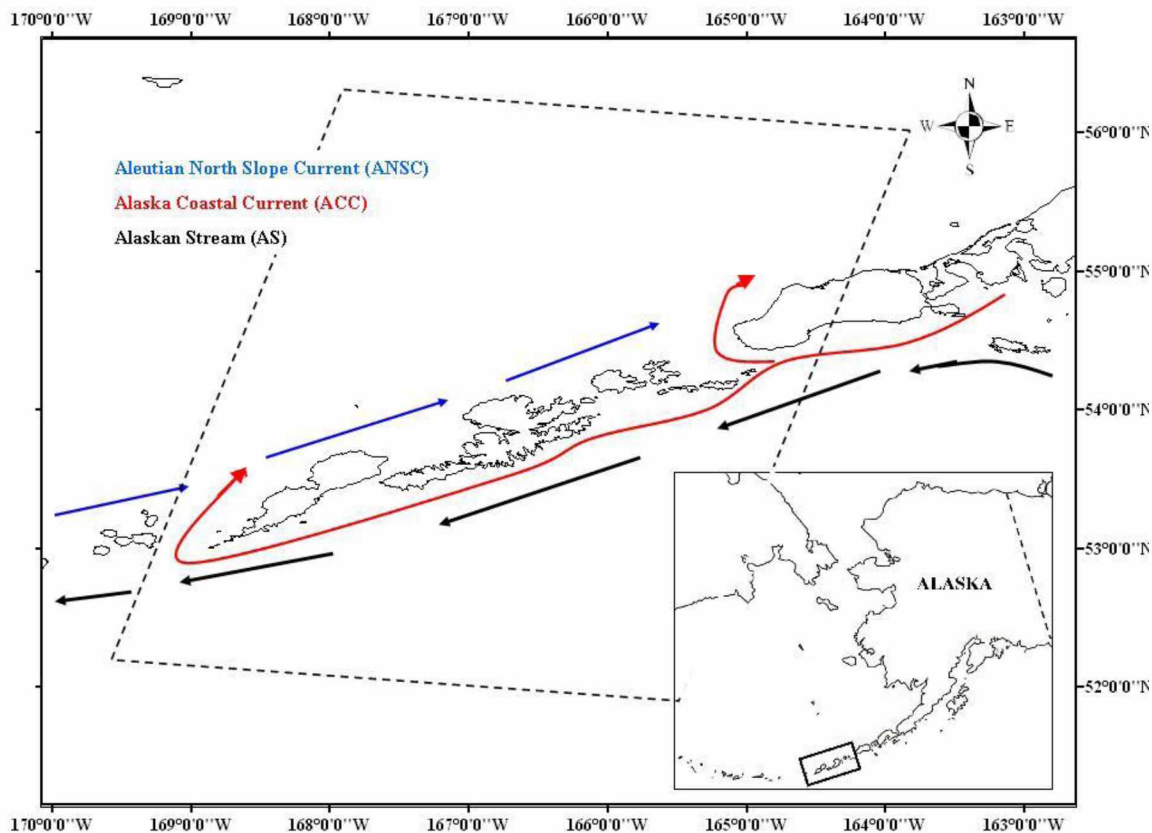


Figure 2.2. Current patterns in the Eastern Aleutians study area.

The ACC is driven by nearshore freshwater discharge and winds from the GOA. It brings low salinity waters into the shallow passes. These interactions bring nutrient-rich waters up to the surface on the northern side of each pass (Royer 1979, Royer *et al.* 1979). The ACC flows southwestward until Unimak Pass where it splits and part flows northward through the pass and part westward along the Pacific side of the Eastern Aleutians until it turns northward at Samalga Pass (Ladd *et al.* 2005a). The AS originates at the beginning of the GOA and flows southwestward along the continental shelf break (Favorite 1974). The stream then moves closer to the Aleutian Islands near Samalga Pass as the shelf narrows. The ANSC flows northeastward along the Aleutian Islands and is formed from portions of the AS that flow northward through the passes. Habitat for many types of marine animals in the Eastern Aleutians, including commercially important species, are influenced by these three currents and the oceanographically

unique Aleutian passes that connect the Bering Sea and the North Pacific Ocean (Ladd *et al.* 2005a, Ladd *et al.* 2005b).

2.3.2 Survey Cruises and Sightings

The Eastern Aleutian study area was surveyed June through September 2004 and 2005 by four collaborating organizations: North Gulf Oceanic Society (NGOS), Southwest Fisheries Science Center (SWFSC), U.S. National Marine Mammal Lab (NMML), and Cascadia Research Collective (CRC) (Table 2.1). For details of the SPLASH protocols see Calambokidis *et al.* (2008).

Table 2.1. Humpback whale data collection by month and organization for the Eastern Aleutians study area during SPLASH, 2004-2005.

Study Group	2004	2005
NGOS	Jun-Sep	Jul-Aug
SWFSC	Aug-Sep	
NMML	Jun-Aug	July-Sep
CRC		Aug-Sep

Six different survey vessels were used by four different research groups. Visual observation techniques varied by vessel, but were done by either one to two observers using a combination of naked eye and 7 x 50 handheld binoculars or an observer team of three people from the flying bridge using two 25 x 150 power binoculars (big eyes) and one 7 x 50 handheld binoculars. Optimum distances for detection of whales therefore varied depending on observation techniques and vessel. Whales were detected visually then approached for identification and data collection. All field data were recorded on individual survey sheets that included the date, research vessel name and crew, effort beginning and end times, and often the weather and sea state conditions. Depending on survey vessel, effort data were logged automatically with an on-board global positioning system (GPS) at various time intervals from every five minutes to once per hour. When a whale was sighted, a sighting form was filled out that included the time of the sighting (start and finish), date, location (latitude and longitude in decimal degrees), number of

animals present, behavior, and age/sex group (if known). Effort is summarized in Table 2.2 by boat-days over both years and months in this study.

Table 2.2. Humpback whale data collection (boat-days) for the Eastern Aleutians study area, 2004-2005. The number of hours in a survey day varied.

	2004	2005	Total surveys by month
June	15	0	15
July	8	9	17
August	10	31	41
September	5	11	16
Total boat-days by year	38	51	89

2.3.3 ArcGIS (Geographic Information System) Mapping

Data were entered into ArcMap Version 9.3 (ESRI 1999-2008) for mapping and some analyses. GIS was used to outline the study area, map survey tracklines, humpback whale sightings, sea floor bathymetry, chlorophyll-a values, and derive sea floor slope. All data and maps were defined in the geographic coordinate system World Geodetic System 1984 and then projected into Alaskan Albers Equal Area Conic using the geographic transformation option five. An Alaska Coastline 1:1,000,000 Digital Chart of the World (DCW) from the Alaska State Geo-Spatial Data Clearinghouse was used as a baseline map. See Appendix B2.1 for more GIS details.

2.3.4 Whale Sighting and GPS data

Sighting and GPS data were displayed as point themes in ArcMAP and converted into tracklines using Hawth's Analysis tool (Beyer 2004). Sightings and tracklines were overlaid on the Alaska Coastline DCW surface map. The 'clip' and 'erase' tools were used to omit data outside the study area. See Appendix B2.1 for more GIS details.

2.3.5 Habitat Data

All habitat data used in this study to model and predict humpback whale distributions were derived from expansive ocean-wide sources including remotely sensed data and bathymetric data. The resolution of these data types restricts the scale at which habitat models can be built but are commonly used because of their ease and low cost (Redfern *et al.* 2006). Remotely sensed data can provide a summarized coverage of broad ocean areas but lack the finer spatial and temporal resolutions of *in situ* data (Redfern *et al.* 2006). Habitat variables considered in the study were: bathymetry (depth), slope, latitude, longitude, and chlorophyll-a concentration.

2.3.5.1 Depth

Bathymetric data (in meters, 0.5 min resolution) were obtained from Alaska Ocean Observing System (AOOS, www.aos.org). These data are described as a Merged Northern Hemisphere GINA Topography and Bathymetry Grid (GINABATHY). See Appendix B2.1 for more GIS details.

2.3.5.2 Slope

Slope was calculated directly from the GINABATHY raster in GIS using the 'slope command' in Spatial Analyst. This command calculates the maximum rate of change in depth (in degrees, 0.5 min resolution) between each cell and its neighbors.

2.3.5.3 Chlorophyll-a

Monthly 'science quality' chlorophyll-a (chl-a) concentrations (in mg m^{-3} , resolution of this dataset is 5.5 km) from Moderate Resolution Imaging Spectroradiometer (MODIS)/Aqua were obtained from NOAA (National Oceanic and Atmospheric Administration) CoastWatch Program and NASA's Goddard Space Flight Center,

OceanColor Web (<http://oceancolor.gsfc.nasa.gov/>) (Figure 2.3). Data are labeled ‘science quality’ for several reasons. Values are reviewed and therefore not available in real time. Values are considered an improved version of the near real-time chlorophyll products available on a monthly scale from MODIS. Data are validated by comparing with *in situ* ocean color measurements from local buoys (NOAA CoastWatch Program and NASA) and are within 40% of *in situ* ocean color measurements. These data are mapped to an equal angle grid of 0.05 degrees latitude by 0.05 degrees longitude using simple arithmetic means to produce composite monthly images. For more details refer to Ocean Color Web. Chl-a rasters were obtained for each of the seven month/year combinations of the study. See Appendix B2.1 for GIS details.

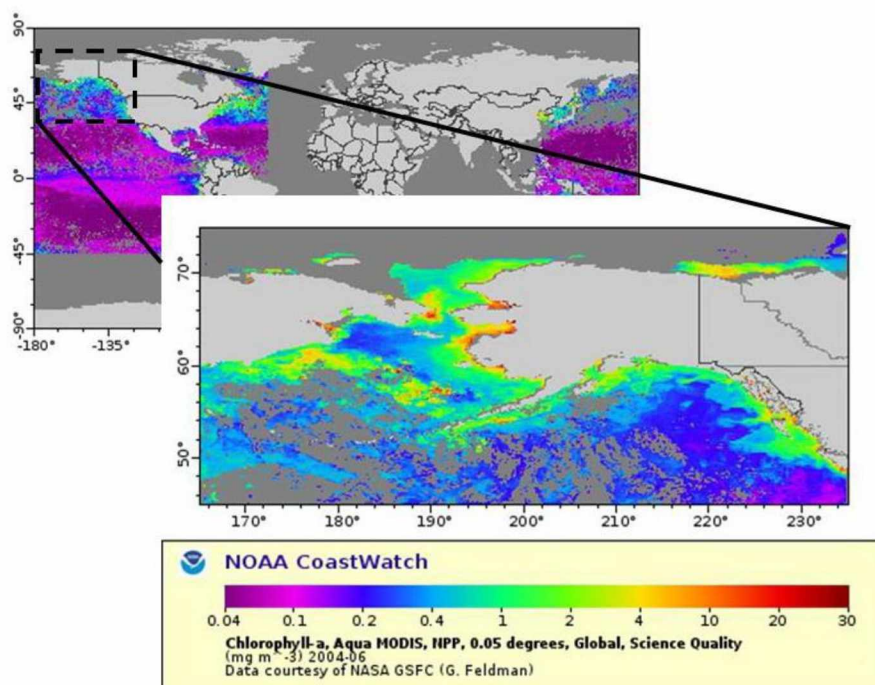


Figure 2.3. These images show how chl-a data for Eastern Aleutian study area are obtained from a global map from NOAA CoastWatch, <http://oceancolor.gsfc.nasa.gov/>.

2.3.6 Data Compilation using ArcGIS

The data were organized by creating new layers for every month over the two surveyed years resulting in seven total layers. Each layer contained the DCW surface map, depth raster, slope raster, appropriate monthly chl-a raster, tracklines and sightings. A new

field called `buffer_dis` was added to the attribute table of each trackline. These field values, in kilometers, were based on the distance at which a whale could have been detected by observers on that particular boat (Table 2.3). The total buffered area was calculated for all tracklines combined and is the total area searched.

Table 2.3. Buffer distance values in km placed around the tracklines of each study group.

Study Group	Buffered Distance (km)
NGOS	4
SWFSC	10
NMML	10
CRC	4

2.3.6.1 Creating Random Points

In order to gather similar remotely sensed data in areas where whales were not seen, random points were created within the searched area. The Hawth's Analysis sampling tool, random point generator (Beyer 2004) was used to generate random points without replacement within every buffered trackline polygon. The unstratified sampling design was used to generate five sets of points: 300 random points, 500 random points, 700 random points, 900 random points, and 1100 random points. Latitude and longitude values were obtained for all points.

2.3.6.2 Extracting All Values

All values from each raster were joined with the appropriate sighting or random point and transferred to .xls files (Appendix B2.2) for input into analysis programs. See Appendix B2.1 for more GIS details.

2.3.7 Data Analyses

2.3.7.1 Cetacean Habitat-use Modeling

Generalized linear models (GLMs) use a link function to limit the dependent or response variable within a specific range. These models include non constant variances into analyses and promote linearity between dependent and independent variables (Redfern *et al.* 2006). Logistic regression is a type of GLM and has been commonly used in habitat and resource selection analyses with the binomial response variable as presence versus absence or used versus unused (Kleinbaum *et al.* 1988, Manly *et al.* 1993, Norcross *et al.* 1999, Hosmer and Lemeshow 2000). Logistic regression also has been used in cetacean habitat-use studies (Moses and Finn 1997, Hamazaki 2002, Baumgartner *et al.* 2003) and allows prediction of a distinct outcome from a set of variables that may be continuous, discrete, dichotomous, or a mix of these (Trexler and Travis 1993). The goal of logistic regression is to find the best-fitting models with the fewest parameters to describe relationships between response and explanatory variables (Hosmer and Lemeshow 2000).

To develop the regression model from these data and therefore predict where a whale might be found, logistic regression analyses were conducted using chl-a, depth, and slope as the continuous, independent variables. These variables have been shown in other studies to be important habitat descriptors for humpback whale distribution because they are related to prey concentration (Gregg and Trites 2001, Hamazaki 2002, Baumgartner *et al.* 2003, Tynan *et al.* 2005, Redfern *et al.* 2006). Humpback whale presence or absence was the binary dependent variable (0 = absence, 1 = presence). Five logistic regression models were formed using R statistical software (R-Development-Core-Team 2004). Models differed by the number of random points used in the response variable (see ‘creating random points’ above). Model results were compared to select which set of random points would be most appropriate for the final model.

Two primary assumptions of logistic regression are that outcomes are both binomially distributed and independent (Cox and Snell 1989). Evaluation of these assumptions includes investigating spatial autocorrelation of the habitat variables (Redfern *et al.* 2006). Interpretation of models is clearer if habitat variables are not highly correlated (Neter *et al.* 1996) therefore correlation between the independent variables was first tested using the ‘cor’ command in R. In ecological data, positive spatial correlation (sightings located close to each other exhibit more similar values than those further apart) is common, violating the independence of observations (Lennon 2000). Ignoring this relationship may lead to the omission of important explanatory variables in model selection (Keitt *et al.* 2002). Spatial autocorrelation of cetacean sightings was tested by plotting the residuals versus latitude and longitude for each model. Spatial autocorrelation was detected. To address this, autocorrelation factors were included in the habitat model in the form of latitude and longitude and a new logistic regression model was analyzed (Redfern *et al.* 2006). Spatial effects were addressed and significant variables were further investigated by Random Forest analysis using R. Random Forest (RF) is a technique that joins classification trees to construct stricter classifications of variables (Cutler *et al.* 2007). The only predictor variables to remain in the model are those that explain some of the changes in the response variable and therefore result in measures of variable importance (Redfern *et al.* 2006, Cutler *et al.* 2007).

Lastly, new confidence intervals were generated to determine significance of the explanatory variables using the backward stepwise ‘nonparametric bootstrap’ method in R. The bootstrap method approximates the sampling distribution by subtracting the original estimates from the generated, bootstrapped values (Manly *et al.* 1993). Bootstrap values were generated by resampling the data 1000 times, allowing repeated values, and re-estimating the parameters.

In summary, the overall flow of methods is best summarized in Figure 2.4.

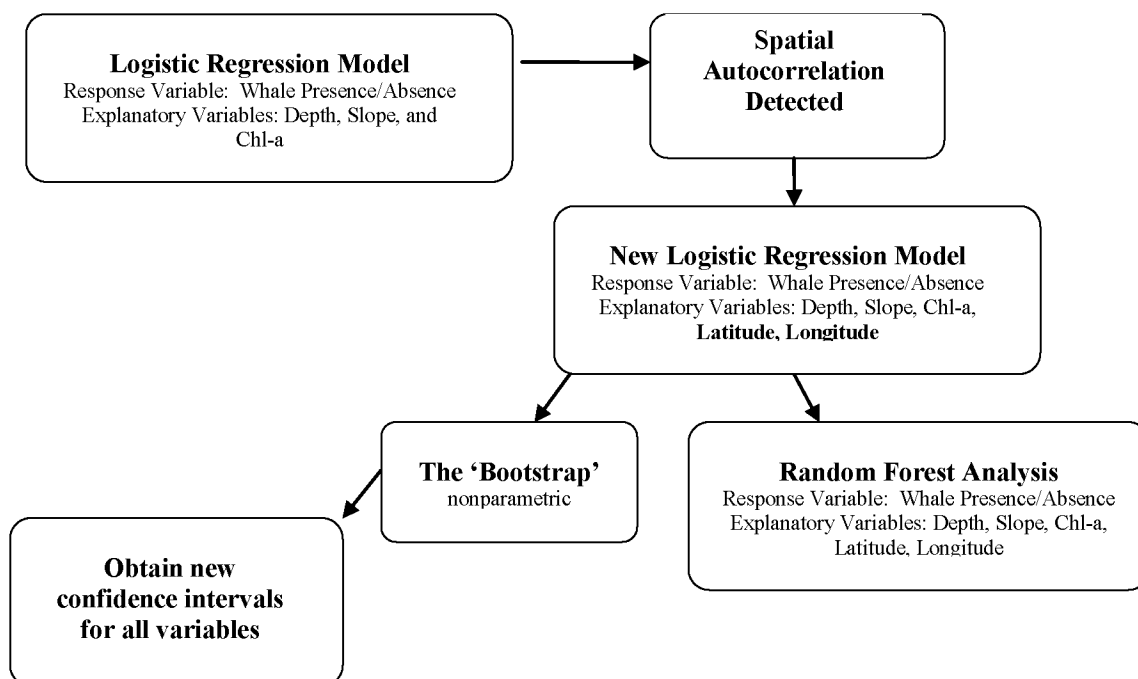


Figure 2.4. Data analysis flow chart. The methodological steps taken in this study for determining which variables (depth, slope, chl-a, lat, and long) predict best where whales are present or absent in the Eastern Aleutian study area.

2.3.7.2 Significance Levels

Although the most common significance level generally reported is $\alpha=0.05$, in this study, several results are considered as significant at $\alpha=0.10$ to account for independence violations in the logistic regression models.

2.4 RESULTS

The total number of humpback whale sightings collected after 89 boat-days in the study area for 2004 and 2005 was 281 (Table 2.2). The total area searched was approximately 5,379 km², which is about 100 square miles more than the size of Delaware (Figure 2.5). The total searched area accounts for about 30 percent of the entire study area.

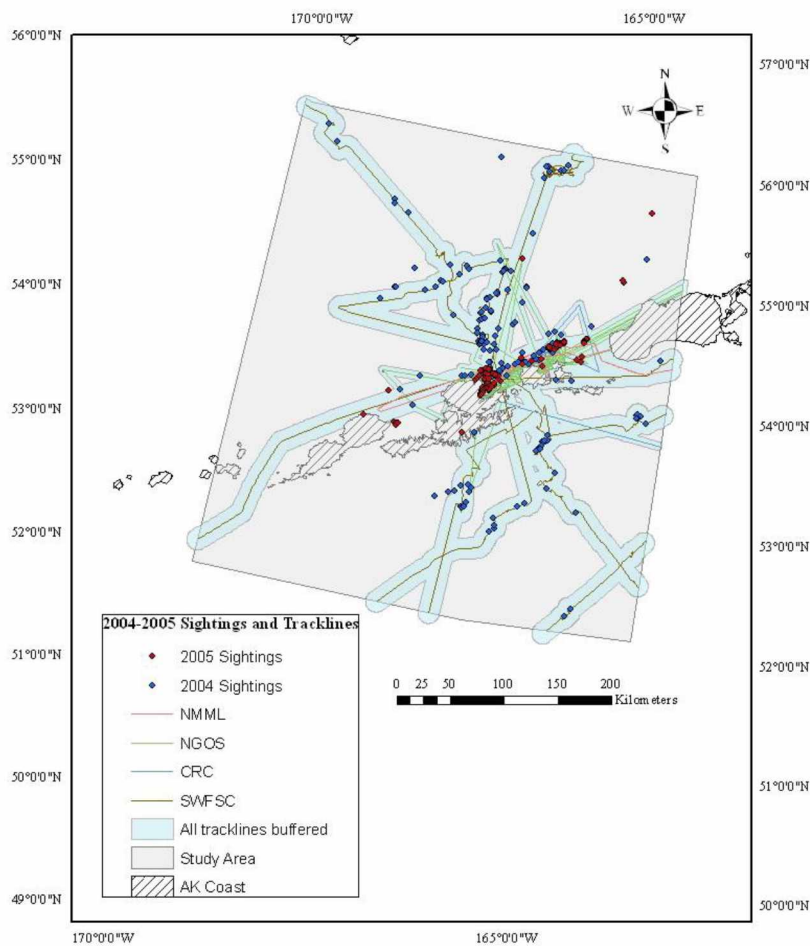


Figure 2.5. 2004-2005 humpback whale sightings, tracklines, and area searched in the Eastern Aleutian study area. Total area searched calculated from buffered tracklines is 5,379 km².

Figures 2.6, 2.7, and 2.8 are representative of the three different habitat variables (depth, slope, and chl-a) individually mapped with humpback whale sightings. Recall that chl-a values were averaged on a monthly basis, therefore, Figure 2.8 is only representative of chl-a values and sightings from September 2004. Appendix B2.3 contains figures for all months during the study.

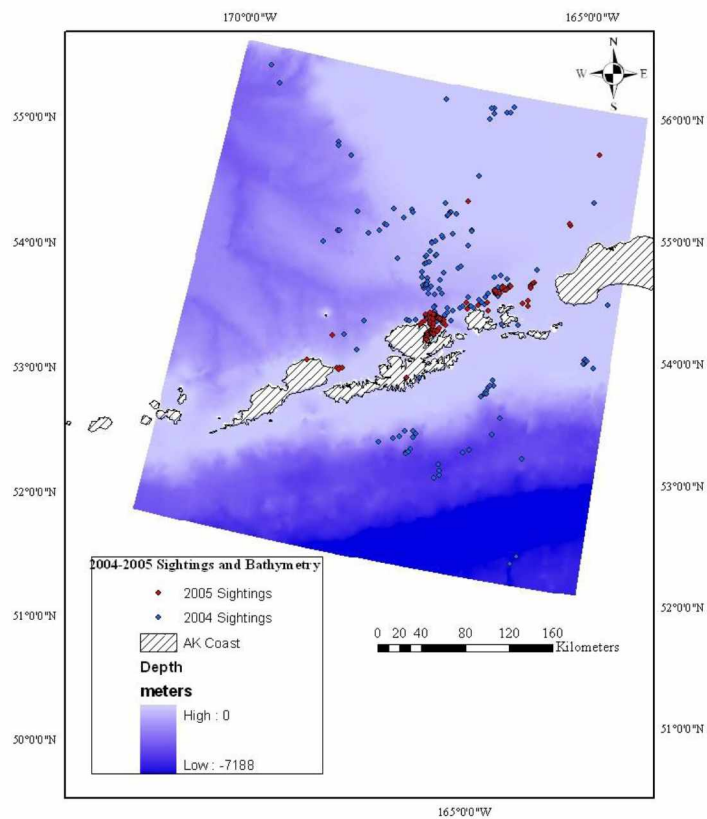


Figure 2.6. 2004-2005 humpback whale sightings and bathymetry in the Eastern Aleutian study area.

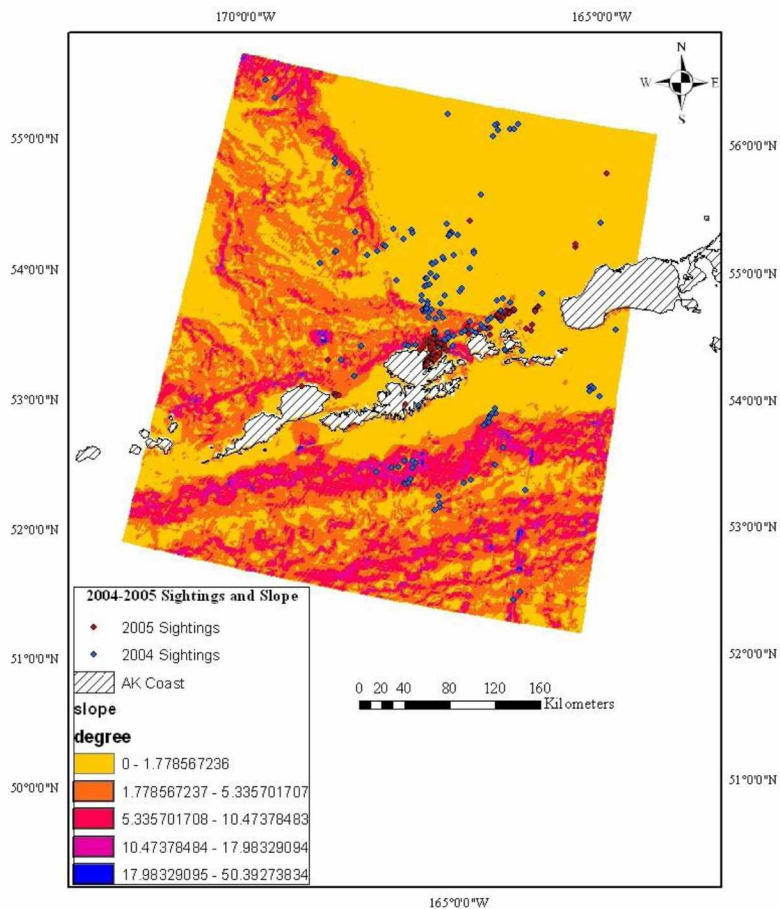


Figure 2.7. 2004-2005 humpback whale sightings and slope in degrees in the Eastern Aleutian study area. Slope is defined as the maximum rate of change between each cell and its neighbors.

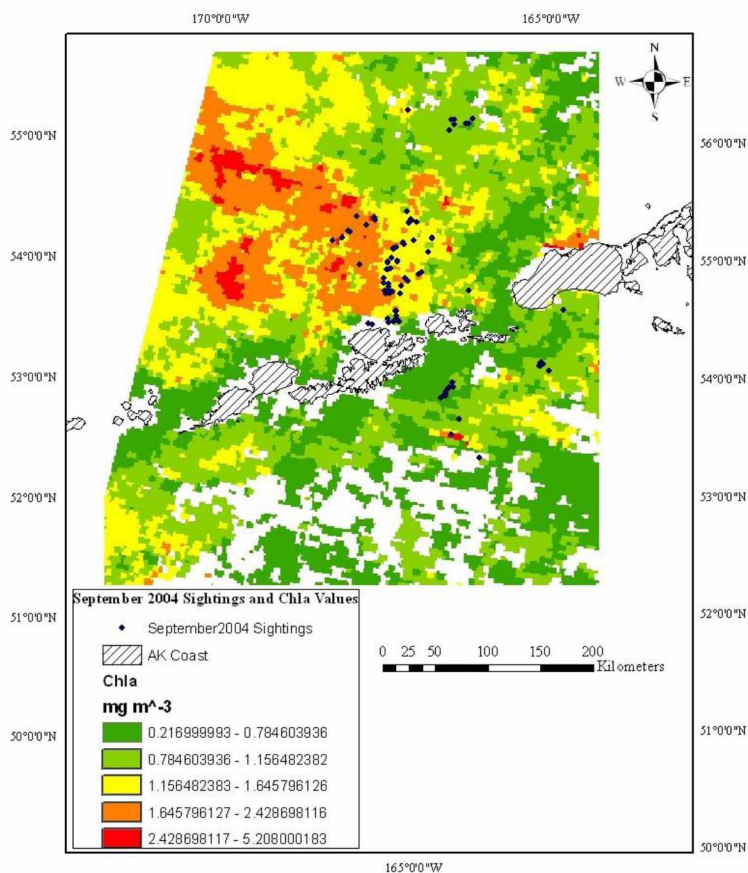


Figure 2.8. September 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

2.4.1 Logistic Regression

Coefficient values were compared to select a reasonable number of random points to be used in the model. As the number of random points in our model increased, the significance of independent variables remained the same. The model containing 300 random points (rp) was selected. Depth was consistently significant in predicting humpback whale presence in the Eastern Aleutian study area (Table 2.4).

Table 2.4. Logistic regression coefficient results for the original model using different random points. Whale=Chl-a+Depth+Slope, family=binomial. The response variable is whale presence or absence and the explanatory variables are CHL-A, DEPTH, and SLOPE. All bold values represent $p < 0.05$.

	300	500	700	900	1100
Intercept	0.29	<0.001	<0.001	<0.001	<0.001
CHL-A	0.86	0.60	0.49	0.35	0.21
DEPTH	<0.001	<0.001	<0.001	<0.001	<0.001
SLOPE	0.23	0.26	0.10	0.06	0.04

2.4.2 Evaluation of GLM Assumptions

Correlation between all independent variables (CHL-A, DEPTH, SLOPE) was tested (Table 2.5). Values close to zero represent little correlation between predictor variables. Correlation between all variables was no larger than $|0.5|$ and therefore in this study, determined to be unimportant. Spatial autocorrelation was determined to be present because of the clumping of sightings (Figure 2.6) and the lack of randomness in the plot of the residuals (Figure 2.9).

Table 2.5. Correlation test results between independent variables.

	CHL-A	DEPTH	SLOPE
CHL-A	1	-0.11	-0.04
DEPTH	-0.11	1	-0.33
SLOPE	-0.04	-0.33	1

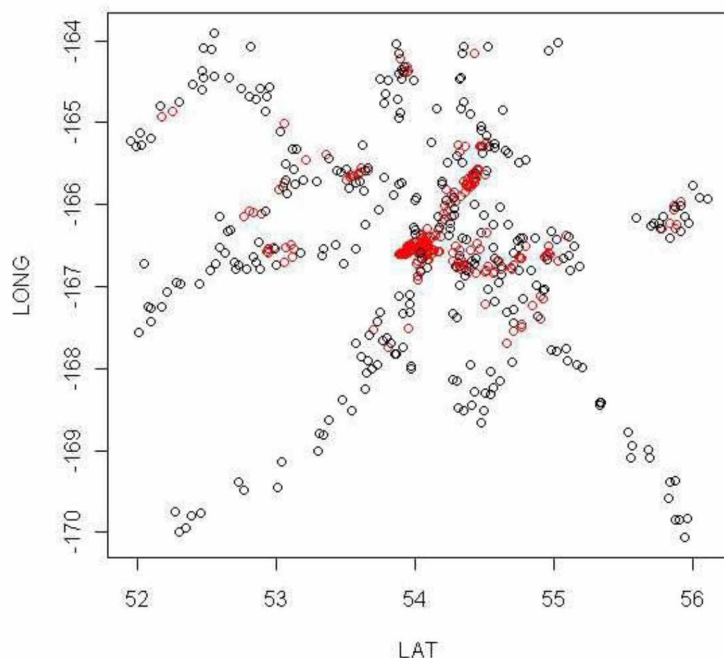


Figure 2.9. Residual plot by latitude and longitude. Positive (red) and negative (black) residuals for all data points (sightings and 300 random points) plotted by latitude (LAT) and longitude (LONG).

The new logistic regression model including LAT and LONG resulted in depth and longitude being significant ($\alpha=0.10$) (Table 2.6). Similarly, RF variable importance plots support depth and longitude as the most important predictor variables of whale presence (Figure 2.10), however, longitude is shown to be much more essential in the spatial structuring of humpback whales than the logistic regression suggests. Partial dependence plots graphically characterize the relationship of depth and longitude with the predicted probability of humpback whales being present. For longitude, the probability of seeing a whale between -170 and -168 degrees is minuscule and then peaks just after -167 degrees. The probability of seeing a whale then drops rapidly just before -166 degrees and remains low between -166 and -164 degrees. The probability of seeing a whale in relation to depth increases as depth decreases and peaks around 300 m (Figure 2.11).

Table 2.6. Means and confidence intervals of logistic regression parameters generated from the stepwise backward bootstrapping. **Bolded** variables are significant at $\alpha=0.05$, *italics* represents variables significant at $\alpha=0.10$ in determining the presence of a humpback whale.

Parameter	Estimate	Standard Error	Mean	CI's from bootstrap
CHL-A	0.08	0.13	0.08	-0.18, 0.34
DEPTH	<0.001	<0.001	≤0.001	0.0003, 0.0006
SLOPE	0.04	0.03	0.04	-0.01, 0.95
LAT	-0.15	0.14	-0.15	0.43, 0.11
<i>LONG</i>	<i>0.16</i>	<i>0.09</i>	<i>0.16</i>	<i>-0.02, 0.31</i>

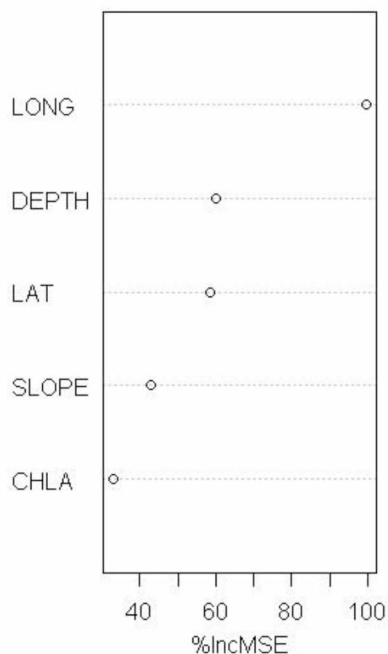


Figure 2.10. Variable importance plots for predictor variables from Random Forest classifications. These plots are used for predicting presence of humpback whales in the Eastern Aleutian study area. The higher the value of each variable, the more important to the classification it is. The X axis, %IncMSE represents the increase in the prediction error, or mean squared error. This is the mean decrease in accuracy when that variable is altered and others are left unchanged. A large change in %IncMSE implies an important variable.

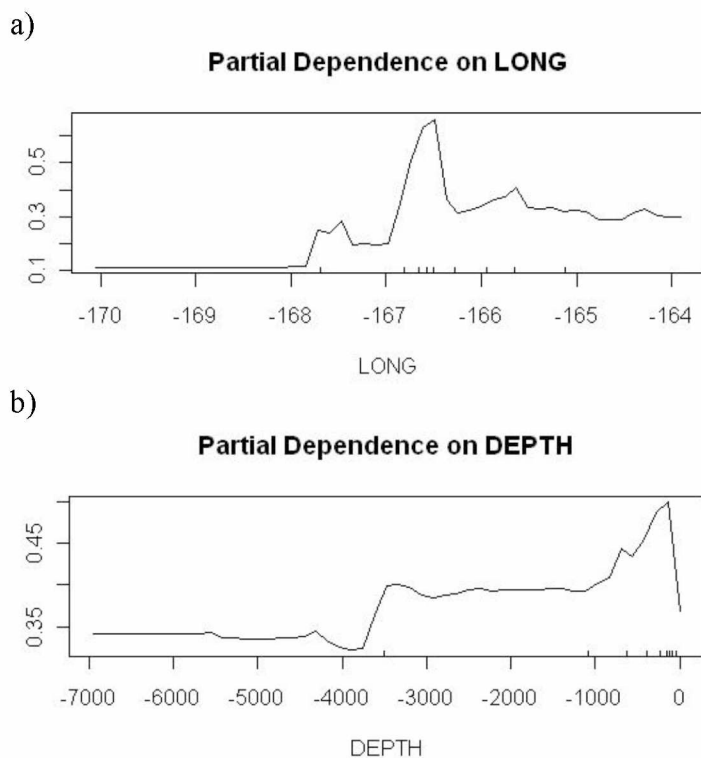


Figure 2.11. Partial dependence plots of the Random Forest predictions of humpback whale presence for variables a) longitude and b) depth. Partial dependence averages out any effects of the other variables in the model (CHL-A, SLOPE, LAT). The Y axis is on the log scale.

Original data had a standard error bias due to spatial autocorrelation and therefore were resampled to obtain new confidence intervals (CI's). CI estimates for chl-a, slope, and latitude overlapped zero and therefore were not significant but depth and longitude were significant (Table 2.6).

2.5 DISCUSSION

Regression has commonly been used as a technique for cetacean habitat modeling (Moses and Finn 1997, Davis *et al.* 2002, Hamazaki 2002, Baumgartner *et al.* 2003, Yen *et al.* 2004, Tynan *et al.* 2005, Redfern *et al.* 2006), but tree-based models are not common in cetacean research and have been used more commonly to predict the distribution of sea birds. Friedlaender *et al.* (2006) investigated whale distribution in relation to oceanographic processes and prey abundance in Antarctic shelf waters using

classification and regression tree (CART) models. Tree-based models are generally very easy to interpret and relate to biological circumstances. Logistic regression analysis along with random forest classification suggested that depth and longitude were highly significant in the spatial distribution of humpbacks observed from 2004 to 2005 on the Eastern Aleutian summer feeding area. The distribution of humpback whales found during this study is similar to both pelagic and coastal whaling catch records and other surveys conducted in this area with a concentration of whales on the north side of Unalaska and Akutan Islands (near the old whaling station of Akutan) (Nishiwaki 1966, Reeves *et al.* 1985, Brueggeman *et al.* 1989, Waite *et al.* 1999, Zerbini *et al.* 2006).

The shallow water on the north side of the Eastern Aleutians appears to be an ecologically important area for humpback whales. This is logical since recent studies report the northern sides of the Eastern Aleutians to be more productive than the southern ends of the eastern passes, within the eastern passes, and west of Samalga Pass due to the lack of strong mixing in those regions (Ladd *et al.* 2005b, Mordy *et al.* 2005). Large chlorophyll blooms have also been observed throughout the summer on the northern side of the Eastern Aleutians suggesting large amounts of nutrients and chl-a (Mordy *et al.* 2005). This constant summer production can drive the patchy distribution of potential prey species for whales and therefore be consistent with the proposed bottom-up structuring of the ecosystem in the Aleutians (Mordy *et al.* 2005, Sinclair *et al.* 2005).

2.5.1 Explanatory Variables

2.5.1.1 Bathymetry (Depth)

Bathymetry was consistently a very important predictor of humpback whale presence during the study period. The importance of depth in predicting humpback whale presence during the summer seasons relates to the concentration of food due to upwelling or oceanographic features such as fronts that exist coastally in the Eastern Aleutians from Unimak Pass.

The Southeast Bering Sea has commonly been divided up into the following three shelf domains: the inner coastal shelf (<50 m), middle shelf (50-100 m), and outer shelf (100-200 m) (Springer *et al.* 1996). The inner shelf region otherwise known as the ‘coastal domain’ is characterized by both the 50 m isobath and the complex current systems that feed out of Unimak Pass. In 2004, foraging whales occurred in the Southeast Bering Sea on the middle shelf where the tidal currents are reported to be ‘energetic’ (Tynan 2004). High abundances of euphausiids, large copepods, and planktivorous fishes such as capelin, smelt, and herring are known to occur along the shelf edge between the inner coastal shelf and middle shelf in a narrow zone where a front was created (Gershanovich *et al.* 1974).

Random forest analysis shows that humpback whales are most likely to be present in water depths less than about 300 m (Figure 2.11). This supports other studies in which humpback whales were associated with shallow waters and shelf regions (Brueggeman *et al.* 1989, Gregr and Trites 2001, Hamazaki 2002, Tynan 2004, Tynan *et al.* 2005). This relationship depends on enhanced productivity and oceanographic features that can concentrate prey (Tynan *et al.* 2005).

2.5.1.2 Slope

Slope was included as an explanatory variable in our logistic regression models as a measurement of bottom topography since upwelling is known to play a role in productivity (Mann and Lazier 1996, Gregr and Trites 2001). It was considered because of the existing outer shelf system (area between 100-200 m depth) located off the northern edge of Eastern Aleutians. The shelf break in the southeastern Bering Sea has been referred to as the ‘Green Belt’ due to the enhanced production (Springer *et al.* 1996). Estimates from this area have shown that primary production is 60% higher than surrounding areas (Springer *et al.* 1996, Moore *et al.* 2002). Slope however, was not a significant predictor of humpback whale occurrence in my logistic regression model or

the RF variable importance plot (Figure 2.10). Most of the humpback whales in this study were seen across smooth coastal areas with little slope. Over half of the study area consists of areas where the slope is less than 1.7 degrees (Figure 2.7); therefore, it is reasonable that slope is not a significant predictor variable in humpback whale distribution in my study area.

2.5.1.3 Longitude

Longitude was a significant predictor of humpback whale presence in the Eastern Aleutian study area. The partial dependence plot on longitude illustrates how it can be used as a predictor of presence for humpback whale between 167 degrees and 166 degrees and for absence from 168 degrees westward (Figure 2.11). In Figure 2.11, the peak from the partial dependence plot represents a high concentration of humpback whale sightings and an area with many tracklines passing through it (Figure 2.11). Longitude can be problematic because it is a direct artifact of the geography of the area; however, it was added to the model as a tool to help compensate for the spatial autocorrelation present in the data. Whale sightings in this study were clumped spatially in the Eastern Aleutians. The majority were concentrated just northwest of Unimak Pass, supporting the finding of Sinclair *et al.* (2005) that cetacean distributions in the Eastern Aleutians are significantly related to the distance from the nearest tidal pass. Figure 2.12 depicts the same concept.

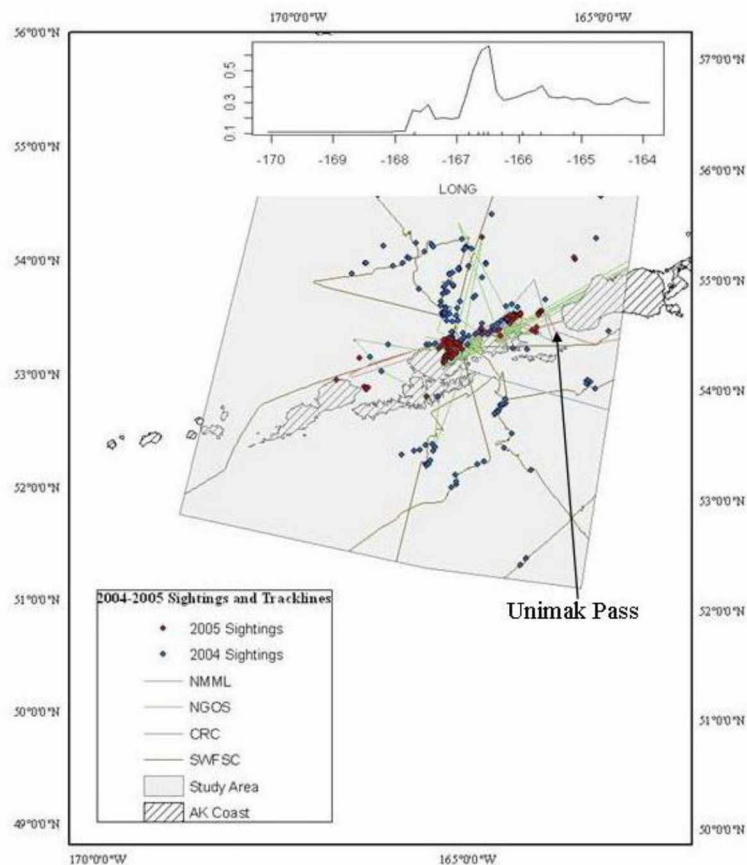


Figure 2.12. Visual comparison between the longitudinal partial dependence plot and humpback whale sightings and tracklines. Sightings are from 2004-2005 and tracklines are by organization. The partial dependence plot was generated through RF analysis.

2.5.1.4 Chl-a

Although chl-a was not a significant predictor of humpback whale presence in our study area, it is commonly found to be a significant explanatory variable for humpback whale distribution and presence in others studies (Smith and Nelson 1986, Sinclair *et al.* 2005, Tynan *et al.* 2005) and therefore should be considered when modeling humpback whale presence. In this study, the finer temporal scales were lost due to monthly mean indices of chl-a for the study area whereas in the studies mentioned above, chl-a was estimated from *in situ* measurements with a fluorometer. Missing chl-a data on the north sides of the islands were a problem due to a phenomenon known as ‘stray light’. ‘Stray light’ occurs when the imaging swath of the satellite transitions from land to water; the amount of light needed to image the land and water is different, resulting in an adjustment period

that produces lost pixels directly off the coast (Barnes *et al.* 1995). If finer scale chl-a data had been available, for example weekly, or daily during our study period, chl-a may have been a significant factor in determining where humpback whales were found in the Eastern Aleutians.

2.5.1.5 Latitude

Latitude was found by Tynan *et al.* (2005) to be an important predictor of humpback whale distribution off the California coast. However, in my study area, which is primarily east-west oriented and so crosses more longitude lines, it was not a significant predictor of humpback whale presence in the logistic regression model but was shown to be the third-most important variable in the RF classification analysis. Latitude represents another part of the strong spatial structure of these data and therefore needs to be taken into account.

2.5.2 Limitations

The GLM and RF analyses in this study ultimately result in predictors that best describe the habitat in which humpback whales can be found in my study area. Interpretation of these results for the Eastern Aleutians and comparison to other feeding grounds, must discuss biases and limitations of this study resulting from complicating factors such as data independence, effort, and missing independent variables.

2.5.2.1 Data Independence

Because spatial autocorrelation was detected in this study, thereby violating the data independence assumption, statistical tests that included the extension of spatial measures as predictor variables were used along with RF classification analyses and backwards bootstrap analysis to define confidence intervals. These methods are only some of the many different tests and approaches to the common problem of autocorrelation. Redfern

et al. (2006) suggest removing autocorrelation from the data set completely or increasing the number of observations and spatial extent of sampling to achieve spatial independence as an alternative approach. While neither of these approaches were investigated any further in this project, these methods may be useful for other studies

2.5.2.2 Effort Assumption

The common and important assumption of equal spatial and temporal effort needs special attention and consideration in this study. These data were not collected randomly but were a result of vessels of opportunity. Field operations aimed at maximizing whale encounters, rather than ensuring that habitats were sampled equally or randomly. The areas most often surveyed, corresponded to the areas that were frequently transited to get to other areas. Humpback whale sightings were positively related to the survey effort (Figure 2.13). The two large circles emphasize the quantity of coverage within the study area, although they are not placed with any quantitative measure. Effort based on a temporal scale also was not consistent between years (Table 2.2). July was the only month in which effort was comparable between years.

The presence of non-random temporal and spatial sampling could result in incorrect estimation of coefficients for predictor variables or incorrect choice of predictor variables (Gregs and Trites 2001). Spatial sampling was non-random, increasing the estimated importance of the habitat variables in the areas in which most of the sampling took place (Figure 2.13). Non-random temporal sampling limits the reliability of the results during times with few surveys. Other studies have shown humpback whale distributions to vary greatly within a season (Hamazaki 2002, Tynan *et al.* 2005, Baraff 2006).

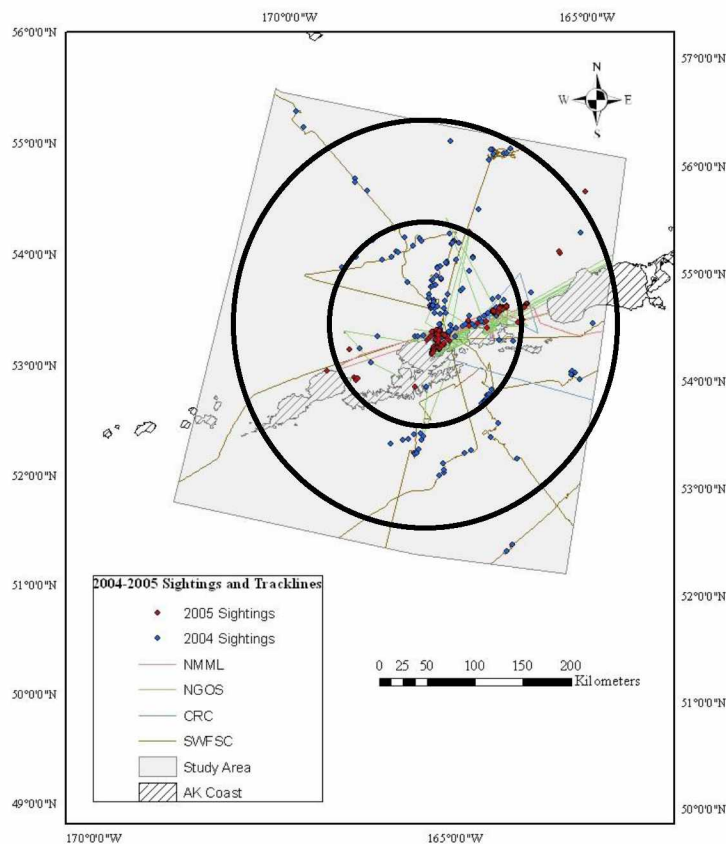


Figure 2.13. High versus low survey coverage within the Eastern Aleutian study area, 2004 and 2005. The two large circles (high (inner circle) versus low (outer circle)) emphasize the quantity of survey coverage within the Eastern Aleutian study area, 2004 and 2005. Circles are not placed with any quantitative measure.

2.6 CONCLUSIONS

One of the major goals of ecology is to understand how environmental characteristics affect the presence or distribution of an organism (MacArthur 1972). Habitat selection therefore has important implications for both conservation and management of a species, which depend on accurate information about both the distribution of animals and the way these associations change across time and space (Doniol-Valcroze *et al.* 2008). Fine-scale descriptions of humpback whale habitat in the Eastern Aleutians were not possible to achieve from this study and inherent biases associated with improper study design present irreconcilable effects, but data were still valuable in gaining a better understanding of humpback whales in the Eastern Aleutians.

Humpback whales in this study were found in coastal, shallower waters with larger densities near the north side of Unalaska and Akutan Islands. The distribution of humpback whales in relation to depth and proximity to Unimak Pass support the findings from Sinclair *et al.* (2005) and Tynan (2004). This research also found depth and longitude to be important predictors of humpback whale occurrence on the Eastern Aleutian summer feeding grounds, while slope, latitude, and chl-a were not. Limitations of the data collected must be considered when evaluating the importance of selected predictor variables. While data collected from satellites prove to have both financial and time advantages, quality of data is a tradeoff that may influence results. In marine mammal habitat studies, it is strongly suggested that oceanographic data be collected concurrent with marine mammal data to ensure both accurate, and real time information in a constantly changing environment.

The present study was based on two years of surveys and data and produced enough data to demonstrate that tree-based models can successfully be used jointly with logistic regression. Results from the RF tests in this study produced detailed graphs of how well the variables predicted humpback whale presence across the entire study area and independent of other predictor variables (Figures 2.10 and 2.11). Redfern *et al.* (2006) pointed out that tree-based models poorly capture smooth gradients in the response of cetaceans to habitat variables because trees split and create discrete predictions of those relationships; however, in the present study, independent variables were not binned and therefore smooth gradients were not lost.

Ultimately, this study shows that, even in the presence of spatial and temporal autocorrelation and unequal sampling effort, predictions of humpback whale presence in the Eastern Aleutian study area can be made with statistical confidence but comparisons to other feeding areas must be taken with caution.

2.6.1 Future Studies

To provide a more comprehensive understanding of habitat use and the ecology of humpback whales on their summer feeding grounds in the Eastern Aleutians, future investigations should collect physical, biological, and oceanographic variables, ideally collected concurrently with sighting data. Inclusion of other potential predictor variables such as salinity, sea surface temperature, and water column properties in the modeling would allow direct comparison of data and results with other feeding ground studies. Inclusion of prey species abundances across the study area as well as competitors (sea birds and other marine mammals) would be beneficial in understanding the overall Eastern Aleutian biological community (Redfern *et al.* 2006). Future surveys should cover areas of both high and low known humpback whale densities in the Eastern Aleutians so that important habitat descriptors can be designated with more confidence (Redfern *et al.* 2006). Lastly, it is very important to consider the types of questions that can be answered with statistical confidence using data that are meant for another study or hypotheses. Despite some limitations, this study successfully used information that was collected to explore the whole North Pacific humpback whale population to describe the general distribution of humpbacks in the Eastern Aleutians as well as to support what other studies had found to be important humpback whale habitat variables in the North Pacific.

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APPENDIX B

B2.1. Detailed GIS steps used in the data processing methods section.

Data Processing

ArcGIS (Geographic Information System) mapping

A 'blank study area polygon' was formed using the create feature class tool from the boundaries of the study area.

Whale sighting and GPS data

Sighting and GPS tables were exported from excel spreadsheets into shapefiles (.shp), and displayed as point themes in ArcMAP. All GPS point themes were converted into lines using Hawth's Analysis 'convert locations to paths (points to lines)' tool. The humpback whale sightings and tracklines were overlaid on the Alaska Coastline Digital Chart of the World (DCW) surface map. The 'blank study area polygon' was added and the 'clip tool' was used for all tracklines that fell outside of the study area. The 'erase tool' was used for any tracklines that overlapped with land and were erased. Latitude and longitude values were obtained for each sighting using 'add X and Y' tool.

Bathymetric Variables

The 'clip tool' was used on the raster file (bathymetric data) to fit within the 'blank study area polygon'. Histograms were computed and raster grouping values were drawn into categories using Jenks natural breaks tool.

Slope Variables

Histograms were computed and raster grouping values were drawn into categories using Jenks natural breaks.

Chl-a Variables

All grid data were downloaded from OceanColor Web as .asc grid files. Once imported into ArcGIS, the 'copy raster tool' was used to change the .asc file into an image (.img) file with 32 floating points. The raster was then 'defined' and 'projected'. The 'clip tool' was used to fit the chl-a raster within the 'blank study area polygon'. Histograms were computed and raster grouping values were drawn into categories using Jenks natural breaks.

Data organization

Tracklines and sightings were sorted and divided into their respective months. A new field called `buffer_dis` was added to the attribute table of each trackline. Using the 'buffer tool' a buffer was created for each trackline based on the `buffer_dis` field. If more than one boat conducted surveys in a given month, the 'merge tool' was used to combine the buffered tracklines. For each monthly layer, sighting data were displayed on top of the new buffered trackline/s. The 'clip tool' was used for any sightings that fell outside of the buffered layer.

Creating Random Points

A new data layer was created and the following features were added: DCW surface map and the seven different buffered trackline features. The tracklines were then merged to create one large polygon. The five random point files were copied into each monthly layer. The 'clip tool' was used to ensure that each point file was fitted to that month's buffered area. The 'merge tool' was used to combine the sighting data point files and the random point files. The resulting data frame consisted of the following features: buffered trackline, DCW surface map, chl-a raster, depth raster, slope raster, and five different merged sightings/random points shapefiles.

Extracting All Values

The 'sample tool' was used to create a .dbf table that combines the values of cells from habitat rasters (chla, depth, and slope) with the merged sighting and random point file. The nearest neighbor assignment was used as the resampling algorithm. The 'join field tool' was used to join the new .dbf table back to the merged sightings and random points layer based on the join field, feature ID (FID). The values for depth, slope, and chl-a are now part of the attribute table of the layer just mentioned. Column names were reported as Z_values and therefore were renamed appropriately for depth, slope, and chl-a (this can be done using the editor in ArcGIS, but instead was done in Microsoft Excel). The attribute table was exported as a dBASE file (.dbf) and then resaved as an excel file (.xls).

Appendix B2.3. Chl-a values and Humpback Whale Sightings mapped using ArcGIS for July, August, and September of 2004 and 2005. These data are shown in Figures B2.1 through B2.5.

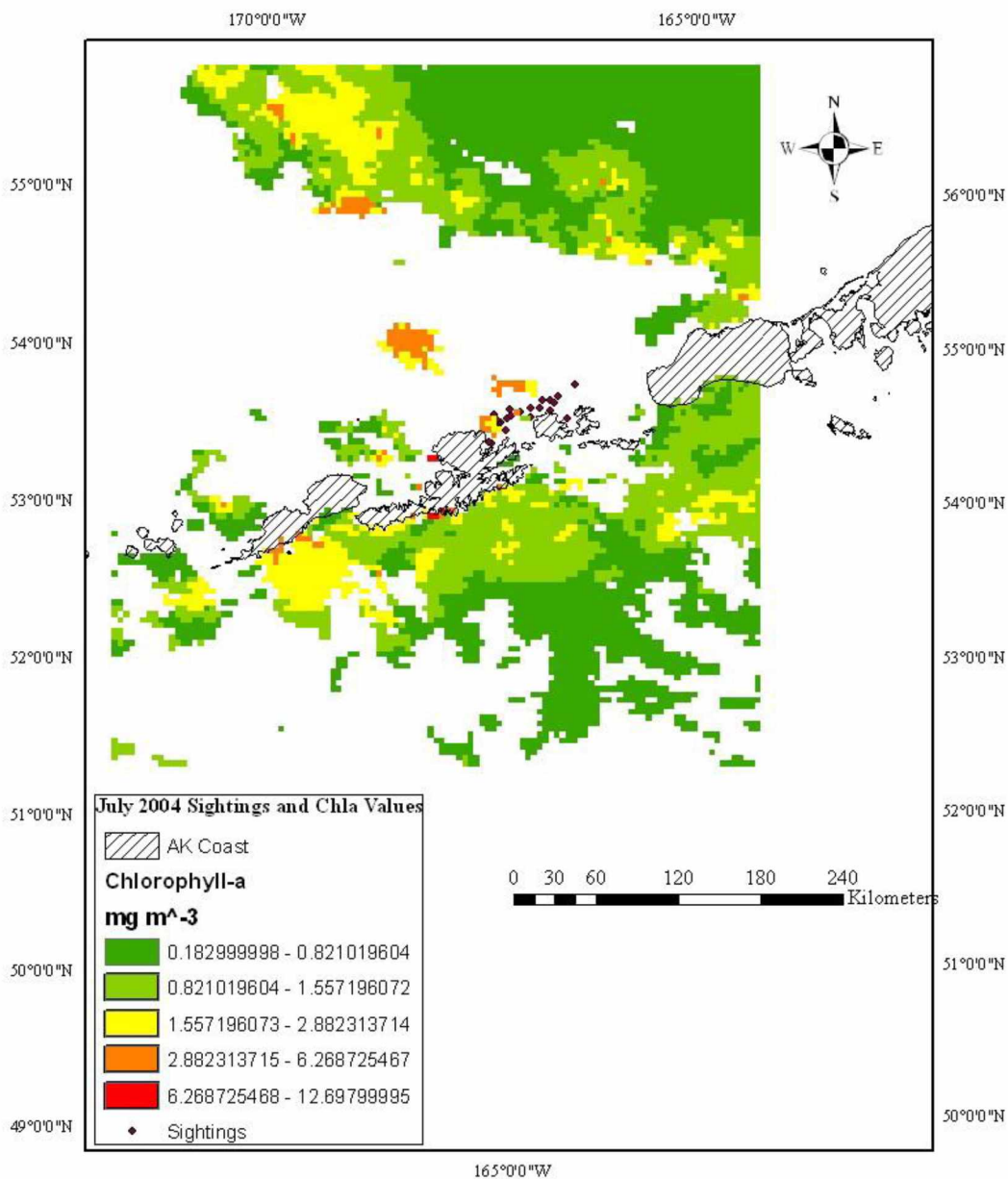


Figure B2.1. July 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

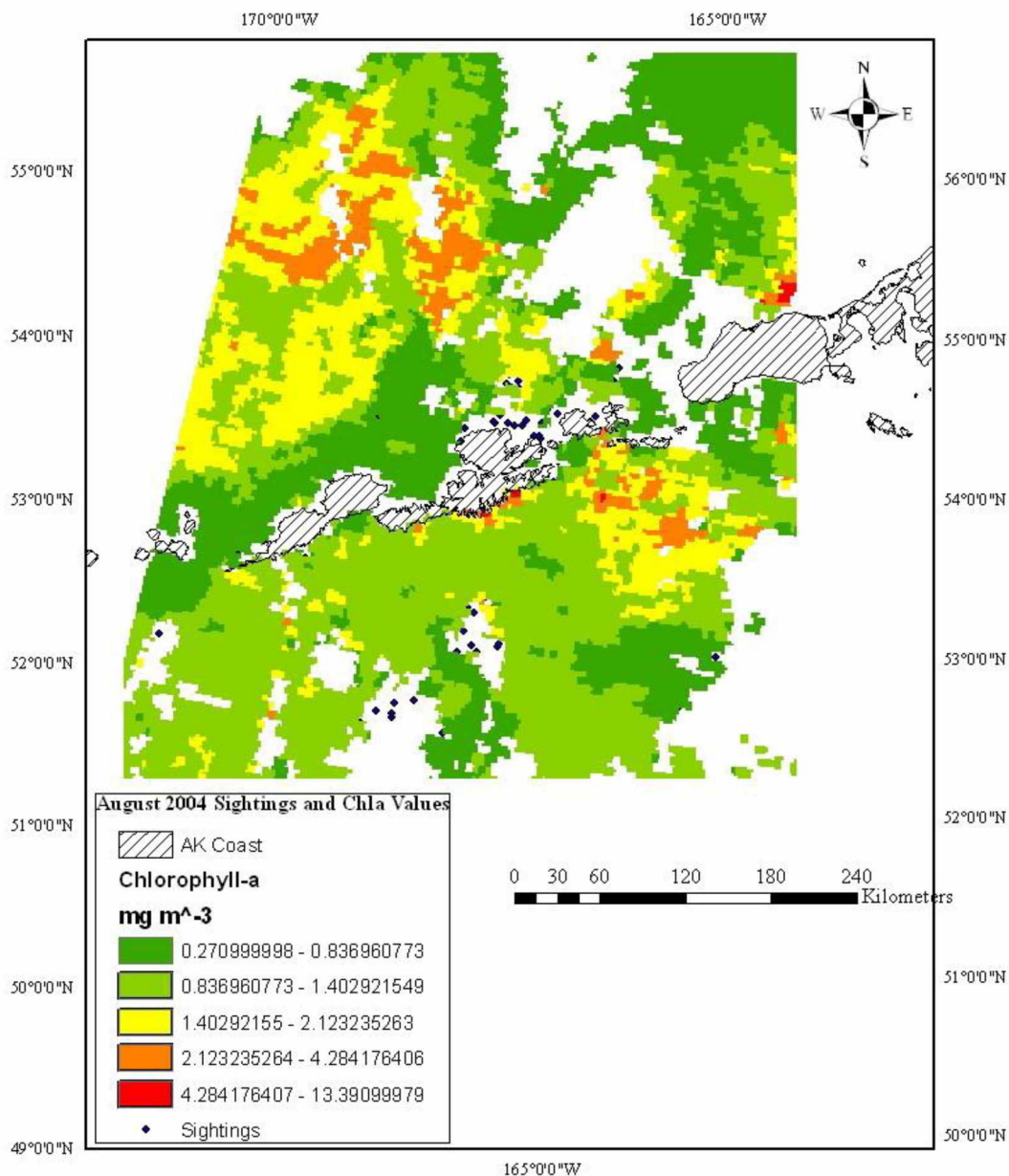


Figure B2.2. August 2004 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

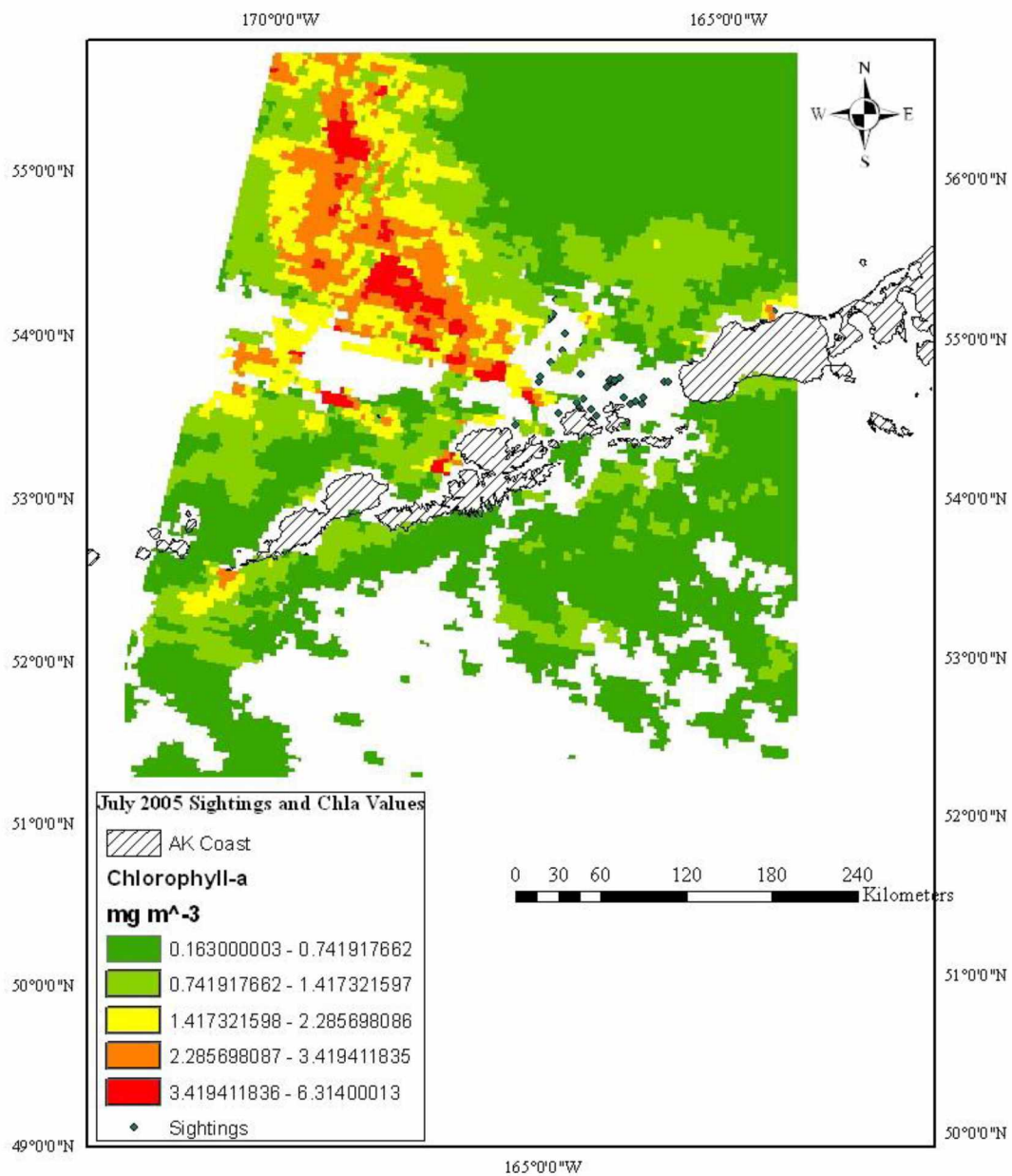


Figure B2.3. July 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

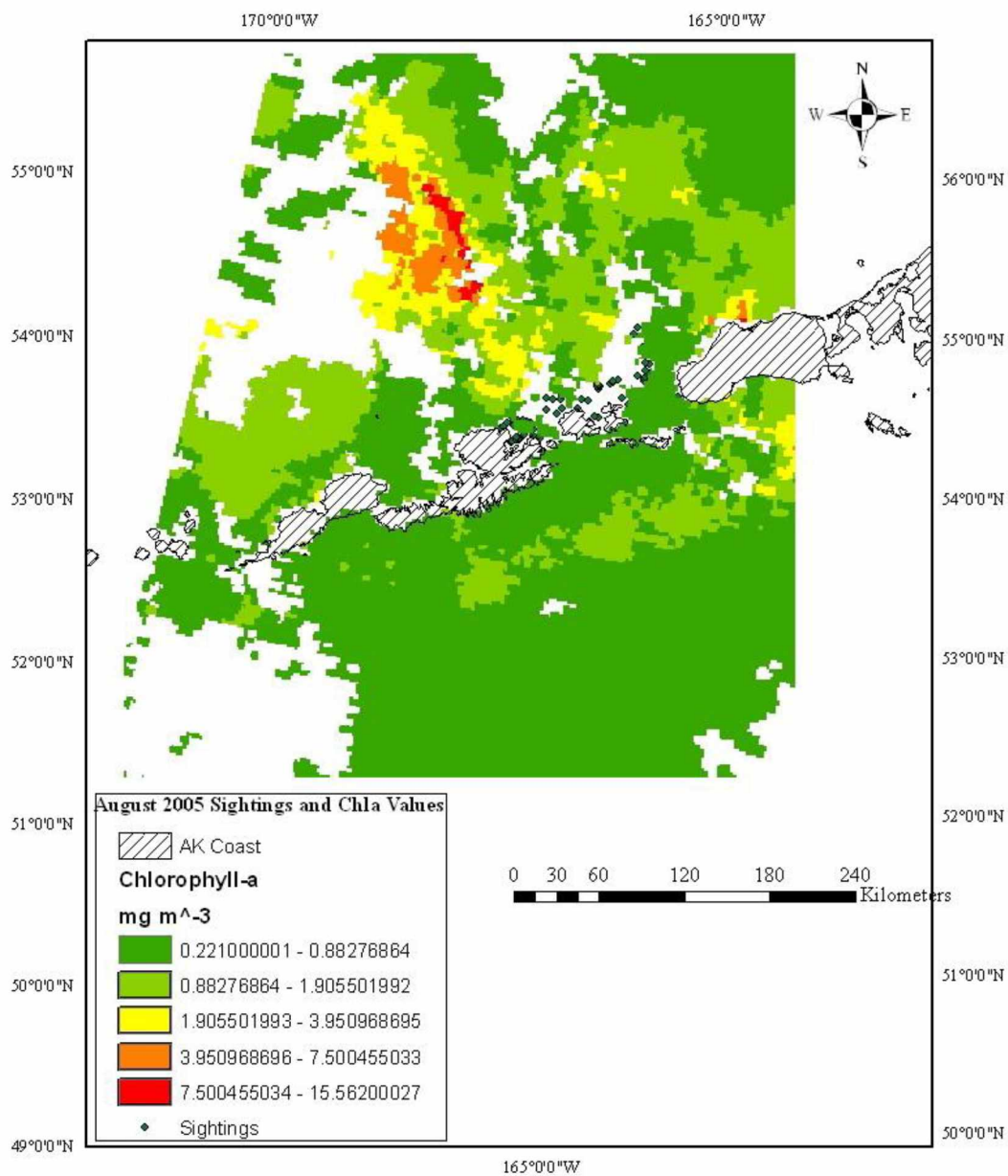


Figure B2.4. August 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

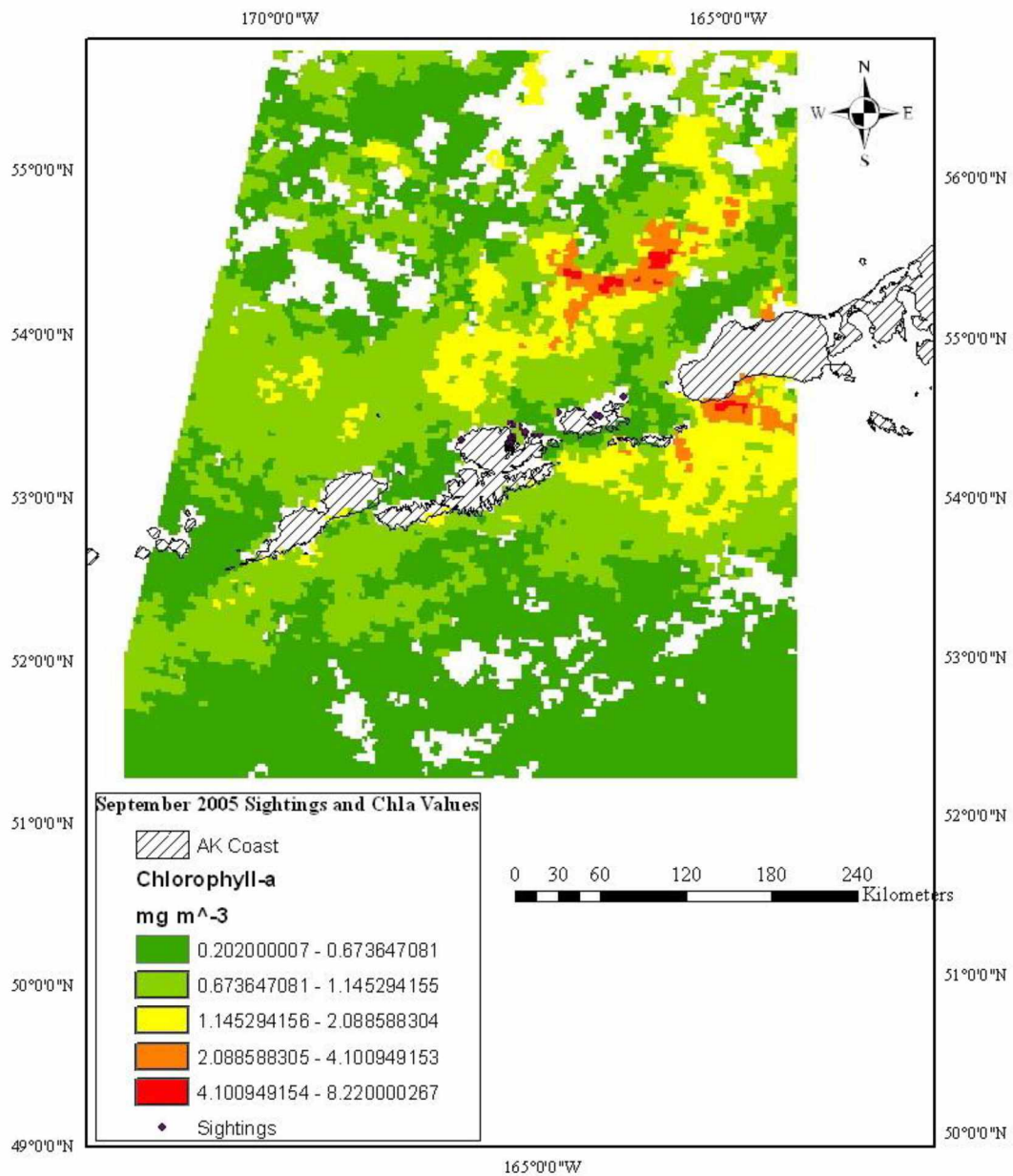


Figure B2.5. September 2005 humpback whale sightings and chl-a values in the Eastern Aleutian study area.

CONCLUSION

This study shows that despite humpback whales being one of the most studied baleen whales, regional details in some areas in the North Pacific are still lacking. SPLASH contributed significant effort toward understanding some of these intricacies but ultimately the SPLASH study was designed to focus on the abundance, trends, population structure, and movement of humpback whales, as well as to examine human impacts on this population, throughout the entire North Pacific (Calambokidis *et al.* 2008). My thesis however, aimed to highlight regional details and investigate whether or not this is a distinct summer feeding area for humpback whales, using site fidelity percentage, estimates of the number of whales in the area, and habitat use characteristics. The population structure of humpback whales in the Eastern Aleutian Islands is complex and while this study is a start to gaining knowledge about these animals, more work is needed.

The mark-recapture study from 2003 to 2006 estimated a medium-sized group of whales (lower estimate of 507 (CI's 309,911) to upper estimate of 1570 (CI's 1053,2430)) that feed in the Eastern Aleutian study area in summer. These estimates are similar to other known humpback whale feeding ground estimates in the North Pacific. Site fidelity, defined as recaptures over time in this study, was determined to be 23% (744 newly captured individuals, 176 recaptured individuals) from 2003-2006 for the Eastern Aleutians study area. Compared with other studies reporting site fidelity in the North Pacific, this percentage would be considered 'moderate'. Comparing site fidelity rates among studies is complicated by the inconsistencies of definition, reporting and interpretation of the percentages. I recommend that future site fidelity studies report the following information: percentage of recaptures, the actual number of individuals and recaptures, and the number of years of the study. The information gained from the Eastern Aleutians in this study is not sufficient to designate this area as a separate feeding area, but strongly suggests that it may be.

I also found depth and longitude to be important predictors of humpback whale presence on the Eastern Aleutian summer feeding grounds. Humpback whales in this study were found in coastal, shallower waters with larger densities near the north side of Unimak Island. The distribution of humpback whales in relation to depth and proximity to Unimak Pass supports the findings from other studies (Sinclair *et al.* 2005, Tynan *et al.* 2005). My study overcame independence assumption violations to make these predictions with statistical confidence but comparisons to other feeding areas must be made with caution.

In the work reported in both chapters of this study, I encountered and handled some of the challenges that occur when using mined data sets collected to answer very different questions. Mined data are defined as a compilation of different data sets that were collected with intentions to answer different questions than the current study. Mined data have the advantages of increased sample sizes in a field where smaller sample sizes are typical (Redfern *et al.* 2006); they are inexpensive and potentially save years of data collection time. While these both are very attractive reasons to use mined data, there are also disadvantages. The lack of control over data collection methods and data quality can affect results and the ability to combine and compare information. Using mined data introduces difficulty in gaining access to all parts and details of the data required for the research. I recommend a detailed understanding of the data before objectives and questions are formulated. For cetacean studies such as mine, these details should include, at a minimum, the following. What data/parts of data are available to use for this study? How was each data set collected (ship, aerial, line-transect, opportunistically)? Over what spatial and temporal scales were data collected? Are tracklines and effort available for collected data? What were the original objectives/questions for these data and what were the results? Asking these questions will enable the scientist to develop unique questions that can be answered with the available data and alert them to possible statistical difficulties at the outset.

Despite limitations associated with estimating numbers of whales, site fidelity methods, and defining important habitat predictors, results from this thesis provided baseline information that will help in monitoring Eastern Aleutian humpback whales in the future and allow us to further investigate whether or not the Eastern Aleutians serve as a ‘distinct’ feeding aggregation.

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Appendix A1.2. Photographic information across study years (2001-2006) for each individual whale. ID=identification number for an individual, FLDI=fluke distinctiveness value for that particular individual (1=low, 2=moderate, 3=high). The month columns represent whether or not the individual was seen (1=seen, 0=not seen).

Photo Code of best photo	ID	FLDI	Year	Month	Month	Month	Month	Total Sightings
			2001	June	July	Aug	Sept	
SWFC-MFR-20040910-E-0016	3000	2	2001	0	0	0	1	1
NGOS-DKE-20050717-1-0122	3001	3	2001	0	0	0	0	0
NGOS-TM-20040828-1-0018	3002	3	2001	0	0	0	0	0
NGOS-DKE-20050725-1-0061	3005	3	2001	0	0	0	0	0
NGOS-DKE-20050726-1-0057	3006	2	2001	0	0	0	0	0
NGOS-DKE-20050725-0010	3007	2	2001	0	0	0	0	0
20050814-EAF-0093	3008	3	2001	0	0	0	0	0
NGOS-DKE-20050726-1-0030	3009	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0142	3010	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0065	3011	3	2001	0	0	0	0	0
NGOS-KEL-20050822-1-0119	3012	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0016	3013	2	2001	0	0	0	0	0
NGOS-KEL20050822-1-0229	3014	2	2001	0	0	0	0	0
NGOS-TM20040624-1-0007	3015	3	2001	0	0	0	0	0
NGOS-KEL20040626-1-0027	3016	1	2001	0	0	0	0	0
NGOS-KEL20040626-1-0028	3017	2	2001	0	0	0	0	0
NGOS-TM20040830-1-0008	3018	2	2001	0	0	0	0	0
SWFC-RLP-20040914-A-0051	3019	2	2001	0	0	0	0	0
SWFC-RLP-20040910-R-0020	3020	1	2001	0	0	0	0	0
20050821-EAF-0255	3021	2	2001	0	0	0	0	0
05OD_01_SEP-05_S556_BKR1_111	3022	2	2001	0	0	0	0	0
NGOS-KEL20050822-1-0175	3023	2	2001	0	0	0	0	0

20050821-EAF-0252	3024	1	2001	0	0	0	0	0
NGOS-DKE-20040617-1-0034	3025	2	2001	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_153	3026	1	2001	0	0	0	0	0
31JUL2003 R5 F23	3027	2	2001	0	0	0	0	0
05OD_01_SEP-05_S556_BKR1_077	3028	3	2001	0	0	0	0	0
05OD_01_SEP-05_S556_PJC1_209	3029	3	2001	0	0	0	0	0
05OD_01_SEP-05_S556_BKR1_339	3030	3	2001	0	0	0	0	0
15JUL2003 R4 F4a	3031	3	2001	0	0	0	0	0
SWFC-LLZ-20040827-A-0028	3032	3	2001	0	0	0	0	0
SWFC-HOF-20040901-B-0055	3033	3	2001	0	0	0	0	0
DOR_-1-AUG-06_HW1_SEM_018	3034	2	2001	0	0	0	0	0
DOR_040AUG-06_HW1_HEV_035	3035	3	2001	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_059	3036	3	2001	0	0	1	0	1
DOR_12-AUG-06_HW1_HEV_049	3037	1	2001	0	0	0	0	0
DOR_07-AUG-06_HW1_HEV_011	3038	2	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_070	3039	2	2001	0	0	0	0	0
NMML-LJM-20040616-F2-013	3040	2	2001	0	0	0	0	0
SWFC-LGT-20040910-A-0065	3041	2	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_107	3042	3	2001	0	0	0	0	0
NGOS-COM-20050717-1-1904	3043	3	2001	0	0	0	0	0
NGOS-DKE-20050717-1-0153	3044	3	2001	0	0	0	0	0
NGOS-DKE-20050717-1-0192	3045	2	2001	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_034	3046	2	2001	0	0	0	0	0
NMML-EAM-20040701-F7-019	3047	3	2001	0	0	0	0	0
NGOS-DKE-20050717-1-0055	3048	2	2001	0	0	0	0	0
NM-JD-20040722-06-014	3049	3	2001	0	0	0	0	0
SWFC-DEG-20040910-D-0112	3050	3	2001	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_034	3622	2	2001	0	0	0	0	0
NGOS-DE-20040810-1-0007	3052	2	2001	0	0	0	0	0
NGOS-DKE-	3053	3	2001	0	0	0	0	0

NGOS-DKE- 20050728-1-0049	3083	3	2001	0	0	0	0	0
NGOS-DKE- 20050726-1-0062	3084	2	2001	0	0	0	0	0
NGOS-DKE- 20050718-1-0029	3085	3	2001	0	0	0	0	0
NGOS-DP- 20040712-1-0006	3086	1	2001	0	0	0	0	0
NGOS-DKE- 20050726-1-0040	3087	3	2001	0	0	0	0	0
NMML-EAM- 20040701-F7-002	3088	2	2001	0	0	0	0	0
NMML-JB- 20040816-52-002	3089	2	2001	0	0	0	0	0
NGOS-TM-2040901- 1-0034	3090	2	2001	0	0	0	0	0
NGOS-TM- 20040901-1-0115	3091	2	2001	0	0	0	0	0
20050816-EAF- 0075	3092	3	2001	0	0	0	0	0
SWFC-LGT- 20040903-A-0115	3093	3	2001	0	0	0	0	0
NMML-LJM- 20040616-F2-017	3094	2	2001	0	0	0	0	0
NGOS-TM- 20040831-1-0012	3095	3	2001	0	0	0	0	0
NGOS-TM- 20040616-1-0005	3096	3	2001	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_21	3097	2	2001	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_048	3098	2	2001	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_137	3099	2	2001	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_114	3100	3	2001	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_091	3101	3	2001	0	0	0	0	0
05OD_06-SEP- 05_S616_MDN1_034	3102	3	2001	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_259	3103	2	2001	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_065	3104	2	2001	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_165	3105	3	2001	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_298	3106	2	2001	0	0	0	0	0
20050814-EAF- 0028	3107	1	2001	0	0	0	0	0
20050820-EAF- 0014	3108	1	2001	0	0	0	0	0
20050816-EAF- 0009	3109	3	2001	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_311	3110	2	2001	0	0	0	0	0
2005-EAF-0242	3111	2	2001	0	0	0	0	0

05OD_07-SEP-	3112	3	2001	0	0	0	0	0
05_S617_BKR1_126								
DOR_12-AUG-	3113	2	2001	0	0	0	0	0
06_HW1_HEV_072								
NMML-COM-	3114	2	2001	0	0	0	0	0
2005JUN25-604-								
037								
NGOS-TM-	3115	3	2001	0	0	0	0	0
20040907-1-0009								
NGOS-KL-	3116	3	2001	0	0	0	0	0
20040617-1-0097								
20050821-EAF-	3117	2	2001	0	0	0	0	0
0267								
05OD_31-AUG-	3118	2	2001	0	0	0	0	0
05_S523_PJC1_063								
2005-EAF-0166	3119	1	2001	0	0	0	0	0
05OD_01-SEP-	3120	2	2001	0	0	0	0	0
05_S556_BKR1_123								
05OD_07-SEP-	3121	2	2001	0	0	0	0	0
05_S617_BKR1_110								
DOR_01-AUG-	3122	3	2001	0	0	0	0	0
06_HW1_SEM_038								
DOR_01-AUG-	3123	2	2001	0	0	0	0	0
06_HW1_HEV_019								
20050901-EAF-	3124	2	2001	0	0	0	0	0
0428								
DOR_01-AUG-	3125	3	2001	0	0	0	0	0
06_HW1_HEV_109								
NGOS-DKE-	3126	2	2001	0	0	0	0	0
20050726-1-0005								
NGOS-DP-	3127	2	2001	0	0	0	0	0
20040712-2-0005								
20050824-EAF-	3128	1	2001	0	0	0	0	0
0026								
20050901-EAF-	3129	2	2001	0	0	0	0	0
0410								
NGOS-DKE-	3130	3	2001	0	0	0	0	0
20050728-1-0087								
20050814-EAF-	3131	2	2001	0	0	0	0	0
0143								
20050824-EAF-	3132	3	2001	0	0	0	0	0
0062								
NGOS-KL-	3133	2	2001	0	0	0	0	0
2004062601-0011								
20050827-EAF-	3134	2	2001	0	0	0	0	0
0017								
NGOS-KW-	3135	3	2001	0	0	0	0	0
20040721-1-0005								
20050824-EAF-	3136	3	2001	0	0	0	0	0
0059								
20050816-EAF-	3137	3	2001	0	0	0	0	0
0102								
20050821-EAF-	3138	2	2001	0	0	0	0	0
0286								
20050821-EAF-	3139	2	2001	0	0	0	0	0
0247								
05OD_31-AUG-	3140	2	2001	0	0	0	0	0

05_S532_PJC1_025									
NGOS-DKE- 20050717-1-0077	3141	3	2001	0	0	0	0	0	0
20050824-EAF- 0044	3142	3	2001	0	0	0	0	0	0
20050824-EAF- 0090	3143	2	2001	0	0	0	0	0	0
20050814-EAF- 0127	3144	3	2001	0	0	0	0	0	0
NMML-LJM- 20040701-F6-030	3145	3	2001	0	0	0	0	0	0
20050901-EAF- 0354	3146	2	2001	0	0	0	0	0	0
SWFC-DEG- 20040910-D-0051	3147	2	2001	0	0	0	0	0	0
SWFC-HOF- 20040901-B-0021	3148	2	2001	0	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_269	3149	3	2001	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0190	3150	3	2001	0	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_053	3151	3	2001	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_009	3152	1	2001	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_036	3153	2	2001	0	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_051	3154	3	2001	0	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_070	3155	2	2001	0	0	0	0	0	0
DOR_05-AUG- 06_HW1_HEV_021	3156	3	2001	0	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_036	3157	2	2001	0	0	0	0	0	0
DOR_07-AUG- 06_HW1_HEV_013	3158	2	2001	0	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_069	3159	2	2001	0	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_038	3160	3	2001	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_045	3161	3	2001	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_038	3162	2	2001	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_059	3163	2	2001	0	0	0	0	0	0
SWFC-MHD- 20040903-B-0015	3164	2	2001	0	0	0	0	0	0
NGOS-TM- 20040907-1-0011	3165	2	2001	0	0	0	0	0	0
NGOS-KEL- 20050822	3166	2	2001	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0210	3167	1	2001	0	0	0	0	0	0
NGOS-KL- 20040725-1-0030	3168	2	2001	0	0	0	0	0	0

DOR_19-AUG- 06_HW9_HEV_007	3169	2	2001	0	0	0	0	0
NGOS-DKE- 20050717-1-0091	3170	3	2001	0	0	0	0	0
NGOS-COM- 20050717-1-1894	3171	2	2001	0	0	0	0	0
NGOS-DKE- 20050717-1-0191	3172	3	2001	0	0	0	0	0
NGOS-DE- 20040817-1-0027	3173	3	2001	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_023	3174	3	2001	0	0	0	0	0
DOR_19-AUG- 06_HW2_HEV_004	3175	2	2001	0	0	0	0	0
NGOS-DKE- 20050728-1-132	3176	2	2001	0	0	0	0	0
DOR_18-AUG- 06_HW1_HEV_007	3177	2	2001	0	0	0	0	0
SWFC-LLZ- 20040914-C-0098	3178	2	2001	0	0	0	0	0
SWFC-LLZ- 20040901-A-0059	3179	3	2001	0	0	0	0	0
NGOS-DKE- 20050726-1-0024	3180	3	2001	0	0	0	0	0
SWFC-JRB- 20040902-B-0024	3181	3	2001	0	0	0	0	0
NGOS-DE- 20040810-1-0015	3182	3	2001	0	0	0	0	0
NGOS-TM- 20040821-1-0001	3183	1	2001	0	0	0	0	0
NGOS-DE- 20040816-1-0001	3184	2	2001	0	0	0	0	0
NGOS-DKE- 20050717--0291	3185	2	2001	0	0	0	0	0
NGOS-DKE- 20050728-1-0156	3186	2	2001	0	0	0	0	0
NGOS-DE- 20040817-1-0029	3187	2	2001	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_003	3188	2	2001	0	0	0	0	0
DOR_19-AUG- 06_HW11_HEV_006	3189	2	2001	0	0	0	0	0
NGOS-DE- 20040817-1-0001	3190	2	2001	0	0	0	0	0
NGOS-DKE- 20050717-1-0032	3191	2	2001	0	0	0	0	0
NGOS-DKE- 20050717-1-0066	3192	2	2001	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_032	3193	2	2001	0	0	0	0	0
NGOS-COM- 20050717-1-1854	3194	3	2001	0	0	0	0	0
NGOS-DKE- 20050728-1-0062	3195	3	2001	0	0	0	0	0
NGOS-DKE- 20050717-1-0197	3196	2	2001	0	0	0	0	0
NGOS-DKE-	3197	2	2001	0	0	0	0	0

20050717-1-0074								
NGOS-DKE-	3198	2	2001	0	0	0	0	0
20050717-1-0021								
NGOS-DKE-	3199	2	2001	0	0	0	0	0
20050728-1-0012								
NGOS-DKE-	3200	2	2001	0	0	0	0	0
20050718-1-0033								
NGOS-DKE-	3201	3	2001	0	0	0	0	0
20050717-1-0100								
NGOS-DP-	3202	3	2001	0	0	0	0	0
20050710-1-0030								
NGOS-DKE-	3203	3	2001	0	0	0	0	0
20050717-1-0185								
NGOS-DKE-	3204	2	2001	0	0	0	0	0
20050725-1-0062								
NGOS-DKE-	3205	2	2001	0	0	0	0	0
20050724-1-0001								
NGOS-DKE-	3206	3	2001	0	0	0	0	0
20050726-1-0007								
NGOS-DKE-	3207	3	2001	0	0	0	0	0
20050728-1-0069								
NGOS-DKE-	3208	3	2001	0	0	0	0	0
20050726-1-0039								
NGOS-DKE-	3209	2	2001	0	0	0	0	0
20050727-1-10050								
NGOS-DKE-	3210	2	2001	0	0	0	0	0
20050726-1-0055								
NGOS-KL-	3211	2	2001	0	0	0	0	0
20040626-1-0010								
20050812-EAF-	3212	2	2001	0	0	0	0	0
0054								
NGOS-KL-	3213	1	2001	0	0	0	0	0
20040617-1-0009								
DOR_19-AUG-	3214	2	2001	0	0	0	0	0
06_HW9_HEV_035								
NGOS-DKE-	3215	2	2001	0	0	0	0	0
20050728-1-0131								
NMML-DKE-	3216	3	2001	0	0	0	0	0
2005JUL09-894-								
013								
SWFC-ADL-	3217	3	2001	0	0	0	0	0
20040810-B-0012								
SWFC-DEG-	3218	2	2001	0	0	0	0	0
20040910-D-0131								
NGOS-TM-	3219	2	2001	0	0	0	0	0
20040624-1-0047								
NGOS-TM-	3220	2	2001	0	0	0	0	0
20040701-1-0009								
NGOS-TM-	3222	2	2001	0	0	0	0	0
20040901-1-0078								
NGOS-TM-	3223	3	2001	0	0	0	0	0
20050613-1-0003								
05OD_01-SEP-	3224	3	2001	0	0	0	0	0
05_S556_PJC1_360								
SWFC-DEG-	3225	3	2001	0	0	0	0	0
20040904-A-0036								
SWFC-DEG-	3226	2	2001	0	0	0	0	0

20040904-A-0031								
NMML-KP-	3227	2	2001	0	0	0	0	0
20040726-17-016								
NMML-JD-	3228	3	2001	0	0	0	0	0
20040723-12-006								
NMML-KP-	3229	2	2001	0	0	0	0	0
20040721-02-045								
SWFC-AJC-	3230	2	2001	0	0	0	0	0
20040914-D-0047								
SWFC-LGT-	3231	2	2001	0	0	0	0	0
20040903-A-0079								
NMML-HOF-	3232	3	2001	0	0	0	0	0
2005JUN25-604-								
019								
SWFC-LLZ-	3233	3	2001	0	0	0	0	0
20040901-A-0041								
SWFC-JPB-	3234	3	2001	0	0	0	0	0
20040810-D-0016								
SWFC-RLP-	3235	2	2001	0	0	0	0	0
20040901-R-0003								
SWFC-RLP-	3236	2	2001	0	0	0	0	0
20040914-A-0030								
SWFC-RLP-	3237	2	2001	0	0	0	0	0
20040902-R-0040								
SWFC-RLP-	3238	2	2001	0	0	0	0	0
20040914-A-0025								
SWFC-HOF-	3239	3	2001	0	0	0	0	0
20040901-B-0025								
SWFC-HOF-	3240	3	2001	0	0	0	0	0
20040901-B-0104								
SWFC-HOF-	3241	2	2001	0	0	0	0	0
20040901-B-106								
05OD_04-SEP-	3242	2	2001	0	0	0	0	0
05_S559_BKR1_059								
05OD_01-SEP-	3243	3	2001	0	0	0	0	0
05_S556_PJC1_259								
DOR_15-AUG-	3244	2	2001	0	0	0	0	0
06_HW2_HEV_085								
DOR_15-AUG-	3245	2	2001	0	0	0	0	0
06_HW1_DKE_023								
NMML-BP-	3246	2	2001	0	0	0	0	0
20040816-56-003								
NGOS-DKE-	3247	2	2001	0	0	0	0	0
20050728-1-0098								
NMML-LGM-	3248	2	2001	0	0	0	0	0
20040701-F6-024								
SWFC-CSO-	3249	3	2001	0	0	0	0	0
20040827-B-0041								
NMML-KP-	3250	3	2001	0	0	0	0	0
20040726-18-003								
NGOS-KL-	3251	2	2001	0	0	0	0	0
20040617-1-0035								
20050813-EAF-	3252	2	2001	0	0	0	0	0
0014								
20050904-EAF-	3253	3	2001	0	0	0	0	0
0034								
NGOS-KL-	3254	2	2001	0	0	0	0	0

20040725-1-0002									
NGOS-TM-	3255	2	2001	0	0	0	0	0	0
20050624-1-0046									
NGOS-DP-	3256	2	2001	0	0	0	0	0	0
20040712-1-0026									
NGOS-TM-	3257	3	2001	0	0	0	0	0	0
20040901-1-0066									
SWFC-LGT-	3258	2	2001	0	0	0	0	0	0
20040910-A-0066									
NGOS-DKE-	3259	2	2001	0	0	0	0	0	0
20050725-1-0040									
NGOS-DKE-	3260	2	2001	0	0	0	0	0	0
20050728-1-0148									
SWFC-LLZ-	3261	2	2001	0	0	0	0	0	0
20040913-A-0068									
NGOS-DKE-	3262	2	2001	0	0	0	0	0	0
20050718-1-0035									
05OD_07-SEP-	3263	2	2001	0	0	0	0	0	0
05_S617_BKR1_122									
NGOS-DKE-	3264	2	2001	0	0	0	0	0	0
20050725-1-0018									
DOR_15-AUG-	3265	3	2001	0	0	0	0	0	0
06_HW2_HEV_081									
NGOS-KW-	3266	3	2001	0	0	0	0	0	0
20040721-1-0007									
29AUG2003 R8 F30	3267	2	2001	0	0	0	0	0	0
NGOS-DE-	3268	3	2001	0	0	0	0	0	0
20040817-1-0028									
DOR_18-AUG-	3269	3	2001	0	0	0	0	0	0
06_HW1_HEV_022									
DOR_26-JUL-	3270	2	2001	0	0	0	0	0	0
06_HW1_HEV_040									
DOR_18-AUG-	3271	2	2001	0	0	0	0	0	0
06_HW2_HEV_006									
NGOS-DKE-	3272	3	2001	0	0	0	0	0	0
20050728-1-0028									
NGOS-KL-	3273	3	2001	0	0	0	0	0	0
20040617-1-0008									
DOR_26-JUL-	3274	2	2001	0	0	0	0	0	0
06_HW1_HEV_054									
NGOS-TM-	3275	3	2001	0	0	0	0	0	0
20040901-1-0103									
SWFC-MFR-	3276	2	2001	0	0	0	0	0	0
20040902-A-0108									
NGOS-DKE-	3277	3	2001	0	0	0	0	0	0
20050725-1-0083									
NGOS-DKE-	3278	3	2001	0	0	0	0	0	0
20050715-1-0035									
NGOS-TM-	3279	3	2001	0	0	0	0	0	0
20040904-1-0024									
NGOS-COM-	3280	3	2001	0	0	0	0	0	0
20050717-1-1939									
SWFC-MFR-	3281	2	2001	0	0	0	0	0	0
20050914-E-0051									
NGOS-KEL-	3282	2	2001	0	0	0	0	0	0
20050822-1-0126									
NMML-DKE-	3283	3	2001	0	0	0	0	0	0

2005JUL08-861-005									
20050814-EAF-0134	3284	2	2001	0	0	0	0	0	0
NGOS-DP-20040712-1-0012	3285	2	2001	0	0	0	0	0	0
15JUL2003 R4 F15a	3286	3	2001	0	0	0	0	0	0
NGOS-DKE-20050728-1-0146	3287	2	2001	0	0	0	0	0	0
NGOS-TM-20040630-1-0014	3288	2	2001	0	0	0	0	0	0
NGOS-DE-20040809-1-0014	3289	2	2001	0	0	0	0	0	0
GNOSWFC-DKE-2005072801-011	3290	2	2001	0	0	0	0	0	0
DOR_15-AUG-06_HW2_HEV_097	3291	2	2001	0	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_024	3292	3	2001	0	0	0	0	0	0
NGOS-COM-20050717-1-1863	3293	2	2001	0	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_022	3294	3	2001	0	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_017	3295	3	2001	0	0	0	0	0	0
NGOS-DKE-20050726-1-0035	3296	1	2001	0	0	0	0	0	0
NGOS-DKE-20050728-1-0082	3297	2	2001	0	0	0	0	0	0
05OD_04-SEP-05_S559_BKR1_009	3298	3	2001	0	0	0	0	0	0
NGOS-DKE-20050717-1-0093	3299	2	2001	0	0	0	0	0	0
SWFC-LGT-20040910-A-0057	3300	2	2001	0	0	0	0	0	0
29AUG2003 R8 F19	3301	3	2001	0	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_241	3302	2	2001	0	0	0	0	0	0
20050820-EAF-0033	3303	2	2001	0	0	0	0	0	0
20050901-EAF-0379	3304	2	2001	0	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_055	3305	2	2001	0	0	0	0	0	0
SWFC-JRB-20040909-B-0054	3306	1	2001	0	0	0	0	0	0
DOR_02-AUG-06_HW1_HEV_003	3307	2	2001	0	0	0	0	0	0
NGOS-DE-20040815-1-0008	3308	2	2001	0	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_042	3309	2	2001	0	0	0	0	0	0
NGOS-COM-20050718-1-1978	3310	2	2001	0	0	0	0	0	0
DOR_04-AUG-06_HW1_HEV_047	3311	2	2001	0	0	0	0	0	0

04OC_01-SEP-	3312	2	2001	0	0	0	0	0
05_S556_PJC1_087								
05OD_31-AUG-	3313	2	2001	0	0	0	0	0
05_S532_PJC1_066								
SWFC-JRB-	3314	2	2001	0	0	0	0	0
20040901-D-0028								
SWFC-ADL-	3315	2	2001	0	0	0	0	0
20040810-B-0001								
SWFC-CSO-	3316	2	2001	0	0	0	0	0
20040827-B-0009								
20050813-EAF-	3317	3	2001	0	0	0	0	0
0025								
SWFC-DEG-	3318	2	2001	0	0	0	0	0
20040914-C-0064								
DOR_02-AUG-	3319	3	2001	0	0	0	0	0
06_HW1_HEV_008								
NMML-KP-	3320	3	2001	0	0	0	0	0
20040722-09-005								
NGOS-DKE-	3321	3	2001	0	0	0	0	0
20050728-1-0047								
20050818-EAF-	3322	2	2001	0	0	0	0	0
0006								
20050824-EAF-	3323	3	2001	0	0	0	0	0
0013								
NGOS-DKE-	3324	2	2001	0	0	0	0	0
20050728-1-0109								
05OD_01-SEP-	3325	2	2001	0	0	0	0	0
05_S556_BKR1_136								
DOR_06-AUG-	3326	2	2001	0	0	0	0	0
06_HW2_HEV_012								
SWFC-AJC-	3327	2	2001	0	0	0	0	0
20040914-D-0043								
DOR_04-AUG-	3328	2	2001	0	0	0	0	0
06_HW1_HEV_029								
NGOS-DKE-	3329	3	2001	0	0	0	0	0
20050726-1-0021								
NGOS-TM-	3330	2	2001	0	0	0	0	0
20040828-1-0045								
DOR_28-JUL-	3331	2	2001	0	0	0	0	0
06_HW1_HEV_002								
05OD_01-SEP-	3332	1	2001	0	0	0	0	0
05_S556_PJC1_022								
SWFC-JRB-	3333	2	2001	0	0	0	0	0
20040903-C-0056								
SWFC-LLZ-	3334	1	2001	0	0	0	0	0
20040901-A-0070								
NGOS-DP-	3335	2	2001	0	0	0	0	0
20040712-1-0023								
NGOS-DP-	3336	1	2001	0	0	0	0	0
20040710-1-0020								
SWFC-MFR-	3337	2	2001	0	0	0	0	0
20040902-A-0107								
DOR_120AUG-	3338	1	2001	0	0	0	0	0
06_HW1_HEV_039								
DOR_26-JUL-	3339	2	2001	0	0	0	0	0
06_HW1_HEV_072								
DOR_26-JUL-	3340	2	2001	0	0	0	0	0

20050831-EAF-0100	3369	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0086	3370	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0093	3372	1	2001	0	0	0	0	0
NGOS-DP-20040803-2-0011	3373	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0149	3374	1	2001	0	0	0	0	0
NMML-DKE-2005JUL09-893-005	3375	3	2001	0	0	0	0	0
20050901-EAF-0370	3376	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0137	3377	2	2001	0	0	0	0	0
NGOS-KL-20040725-1-0025	3378	2	2001	0	0	0	0	0
NGOS-KEL-20040822-1-0264	3379	3	2001	0	0	0	0	0
NGOS-TM-20040624-1-0004	3380	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0097	3381	2	2001	0	0	0	0	0
NGOS-TM-20040828-1-0085	3383	2	2001	0	0	0	0	0
NGOS-TM-20040624-1-0037	3384	2	2001	0	0	0	0	0
NGOS-TM-20040828-1-0007	3385	1	2001	0	0	0	0	0
DOR_19-AUG-06_HW6_HEV_009	3386	2	2001	0	0	0	0	0
NGOS-TM-20040901-1-0029	3387	1	2001	0	0	0	0	0
SWFC-MHD-20040903-B-0116	3388	3	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_014	3389	1	2001	0	0	0	0	0
DOR_06-AUG-06_HW2_HEV_010	3390	1	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_004	3391	2	2001	0	0	0	0	0
SWFC-AJC-20040914-D-0045	3392	2	2001	0	0	0	0	0
20050901-EAF-0417	3393	3	2001	0	0	0	0	0
20050827-EAF-0144	3394	3	2001	0	0	0	0	0
20050816-EAF-0063	3395	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0025	3396	1	2001	0	0	0	0	0
05OD_07-SEP-05_S617_PJC1_148	3397	2	2001	0	0	0	0	0
20050816-EAF-0027	3398	3	2001	0	0	0	0	0

20050821-EAF-0300	3399	2	2001	0	0	0	0	0
05OD_07-SEP-05_S617_PJC1_069	3400	2	2001	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_063	3401	2	2001	0	0	0	0	0
NMML-COM-2004JUN25-604-008	3402	3	2001	0	0	0	0	0
04OD_01-SEP-05_S556_PJC1_331	3403	3	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_086	3404	2	2001	0	0	0	0	0
11JULY2003_R1 F24	3405	3	2001	0	0	0	0	0
NGOS-COM-20050717-1-1898	3407	2	2001	0	0	0	0	0
DOR_12-AUG-06_HW1_DKE_009	3408	3	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_071	3409	1	2001	0	0	0	0	0
DOR_12-AUG-06_HW1_DKE_033	3410	2	2001	0	0	0	0	0
NGOS-COM-20050717-1-1839	3411	2	2001	0	0	0	0	0
20050901-EAF-0404	3412	1	2001	0	0	0	0	0
20050816-EAF-0076	3413	2	2001	0	0	0	0	0
20050827-EAF-0162	3414	3	2001	0	0	0	0	0
20050901-EAF-0459	3415	2	2001	0	0	0	0	0
20050821-EAF-0238	3416	3	2001	0	0	0	0	0
20050821-EAF-0284	3417	2	2001	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_233	3418	2	2001	0	0	0	0	0
05OD_06-SEP-05_S616_MDN1_002	3419	2	2001	0	0	0	0	0
28AUG2003 R5 F11	3420	1	2001	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_151	3421	2	2001	0	0	0	0	0
05OD_07-SEP-05_S617_BRK1_277	3422	2	2001	0	0	0	0	0
05OS_01-SEP-05-S556_BKR1_247	3423	2	2001	0	0	0	0	0
SWFC-CSO-20040827-B-0010	3424	3	2001	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_109	3425	2	2001	0	0	0	0	0
NMML-EAM-20040701-F7-036	3426	2	2001	0	0	0	0	0
SWFC-CSO-20040913-D-0113	3427	2	2001	0	0	0	0	0
05OD_07-SEP-	3428	2	2001	0	0	0	0	0

DOR_15-AUG- 06_HW1_HEV_012	3458	2	2001	0	0	0	0	0
SWFC-HOF- 20040901-B-0086	3459	1	2001	0	0	0	0	0
SWFC-LGT- 20040903-A-0030	3460	2	2001	0	0	0	0	0
SWFC-CSO- 20040827-B-0004	3461	2	2001	0	0	0	0	0
NMML-KP- 20040721-02-019	3462	2	2001	0	0	0	0	0
NMML-JD- 20040723-12-009	3463	2	2001	0	0	0	0	0
SWFC-LGT- 20040910-A-0037	3464	2	2001	0	0	0	0	0
NMML-SEY- 20040616-1-001	3465	2	2001	0	0	0	0	0
NGOS-COM- 20050718-1-1967	3466	2	2001	0	0	0	0	0
NGOS-TM- 20040831-1-0008	3467	1	2001	0	0	0	0	0
NGOS-TM- 20040901-1-0065	3468	2	2001	0	0	0	0	0
SWFC-HOF- 20040901-B-0019	3469	1	2001	0	0	0	0	0
SWFC-DEG- 20040910-D-0152	3470	2	2001	0	0	0	0	0
SWFC-LGT- 20040903-A-0008	3471	2	2001	0	0	0	0	0
SWFC-CSO- 20040913-D-0111	3472	2	2001	0	0	0	0	0
NGOS-TM- 20040829-1-0037	3473	2	2001	0	0	0	0	0
SWFC-DEG- 20040808-C-0011	3474	1	2001	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_055	3475	1	2001	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_060	3476	1	2001	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_053	3477	1	2001	0	0	0	0	0
NGOS-KL- 20040626-1-0029	3478	1	2001	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_012	3479	1	2001	0	0	0	0	0
NGOS-TM- 20040615-1-0003	3480	2	2001	0	0	0	0	0
NGOS-KL- 20040626-1-0015	3482	1	2001	0	0	0	0	0
NGOS-TM- 20040828-1-0034	3483	2	2001	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_029	3484	1	2001	0	0	0	0	0
NGOS-TM- 20040901-1-0110	3485	1	2001	0	0	0	0	0
20050821-EAF- 0287	3486	1	2001	0	0	0	0	0
05OD_31-AUG-	3487	2	2001	0	0	0	0	0

05_S523_PJC1_039								
NGOS-KL-	3488	1	2001	0	0	0	0	0
20040617-1-0036								
NGOS-20040829-1-	3489	2	2001	0	0	0	0	0
0004								
NGOS-DKE-	3490	1	2001	0	0	0	0	0
20050717-1-0195								
NGOS-DE-	3491	2	2001	0	0	0	0	0
20040810-1-0018								
05OD_01-SEP-	3492	2	2001	0	0	0	0	0
05_S556_PJC1_123								
NGOS-DE-	3493	1	2001	0	0	0	0	0
20040817-1-0031								
NGOS-KEL-	3494	1	2001	0	0	0	0	0
20050822-1-0219								
NGOS-D-20040803-	3495	1	2001	0	0	0	0	0
2-0014								
NGOS-JA-	3496	1	2001	0	0	0	0	0
20040803-1-0002								
29AUG2003 R8 F35	3497	2	2001	0	0	0	0	0
NGOS-DKE-	3498	1	2001	0	0	0	0	0
20050728-1-0155								
05OD_07-SEP-	3499	1	2001	0	0	0	0	0
05_S617_BKR1_045								
05OD_01-SEP-	3500	1	2001	0	0	0	0	0
05_S556_PJC1_274								
DOR_01-AUF-	3501	2	2001	0	0	0	0	0
06_HW1_SEM_043								
NGOS-DKE-	3502	1	2001	0	0	0	0	0
20050724-1-0006								
NGOS-TM-2040628-	3503	1	2001	0	0	0	0	0
1-0016								
NGOS-TM-	3504	1	2001	0	0	0	0	0
20040613-1-0005								
NGOS-KW-	3505	1	2001	0	0	0	0	0
20040721-1-0012								
NGOS-KW-	3506	2	2001	0	0	0	0	0
20040721-1-0006								
NMML-EAM-	3507	1	2001	0	0	0	0	0
20040701-F8-010								
NGOS-COM-	3508	2	2001	0	0	0	0	0
20050717-1-1933								
NGOS-COM-	3509	3	2001	0	0	0	0	0
20050717-1-1937								
DOR_26-JUL-	3510	2	2001	0	0	0	0	0
06_HW1_HEV_068								
20050813-EAF-	3511	3	2001	0	0	0	0	0
0026								
NGOS-KEL-	3512	1	2001	0	0	0	0	0
20050822-0231								
SWFC-RLP-	3513	2	2001	0	0	0	0	0
20040903-R-0024								
20050813-EAF-	3514	2	2001	0	0	0	0	0
0015								
20050813-EAF-	3515	1	2001	0	0	0	0	0
0048								
SWFC-SEH-	3516	1	2001	0	0	0	0	0

20050901-EAF-0372	3547	3	2001	0	0	0	0	0
20050812-EAF-0019	3548	3	2001	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_037	3549	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0006	3550	3	2001	0	0	0	0	0
NGOS-DP-20040803-2-0004	3551	3	2001	0	0	0	0	0
NGOS-DKE-20050725-1-0022	3552	2	2001	0	0	0	0	0
DOR_19-AUG-06_HW8_HEV_003	3553	3	2001	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_015	3554	2	2001	0	0	0	0	0
DOR_19-AUG-06_HW12_DKE_008	3555	2	2001	0	0	0	0	0
DOR_12-AUG-06_HW1_DKE_039	3556	2	2001	0	0	0	0	0
NGOS-DKE-20050725-1-0024	3557	2	2001	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_071	3558	3	2001	0	0	0	0	0
1AUG2003 R3 F28	3559	2	2001	0	0	0	0	0
NGOS-KL-20040614-1-0001	3560	2	2001	0	0	0	0	0
20050816-EAF-0092	3561	3	2001	0	0	0	0	0
SWFC-SCR-20040910-D-0159	3562	3	2001	0	0	0	0	0
20050813-EAF-0023	3563	2	2001	0	0	0	0	0
DOR_19-AUG-06_HW5_HEV_005	3564	2	2001	0	0	0	0	0
NGOS_DKE-20050726-1-0061	3565	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0007	3566	3	2001	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_060	3567	2	2001	0	0	0	0	0
NGOS-DKE-20050724-1-0004	3568	3	2001	0	0	0	0	0
NGOS_DKE-20050717-1-0126	3569	3	2001	0	0	0	0	0
20050901-EAF-0426	3570	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0147	3571	3	2001	0	0	0	0	0
SWFC-RLP-200409014-A-0016	3572	3	2001	0	0	0	0	0
SWFC-LLZ-20040901-A-0035	3573	3	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0151	3574	3	2001	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_076	3575	3	2001	0	0	0	0	0

NMML-HOF-	3576	2	2001	0	0	0	0	0
2005JUN25-604-01								
DOR_19-AUG-	3577	2	2001	0	0	0	0	0
06_HW6_HEV_005								
DOR_12-AUG-	3578	2	2001	0	0	0	0	0
06_HW1_HEV_019								
SWFC-LGT-	3579	3	2001	0	0	0	0	0
20040903-A-0051								
SWFC-MFR-	3580	2	2001	0	0	0	0	0
20040910-E-0017								
DOR_07-AUG-	3581	2	2001	0	0	0	0	0
06_HW1_HEV_010								
01AUG2003 R2 F35	3582	2	2001	0	0	0	0	0
05OD_01-SEP-	3583	3	2001	0	0	0	0	0
05_S556_BKR1_093								
05OD_01-SEP-	3584	3	2001	0	0	0	0	0
05_S556_BKR1_071								
SWFC-LLZ-	3585	3	2001	0	0	0	0	0
20040914-C-0052								
NGOS-COM-	3587	3	2001	0	0	0	0	0
20050717-1-1850								
NGOS-DKE-	3588	3	2001	0	0	0	0	0
20050728-1-0150								
DOR_15-AUG-	3589	3	2001	0	0	0	0	0
06_HW1_HEV_103								
DOR_06-AUG-	3590	2	2001	0	0	0	0	0
06_HW2_HEV_011								
20050824-EAF-	3591	3	2001	0	0	0	0	0
0070								
NGOS-DKE-	3592	3	2001	0	0	0	0	0
20050717-1-0059								
20050901-EAF-	3593	2	2001	0	0	0	0	0
0455								
NMML-JD-	3594	2	2001	0	0	0	0	0
20040722-10-0004								
29AUG2003 R9 F12	3595	2	2001	0	0	0	0	0
DOR_18-AUG-	3596	2	2001	0	0	0	0	0
06_HW3_HEV_001								
NGOS-TM-	3597	2	2001	0	0	0	0	0
20040831-1-0016								
SWFC-LLZ-	3598	3	2001	0	0	0	0	0
20040827-A-0024								
SWFC-DEG-	3599	2	2001	0	0	0	0	0
20040910-D-0113								
NGOS-DKE-	3600	2	2001	0	0	0	0	0
20050728-1-0018								
DOR_04-AUG-	3601	2	2001	0	0	0	0	0
06_HW1_HEV_001								
DOR_01-AUG-	3602	2	2001	0	0	0	0	0
06_HW1_SEM_030								
SWFC-HOF-	3603	3	2001	0	0	0	0	0
20040908-B-0006								
DOR_26-JAL-	3604	2	2001	0	0	0	0	0
06_HW1_HEV_52								
NGOS-DKE-	3605	3	2001	0	0	0	0	0
20050717-1-0037								
NGOS-TM-	3606	3	2001	0	0	0	0	0

20040628-1-0008									
DOR_19-AUG-	3607	3	2001	0	0	0	0	0	0
06_HW10_HEV_005									
NGOS-DKE-	3608	2	2001	0	0	0	0	0	0
20050728-1-0105									
DOR_07-AUG-	3609	3	2001	0	0	0	0	0	0
06_HW1_HEV_014									
NMML-KP-	3610	3	2001	0	0	0	0	0	0
20040726-17-002									
NGOS-DE-	3611	2	2001	0	0	0	0	0	0
20040810-1-0021									
NGOS-COM-	3612	1	2001	0	0	0	0	0	0
20050717-1-1962									
DOR_15-AUG-	3613	2	2001	0	0	0	0	0	0
06_HW1_HEV_057									
DOR_15-AUG-	3614	3	2001	0	0	0	0	0	0
06_HW1_HEV_027									
NGSWFC-KEL-	3615	2	2001	0	0	0	0	0	0
20050822-1-011									
05OD_07-SEP-	3616	3	2001	0	0	0	0	0	0
05_S617_BKR1_162									
DOR_19-AUG-	3617	2	2001	0	0	0	0	0	0
06_HW9_HEV_008									
20050901-EAF-	3618	2	2001	0	0	0	0	0	0
0448									
20050901-EAF-	3619	3	2001	0	0	0	0	0	0
0454									
20050816-EAF-	3620	3	2001	0	0	0	0	0	0
0127									
SWFC-LGT-	3621	1	2001	0	0	0	0	0	0
20040903-A-0104									
20050901-EAF-047	3623	2	2001	0	0	0	0	0	0
NGOS-DE-	3624	2	2001	0	0	0	0	0	0
20040810-1-0026									
NGOS-TM-	3625	2	2001	0	0	0	0	0	0
20040829-1-0007									
20050816-EAF-	3626	2	2001	0	0	0	0	0	0
0079									
20050816-EAF-	3627	3	2001	0	0	0	0	0	0
0140									
SWFC-MFR-	3628	2	2001	0	0	0	0	0	0
20040902-A-0155									
05OD_04-SEP-	3629	3	2001	0	0	0	0	0	0
05_S559_BKR1_050									
NMML-JD-	3630	2	2001	0	0	0	0	0	0
20040727-19-006									
NGOS-TM-	3631	2	2001	0	0	0	0	0	0
20040613-1-0039									
05OD_040SEP-	3632	2	2001	0	0	0	0	0	0
05_S559_BKR1_055									
DOR_12-AUG-	3633	3	2001	0	0	0	0	0	0
06_HW1_HEV_024									
DOR_26-JUL-	3634	2	2001	0	0	0	0	0	0
06_HW1_HEV_041									
NGOS-DKE-	3635	2	2001	0	0	0	0	0	0
20050717-1-0160									
DOR_26-JUL-	3636	2	2001	0	0	0	0	0	0

06_HW1_HEV_050									
NMML-COM-	3638	3	2001	0	0	0	0	0	0
2005JUN25-604-									
061									
DOR_18-AUG-	3639	3	2001	0	0	0	0	0	0
06_HW5_HEV_017									
SWFC-LLZ-	3640	2	2001	0	0	0	0	0	0
20040913-A-0078									
SWFC-LGT-	3641	3	2001	0	0	0	0	0	0
20040903-A-0137									
05OD_01-SEP-	3642	2	2001	0	0	0	0	0	0
05)S556_BKR1_023									
NMML-DKE-	3643	3	2001	0	0	0	0	0	0
2005JUL08-861-									
006									
SWFC-LLZ-	3644	3	2001	0	0	0	0	0	0
20040901-A-0090									
DOR_12-AUG-	3645	2	2001	0	0	0	0	0	0
06_HW1_HEV_063									
NGOS-DP-	3646	2	2001	0	0	0	0	0	0
20040711-1-0002									
SWFC-DEG-	3647	3	2001	0	0	0	0	0	0
20040808-C-0022									
NGOS-DKE-	3648	3	2001	0	0	0	0	0	0
20050726-1-0056									
DOR_01-AUG-	3649	2	2001	0	0	0	0	0	0
06_HW1_HEV_092									
NMML-COM-	3650	2	2001	0	0	0	0	0	0
2005JUN25-604-80									
SWFC-RLP-	3651	2	2001	0	0	0	0	0	0
20040914-A-0015									
SWFC-ADL-	3652	2	2001	0	0	0	0	0	0
20040810-B-0021									
NGOS0COM-	3653	3	2001	0	0	0	0	0	0
20050717-1-1882									
20050816-EAF-134	3654	2	2001	0	0	0	0	0	0
NGOS-DE-	3655	2	2001	0	0	0	0	0	0
20040815-1-0002									
DOR_19-AUG-	3656	2	2001	0	0	0	0	0	0
06_HW6_HEV_010									
05OD_31-AUG-	3657	2	2001	0	0	0	0	0	0
05_S523_PJC1_072									
DOR_15-AUG-	3658	3	2001	0	0	0	0	0	0
06_HW1_HEV_022									
NGOS-COM-	3659	3	2001	0	0	0	0	0	0
20050717-1-1843									
NGOS-COM-	3660	2	2001	0	0	0	0	0	0
20050717-1-1947									
NGOS-DKE-	3661	1	2001	0	0	0	0	0	0
20050717-1-0201									
NGOS-KEL-	3662	2	2001	0	0	0	0	0	0
20050822-1-0044									
DOR_12-AUG-	3663	2	2001	0	0	0	0	0	0
06_HW1_DKE_005									
20050816-EAF-	3664	3	2001	0	0	0	0	0	0
0154									
NGOS-DKE-	3665	2	2001	0	0	0	0	0	0

20050816-EAF-0139	3694	2	2001	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_122	3695	3	2001	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_266	3696	2	2001	0	0	0	0	0
NGOS-COM-20050717-1-1934	3697	2	2001	0	0	0	0	0
NGOS-TM-20040613-1-0033	3698	1	2001	0	0	0	0	0
29AUG2003 R9 F21	3699	2	2001	0	0	0	0	0
SWFC-LGT-20040903-A-0151	3700	1	2001	0	0	0	0	0
20050824-EAF-0071	3701	2	2001	0	0	0	0	0
NGOS-DKE-20050725-1-0041	3702	2	2001	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_267	3703	2	2001	0	0	0	0	0
NGOS-DKE-20050728-1-0153	3704	2	2001	0	0	0	0	0
SWFC-DEG-20040904-A-0024	3705	2	2001	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_181	3706	3	2001	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_206	3707	2	2001	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_014	3708	1	2001	0	0	0	0	0
NGOS-DKE-20050725-1-0017	3709	1	2001	0	0	0	0	0
2001-UN-1718-10	401002	3	2001	0	0	1	0	1
2001-UN-1718-13	401004	1	2001	0	0	1	0	1
2001-UN-1718-14	401005	2	2001	0	0	1	0	1
2001-UN-1718-17	401006	2	2001	0	0	1	0	1
29AUG2003 R9 FE	401614	3	2001	0	0	1	0	1
2002-UN-2349-20	401104	2	2001	0	0	0	0	0
2002-UN-2349-28	401107	3	2001	0	0	0	0	0
1AUG2003 R3 F34	401531	2	2001	0	0	0	0	0
2002-AL-2308-3a	401201	3	2001	0	0	0	0	0
2002-AL-2308-13a	401203	1	2001	0	0	0	0	0
2002-AL-2308-19a	401205	2	2001	0	0	0	0	0
2002-AL-2308-24a	401207	2	2001	0	0	0	0	0
2002-AL-2308-26a	401209	2	2001	0	0	0	0	0
2002-AL-2308-29a	401210	1	2001	0	0	0	0	0
2002-AL-2307-15	401217	1	2001	0	0	0	0	0
2002-AL-2307-22	401218	2	2001	0	0	0	0	0
2002-AL-2307-32	401220	2	2001	0	0	0	0	0
2002-AL-2307-E	401221	1	2001	0	0	0	0	0
2002-AL-2344-12	401224	2	2001	0	0	0	0	0
2002-AL-2344-13	401225	2	2001	0	0	0	0	0
2002-AL-2344-25	401227	2	2001	0	0	0	0	0
2002-AL-2344-27	401228	1	2001	0	0	0	0	0
2002-AL-2345-19	401230	3	2001	0	0	0	0	0
2002-AL-2343-13	401247	3	2001	0	0	0	0	0
2002-AL-2343-18	401232	3	2001	0	0	0	0	0
2002-AL-2343-23	401233	2	2001	0	0	0	0	0

2002-AL-2343-24	401234	2	2001	0	0	0	0	0
2002-AL-2343-26	401235	2	2001	0	0	0	0	0
2002-AL-2343-32	401237	1	2001	0	0	0	0	0
2002-AL-2343-33	401238	2	2001	0	0	0	0	0
2002-AL-2343-35	401239	2	2001	0	0	0	0	0
2002-AL-2345-1	401240	1	2001	0	0	0	0	0
2002-AL-2345-8	401244	2	2001	0	0	0	0	0
2002-AL-2345-14	401246	2	2001	0	0	0	0	0
2002-AL-2345-18	401248	2	2001	0	0	0	0	0
2002-AL-2345-22	401251	2	2001	0	0	0	0	0
2002-AL-2345-E	401256	3	2001	0	0	0	0	0
2002-AL-2571-3	401258	2	2001	0	0	0	0	0
2002-QL-2571-5	401260	3	2001	0	0	0	0	0
10JUN2003 R1 F7	401404	2	2001	0	0	0	0	0
31JUL2003 R5 F19	401463	2	2001	0	0	0	0	0
10JUN2003 R1 F8	401405	3	2001	0	0	0	0	0
10JUN2003 R1 F18	401408	2	2001	0	0	0	0	0
10JUN2003 R1 F21	401409	3	2001	0	0	0	0	0
10JUN2003 R1 F22	401410	2	2001	0	0	0	0	0
15JUL2003 R4 F25	401451	1	2001	0	0	0	0	0
21JUN2003 R2 F17	401422	2	2001	0	0	0	0	0
5JUL2003 R2 F22	401425	1	2001	0	0	0	0	0
8JUL2003 R2 F29	401428	2	2001	0	0	0	0	0
8JUL2003 R2 F32	401429	2	2001	0	0	0	0	0
8JUL2003 R2 F33	401430	2	2001	0	0	0	0	0
8JUL2003 R3 F2	401431	1	2001	0	0	0	0	0
8JUL2003 R3 F25	401436	1	2001	0	0	0	0	0
12JUL2003 R3 F28	401437	1	2001	0	0	0	0	0
12JUL2003 R3 F30	401439	3	2001	0	0	0	0	0
12JUL2003 R3 F32	401441	2	2001	0	0	0	0	0
15JUL2003 R4 F5a	401444	2	2001	0	0	0	0	0
30JUL2003 R5 F4	401455	2	2001	0	0	0	0	0
31JUL2003 R5 F8	401457	2	2001	0	0	0	0	0
31JUL2003 R5 F10	401458	3	2001	0	0	0	0	0
31JUL2003 R5 F12	401460	2	2001	0	0	0	0	0
31JUL2003 R5 F14	401462	1	2001	0	0	0	0	0
31JUL2003 R5 F26	401466	3	2001	0	0	0	0	0
31JUL2003 R5 F27	401467	2	2001	0	0	0	0	0
31JUL2003 R5 FE	401471	2	2001	0	0	0	0	0
11JULY2003 R1	401504	2	2001	0	0	0	0	0
F10								
11JULY2003 R1 F5	401502	2	2001	0	0	0	0	0
11JULY2003 R1	401512	2	2001	0	0	0	0	0
F26								
11JULY2003 R1	401514	2	2001	0	0	0	0	0
F32								
29JULY2003 R2	401518	2	2001	0	0	0	0	0
F13								
29JULY2003 R2	401520	2	2001	0	0	0	0	0
F18								
29JULY2003 R2	401521	3	2001	0	0	0	0	0
F20								
4AUG2003 R4 F6	401534	1	2001	0	0	0	0	0
5AUG2003 R4 F22	401538	2	2001	0	0	0	0	0
28AUG2003 R5 F8	401546	2	2001	0	0	0	0	0
7AUG2003 R4 F34	401541	3	2001	0	0	0	0	0
7AUG2003 R5 F4	401544	2	2001	0	0	0	0	0

7AUG2003 R5 F5	401545	1	2001	0	0	0	0	0
28AUG2003 R5 F16	401549	3	2001	0	0	0	0	0
28AUG2003 R5 F33	401555	3	2001	0	0	0	0	0
29AUG2003 R5 F11	401559	2	2001	0	0	0	0	0
29AUG2003 R5 F9	401558	2	2001	0	0	0	0	0
29AUG2003 R6 F2	401561	2	2001	0	0	0	0	0
29AUG2006 R6 F11	401562	1	2001	0	0	0	0	0
29AUG2003 R7 F1	401566	1	2001	0	0	0	0	0
29AUG2003 R7 F32	401575	2	2001	0	0	0	0	0
29AUG2003 R8 F10	401580	1	2001	0	0	0	0	0
29AUG2003 R8 F17	401581	2	2001	0	0	0	0	0
29AUG2003 R8 F27	401585	2	2001	0	0	0	0	0
29AUG2003 R8 F33	401586	2	2001	0	0	0	0	0
29AUG2003 R8 F20	401583	1	2001	0	0	0	0	0
29AUG2003 R9 F1	401589	2	2001	0	0	0	0	0
29AUG2003 R9 F17	401596	2	2001	0	0	0	0	0
29AUG2003 R9 F18	401597	2	2001	0	0	0	0	0
29AUG2003 R9 F27	401601	3	2001	0	0	0	0	0
29AUG2003 R9 F28	401602	2	2001	0	0	0	0	0
29AUG2003 R9 F34	401603	2	2001	0	0	0	0	0
29AUG2003 R9 F35	401604	2	2001	0	0	0	0	0
29AUG2003 R9 F24	401599	2	2001	0	0	0	0	0
29AUG2003 R6 F26	401609	2	2001	0	0	0	0	0
29AUG2003 R6 F13	401610	2	2001	0	0	0	0	0
29AUG2003 R8 F16	401612	2	2001	0	0	0	0	0
29AUG2003 R7 F23	401616	2	2001	0	0	0	0	0
29AUG2003 R9 F29	401617	2	2001	0	0	0	0	0
			2002	June	July	Aug	Sept	Total sightings
SWFC-MFR- 20040910-E-0016	3000	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0122	3001	3	2002	0	0	0	0	0
NGOS-TM- 20040828-1-0018	3002	3	2002	0	0	0	0	0
NGOS-DKE- 20050725-1-0061	3005	3	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0057	3006	2	2002	0	0	0	0	0
NGOS-DKE- 20050725-0010	3007	2	2002	0	0	0	0	0
20050814-EAF- 0093	3008	3	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0030	3009	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0142	3010	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0065	3011	3	2002	0	0	0	0	0
NGOS-KEL- 20050822-1-0119	3012	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0016	3013	2	2002	0	0	0	0	0
NGOS- KEL20050822-1- 0229	3014	2	2002	0	0	0	0	0
NGOS-TM20040624-	3015	3	2002	0	0	0	0	0

1-0007									
NGOS-	3016	1	2002	0	0	0	0	0	0
KEL20040626-1-									
0027									
NGOS-	3017	2	2002	0	0	0	0	0	0
KEL20040626-1-									
0028									
NGOS-TM20040830-	3018	2	2002	0	0	0	0	0	0
1-0008									
SWFC-RLP-	3019	2	2002	0	0	0	0	0	0
20040914-A-0051									
SWFC-RLP-	3020	1	2002	0	0	0	0	0	0
20040910-R-0020									
20050821-EAF-	3021	2	2002	0	0	0	0	0	0
0255									
05OD_01_SEP-	3022	2	2002	0	1	0	0	0	1
05_S556_BKR1_111									
NGOS-	3023	2	2002	0	0	0	0	0	0
KEL20050822-1-									
0175									
20050821-EAF-	3024	1	2002	0	0	0	0	0	0
0252									
NGOS-DKE-	3025	2	2002	0	0	0	0	0	0
20040617-1-0034									
05OD_07-SEP-	3026	1	2002	0	0	0	0	0	0
05_S617_BKR1_153									
31JUL2003 R5 F23	3027	2	2002	0	0	0	0	0	0
05OD_01_SEP-	3028	3	2002	0	0	0	0	0	0
05_S556_BKR1_077									
05OD_01_SEP-	3029	3	2002	0	0	0	0	0	0
05_S556_PJC1_209									
05OD_01_SEP-	3030	3	2002	0	0	0	0	0	0
05_S556_BKR1_339									
15JUL2003 R4 F4a	3031	3	2002	0	0	0	0	0	0
SWFC-LLZ-	3032	3	2002	0	0	0	0	0	0
20040827-A-0028									
SWFC-HOF-	3033	3	2002	0	0	0	0	0	0
20040901-B-0055									
DOR_-1-AUG-	3034	2	2002	0	0	0	0	0	0
06_HW1_SEM_018									
DOR_040AUG-	3035	3	2002	0	0	0	0	0	0
06_HW1_HEV_035									
DOR_26-JUL-	3036	3	2002	0	0	0	0	0	0
06_HW1_HEV_059									
DOR_12-AUG-	3037	1	2002	0	0	0	0	0	0
06_HW1_HEV_049									
DOR_07-AUG-	3038	2	2002	0	0	0	0	0	0
06_HW1_HEV_011									
DOR_15-AUG-	3039	2	2002	0	0	0	0	0	0
06_HW1_070									
NMML-LJM-	3040	2	2002	0	0	0	0	0	0
20040616-F2-013									
SWFC-LGT-	3041	2	2002	0	0	0	0	0	0
20040910-A-0065									
DOR_15-AUG-	3042	3	2002	0	0	0	0	0	0
06_HW1_HEV_107									
NGOS-COM-	3043	3	2002	0	0	0	0	0	0

NGOS-TM- 20040831-1-0005	3073	3	2002	0	0	0	0	0
NGOS-TM- 20040613-1-0032	3074	3	2002	0	0	0	0	0
NGOS-DP- 20040710-1-0025	3075	3	2002	1	0	0	0	1
NGOS-DP- 20040712-1-0035	3076	2	2002	0	0	0	0	0
NGOS-KEL- 20050822-1-0181	3077	3	2002	0	0	0	0	0
NGOS-COM- 20050717-1-1906	3078	2	2002	0	0	0	0	0
NGOS-KL- 20040626-1-0004	3079	3	2002	0	0	0	0	0
NGOS-DE- 20040810-1-0031	3080	2	2002	0	0	0	0	0
NGOS-TM- 20040901-1-0061	3081	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0130	3082	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0049	3083	3	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0062	3084	2	2002	0	0	0	0	0
NGOS-DKE- 20050718-1-0029	3085	3	2002	0	0	0	0	0
NGOS-DP- 20040712-1-0006	3086	1	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0040	3087	3	2002	0	0	0	0	0
NMML-EAM- 20040701-F7-002	3088	2	2002	0	0	0	0	0
NMML-JB- 20040816-52-002	3089	2	2002	0	0	0	0	0
NGOS-TM-2040901- 1-0034	3090	2	2002	0	0	0	0	0
NGOS-TM- 20040901-1-0115	3091	2	2002	0	0	0	0	0
20050816-EAF- 0075	3092	3	2002	1	0	0	0	1
SWFC-LGT- 20040903-A-0115	3093	3	2002	0	0	0	0	0
NMML-LJM- 20040616-F2-017	3094	2	2002	0	0	0	0	0
NGOS-TM- 20040831-1-0012	3095	3	2002	0	0	0	0	0
NGOS-TM- 20040616-1-0005	3096	3	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_21	3097	2	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_048	3098	2	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_137	3099	2	2002	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_114	3100	3	2002	0	0	0	0	0
05OD_07-SEP-	3101	3	2002	0	0	0	0	0

05_S617_PJC1_091									
05OD_06-SEP-	3102	3	2002	0	0	0	0	0	0
05_S616_MDN1_034									
05OD_07-SEP-	3103	2	2002	0	0	0	0	0	0
05_S617_BKR1_259									
05OD_04-SEP-	3104	2	2002	0	0	0	0	0	0
05_S559_BKR1_065									
05OD_07-SEP-	3105	3	2002	0	1	0	0	0	1
05_S617_BKR1_165									
05OD_01-SEP-	3106	2	2002	0	0	0	0	0	0
05_S556_PJC1_298									
20050814-EAF-0028	3107	1	2002	0	0	0	0	0	0
20050820-EAF-0014	3108	1	2002	0	0	0	0	0	0
20050816-EAF-0009	3109	3	2002	0	0	0	0	0	0
05OD_01-SEP-	3110	2	2002	0	0	0	0	0	0
05_S556_PJC1_311									
2005-EAF-0242	3111	2	2002	0	0	0	0	0	0
05OD_07-SEP-	3112	3	2002	0	0	0	0	0	0
05_S617_BKR1_126									
DOR_12-AUG-	3113	2	2002	0	0	0	0	0	0
06_HW1_HEV_072									
NMML-COM-	3114	2	2002	0	0	0	0	0	0
2005JUN25-604-037									
NGOS-TM-	3115	3	2002	0	0	0	0	0	0
20040907-1-0009									
NGOS-KL-	3116	3	2002	0	0	0	0	0	0
20040617-1-0097									
20050821-EAF-0267	3117	2	2002	0	0	0	0	0	0
05OD_31-AUG-	3118	2	2002	0	0	0	0	0	0
05_S523_PJC1_063									
2005-EAF-0166	3119	1	2002	0	0	0	0	0	0
05OD_01-SEP-	3120	2	2002	0	0	0	0	0	0
05_S556_BKR1_123									
05OD_07-SEP-	3121	2	2002	0	0	0	0	0	0
05_S617_BKR1_110									
DOR_01-AUG-	3122	3	2002	0	0	0	0	0	0
06_HW1_SEM_038									
DOR_01-AUG-	3123	2	2002	0	0	0	0	0	0
06_HW1_HEV_019									
20050901-EAF-0428	3124	2	2002	0	0	0	0	0	0
DOR_01-AUG-	3125	3	2002	0	1	0	0	0	1
06_HW1_HEV_109									
NGOS-DKE-	3126	2	2002	0	0	0	0	0	0
20050726-1-0005									
NGOS-DP-	3127	2	2002	0	0	0	0	0	0
20040712-2-0005									
20050824-EAF-0026	3128	1	2002	0	0	0	0	0	0
20050901-EAF-0410	3129	2	2002	0	0	0	0	0	0
NGOS-DKE-	3130	3	2002	0	0	0	0	0	0

20050728-1-0087									
20050814-EAF-0143	3131	2	2002	0	0	0	0	0	0
20050824-EAF-0062	3132	3	2002	0	0	0	0	0	0
NGOS-KL-2004062601-0011	3133	2	2002	0	0	0	0	0	0
20050827-EAF-0017	3134	2	2002	0	0	0	0	0	0
NGOS-KW-20040721-1-0005	3135	3	2002	0	0	0	0	0	0
20050824-EAF-0059	3136	3	2002	0	0	0	0	0	0
20050816-EAF-0102	3137	3	2002	0	0	0	0	0	0
20050821-EAF-0286	3138	2	2002	0	0	0	0	0	0
20050821-EAF-0247	3139	2	2002	0	0	0	0	0	0
05OD_31-AUG-05_S532_PJC1_025	3140	2	2002	0	0	0	0	0	0
NGOS-DKE-20050717-1-0077	3141	3	2002	0	0	0	0	0	0
20050824-EAF-0044	3142	3	2002	0	0	0	0	0	0
20050824-EAF-0090	3143	2	2002	0	0	0	0	0	0
20050814-EAF-0127	3144	3	2002	0	0	0	0	0	0
NMML-LJM-20040701-F6-030	3145	3	2002	0	0	0	0	0	0
20050901-EAF-0354	3146	2	2002	0	0	0	0	0	0
SWFC-DEG-20040910-D-0051	3147	2	2002	0	0	0	0	0	0
SWFC-HOF-20040901-B-0021	3148	2	2002	0	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_269	3149	3	2002	0	0	0	0	0	0
NGOS-DKE-20050717-1-0190	3150	3	2002	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_053	3151	3	2002	0	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_009	3152	1	2002	0	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_036	3153	2	2002	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_051	3154	3	2002	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_070	3155	2	2002	0	0	0	0	0	0
DOR_05-AUG-06_HW1_HEV_021	3156	3	2002	0	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_036	3157	2	2002	0	0	0	0	0	0
DOR_07-AUG-06_HW1_HEV_013	3158	2	2002	0	0	0	0	0	0

DOR_01-AUG- 06_HW1_HEV_069	3159	2	2002	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_038	3160	3	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_045	3161	3	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_038	3162	2	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_059	3163	2	2002	0	0	0	0	0
SWFC-MHD- 20040903-B-0015	3164	2	2002	0	0	0	0	0
NGOS-TM- 20040907-1-0011	3165	2	2002	0	0	0	0	0
NGOS-KEL- 20050822	3166	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0210	3167	1	2002	0	0	0	0	0
NGOS-KL- 20040725-1-0030	3168	2	2002	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_007	3169	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0091	3170	3	2002	0	0	0	0	0
NGOS-COM- 20050717-1-1894	3171	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0191	3172	3	2002	0	0	0	0	0
NGOS-DE- 20040817-1-0027	3173	3	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_023	3174	3	2002	0	0	0	0	0
DOR_19-AUG- 06_HW2_HEV_004	3175	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-132	3176	2	2002	0	0	0	0	0
DOR_18-AUG- 06_HW1_HEV_007	3177	2	2002	0	0	0	0	0
SWFC-LLZ- 20040914-C-0098	3178	2	2002	0	0	0	0	0
SWFC-LLZ- 20040901-A-0059	3179	3	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0024	3180	3	2002	0	0	0	0	0
SWFC-JRB- 20040902-B-0024	3181	3	2002	0	0	0	0	0
NGOS-DE- 20040810-1-0015	3182	3	2002	0	0	0	0	0
NGOS-TM- 20040821-1-0001	3183	1	2002	0	0	0	0	0
NGOS-DE- 20040816-1-0001	3184	2	2002	0	0	0	0	0
NGOS-DKE- 20050717--0291	3185	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0156	3186	2	2002	0	0	0	0	0
NGOS-DE-	3187	2	2002	0	0	0	0	0

20040817-1-0029									
DOR_15-AUG- 06_HW1_DKE_003	3188	2	2002	0	0	0	0	0	0
DOR_19-AUG- 06_HW11_HEV_006	3189	2	2002	0	0	0	0	0	0
NGOS-DE- 20040817-1-0001	3190	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0032	3191	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0066	3192	2	2002	0	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_032	3193	2	2002	0	0	0	0	0	0
NGOS-COM- 20050717-1-1854	3194	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050728-1-0062	3195	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0197	3196	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0074	3197	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0021	3198	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050728-1-0012	3199	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050718-1-0033	3200	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0100	3201	3	2002	0	1	0	0	0	1
NGOS-DP- 20050710-1-0030	3202	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0185	3203	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050725-1-0062	3204	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050724-1-0001	3205	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050726-1-0007	3206	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050728-1-0069	3207	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050726-1-0039	3208	3	2002	0	0	1	0	0	1
NGOS-DKE- 20050727-1-10050	3209	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050726-1-0055	3210	2	2002	0	0	0	0	0	0
NGOS-KL- 20040626-1-0010	3211	2	2002	0	0	0	0	0	0
20050812-EAF- 0054	3212	2	2002	0	0	0	0	0	0
NGOS-KL- 20040617-1-0009	3213	1	2002	0	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_035	3214	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050728-1-0131	3215	2	2002	0	0	0	0	0	0

NMML-DKE- 2005JUL09-894- 013	3216	3	2002	0	0	0	0	0
SWFC-ADL- 20040810-B-0012	3217	3	2002	0	0	0	0	0
SWFC-DEG- 20040910-D-0131	3218	2	2002	0	0	0	0	0
NGOS-TM- 20040624-1-0047	3219	2	2002	0	0	0	0	0
NGOS-TM- 20040701-1-0009	3220	2	2002	0	0	0	0	0
NGOS-TM- 20040901-1-0078	3222	2	2002	0	0	0	0	0
NGOS-TM- 20050613-1-0003	3223	3	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_360	3224	3	2002	0	0	0	0	0
SWFC-DEG- 20040904-A-0036	3225	3	2002	0	0	0	0	0
SWFC-DEG- 20040904-A-0031	3226	2	2002	0	0	0	0	0
NMML-KP- 20040726-17-016	3227	2	2002	0	0	0	0	0
NMML-JD- 20040723-12-006	3228	3	2002	0	0	0	0	0
NMML-KP- 20040721-02-045	3229	2	2002	0	0	0	0	0
SWFC-AJC- 20040914-D-0047	3230	2	2002	0	0	0	0	0
SWFC-LGT- 20040903-A-0079	3231	2	2002	0	1	0	0	1
NMML-HOF- 2005JUN25-604- 019	3232	3	2002	0	0	0	0	0
SWFC-LLZ- 20040901-A-0041	3233	3	2002	0	0	0	0	0
SWFC-JPB- 20040810-D-0016	3234	3	2002	0	0	0	0	0
SWFC-RLP- 20040901-R-0003	3235	2	2002	0	0	0	0	0
SWFC-RLP- 20040914-A-0030	3236	2	2002	0	0	0	0	0
SWFC-RLP- 20040902-R-0040	3237	2	2002	0	0	0	0	0
SWFC-RLP- 20040914-A-0025	3238	2	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-0025	3239	3	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-0104	3240	3	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-106	3241	2	2002	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_059	3242	2	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_259	3243	3	2002	0	0	0	0	0
DOR_15-AUG-	3244	2	2002	0	0	0	0	0

06_HW2_HEV_085									
DOR_15-AUG-	3245	2	2002	0	0	0	0	0	0
06_HW1_DKE_023									
NMML-BP-	3246	2	2002	0	0	0	0	0	0
20040816-56-003									
NGOS-DKE-	3247	2	2002	0	0	0	0	0	0
20050728-1-0098									
NMML-LGM-	3248	2	2002	0	0	0	0	0	0
20040701-F6-024									
SWFC-CSO-	3249	3	2002	0	0	0	0	0	0
20040827-B-0041									
NMML-KP-	3250	3	2002	0	0	0	0	0	0
20040726-18-003									
NGOS-KL-	3251	2	2002	0	0	0	0	0	0
20040617-1-0035									
20050813-EAF-	3252	2	2002	0	0	0	0	0	0
0014									
20050904-EAF-	3253	3	2002	0	0	0	0	0	0
0034									
NGOS-KL-	3254	2	2002	0	0	0	0	0	0
20040725-1-0002									
NGOS-TM-	3255	2	2002	0	0	0	0	0	0
20050624-1-0046									
NGOS-DP-	3256	2	2002	0	0	0	0	0	0
20040712-1-0026									
NGOS-TM-	3257	3	2002	0	0	0	0	0	0
20040901-1-0066									
SWFC-LGT-	3258	2	2002	0	0	0	0	0	0
20040910-A-0066									
NGOS-DKE-	3259	2	2002	0	0	0	0	0	0
20050725-1-0040									
NGOS-DKE-	3260	2	2002	0	0	0	0	0	0
20050728-1-0148									
SWFC-LLZ-	3261	2	2002	0	0	0	0	0	0
20040913-A-0068									
NGOS-DKE-	3262	2	2002	0	0	0	0	0	0
20050718-1-0035									
05OD_07-SEP-	3263	2	2002	0	0	0	0	0	0
05_S617_BKR1_122									
NGOS-DKE-	3264	2	2002	0	0	0	0	0	0
20050725-1-0018									
DOR_15-AUG-	3265	3	2002	0	0	0	0	0	0
06_HW2_HEV_081									
NGOS-KW-	3266	3	2002	0	0	0	0	0	0
20040721-1-0007									
29AUG2003 R8 F30	3267	2	2002	0	0	0	0	0	0
NGOS-DE-	3268	3	2002	0	0	0	0	0	0
20040817-1-0028									
DOR_18-AUG-	3269	3	2002	0	0	0	0	0	0
06_HW1_HEV_022									
DOR_26-JUL-	3270	2	2002	0	0	0	0	0	0
06_HW1_HEV_040									
DOR_18-AUG-	3271	2	2002	0	0	0	0	0	0
06_HW2_HEV_006									
NGOS-DKE-	3272	3	2002	0	0	0	0	0	0
20050728-1-0028									
NGOS-KL-	3273	3	2002	0	1	0	0	0	1

20040617-1-0008									
DOR_26-JUL-06_HW1_HEV_054	3274	2	2002	0	0	0	0	0	0
NGOS-TM-20040901-1-0103	3275	3	2002	0	0	0	0	0	0
SWFC-MFR-20040902-A-0108	3276	2	2002	0	0	0	0	0	0
NGOS-DKE-20050725-1-0083	3277	3	2002	0	0	0	0	0	0
NGOS-DKE-20050715-1-0035	3278	3	2002	0	0	0	0	0	0
NGOS-TM-20040904-1-0024	3279	3	2002	0	0	0	0	0	0
NGOS-COM-20050717-1-1939	3280	3	2002	0	0	0	0	0	0
SWFC-MFR-20050914-E-0051	3281	2	2002	0	0	0	0	0	0
NGOS-KEL-20050822-1-0126	3282	2	2002	0	0	0	0	0	0
NMML-DKE-2005JUL08-861-005	3283	3	2002	0	0	0	0	0	0
20050814-EAF-0134	3284	2	2002	0	0	0	0	0	0
NGOS-DP-20040712-1-0012	3285	2	2002	0	0	0	0	0	0
15JUL2003 R4 F15a	3286	3	2002	0	0	0	0	0	0
NGOS-DKE-20050728-1-0146	3287	2	2002	0	0	0	0	0	0
NGOS-TM-20040630-1-0014	3288	2	2002	0	0	0	0	0	0
NGOS-DE-20040809-1-0014	3289	2	2002	0	0	0	0	0	0
GNOSWFC-DKE-2005072801-011	3290	2	2002	0	0	0	0	0	0
DOR_15-AUG-06_HW2_HEV_097	3291	2	2002	0	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_024	3292	3	2002	0	0	0	0	0	0
NGOS-COM-20050717-1-1863	3293	2	2002	0	0	0	0	0	0
DOR_19-AUG-06_HW9_HEV_022	3294	3	2002	0	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_017	3295	3	2002	0	0	0	0	0	0
NGOS-DKE-20050726-1-0035	3296	1	2002	0	0	0	0	0	0
NGOS-DKE-20050728-1-0082	3297	2	2002	0	0	0	0	0	0
05OD_04-SEP-05_S559_BKR1_009	3298	3	2002	0	0	0	0	0	0
NGOS-DKE-20050717-1-0093	3299	2	2002	0	0	0	0	0	0
SWFC-LGT-20040910-A-0057	3300	2	2002	0	0	0	0	0	0
29AUG2003 R8 F19	3301	3	2002	0	0	0	0	0	0

05OD_07-SEP-	3302	2	2002	0	0	0	0	0
05_S617_BKR1_241								
20050820-EAF-	3303	2	2002	0	0	0	0	0
0033								
20050901-EAF-	3304	2	2002	0	0	0	0	0
0379								
DOR_26-JUL-	3305	2	2002	0	0	0	0	0
06_HW1_HEV_055								
SWFC-JRB-	3306	1	2002	0	0	0	0	0
20040909-B-0054								
DOR_02-AUG-	3307	2	2002	0	0	0	0	0
06_HW1_HEV_003								
NGOS-DE-	3308	2	2002	0	0	0	0	0
20040815-1-0008								
05OD_07-SEP-	3309	2	2002	0	0	0	0	0
05_S617_BKR1_042								
NGOS-COM-	3310	2	2002	0	0	0	0	0
20050718-1-1978								
DOR_04-AUG-	3311	2	2002	0	0	0	0	0
06_HW1_HEV_047								
04OC_01-SEP-	3312	2	2002	0	0	0	0	0
05_S556_PJC1_087								
05OD_31-AUG-	3313	2	2002	0	0	0	0	0
05_S532_PJC1_066								
SWFC-JRB-	3314	2	2002	0	0	0	0	0
20040901-D-0028								
SWFC-ADL-	3315	2	2002	0	0	0	0	0
20040810-B-0001								
SWFC-CSO-	3316	2	2002	0	0	0	0	0
20040827-B-0009								
20050813-EAF-	3317	3	2002	0	0	0	0	0
0025								
SWFC-DEG-	3318	2	2002	0	0	0	0	0
20040914-C-0064								
DOR_02-AUG-	3319	3	2002	0	0	0	0	0
06_HW1_HEV_008								
NMML-KP-	3320	3	2002	0	0	0	0	0
20040722-09-005								
NGOS-DKE-	3321	3	2002	0	0	0	0	0
20050728-1-0047								
20050818-EAF-	3322	2	2002	0	0	0	0	0
0006								
20050824-EAF-	3323	3	2002	1	0	0	0	1
0013								
NGOS-DKE-	3324	2	2002	0	0	0	0	0
20050728-1-0109								
05OD_01-SEP-	3325	2	2002	0	0	0	0	0
05_S556_BKR1_136								
DOR_06-AUG-	3326	2	2002	0	0	0	0	0
06_HW2_HEV_012								
SWFC-AJC-	3327	2	2002	0	0	0	0	0
20040914-D-0043								
DOR_04-AUG-	3328	2	2002	0	0	0	0	0
06_HW1_HEV_029								
NGOS-DKE-	3329	3	2002	0	0	0	0	0
20050726-1-0021								
NGOS-TM-	3330	2	2002	0	0	0	0	0

NGOS-DKE- 20050728-1-0037	3359	3	2002	0	0	0	0	0
20050827-EAF- 0063	3360	2	2002	0	0	0	0	0
SWFC-LLZ- 20040901-A-0085	3361	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0148	3362	1	2002	0	0	0	0	0
NGOS-DE- 20040816-1-0006	3363	2	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0207	3364	2	2002	0	0	0	0	0
NGPSWFC-DKE- 20050715-1-0036	3365	1	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0187	3366	1	2002	0	0	0	0	0
NGOS-DE- 20040810-1-0028	3367	2	2002	0	0	0	0	0
NGOS-DE- 20040810-1-0005	3368	3	2002	0	0	0	0	0
20050831-EAF- 0100	3369	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0086	3370	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0093	3372	1	2002	0	0	0	0	0
NGOS-DP- 20040803-2-0011	3373	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0149	3374	1	2002	0	0	0	0	0
NMML-DKE- 2005JUL09-893- 005	3375	3	2002	0	0	0	0	0
20050901-EAF- 0370	3376	2	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0137	3377	2	2002	0	0	0	0	0
NGOS-KL- 20040725-1-0025	3378	2	2002	0	0	0	0	0
NGOS-KEL- 20040822-1-0264	3379	3	2002	0	0	0	0	0
NGOS-TM- 20040624-1-0004	3380	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0097	3381	2	2002	0	0	0	0	0
NGOS-TM- 20040828-1-0085	3383	2	2002	0	0	0	0	0
NGOS-TM- 20040624-1-0037	3384	2	2002	0	0	0	0	0
NGOS-TM- 20040828-1-0007	3385	1	2002	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_009	3386	2	2002	0	0	0	0	0
NGOS-TM- 20040901-1-0029	3387	1	2002	0	0	0	0	0
SWFC-MHD- 20040903-B-0116	3388	3	2002	0	0	0	0	0

DOR_15-AUG- 06_HW1_HEV_014	3389	1	2002	0	0	0	0	0
DOR_06-AUG- 06_HW2_HEV_010	3390	1	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_004	3391	2	2002	0	0	0	0	0
SWFC-AJC- 20040914-D-0045	3392	2	2002	0	0	0	0	0
20050901-EAF- 0417	3393	3	2002	0	0	0	0	0
20050827-EAF- 0144	3394	3	2002	0	0	0	0	0
20050816-EAF- 0063	3395	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0025	3396	1	2002	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_148	3397	2	2002	0	0	0	0	0
20050816-EAF- 0027	3398	3	2002	0	0	0	0	0
20050821-EAF- 0300	3399	2	2002	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_069	3400	2	2002	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_063	3401	2	2002	0	0	0	0	0
NMML-COM- 2004JUN25-604- 008	3402	3	2002	0	0	0	0	0
04OD_01-SEP- 05_S556_PJC1_331	3403	3	2002	0	1	0	0	1
DOR_15-AUG- 06_HW1_HEV_086	3404	2	2002	0	0	0	0	0
11JULY2003_R1 F24	3405	3	2002	0	0	0	0	0
NGOS-COM- 20050717-1-1898	3407	2	2002	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_009	3408	3	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_071	3409	1	2002	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_033	3410	2	2002	0	1	0	0	1
NGOS-COM- 20050717-1-1839	3411	2	2002	0	0	0	0	0
20050901-EAF- 0404	3412	1	2002	0	0	0	0	0
20050816-EAF- 0076	3413	2	2002	0	0	0	0	0
20050827-EAF- 0162	3414	3	2002	0	0	0	0	0
20050901-EAF- 0459	3415	2	2002	0	0	0	0	0
20050821-EAF- 0238	3416	3	2002	0	0	0	0	0
20050821-EAF- 0284	3417	2	2002	0	0	0	0	0

NGOS-DP- 20040710-1-0027	3448	3	2002	0	0	0	0	0
NGOS-DKE- 20050726-1-0013	3449	3	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_221	3450	2	2002	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_040	3451	3	2002	0	0	0	0	0
NGOS-KL- 20040614-1-0014	3452	3	2002	0	0	0	0	0
NGOS-TM- 20040831-1-0009	3453	2	2002	0	0	1	0	1
SWFC-LLZ- 20040827-A-0015	3454	2	2002	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_233	3455	1	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0095	3456	3	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-0069	3457	2	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_012	3458	2	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-0086	3459	1	2002	0	0	0	0	0
SWFC-LGT- 20040903-A-0030	3460	2	2002	0	0	0	0	0
SWFC-CSO- 20040827-B-0004	3461	2	2002	0	0	0	0	0
NMML-KP- 20040721-02-019	3462	2	2002	0	0	0	0	0
NMML-JD- 20040723-12-009	3463	2	2002	0	0	0	0	0
SWFC-LGT- 20040910-A-0037	3464	2	2002	0	0	0	0	0
NMML-SEY- 20040616-1-001	3465	2	2002	0	0	0	0	0
NGOS-COM- 20050718-1-1967	3466	2	2002	0	0	0	0	0
NGOS-TM- 20040831-1-0008	3467	1	2002	0	0	0	0	0
NGOS-TM- 20040901-1-0065	3468	2	2002	0	0	0	0	0
SWFC-HOF- 20040901-B-0019	3469	1	2002	0	0	0	0	0
SWFC-DEG- 20040910-D-0152	3470	2	2002	0	0	0	0	0
SWFC-LGT- 20040903-A-0008	3471	2	2002	0	0	0	0	0
SWFC-CSO- 20040913-D-0111	3472	2	2002	0	0	0	0	0
NGOS-TM- 20040829-1-0037	3473	2	2002	0	0	0	0	0
SWFC-DEG- 20040808-C-0011	3474	1	2002	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_055	3475	1	2002	0	0	0	0	0
DOR_15-AUG-	3476	1	2002	0	0	0	0	0

06_HW1_HEV_060									
DOR_15-AUG-	3477	1	2002	0	0	0	0	0	0
06_HW1_HEV_053									
NGOS-KL-	3478	1	2002	0	0	0	0	0	0
20040626-1-0029									
DOR_12-AUG-	3479	1	2002	0	0	0	0	0	0
06_HW1_HEV_012									
NGOS-TM-	3480	2	2002	0	0	0	0	0	0
20040615-1-0003									
NGOS-KL-	3482	1	2002	0	0	0	0	0	0
20040626-1-0015									
NGOS-TM-	3483	2	2002	0	0	0	0	0	0
20040828-1-0034									
DOR_15-AUG-	3484	1	2002	0	0	0	0	0	0
06_HW1_HEV_029									
NGOS-TM-	3485	1	2002	0	0	0	0	0	0
20040901-1-0110									
20050821-EAF-	3486	1	2002	0	0	0	0	0	0
0287									
05OD_31-AUG-	3487	2	2002	0	0	0	0	0	0
05_S523_PJC1_039									
NGOS-KL-	3488	1	2002	0	0	0	0	0	0
20040617-1-0036									
NGOS-20040829-1-	3489	2	2002	0	0	0	0	0	0
0004									
NGOS-DKE-	3490	1	2002	0	0	0	0	0	0
20050717-1-0195									
NGOS-DE-	3491	2	2002	0	0	0	0	0	0
20040810-1-0018									
05OD_01-SEP-	3492	2	2002	0	0	0	0	0	0
05_S556_PJC1_123									
NGOS-DE-	3493	1	2002	0	0	0	0	0	0
20040817-1-0031									
NGOS-KEL-	3494	1	2002	0	0	0	0	0	0
20050822-1-0219									
NGOS-D-20040803-	3495	1	2002	0	0	0	0	0	0
2-0014									
NGOS-JA-	3496	1	2002	0	0	0	0	0	0
20040803-1-0002									
29AUG2003 R8 F35	3497	2	2002	0	0	0	0	0	0
NGOS-DKE-	3498	1	2002	0	0	0	0	0	0
20050728-1-0155									
05OD_07-SEP-	3499	1	2002	0	0	0	0	0	0
05_S617_BKR1_045									
05OD_01-SEP-	3500	1	2002	0	0	0	0	0	0
05_S556_PJC1_274									
DOR_01-AUF-	3501	2	2002	0	0	0	0	0	0
06_HW1_SEM_043									
NGOS-DKE-	3502	1	2002	0	0	0	0	0	0
20050724-1-0006									
NGOS-TM-2040628-	3503	1	2002	0	0	0	0	0	0
1-0016									
NGOS-TM-	3504	1	2002	0	0	0	0	0	0
20040613-1-0005									
NGOS-KW-	3505	1	2002	0	0	0	0	0	0
20040721-1-0012									
NGOS-KW-	3506	2	2002	0	0	0	0	0	0

20040721-1-0006									
NMML-EAM-	3507	1	2002	0	0	0	0	0	0
20040701-F8-010									
NGOS-COM-	3508	2	2002	0	0	0	0	0	0
20050717-1-1933									
NGOS-COM-	3509	3	2002	0	0	0	0	0	0
20050717-1-1937									
DOR_26-JUL-	3510	2	2002	0	0	0	0	0	0
06_HW1_HEV_068									
20050813-EAF-	3511	3	2002	0	0	0	0	0	0
0026									
NGOS-KEL-	3512	1	2002	0	0	0	0	0	0
20050822-0231									
SWFC-RLP-	3513	2	2002	0	0	0	0	0	0
20040903-R-0024									
20050813-EAF-	3514	2	2002	0	0	0	0	0	0
0015									
20050813-EAF-	3515	1	2002	0	0	0	0	0	0
0048									
SWFC-SEH-	3516	1	2002	0	0	0	0	0	0
20040811-B-0012									
SWFC-MFR-	3517	1	2002	0	0	0	0	0	0
20040902-A-0149									
NGOS-KL-	3518	2	2002	0	0	0	0	0	0
20040725-1-0033									
SWFC-HOF-	3519	1	2002	0	0	0	0	0	0
20040901-B-0071									
05OD_07-SEP-	3520	1	2002	0	0	0	0	0	0
05_S617_BKR1_202									
29AUG2003 R7 F17	3521	3	2002	0	0	0	0	0	0
SWFC-LLZ-	3522	2	2002	0	0	0	0	0	0
20040903-C-0028									
SWFC-RLP-	3523	1	2002	0	0	0	0	0	0
20040910-R-0044									
29AUG2003 R5 F27	3524	1	2002	0	0	0	0	0	0
05OD_01-SEP-	3525	2	2002	0	0	0	0	0	0
05_S556_BKR1-112									
05OD-07-SEP-	3526	2	2002	0	0	0	0	0	0
05_S617_BKR1_044									
20050812-EAF-	3527	1	2002	0	0	0	0	0	0
0022									
29AUG2003 R7 F26	3528	2	2002	0	0	0	0	0	0
20050831-EAF-	3529	1	2002	0	0	0	0	0	0
0110									
20050831-EAF-	3530	2	2002	0	0	0	0	0	0
0036									
20050901-EAF-	3531	3	2002	0	0	0	0	0	0
0445									
20050814-EAF-	3532	2	2002	0	0	0	0	0	0
0064									
NGOS-TM-	3533	3	2002	0	0	0	0	0	0
20040829-1-0026									
04OD_06-SEP-	3534	2	2002	0	0	0	0	0	0
05_S616_MDN1_004									
SWFC-CSO-	3535	3	2002	0	0	0	0	0	0
20040915-F-0090									
SWFC-MHD-	3536	3	2002	0	0	0	0	0	0

NGOS-DKE- 20050728-1-0007	3566	3	2002	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_060	3567	2	2002	0	0	0	0	0
NGOS-DKE- 20050724-1-0004	3568	3	2002	0	0	0	0	0
NGOS_DKE- 20050717-1-0126	3569	3	2002	0	0	0	0	0
20050901-EAF- 0426	3570	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0147	3571	3	2002	0	0	0	0	0
SWFC-RLP- 200409014-A-0016	3572	3	2002	0	0	0	0	0
SWFC-LLZ- 20040901-A-0035	3573	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0151	3574	3	2002	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_076	3575	3	2002	1	0	0	0	1
NMML-HOF- 2005JUN25-604-01	3576	2	2002	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_005	3577	2	2002	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_019	3578	2	2002	0	0	0	0	0
SWFC-LGT- 20040903-A-0051	3579	3	2002	0	0	0	0	0
SWFC-MFR- 20040910-E-0017	3580	2	2002	0	0	0	0	0
DOR_07-AUG- 06_HW1_HEV_010	3581	2	2002	0	0	0	0	0
01AUG2003 R2 F35	3582	2	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_093	3583	3	2002	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_071	3584	3	2002	0	0	0	0	0
SWFC-LLZ- 20040914-C-0052	3585	3	2002	0	0	0	0	0
NGOS-COM- 20050717-1-1850	3587	3	2002	0	0	0	0	0
NGOS-DKE- 20050728-1-0150	3588	3	2002	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_103	3589	3	2002	0	0	0	0	0
DOR_06-AUG- 06_HW2_HEV_011	3590	2	2002	0	0	0	0	0
20050824-EAF- 0070	3591	3	2002	0	0	0	0	0
NGOS-DKE- 20050717-1-0059	3592	3	2002	0	0	0	0	0
20050901-EAF- 0455	3593	2	2002	0	0	0	0	0
NMML-JD- 20040722-10-0004	3594	2	2002	0	0	0	0	0
29AUG2003 R9 F12	3595	2	2002	0	0	0	0	0
DOR_18-AUG-	3596	2	2002	0	0	0	0	0

06_HW3_HEV_001								
NGOS-TM-	3597	2	2002	0	0	0	0	0
20040831-1-0016								
SWFC-LLZ-	3598	3	2002	0	0	0	0	0
20040827-A-0024								
SWFC-DEG-	3599	2	2002	0	0	0	0	0
20040910-D-0113								
NGOS-DKE-	3600	2	2002	0	0	0	0	0
20050728-1-0018								
DOR_04-AUG-	3601	2	2002	0	0	0	0	0
06_HW1_HEV_001								
DOR_01-AUG-	3602	2	2002	0	0	0	0	0
06_HW1_SEM_030								
SWFC-HOF-	3603	3	2002	0	0	0	0	0
20040908-B-0006								
DOR_26-JAL-	3604	2	2002	0	0	0	0	0
06_HW1_HEV_52								
NGOS-DKE-	3605	3	2002	0	0	0	0	0
20050717-1-0037								
NGOS-TM-	3606	3	2002	0	0	0	0	0
20040628-1-0008								
DOR_19-AUG-	3607	3	2002	0	0	0	0	0
06_HW10_HEV_005								
NGOS-DKE-	3608	2	2002	0	0	0	0	0
20050728-1-0105								
DOR_07-AUG-	3609	3	2002	0	0	0	0	0
06_HW1_HEV_014								
NMML-KP-	3610	3	2002	0	0	0	0	0
20040726-17-002								
NGOS-DE-	3611	2	2002	0	0	0	0	0
20040810-1-0021								
NGOS-COM-	3612	1	2002	0	0	0	0	0
20050717-1-1962								
DOR_15-AUG-	3613	2	2002	0	0	0	0	0
06_HW1_HEV_057								
DOR_15-AUG-	3614	3	2002	0	0	0	0	0
06_HW1_HEV_027								
NGSWFC-KEL-	3615	2	2002	0	0	0	0	0
20050822-1-011								
05OD_07-SEP-	3616	3	2002	0	0	0	0	0
05_S617_BKR1_162								
DOR_19-AUG-	3617	2	2002	0	0	0	0	0
06_HW9_HEV_008								
20050901-EAF-	3618	2	2002	0	0	0	0	0
0448								
20050901-EAF-	3619	3	2002	0	0	0	0	0
0454								
20050816-EAF-	3620	3	2002	0	0	0	0	0
0127								
SWFC-LGT-	3621	1	2002	0	0	0	0	0
20040903-A-0104								
20050901-EAF-047	3623	2	2002	0	0	0	0	0
NGOS-DE-	3624	2	2002	0	0	0	0	0
20040810-1-0026								
NGOS-TM-	3625	2	2002	0	0	0	0	0
20040829-1-0007								
20050816-EAF-	3626	2	2002	0	0	0	0	0

0079									
20050816-EAF-0140	3627	3	2002	0	0	0	0	0	0
SWFC-MFR-20040902-A-0155	3628	2	2002	0	0	0	0	0	0
05OD_04-SEP-05_S559_BKR1_050	3629	3	2002	0	0	0	0	0	0
NMML-JD-20040727-19-006	3630	2	2002	0	0	0	0	0	0
NGOS-TM-20040613-1-0039	3631	2	2002	0	0	0	0	0	0
05OD_040SEP-05_S559_BKR1_055	3632	2	2002	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_024	3633	3	2002	0	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_041	3634	2	2002	0	0	0	0	0	0
NGOS-DKE-20050717-1-0160	3635	2	2002	0	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_050	3636	2	2002	0	0	0	0	0	0
NMML-COM-2005JUN25-604-061	3638	3	2002	0	0	0	0	0	0
DOR_18-AUG-06_HW5_HEV_017	3639	3	2002	0	0	0	0	0	0
SWFC-LLZ-20040913-A-0078	3640	2	2002	0	0	0	0	0	0
SWFC-LGT-20040903-A-0137	3641	3	2002	0	0	0	0	0	0
05OD_01-SEP-05)S556_BKR1_023	3642	2	2002	0	0	0	0	0	0
NMML-DKE-2005JUL08-861-006	3643	3	2002	0	0	0	0	0	0
SWFC-LLZ-20040901-A-0090	3644	3	2002	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_063	3645	2	2002	0	0	0	0	0	0
NGOS-DP-20040711-1-0002	3646	2	2002	0	0	0	0	0	0
SWFC-DEG-20040808-C-0022	3647	3	2002	0	0	0	0	0	0
NGOS-DKE-20050726-1-0056	3648	3	2002	0	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_092	3649	2	2002	0	0	0	0	0	0
NMML-COM-2005JUN25-604-80	3650	2	2002	0	0	0	0	0	0
SWFC-RLP-20040914-A-0015	3651	2	2002	0	0	0	0	0	0
SWFC-ADL-20040810-B-0021	3652	2	2002	0	0	0	0	0	0
NGOS0COM-20050717-1-1882	3653	3	2002	0	0	0	0	0	0
20050816-EAF-134	3654	2	2002	0	0	0	0	0	0
NGOS-DE-	3655	2	2002	0	0	0	0	0	0

20040815-1-0002									
DOR_19-AUG- 06_HW6_HEV_010	3656	2	2002	0	0	0	0	0	0
05OD_31-AUG- 05_S523_PJC1_072	3657	2	2002	0	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_022	3658	3	2002	0	0	0	0	0	0
NGOS-COM- 20050717-1-1843	3659	3	2002	0	0	0	0	0	0
NGOS-COM- 20050717-1-1947	3660	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0201	3661	1	2002	0	0	0	0	0	0
NGOS-KEL- 20050822-1-0044	3662	2	2002	0	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_005	3663	2	2002	0	0	0	0	0	0
20050816-EAF- 0154	3664	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0199	3665	2	2002	0	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_012	3666	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050725-1-0009	3667	3	2002	0	0	0	0	0	0
SWFC-RLP- 20040914-A-0027	3668	2	2002	0	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_020	3669	2	2002	0	0	0	0	0	0
NGOS-TM- 20040701-1-0029	3670	2	2002	0	0	0	0	0	0
NGOS-DKE- 20050726-1-0023	3671	3	2002	0	0	0	0	0	0
NGOS-TM- 20040615-1-0001	3672	2	2002	0	0	0	0	0	0
SWFC-HOF- 20040901-B-0100	3673	2	2002	0	0	0	0	0	0
SWFC-DEG- 20040827-C-0006	3674	3	2002	0	0	0	0	0	0
SWFC-DEG- 20040914-C-0066	3675	2	2002	0	0	0	0	0	0
SWFC-LLZ- 20040827-A-0012	3676	3	2002	0	0	0	0	0	0
NGOS-DKE- 20050717-1-0098	3677	3	2002	0	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_003	3678	2	2002	0	0	0	0	0	0
NGOS-TM- 20040829-1-0042	3679	2	2002	0	0	0	0	0	0
20050814-EAF- 0088	3680	2	2002	0	0	0	0	0	0
NGOS-DP- 20040711-1-0001	3681	3	2002	0	0	0	0	0	0
NGOS-TM- 20040828-1-0026	3682	1	2002	0	0	0	0	0	0
NGOS-DE- 20040817-1-0009	3683	2	2002	0	0	0	0	0	0

20050824-EAF-0047	3684	2	2002	0	0	0	0	0
NGOS-TM-20040613-1-0038	3685	1	2002	0	0	0	0	0
NGOS-DKE-20050725-1-0081	3686	3	2002	0	0	0	0	0
NGOS-COM-20050717-1-1910	3687	3	2002	0	0	0	0	0
NGOS-DKE-20050717-1-0096	3688	3	2002	0	0	0	0	0
DOR_04-AUG-06_HW1_HEV_015	3689	3	2002	0	0	0	0	0
NMML-EW-20040816-57-004	3690	1	2002	0	0	0	0	0
NGOS-DKE-20050725-1-0068	3691	2	2002	0	0	0	0	0
NGOS-COM-20050717-1-1840	3692	2	2002	0	0	0	0	0
20050827-EAF-0085	3693	2	2002	0	0	0	0	0
20050816-EAF-0139	3694	2	2002	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_122	3695	3	2002	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_266	3696	2	2002	0	0	0	0	0
NGOS-COM-20050717-1-1934	3697	2	2002	0	0	0	0	0
NGOS-TM-20040613-1-0033	3698	1	2002	0	0	0	0	0
29AUG2003 R9 F21	3699	2	2002	0	1	0	0	1
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20050824-EAF-0071	3701	2	2002	0	0	0	0	0
NGOS-DKE-20050725-1-0041	3702	2	2002	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_267	3703	2	2002	0	0	0	0	0
NGOS-DKE-20050728-1-0153	3704	2	2002	0	0	0	0	0
SWFC-DEG-20040904-A-0024	3705	2	2002	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_181	3706	3	2002	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_206	3707	2	2002	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_014	3708	1	2002	0	0	0	0	0
NGOS-DKE-20050725-1-0017	3709	1	2002	0	0	0	0	0
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29AUG2003 R9 FE	401614	3	2002	0	0	0	0	0
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2002-AL-2345-19	401230	3	2002	0	1	0	0	1
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2002-AL-2343-18	401232	3	2002	0	1	0	0	1
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2002-AL-2343-24	401234	2	2002	0	1	0	0	1
2002-AL-2343-26	401235	2	2002	0	1	0	0	1
2002-AL-2343-32	401237	1	2002	0	1	0	0	1
2002-AL-2343-33	401238	2	2002	0	1	0	0	1
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2002-AL-2345-1	401240	1	2002	0	1	0	0	1
2002-AL-2345-8	401244	2	2002	0	1	0	0	1
2002-AL-2345-14	401246	2	2002	0	1	0	0	1
2002-AL-2345-18	401248	2	2002	0	1	0	0	1
2002-AL-2345-22	401251	2	2002	0	1	0	0	1
2002-AL-2345-E	401256	3	2002	0	1	0	0	1
2002-AL-2571-3	401258	2	2002	0	1	0	0	1
2002-QL-2571-5	401260	3	2002	0	1	0	0	1
10JUN2003 R1 F7	401404	2	2002	0	0	0	0	0
31JUL2003 R5 F19	401463	2	2002	0	0	0	0	0
10JUN2003 R1 F8	401405	3	2002	0	0	0	0	0
10JUN2003 R1 F18	401408	2	2002	0	0	0	0	0
10JUN2003 R1 F21	401409	3	2002	0	0	0	0	0
10JUN2003 R1 F22	401410	2	2002	0	0	0	0	0
15JUL2003 R4 F25	401451	1	2002	0	0	0	0	0
21JUN2003 R2 F17	401422	2	2002	0	0	0	0	0
5JUL2003 R2 F22	401425	1	2002	0	0	0	0	0
8JUL2003 R2 F29	401428	2	2002	0	0	0	0	0
8JUL2003 R2 F32	401429	2	2002	0	0	0	0	0
8JUL2003 R2 F33	401430	2	2002	0	0	0	0	0
8JUL2003 R3 F2	401431	1	2002	0	0	0	0	0
8JUL2003 R3 F25	401436	1	2002	0	0	0	0	0
12JUL2003 R3 F28	401437	1	2002	0	0	0	0	0
12JUL2003 R3 F30	401439	3	2002	0	0	0	0	0
12JUL2003 R3 F32	401441	2	2002	0	0	0	0	0
15JUL2003 R4 F5a	401444	2	2002	0	0	0	0	0
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31JUL2003 R5 F10	401458	3	2002	0	0	0	0	0
31JUL2003 R5 F12	401460	2	2002	0	0	0	0	0
31JUL2003 R5 F14	401462	1	2002	0	0	0	0	0
31JUL2003 R5 F26	401466	3	2002	0	0	0	0	0

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NGOS-DKE- 20050725-0010	3007	2	2003	0	0	0	0	0
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NGOS-DKE- 20050726-1-0030	3009	2	2003	0	0	1	0	1
NGOS-DKE- 20050728-1-0142	3010	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0065	3011	3	2003	0	0	0	0	0
NGOS-KEL- 20050822-1-0119	3012	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0016	3013	2	2003	1	0	0	0	1
NGOS- KEL20050822-1- 0229	3014	2	2003	0	0	0	0	0
NGOS-TM20040624- 1-0007	3015	3	2003	0	0	1	0	1
NGOS- KEL20040626-1- 0027	3016	1	2003	0	0	0	0	0
NGOS- KEL20040626-1- 0028	3017	2	2003	0	0	0	0	0
NGOS-TM20040830- 1-0008	3018	2	2003	0	0	0	0	0
SWFC-RLP- 20040914-A-0051	3019	2	2003	0	0	0	0	0
SWFC-RLP- 20040910-R-0020	3020	1	2003	0	0	0	0	0
20050821-EAF- 0255	3021	2	2003	0	0	0	0	0
05OD_01_SEP- 05_S556_BKR1_111	3022	2	2003	0	0	0	0	0
NGOS- KEL20050822-1- 0175	3023	2	2003	0	0	1	0	1
20050821-EAF- 0252	3024	1	2003	0	0	0	0	0
NGOS-DKE- 20040617-1-0034	3025	2	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_153	3026	1	2003	0	0	0	0	0
31JUL2003 R5 F23	3027	2	2003	0	1	0	0	1
05OD_01_SEP- 05_S556_BKR1_077	3028	3	2003	0	0	0	0	0
05OD_01_SEP- 05_S556_PJC1_209	3029	3	2003	0	0	0	0	0
05OD_01_SEP- 05_S556_BKR1_339	3030	3	2003	0	0	0	0	0
15JUL2003 R4 F4a	3031	3	2003	0	1	0	0	1
SWFC-LLZ- 20040827-A-0028	3032	3	2003	0	0	0	0	0
SWFC-HOF-	3033	3	2003	0	0	0	0	0

NGOS-DE- 20040817-1-0023	3062	3	2003	0	0	0	0	0
20050812-EAF- 0122	3063	3	2003	0	0	0	0	0
NGOS-TM- 20040829-1-0010	3064	3	2003	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_364	3066	1	2003	0	0	0	0	0
05OF_01-SEP- 05_S556_PJC1_355	3067	2	2003	0	0	0	0	0
05OD_04-SEP- 05_S556_BKR2_003	3068	2	2003	0	0	0	0	0
DOR_19-AUG- 06_HW8_HEV_002	3069	3	2003	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_16	3070	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0152	3071	2	2003	0	0	0	0	0
SWFC-RLP- 20040914-A-0050	3072	3	2003	0	0	0	0	0
NGOS-TM- 20040831-1-0005	3073	3	2003	0	0	0	0	0
NGOS-TM- 20040613-1-0032	3074	3	2003	0	0	0	0	0
NGOS-DP- 20040710-1-0025	3075	3	2003	0	0	0	0	0
NGOS-DP- 20040712-1-0035	3076	2	2003	0	0	0	0	0
NGOS-KEL- 20050822-1-0181	3077	3	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1906	3078	2	2003	0	0	0	0	0
NGOS-KL- 20040626-1-0004	3079	3	2003	0	0	0	0	0
NGOS-DE- 20040810-1-0031	3080	2	2003	0	0	0	0	0
NGOS-TM- 20040901-1-0061	3081	3	2003	0	0	1	0	1
NGOS-DKE- 20050728-1-0130	3082	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0049	3083	3	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0062	3084	2	2003	0	0	0	0	0
NGOS-DKE- 20050718-1-0029	3085	3	2003	0	0	0	0	0
NGOS-DP- 20040712-1-0006	3086	1	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0040	3087	3	2003	0	0	0	0	0
NMML-EAM- 20040701-F7-002	3088	2	2003	0	0	0	0	0
NMML-JB- 20040816-52-002	3089	2	2003	0	0	0	0	0
NGOS-TM-2040901- 1-0034	3090	2	2003	0	0	0	0	0
NGOS-TM-	3091	2	2003	0	0	0	0	0

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SWFC-LGT-	3093	3	2003	0	0	0	0	0	0
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NGOS-TM-	3095	3	2003	0	0	0	0	0	0
20040831-1-0012									
NGOS-TM-	3096	3	2003	0	0	0	0	0	0
20040616-1-0005									
05OD_01-SEP-	3097	2	2003	0	0	0	0	0	0
05_S556_PJC1_21									
05OD_01-SEP-	3098	2	2003	0	0	0	0	0	0
05_S556_PJC1_048									
05OD_01-SEP-	3099	2	2003	0	0	0	0	0	0
05_S556_BKR1_137									
05OD_07-SEP-	3100	3	2003	0	0	0	0	0	0
05_S617_BKR1_114									
05OD_07-SEP-	3101	3	2003	0	0	0	0	0	0
05_S617_PJC1_091									
05OD_06-SEP-	3102	3	2003	0	0	0	0	0	0
05_S616_MDN1_034									
05OD_07-SEP-	3103	2	2003	0	1	1	0	0	2
05_S617_BKR1_259									
05OD_04-SEP-	3104	2	2003	0	0	0	0	0	0
05_S559_BKR1_065									
05OD_07-SEP-	3105	3	2003	0	0	0	0	0	0
05_S617_BKR1_165									
05OD_01-SEP-	3106	2	2003	0	0	0	0	0	0
05_S556_PJC1_298									
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20050820-EAF-0014	3108	1	2003	0	0	0	0	0	0
20050816-EAF-0009	3109	3	2003	0	0	0	0	0	0
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05_S556_PJC1_311									
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05_S617_BKR1_126									
DOR_12-AUG-	3113	2	2003	0	0	0	0	0	0
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2005JUN25-604-037									
NGOS-TM-	3115	3	2003	0	0	1	0	0	1
20040907-1-0009									
NGOS-KL-	3116	3	2003	0	0	0	0	0	0
20040617-1-0097									
20050821-EAF-0267	3117	2	2003	0	0	0	0	0	0
05OD_31-AUG-	3118	2	2003	0	0	0	0	0	0
05_S523_PJC1_063									
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05OD_01-SEP-	3120	2	2003	0	0	0	0	0	0

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05_S556_BKR1_269								
NGOS-DKE-	3150	3	2003	0	0	0	0	0
20050717-1-0190								
DOR_12-AUG-	3151	3	2003	0	0	0	0	0
06_HW1_HEV_053								
DOR_15-AUG-	3152	1	2003	0	0	0	0	0
06_HW1_DKE_009								
DOR_15-AUG-	3153	2	2003	0	0	0	0	0
06_HW1_HEV_036								
DOR_12-AUG-	3154	3	2003	0	0	0	0	0
06_HW1_HEV_051								
DOR_12-AUG-	3155	2	2003	0	0	0	0	0
06_HW1_HEV_070								
DOR_05-AUG-	3156	3	2003	0	0	0	0	0
06_HW1_HEV_021								
DOR_01-AUG-	3157	2	2003	0	0	0	0	0
06_HW1_HEV_036								
DOR_07-AUG-	3158	2	2003	0	0	0	0	0
06_HW1_HEV_013								
DOR_01-AUG-	3159	2	2003	0	0	0	0	0
06_HW1_HEV_069								
DOR_12-AUG-	3160	3	2003	0	0	0	0	0
06_HW1_HEV_038								
DOR_15-AUG-	3161	3	2003	0	0	0	0	0
06_HW1_DKE_045								
DOR_15-AUG-	3162	2	2003	0	0	0	0	0
06_HW1_HEV_038								
DOR_15-AUG-	3163	2	2003	0	0	0	0	0
06_HW1_DKE_059								
SWFC-MHD-	3164	2	2003	0	0	0	0	0
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NGOS-TM-	3165	2	2003	0	0	0	0	0
20040907-1-0011								
NGOS-KEL-	3166	2	2003	0	0	0	0	0
20050822								
NGOS-DKE-	3167	1	2003	0	0	0	0	0
20050717-1-0210								
NGOS-KL-	3168	2	2003	0	0	0	0	0
20040725-1-0030								
DOR_19-AUG-	3169	2	2003	0	0	0	0	0
06_HW9_HEV_007								
NGOS-DKE-	3170	3	2003	1	0	0	0	1
20050717-1-0091								
NGOS-COM-	3171	2	2003	0	0	0	0	0
20050717-1-1894								
NGOS-DKE-	3172	3	2003	0	0	0	0	0
20050717-1-0191								
NGOS-DE-	3173	3	2003	0	0	0	0	0
20040817-1-0027								
DOR_15-AUG-	3174	3	2003	0	0	0	0	0
06_HW1_HEV_023								
DOR_19-AUG-	3175	2	2003	0	0	0	0	0
06_HW2_HEV_004								
NGOS-DKE-	3176	2	2003	0	0	0	0	0
20050728-1-132								
DOR_18-AUG-	3177	2	2003	0	0	0	0	0

NGOS-DKE- 20050726-1-0007	3206	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0069	3207	3	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0039	3208	3	2003	0	0	0	0	0
NGOS-DKE- 20050727-1-10050	3209	2	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0055	3210	2	2003	0	0	0	0	0
NGOS-KL- 20040626-1-0010	3211	2	2003	0	0	0	0	0
20050812-EAF- 0054	3212	2	2003	0	0	0	0	0
NGOS-KL- 20040617-1-0009	3213	1	2003	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_035	3214	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0131	3215	2	2003	0	0	0	0	0
NMML-DKE- 2005JUL09-894- 013	3216	3	2003	0	0	0	0	0
SWFC-ADL- 20040810-B-0012	3217	3	2003	0	0	0	0	0
SWFC-DEG- 20040910-D-0131	3218	2	2003	0	0	0	0	0
NGOS-TM- 20040624-1-0047	3219	2	2003	0	0	0	0	0
NGOS-TM- 20040701-1-0009	3220	2	2003	0	0	0	0	0
NGOS-TM- 20040901-1-0078	3222	2	2003	0	0	0	0	0
NGOS-TM- 20050613-1-0003	3223	3	2003	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_360	3224	3	2003	0	0	0	0	0
SWFC-DEG- 20040904-A-0036	3225	3	2003	0	0	0	0	0
SWFC-DEG- 20040904-A-0031	3226	2	2003	0	0	0	0	0
NMML-KP- 20040726-17-016	3227	2	2003	0	0	0	0	0
NMML-JD- 20040723-12-006	3228	3	2003	0	0	0	0	0
NMML-KP- 20040721-02-045	3229	2	2003	0	0	0	0	0
SWFC-AJC- 20040914-D-0047	3230	2	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0079	3231	2	2003	0	0	0	0	0
NMML-HOF- 2005JUN25-604- 019	3232	3	2003	0	0	0	0	0
SWFC-LLZ- 20040901-A-0041	3233	3	2003	0	0	0	0	0
SWFC-JPB-	3234	3	2003	0	0	0	0	0

05OD_07-SEP-	3263	2	2003	0	0	0	0	0
05_S617_BKR1_122								
NGOS-DKE-	3264	2	2003	0	0	0	0	0
20050725-1-0018								
DOR_15-AUG-	3265	3	2003	0	0	0	0	0
06_HW2_HEV_081								
NGOS-KW-	3266	3	2003	0	0	0	0	0
20040721-1-0007								
29AUG2003 R8 F30	3267	2	2003	0	0	1	0	1
NGOS-DE-	3268	3	2003	0	0	0	0	0
20040817-1-0028								
DOR_18-AUG-	3269	3	2003	0	0	0	0	0
06_HW1_HEV_022								
DOR_26-JUL-	3270	2	2003	0	0	0	0	0
06_HW1_HEV_040								
DOR_18-AUG-	3271	2	2003	0	0	0	0	0
06_HW2_HEV_006								
NGOS-DKE-	3272	3	2003	0	0	0	0	0
20050728-1-0028								
NGOS-KL-	3273	3	2003	0	0	0	0	0
20040617-1-0008								
DOR_26-JUL-	3274	2	2003	0	1	0	0	1
06_HW1_HEV_054								
NGOS-TM-	3275	3	2003	0	0	0	0	0
20040901-1-0103								
SWFC-MFR-	3276	2	2003	0	0	0	0	0
20040902-A-0108								
NGOS-DKE-	3277	3	2003	0	0	0	0	0
20050725-1-0083								
NGOS-DKE-	3278	3	2003	0	0	0	0	0
20050715-1-0035								
NGOS-TM-	3279	3	2003	0	0	0	0	0
20040904-1-0024								
NGOS-COM-	3280	3	2003	0	0	0	0	0
20050717-1-1939								
SWFC-MFR-	3281	2	2003	0	0	0	0	0
20050914-E-0051								
NGOS-KEL-	3282	2	2003	0	0	0	0	0
20050822-1-0126								
NMML-DKE-	3283	3	2003	0	0	0	0	0
2005JUL08-861-								
005								
20050814-EAF-	3284	2	2003	0	0	0	0	0
0134								
NGOS-DP-	3285	2	2003	0	0	0	0	0
20040712-1-0012								
15JUL2003 R4	3286	3	2003	0	1	0	0	1
F15a								
NGOS-DKE-	3287	2	2003	0	0	0	0	0
20050728-1-0146								
NGOS-TM-	3288	2	2003	0	0	0	0	0
20040630-1-0014								
NGOS-DE-	3289	2	2003	0	0	0	0	0
20040809-1-0014								
GNOSWFC-DKE-	3290	2	2003	0	0	1	0	1
2005072801-011								
DOR_15-AUG-	3291	2	2003	0	0	0	0	0

06_HW2_HEV_097									
DOR_19-AUG-	3292	3	2003	0	0	0	0	0	0
06_HW9_HEV_024									
NGOS-COM-	3293	2	2003	0	0	0	0	0	0
20050717-1-1863									
DOR_19-AUG-	3294	3	2003	0	0	0	0	0	0
06_HW9_HEV_022									
DOR_15-AUG-	3295	3	2003	0	0	0	0	0	0
06_HW1_HEV_017									
NGOS-DKE-	3296	1	2003	0	0	0	0	0	0
20050726-1-0035									
NGOS-DKE-	3297	2	2003	0	0	0	0	0	0
20050728-1-0082									
05OD_04-SEP-	3298	3	2003	1	1	1	0	0	3
05_S559_BKR1_009									
NGOS-DKE-	3299	2	2003	0	0	0	0	0	0
20050717-1-0093									
SWFC-LGT-	3300	2	2003	0	0	0	0	0	0
20040910-A-0057									
29AUG2003 R8 F19	3301	3	2003	0	0	1	0	0	1
05OD_07-SEP-	3302	2	2003	0	0	0	0	0	0
05_S617_BKR1_241									
20050820-EAF-	3303	2	2003	0	0	0	0	0	0
0033									
20050901-EAF-	3304	2	2003	0	0	0	0	0	0
0379									
DOR_26-JUL-	3305	2	2003	0	0	1	0	0	1
06_HW1_HEV_055									
SWFC-JRB-	3306	1	2003	0	0	0	0	0	0
20040909-B-0054									
DOR_02-AUG-	3307	2	2003	0	0	0	0	0	0
06_HW1_HEV_003									
NGOS-DE-	3308	2	2003	0	0	0	0	0	0
20040815-1-0008									
05OD_07-SEP-	3309	2	2003	0	0	0	0	0	0
05_S617_BKR1_042									
NGOS-COM-	3310	2	2003	0	0	0	0	0	0
20050718-1-1978									
DOR_04-AUG-	3311	2	2003	0	0	0	0	0	0
06_HW1_HEV_047									
04OC_01-SEP-	3312	2	2003	0	0	0	0	0	0
05_S556_PJC1_087									
05OD_31-AUG-	3313	2	2003	0	0	0	0	0	0
05_S532_PJC1_066									
SWFC-JRB-	3314	2	2003	0	0	0	0	0	0
20040901-D-0028									
SWFC-ADL-	3315	2	2003	0	0	0	0	0	0
20040810-B-0001									
SWFC-CSO-	3316	2	2003	0	0	0	0	0	0
20040827-B-0009									
20050813-EAF-	3317	3	2003	0	0	0	0	0	0
0025									
SWFC-DEG-	3318	2	2003	0	0	0	0	0	0
20040914-C-0064									
DOR_02-AUG-	3319	3	2003	0	0	0	0	0	0
06_HW1_HEV_008									
NMML-KP-	3320	3	2003	0	0	0	0	0	0

NGOS-COM- 20050717-1-1874	3349	1	2003	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_031	3350	2	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_008	3351	1	2003	0	0	0	0	0
DOR_28-JUL- 06_HW1_HEV_006	3352	1	2003	0	0	0	0	0
DOR_19-AUG- 06_HW10_HEV_007	3353	2	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1884	3354	1	2003	0	0	0	0	0
NGOS-COM- 20050718-1-1964	3355	2	2003	0	0	0	0	0
NGOS-DKE-2005- 071701-0142	3356	2	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0038	3357	2	2003	0	0	0	0	0
20050901-EAF- 0303	3358	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0037	3359	3	2003	0	0	0	0	0
20050827-EAF- 0063	3360	2	2003	0	0	0	0	0
SWFC-LLZ- 20040901-A-0085	3361	2	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0148	3362	1	2003	0	0	0	0	0
NGOS-DE- 20040816-1-0006	3363	2	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0207	3364	2	2003	0	0	0	0	0
NGPSWFC-DKE- 20050715-1-0036	3365	1	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0187	3366	1	2003	0	0	0	0	0
NGOS-DE- 20040810-1-0028	3367	2	2003	0	0	0	0	0
NGOS-DE- 20040810-1-0005	3368	3	2003	0	0	0	0	0
20050831-EAF- 0100	3369	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0086	3370	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0093	3372	1	2003	0	0	0	0	0
NGOS-DP- 20040803-2-0011	3373	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0149	3374	1	2003	0	0	0	0	0
NMML-DKE- 2005JUL09-893- 005	3375	3	2003	0	0	0	0	0
20050901-EAF- 0370	3376	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0137	3377	2	2003	0	0	0	0	0

NGOS-KL- 20040725-1-0025	3378	2	2003	0	0	0	0	0
NGOS-KEL- 20040822-1-0264	3379	3	2003	0	0	0	0	0
NGOS-TM- 20040624-1-0004	3380	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0097	3381	2	2003	0	0	0	0	0
NGOS-TM- 20040828-1-0085	3383	2	2003	0	0	0	0	0
NGOS-TM- 20040624-1-0037	3384	2	2003	0	0	0	0	0
NGOS-TM- 20040828-1-0007	3385	1	2003	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_009	3386	2	2003	0	0	0	0	0
NGOS-TM- 20040901-1-0029	3387	1	2003	0	0	0	0	0
SWFC-MHD- 20040903-B-0116	3388	3	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_014	3389	1	2003	0	0	0	0	0
DOR_06-AUG- 06_HW2_HEV_010	3390	1	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_004	3391	2	2003	0	0	0	0	0
SWFC-AJC- 20040914-D-0045	3392	2	2003	0	0	0	0	0
20050901-EAF- 0417	3393	3	2003	0	0	1	0	1
20050827-EAF- 0144	3394	3	2003	0	0	0	0	0
20050816-EAF- 0063	3395	3	2003	0	0	1	0	1
NGOS-DKE- 20050728-1-0025	3396	1	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_148	3397	2	2003	0	0	0	0	0
20050816-EAF- 0027	3398	3	2003	0	0	0	0	0
20050821-EAF- 0300	3399	2	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_069	3400	2	2003	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_063	3401	2	2003	0	0	0	0	0
NMML-COM- 2004JUN25-604- 008	3402	3	2003	0	0	0	0	0
04OD_01-SEP- 05_S556_PJC1_331	3403	3	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_086	3404	2	2003	0	0	0	0	0
11JULY2003 R1 F24	3405	3	2003	0	1	0	0	1
NGOS-COM- 20050717-1-1898	3407	2	2003	0	0	0	0	0

DOR_12-AUG-06_HW1_DKE_009	3408	3	2003	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_071	3409	1	2003	0	0	0	0	0
DOR_12-AUG-06_HW1_DKE_033	3410	2	2003	0	0	0	0	0
NGOS-COM-20050717-1-1839	3411	2	2003	0	0	0	0	0
20050901-EAF-0404	3412	1	2003	0	0	0	0	0
20050816-EAF-0076	3413	2	2003	0	0	0	0	0
20050827-EAF-0162	3414	3	2003	0	0	0	0	0
20050901-EAF-0459	3415	2	2003	0	0	0	0	0
20050821-EAF-0238	3416	3	2003	0	0	0	0	0
20050821-EAF-0284	3417	2	2003	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_233	3418	2	2003	0	0	0	0	0
05OD_06-SEP-05_S616_MDN1_002	3419	2	2003	0	0	0	0	0
28AUG2003 R5 F11	3420	1	2003	0	0	1	0	1
05OD_07-SEP-05_S617_BKR1_151	3421	2	2003	0	0	0	0	0
05OD_07-SEP-05_S617_BRK1_277	3422	2	2003	0	0	0	0	0
05OS_01-SEP-05-S556_BKR1_247	3423	2	2003	0	0	0	0	0
SWFC-CSO-20040827-B-0010	3424	3	2003	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_109	3425	2	2003	0	0	0	0	0
NMML-EAM-20040701-F7-036	3426	2	2003	0	0	0	0	0
SWFC-CSO-20040913-D-0113	3427	2	2003	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_221	3428	2	2003	0	0	0	0	0
DOR_19-AUG-06_HW6_HEV_011	3429	3	2003	0	0	0	0	0
NGOS-KL-20040617-1-0037	3430	3	2003	0	0	0	0	0
SWFC-LGT-20040910-A-0049	3431	2	2003	0	0	0	0	0
NGOS-DP-20040712-2-0004	3432	2	2003	0	0	0	0	0
NGOS-DKE-20050725-1-0042	3433	3	2003	0	0	0	0	0
NGOS-DKE-2005-728-1-0099	3434	3	2003	0	0	0	0	0
NGOS-DKE-20050728-1-0005	3435	2	2003	0	0	0	0	0
NGOS-DKE-20050726-1-0002	3437	1	2003	0	0	0	0	0

NGOS-DKE- 20050728-1-0045	3438	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0046	3439	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0103	3440	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0120	3441	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0010	3442	2	2003	0	0	0	0	0
05OD_06-SEP- 05_S616_MDN1_022	3443	2	2003	0	0	0	0	0
05OD-31-AUG- 05_S523_PJC1_084	3444	2	2003	0	0	0	0	0
SWFC-LLZ- 20040913-A-0130	3445	3	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0025	3446	2	2003	0	0	0	0	0
SWFC-LLZ- 20040901-A-0002	3447	2	2003	0	0	0	0	0
NGOS-DP- 20040710-1-0027	3448	3	2003	0	0	1	0	1
NGOS-DKE- 20050726-1-0013	3449	3	2003	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_221	3450	2	2003	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_040	3451	3	2003	1	0	0	0	1
NGOS-KL- 20040614-1-0014	3452	3	2003	0	0	0	0	0
NGOS-TM- 20040831-1-0009	3453	2	2003	0	0	0	0	0
SWFC-LLZ- 20040827-A-0015	3454	2	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_233	3455	1	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0095	3456	3	2003	0	0	0	0	0
SWFC-HOF- 20040901-B-0069	3457	2	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_012	3458	2	2003	0	0	0	0	0
SWFC-HOF- 20040901-B-0086	3459	1	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0030	3460	2	2003	0	0	0	0	0
SWFC-CSO- 20040827-B-0004	3461	2	2003	0	0	0	0	0
NMML-KP- 20040721-02-019	3462	2	2003	0	0	0	0	0
NMML-JD- 20040723-12-009	3463	2	2003	0	0	0	0	0
SWFC-LGT- 20040910-A-0037	3464	2	2003	0	0	0	0	0
NMML-SEY- 20040616-1-001	3465	2	2003	0	0	0	0	0
NGOS-COM-	3466	2	2003	0	0	0	0	0

NGOS-JA- 20040803-1-0002	3496	1	2003	0	0	0	0	0
29AUG2003 R8 F35	3497	2	2003	0	0	1	0	1
NGOS-DKE- 20050728-1-0155	3498	1	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_045	3499	1	2003	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_274	3500	1	2003	0	0	0	0	0
DOR_01-AUF- 06_HW1_SEM_043	3501	2	2003	0	0	0	0	0
NGOS-DKE- 20050724-1-0006	3502	1	2003	0	0	0	0	0
NGOS-TM-2040628- 1-0016	3503	1	2003	0	0	0	0	0
NGOS-TM- 20040613-1-0005	3504	1	2003	0	0	0	0	0
NGOS-KW- 20040721-1-0012	3505	1	2003	0	0	0	0	0
NGOS-KW- 20040721-1-0006	3506	2	2003	0	0	0	0	0
NMML-EAM- 20040701-F8-010	3507	1	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1933	3508	2	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1937	3509	3	2003	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_068	3510	2	2003	0	0	0	0	0
20050813-EAF- 0026	3511	3	2003	0	0	0	0	0
NGOS-KEL- 20050822-0231	3512	1	2003	0	0	0	0	0
SWFC-RLP- 20040903-R-0024	3513	2	2003	0	0	0	0	0
20050813-EAF- 0015	3514	2	2003	0	0	0	0	0
20050813-EAF- 0048	3515	1	2003	1	0	0	0	1
SWFC-SEH- 20040811-B-0012	3516	1	2003	0	0	0	0	0
SWFC-MFR- 20040902-A-0149	3517	1	2003	0	0	0	0	0
NGOS-KL- 20040725-1-0033	3518	2	2003	0	0	0	0	0
SWFC-HOF- 20040901-B-0071	3519	1	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_202	3520	1	2003	0	0	0	0	0
29AUG2003 R7 F17	3521	3	2003	0	0	1	0	1
SWFC-LLZ- 20040903-C-0028	3522	2	2003	0	0	0	0	0
SWFC-RLP- 20040910-R-0044	3523	1	2003	0	0	0	0	0
29AUG2003 R5 F27	3524	1	2003	0	0	1	0	1
05OD_01-SEP- 05_S556_BKR1-112	3525	2	2003	0	0	0	0	0

05OD-07-SEP-	3526	2	2003	0	1	0	0	1
05_S617_BKR1_044								
20050812-EAF-	3527	1	2003	0	0	0	0	0
0022								
29AUG2003 R7 F26	3528	2	2003	0	0	1	0	1
20050831-EAF-	3529	1	2003	0	0	0	0	0
0110								
20050831-EAF-	3530	2	2003	0	0	0	0	0
0036								
20050901-EAF-	3531	3	2003	0	0	0	0	0
0445								
20050814-EAF-	3532	2	2003	0	0	0	0	0
0064								
NGOS-TM-	3533	3	2003	0	0	0	0	0
20040829-1-0026								
04OD_06-SEP-	3534	2	2003	0	0	0	0	0
05_S616_MDN1_004								
SWFC-CSO-	3535	3	2003	0	0	0	0	0
20040915-F-0090								
SWFC-MHD-	3536	3	2003	0	0	0	0	0
20040903-B-0168								
05OD_31-AUG-	3537	2	2003	0	0	0	0	0
05_S523_PJC1_037								
05OD_07-SEP-	3538	3	2003	0	0	0	0	0
05_S617_PJC1_093								
20050831-EAF-	3539	3	2003	0	0	0	0	0
0034								
05OD_07-SEP-	3540	3	2003	0	0	0	0	0
05_S617_BKR_257								
05OD_01-SEP-	3541	3	2003	0	1	0	0	1
05_S556_PJC1_315								
20050812-EAF-	3542	2	2003	0	0	0	0	0
0026								
20050901-EAF-	3543	3	2003	0	0	0	0	0
0338								
05OD_01-SEP-	3544	3	2003	0	0	0	0	0
05_S556_BKR1_018								
29AUG2003 R7 F26	3545	2	2003	0	0	1	0	1
05OD_01-SEP-	3546	2	2003	0	0	0	0	0
05_S556_BKR1_033								
20050901-EAF-	3547	3	2003	0	0	0	0	0
0372								
20050812-EAF-	3548	3	2003	0	0	0	0	0
0019								
DOR_01-AUG-	3549	2	2003	0	0	0	0	0
06_HW1_HEV_037								
NGOS-DKE-	3550	3	2003	0	0	0	0	0
20050728-1-0006								
NGOS-DP-	3551	3	2003	0	0	0	0	0
20040803-2-0004								
NGOS-DKE-	3552	2	2003	0	0	0	0	0
20050725-1-0022								
DOR_19-AUG-	3553	3	2003	0	0	0	0	0
06_HW8_HEV_003								
DOR_19-AUG-	3554	2	2003	0	0	0	0	0
06_HW9_HEV_015								
DOR_19-AUG-	3555	2	2003	0	0	0	0	0

SWFC-LLZ- 20040914-C-0052	3585	3	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1850	3587	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0150	3588	3	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_103	3589	3	2003	0	0	0	0	0
DOR_06-AUG- 06_HW2_HEV_011	3590	2	2003	0	0	0	0	0
20050824-EAF- 0070	3591	3	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0059	3592	3	2003	0	0	0	0	0
20050901-EAF- 0455	3593	2	2003	0	0	0	0	0
NMML-JD- 20040722-10-0004	3594	2	2003	0	0	0	0	0
29AUG2003 R9 F12	3595	2	2003	0	0	1	0	1
DOR_18-AUG- 06_HW3_HEV_001	3596	2	2003	0	0	0	0	0
NGOS-TM- 20040831-1-0016	3597	2	2003	1	0	0	0	1
SWFC-LLZ- 20040827-A-0024	3598	3	2003	0	0	0	0	0
SWFC-DEG- 20040910-D-0113	3599	2	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0018	3600	2	2003	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_001	3601	2	2003	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_030	3602	2	2003	0	0	0	0	0
SWFC-HOF- 20040908-B-0006	3603	3	2003	0	0	0	0	0
DOR_26-JAL- 06_HW1_HEV_52	3604	2	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0037	3605	3	2003	0	0	0	0	0
NGOS-TM- 20040628-1-0008	3606	3	2003	0	0	0	0	0
DOR_19-AUG- 06_HW10_HEV_005	3607	3	2003	0	0	0	0	0
NGOS-DKE- 20050728-1-0105	3608	2	2003	0	0	0	0	0
DOR_07-AUG- 06_HW1_HEV_014	3609	3	2003	0	0	0	0	0
NMML-KP- 20040726-17-002	3610	3	2003	0	0	0	0	0
NGOS-DE- 20040810-1-0021	3611	2	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1962	3612	1	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_057	3613	2	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_027	3614	3	2003	0	0	0	0	0

NGSWFC-KEL- 20050822-1-011	3615	2	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_162	3616	3	2003	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_008	3617	2	2003	0	0	0	0	0
20050901-EAF- 0448	3618	2	2003	0	0	0	0	0
20050901-EAF- 0454	3619	3	2003	0	0	0	0	0
20050816-EAF- 0127	3620	3	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0104	3621	1	2003	0	0	0	0	0
20050901-EAF-047	3623	2	2003	0	0	0	0	0
NGOS-DE- 20040810-1-0026	3624	2	2003	0	0	0	0	0
NGOS-TM- 20040829-1-0007	3625	2	2003	0	0	0	0	0
20050816-EAF- 0079	3626	2	2003	0	0	0	0	0
20050816-EAF- 0140	3627	3	2003	0	0	0	0	0
SWFC-MFR- 20040902-A-0155	3628	2	2003	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_050	3629	3	2003	0	0	0	0	0
NMML-JD- 20040727-19-006	3630	2	2003	0	0	0	0	0
NGOS-TM- 20040613-1-0039	3631	2	2003	0	0	0	0	0
05OD_040SEP- 05_S559_BKR1_055	3632	2	2003	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_024	3633	3	2003	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_041	3634	2	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0160	3635	2	2003	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_050	3636	2	2003	0	0	0	0	0
NMML-COM- 2005JUN25-604- 061	3638	3	2003	0	0	0	0	0
DOR_18-AUG- 06_HW5_HEV_017	3639	3	2003	0	0	0	0	0
SWFC-LLZ- 20040913-A-0078	3640	2	2003	0	0	0	0	0
SWFC-LGT- 20040903-A-0137	3641	3	2003	0	0	0	0	0
05OD_01-SEP- 05) S556_BKR1_023	3642	2	2003	0	0	0	0	0
NMML-DKE- 2005JUL08-861- 006	3643	3	2003	0	0	0	0	0
SWFC-LLZ- 20040901-A-0090	3644	3	2003	0	0	0	0	0

DOR_12-AUG- 06_HW1_HEV_063	3645	2	2003	0	0	0	0	0
NGOS-DP- 20040711-1-0002	3646	2	2003	0	0	0	0	0
SWFC-DEG- 20040808-C-0022	3647	3	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0056	3648	3	2003	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_092	3649	2	2003	0	0	0	0	0
NMML-COM- 2005JUN25-604-80	3650	2	2003	0	0	0	0	0
SWFC-RLP- 20040914-A-0015	3651	2	2003	0	0	0	0	0
SWFC-ADL- 20040810-B-0021	3652	2	2003	0	0	0	0	0
NGOS0COM- 20050717-1-1882	3653	3	2003	0	0	0	0	0
20050816-EAF-134	3654	2	2003	0	0	0	0	0
NGOS-DE- 20040815-1-0002	3655	2	2003	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_010	3656	2	2003	0	0	0	0	0
05OD_31-AUG- 05_S523_PJC1_072	3657	2	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_022	3658	3	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1843	3659	3	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1947	3660	2	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0201	3661	1	2003	0	0	1	0	1
NGOS-KEL- 20050822-1-0044	3662	2	2003	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_005	3663	2	2003	0	0	0	0	0
20050816-EAF- 0154	3664	3	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0199	3665	2	2003	0	0	1	0	1
05OD_04-SEP- 05_S559_BKR1_012	3666	3	2003	0	0	0	0	0
NGOS-DKE- 20050725-1-0009	3667	3	2003	0	1	0	0	1
SWFC-RLP- 20040914-A-0027	3668	2	2003	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_020	3669	2	2003	0	0	0	0	0
NGOS-TM- 20040701-1-0029	3670	2	2003	0	0	0	0	0
NGOS-DKE- 20050726-1-0023	3671	3	2003	0	0	0	0	0
NGOS-TM- 20040615-1-0001	3672	2	2003	0	0	0	0	0
SWFC-HOF- 20040901-B-0100	3673	2	2003	0	0	0	0	0

SWFC-DEG- 20040827-C-0006	3674	3	2003	0	0	0	0	0
SWFC-DEG- 20040914-C-0066	3675	2	2003	0	0	0	0	0
SWFC-LLZ- 20040827-A-0012	3676	3	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0098	3677	3	2003	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_003	3678	2	2003	0	0	0	0	0
NGOS-TM- 20040829-1-0042	3679	2	2003	0	1	1	0	2
20050814-EAF- 0088	3680	2	2003	0	0	0	0	0
NGOS-DP- 20040711-1-0001	3681	3	2003	0	0	0	0	0
NGOS-TM- 20040828-1-0026	3682	1	2003	0	0	0	0	0
NGOS-DE- 20040817-1-0009	3683	2	2003	0	0	0	0	0
20050824-EAF- 0047	3684	2	2003	0	0	0	0	0
NGOS-TM- 20040613-1-0038	3685	1	2003	0	0	0	0	0
NGOS-DKE- 20050725-1-0081	3686	3	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1910	3687	3	2003	0	0	0	0	0
NGOS-DKE- 20050717-1-0096	3688	3	2003	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_015	3689	3	2003	0	0	0	0	0
NMML-EW- 20040816-57-004	3690	1	2003	0	0	0	0	0
NGOS-DKE- 20050725-1-0068	3691	2	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1840	3692	2	2003	0	0	0	0	0
20050827-EAF- 0085	3693	2	2003	0	0	0	0	0
20050816-EAF- 0139	3694	2	2003	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_122	3695	3	2003	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_266	3696	2	2003	0	0	0	0	0
NGOS-COM- 20050717-1-1934	3697	2	2003	0	0	0	0	0
NGOS-TM- 20040613-1-0033	3698	1	2003	0	0	0	0	0
29AUG2003 R9 F21	3699	2	2003	0	0	1	0	1
SWFC-LGT- 20040903-A-0151	3700	1	2003	0	0	0	0	0
20050824-EAF- 0071	3701	2	2003	0	0	0	0	0
NGOS-DKE- 20050725-1-0041	3702	2	2003	0	0	0	0	0

05OD_01-SEP-	3703	2	2003	0	0	0	0	0
05_S556_BKR1_267								
NGOS-DKE-	3704	2	2003	0	0	0	0	0
20050728-1-0153								
SWFC-DEG-	3705	2	2003	0	0	0	0	0
20040904-A-0024								
05OD_01-SEP-	3706	3	2003	0	0	0	0	0
05_S556_BKR1_181								
05OD_07-SEP-	3707	2	2003	0	0	0	0	0
05_S617_BKR1_206								
05OD_01-SEP-	3708	1	2003	0	0	0	0	0
05_S556_PJC1_014								
NGOS-DKE-	3709	1	2003	0	0	0	0	0
20050725-1-0017								
2001-UN-1718-10	401002	3	2003	0	0	0	0	0
2001-UN-1718-13	401004	1	2003	0	0	0	0	0
2001-UN-1718-14	401005	2	2003	0	0	0	0	0
2001-UN-1718-17	401006	2	2003	0	0	0	0	0
29AUG2003 R9 FE	401614	3	2003	0	1	1	0	2
2002-UN-2349-20	401104	2	2003	0	0	0	0	0
2002-UN-2349-28	401107	3	2003	0	0	0	0	0
1AUG2003 R3 F34	401531	2	2003	1	0	1	0	2
2002-AL-2308-3a	401201	3	2003	0	0	0	0	0
2002-AL-2308-13a	401203	1	2003	0	0	0	0	0
2002-AL-2308-19a	401205	2	2003	0	0	0	0	0
2002-AL-2308-24a	401207	2	2003	0	0	0	0	0
2002-AL-2308-26a	401209	2	2003	0	0	0	0	0
2002-AL-2308-29a	401210	1	2003	0	0	0	0	0
2002-AL-2307-15	401217	1	2003	0	0	0	0	0
2002-AL-2307-22	401218	2	2003	0	0	0	0	0
2002-AL-2307-32	401220	2	2003	0	0	0	0	0
2002-AL-2307-E	401221	1	2003	0	0	0	0	0
2002-AL-2344-12	401224	2	2003	0	0	0	0	0
2002-AL-2344-13	401225	2	2003	0	0	0	0	0
2002-AL-2344-25	401227	2	2003	0	0	0	0	0
2002-AL-2344-27	401228	1	2003	0	0	0	0	0
2002-AL-2345-19	401230	3	2003	0	0	0	0	0
2002-AL-2343-13	401247	3	2003	0	0	0	0	0
2002-AL-2343-18	401232	3	2003	0	0	0	0	0
2002-AL-2343-23	401233	2	2003	0	0	0	0	0
2002-AL-2343-24	401234	2	2003	0	0	0	0	0
2002-AL-2343-26	401235	2	2003	0	0	0	0	0
2002-AL-2343-32	401237	1	2003	0	0	0	0	0
2002-AL-2343-33	401238	2	2003	0	0	0	0	0
2002-AL-2343-35	401239	2	2003	0	0	0	0	0
2002-AL-2345-1	401240	1	2003	0	0	0	0	0
2002-AL-2345-8	401244	2	2003	0	0	0	0	0
2002-AL-2345-14	401246	2	2003	0	0	0	0	0
2002-AL-2345-18	401248	2	2003	0	0	0	0	0
2002-AL-2345-22	401251	2	2003	0	0	0	0	0
2002-AL-2345-E	401256	3	2003	0	1	0	0	1
2002-AL-2571-3	401258	2	2003	0	0	0	0	0
2002-QL-2571-5	401260	3	2003	0	0	0	0	0
10JUN2003 R1 F7	401404	2	2003	1	0	0	0	1
31JUL2003 R5 F19	401463	2	2003	1	1	0	0	2
10JUN2003 R1 F8	401405	3	2003	1	0	0	0	1
10JUN2003 R1 F18	401408	2	2003	1	0	0	0	1

10JUN2003	R1	F21	401409	3	2003	1	0	0	0	1
10JUN2003	R1	F22	401410	2	2003	1	0	0	0	1
15JUL2003	R4	F25	401451	1	2003	1	1	0	0	2
21JUN2003	R2	F17	401422	2	2003	1	0	0	0	1
5JUL2003	R2	F22	401425	1	2003	0	1	0	0	1
8JUL2003	R2	F29	401428	2	2003	0	1	0	0	1
8JUL2003	R2	F32	401429	2	2003	0	1	0	0	1
8JUL2003	R2	F33	401430	2	2003	0	1	0	0	1
8JUL2003	R3	F2	401431	1	2003	0	1	0	0	1
8JUL2003	R3	F25	401436	1	2003	0	1	0	0	1
12JUL2003	R3	F28	401437	1	2003	0	1	0	0	1
12JUL2003	R3	F30	401439	3	2003	0	1	0	0	1
12JUL2003	R3	F32	401441	2	2003	0	1	0	0	1
15JUL2003	R4	F5a	401444	2	2003	0	1	0	0	1
30JUL2003	R5	F4	401455	2	2003	0	1	0	0	1
31JUL2003	R5	F8	401457	2	2003	0	1	0	0	1
31JUL2003	R5	F10	401458	3	2003	0	1	0	0	1
31JUL2003	R5	F12	401460	2	2003	0	1	0	0	1
31JUL2003	R5	F14	401462	1	2003	0	1	0	0	1
31JUL2003	R5	F26	401466	3	2003	0	1	0	0	1
31JUL2003	R5	F27	401467	2	2003	0	1	0	0	1
31JUL2003	R5	FE	401471	2	2003	0	1	0	0	1
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	F10									
11JULY2003	R1	F5	401502	2	2003	0	1	0	0	1
11JULY2003	R1		401512	2	2003	0	1	0	0	1
	F26									
11JULY2003	R1		401514	2	2003	0	1	0	0	1
	F32									
29JULY2003	R2		401518	2	2003	0	1	0	0	1
	F13									
29JULY2003	R2		401520	2	2003	0	1	0	0	1
	F18									
29JULY2003	R2		401521	3	2003	0	1	0	0	1
	F20									
4AUG2003	R4	F6	401534	1	2003	0	0	1	0	1
5AUG2003	R4	F22	401538	2	2003	0	0	1	0	1
28AUG2003	R5	F8	401546	2	2003	0	1	1	0	2
7AUG2003	R4	F34	401541	3	2003	0	0	1	0	1
7AUG2003	R5	F4	401544	2	2003	0	0	1	0	1
7AUG2003	R5	F5	401545	1	2003	0	0	1	0	1
28AUG2003	R5	F16	401549	3	2003	0	0	1	0	1
28AUG2003	R5	F33	401555	3	2003	0	0	1	0	1
29AUG2003	R5	F11	401559	2	2003	0	0	1	0	1
29AUG2003	R5	F9	401558	2	2003	0	0	1	0	1
29AUG2003	R6	F2	401561	2	2003	0	0	1	0	1
29AUG2006	R6	F11	401562	1	2003	0	0	1	0	1
29AUG2003	R7	F1	401566	1	2003	0	0	1	0	1
29AUG2003	R7	F32	401575	2	2003	0	0	1	0	1
29AUG2003	R8	F10	401580	1	2003	0	0	1	0	1
29AUG2003	R8	F17	401581	2	2003	0	0	1	0	1
29AUG2003	R8	F27	401585	2	2003	0	0	1	0	1
29AUG2003	R8	F33	401586	2	2003	0	0	1	0	1
29AUG2003	R8	F20	401583	1	2003	0	0	1	0	1
29AUG2003	R9	F1	401589	2	2003	0	0	1	0	1
29AUG2003	R9	F17	401596	2	2003	0	0	1	0	1
29AUG2003	R9	F18	401597	2	2003	0	0	1	0	1

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NGOS-DKE- 20050717-1-0198	3053	3	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0029	3054	3	2004	0	0	0	1	1
NGOS-DKE- 20050717-1-0143	3055	3	2004	0	0	0	0	0
NGOS-KEL- 20050822-1-0069	3056	2	2004	0	0	0	0	0
NGOS-DP- 20040711-1-0005	3057	2	2004	0	1	0	0	1
20050813-EAF- 0081	3058	2	2004	0	0	0	0	0
05OD_07-SEP- 05)S617_PJC_108	3059	2	2004	0	0	0	0	0
SWFC-AJC- 20240903-C-0009	3060	2	2004	0	0	0	1	1
20050814-EAF- 0101	3061	2	2004	0	0	0	0	0
NGOS-DE- 20040817-1-0023	3062	3	2004	0	1	0	0	1
20050812-EAF- 0122	3063	3	2004	0	0	0	0	0
NGOS-TM- 20040829-1-0010	3064	3	2004	0	0	1	1	2
05OD_01-SEP- 05_S556_PJC1_364	3066	1	2004	0	0	0	0	0
05OF_01-SEP- 05_S556_PJC1_355	3067	2	2004	0	0	0	0	0
05OD_04-SEP- 05_S556_BKR2_003	3068	2	2004	0	0	0	0	0
DOR_19-AUG- 06_HW8_HEV_002	3069	3	2004	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_16	3070	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0152	3071	2	2004	0	0	0	0	0
SWFC-RLP- 20040914-A-0050	3072	3	2004	0	0	0	1	1
NGOS-TM- 20040831-1-0005	3073	3	2004	0	0	1	0	1
NGOS-TM- 20040613-1-0032	3074	3	2004	1	0	0	1	2
NGOS-DP- 20040710-1-0025	3075	3	2004	0	1	0	0	1
NGOS-DP- 20040712-1-0035	3076	2	2004	0	1	0	0	1
NGOS-KEL- 20050822-1-0181	3077	3	2004	0	0	1	0	1
NGOS-COM- 20050717-1-1906	3078	2	2004	0	0	0	0	0
NGOS-KL- 20040626-1-0004	3079	3	2004	1	0	0	0	1
NGOS-DE- 20040810-1-0031	3080	2	2004	0	0	1	0	1
NGOS-TM-	3081	3	2004	1	0	0	1	2

05OD_01-SEP- 05_S556_PJC1_311	3110	2	2004	0	0	0	0	0
2005-EAF-0242	3111	2	2004	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_126	3112	3	2004	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_072	3113	2	2004	0	0	0	0	0
NMML-COM- 2005JUN25-604- 037	3114	2	2004	0	0	0	0	0
NGOS-TM- 20040907-1-0009	3115	3	2004	1	0	0	1	2
NGOS-KL- 20040617-1-0097	3116	3	2004	1	0	0	0	1
20050821-EAF- 0267	3117	2	2004	0	0	0	0	0
05OD_31-AUG- 05_S523_PJC1_063	3118	2	2004	0	0	0	0	0
2005-EAF-0166	3119	1	2004	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_123	3120	2	2004	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_110	3121	2	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_038	3122	3	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_019	3123	2	2004	0	0	0	0	0
20050901-EAF- 0428	3124	2	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_109	3125	3	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0005	3126	2	2004	0	0	0	0	0
NGOS-DP- 20040712-2-0005	3127	2	2004	0	1	0	0	1
20050824-EAF- 0026	3128	1	2004	0	0	0	0	0
20050901-EAF- 0410	3129	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0087	3130	3	2004	0	0	0	0	0
20050814-EAF- 0143	3131	2	2004	0	0	0	0	0
20050824-EAF- 0062	3132	3	2004	0	0	0	0	0
NGOS-KL- 2004062601-0011	3133	2	2004	1	0	0	0	1
20050827-EAF- 0017	3134	2	2004	0	0	0	0	0
NGOS-KW- 20040721-1-0005	3135	3	2004	0	0	0	0	0
20050824-EAF- 0059	3136	3	2004	0	0	0	0	0
20050816-EAF- 0102	3137	3	2004	0	0	0	0	0
20050821-EAF- 0286	3138	2	2004	0	0	0	0	0

20050821-EAF-0247	3139	2	2004	0	0	0	0	0
05OD_31-AUG-05_S532_PJC1_025	3140	2	2004	0	0	0	0	0
NGOS-DKE-20050717-1-0077	3141	3	2004	0	0	0	0	0
20050824-EAF-0044	3142	3	2004	0	0	0	0	0
20050824-EAF-0090	3143	2	2004	0	0	0	0	0
20050814-EAF-0127	3144	3	2004	0	0	0	0	0
NMML-LJM-20040701-F6-030	3145	3	2004	0	1	0	0	1
20050901-EAF-0354	3146	2	2004	0	0	0	0	0
SWFC-DEG-20040910-D-0051	3147	2	2004	0	0	0	1	1
SWFC-HOF-20040901-B-0021	3148	2	2004	0	0	0	1	1
05OD_01-SEP-05_S556_BKR1_269	3149	3	2004	0	0	0	0	0
NGOS-DKE-20050717-1-0190	3150	3	2004	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_053	3151	3	2004	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_009	3152	1	2004	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_036	3153	2	2004	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_051	3154	3	2004	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_070	3155	2	2004	0	0	0	0	0
DOR_05-AUG-06_HW1_HEV_021	3156	3	2004	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_036	3157	2	2004	0	0	0	0	0
DOR_07-AUG-06_HW1_HEV_013	3158	2	2004	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_069	3159	2	2004	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_038	3160	3	2004	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_045	3161	3	2004	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_038	3162	2	2004	0	0	1	0	1
DOR_15-AUG-06_HW1_DKE_059	3163	2	2004	0	0	0	0	0
SWFC-MHD-20040903-B-0015	3164	2	2004	0	0	0	1	1
NGOS-TM-20040907-1-0011	3165	2	2004	0	0	0	1	1
NGOS-KEL-20050822	3166	2	2004	0	0	0	0	0
NGOS-DKE-	3167	1	2004	0	0	0	0	0

NGOS-DKE- 20050717-1-0197	3196	2	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0074	3197	2	2004	1	0	0	0	1
NGOS-DKE- 20050717-1-0021	3198	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0012	3199	2	2004	0	0	0	0	0
NGOS-DKE- 20050718-1-0033	3200	2	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0100	3201	3	2004	0	0	0	1	1
NGOS-DP- 20050710-1-0030	3202	3	2004	0	1	0	0	1
NGOS-DKE- 20050717-1-0185	3203	3	2004	0	0	0	0	0
NGOS-DKE- 20050725-1-0062	3204	2	2004	0	0	0	0	0
NGOS-DKE- 20050724-1-0001	3205	2	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0007	3206	3	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0069	3207	3	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0039	3208	3	2004	0	0	0	0	0
NGOS-DKE- 20050727-1-10050	3209	2	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0055	3210	2	2004	0	0	0	0	0
NGOS-KL- 20040626-1-0010	3211	2	2004	1	1	0	0	2
20050812-EAF- 0054	3212	2	2004	0	0	0	0	0
NGOS-KL- 20040617-1-0009	3213	1	2004	1	0	0	0	1
DOR_19-AUG- 06_HW9_HEV_035	3214	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0131	3215	2	2004	0	0	0	1	1
NMML-DKE- 2005JUL09-894- 013	3216	3	2004	0	0	0	0	0
SWFC-ADL- 20040810-B-0012	3217	3	2004	0	0	1	0	1
SWFC-DEG- 20040910-D-0131	3218	2	2004	0	0	0	1	1
NGOS-TM- 20040624-1-0047	3219	2	2004	1	0	0	0	1
NGOS-TM- 20040701-1-0009	3220	2	2004	0	1	0	0	1
NGOS-TM- 20040901-1-0078	3222	2	2004	0	0	0	1	1
NGOS-TM- 20050613-1-0003	3223	3	2004	1	0	0	0	1
05OD_01-SEP- 05_S556_PJC1_360	3224	3	2004	0	1	0	1	2

SWFC-DEG- 20040904-A-0036	3225	3	2004	0	0	0	1	1
SWFC-DEG- 20040904-A-0031	3226	2	2004	0	0	0	1	1
NMML-KP- 20040726-17-016	3227	2	2004	0	1	0	0	1
NMML-JD- 20040723-12-006	3228	3	2004	0	1	0	0	1
NMML-KP- 20040721-02-045	3229	2	2004	0	1	0	0	1
SWFC-AJC- 20040914-D-0047	3230	2	2004	0	0	0	1	1
SWFC-LGT- 20040903-A-0079	3231	2	2004	0	0	0	1	1
NMML-HOF- 2005JUN25-604- 019	3232	3	2004	0	0	0	0	0
SWFC-LLZ- 20040901-A-0041	3233	3	2004	0	0	0	1	1
SWFC-JPB- 20040810-D-0016	3234	3	2004	0	0	1	0	1
SWFC-RLP- 20040901-R-0003	3235	2	2004	0	0	0	1	1
SWFC-RLP- 20040914-A-0030	3236	2	2004	0	0	0	1	1
SWFC-RLP- 20040902-R-0040	3237	2	2004	0	0	0	1	1
SWFC-RLP- 20040914-A-0025	3238	2	2004	0	0	0	1	1
SWFC-HOF- 20040901-B-0025	3239	3	2004	0	0	0	1	1
SWFC-HOF- 20040901-B-0104	3240	3	2004	0	0	0	1	1
SWFC-HOF- 20040901-B-106	3241	2	2004	0	0	0	1	1
05OD_04-SEP- 05_S559_BKR1_059	3242	2	2004	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_259	3243	3	2004	0	0	0	0	0
DOR_15-AUG- 06_HW2_HEV_085	3244	2	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_023	3245	2	2004	0	0	0	0	0
NMML-BP- 20040816-56-003	3246	2	2004	0	0	1	0	1
NGOS-DKE- 20050728-1-0098	3247	2	2004	0	0	0	0	0
NMML-LGM- 20040701-F6-024	3248	2	2004	0	1	0	0	1
SWFC-CSO- 20040827-B-0041	3249	3	2004	0	0	1	0	1
NMML-KP- 20040726-18-003	3250	3	2004	0	1	0	0	1
NGOS-KL- 20040617-1-0035	3251	2	2004	1	0	0	0	1
20050813-EAF- 0014	3252	2	2004	0	0	0	0	0

20050904-EAF-0034	3253	3	2004	0	0	0	0	0
NGOS-KL-20040725-1-0002	3254	2	2004	0	1	0	0	1
NGOS-TM-20050624-1-0046	3255	2	2004	1	0	0	0	1
NGOS-DP-20040712-1-0026	3256	2	2004	0	1	0	0	1
NGOS-TM-20040901-1-0066	3257	3	2004	0	0	0	1	1
SWFC-LGT-20040910-A-0066	3258	2	2004	0	0	0	1	1
NGOS-DKE-20050725-1-0040	3259	2	2004	0	0	0	0	0
NGOS-DKE-20050728-1-0148	3260	2	2004	0	0	0	0	0
SWFC-LLZ-20040913-A-0068	3261	2	2004	0	0	0	1	1
NGOS-DKE-20050718-1-0035	3262	2	2004	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_122	3263	2	2004	0	0	0	0	0
NGOS-DKE-20050725-1-0018	3264	2	2004	0	0	0	0	0
DOR_15-AUG-06_HW2_HEV_081	3265	3	2004	0	0	0	0	0
NGOS-KW-20040721-1-0007	3266	3	2004	0	1	0	0	1
29AUG2003 R8 F30	3267	2	2004	0	1	0	0	1
NGOS-DE-20040817-1-0028	3268	3	2004	1	0	1	0	2
DOR_18-AUG-06_HW1_HEV_022	3269	3	2004	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_040	3270	2	2004	0	0	0	0	0
DOR_18-AUG-06_HW2_HEV_006	3271	2	2004	0	0	0	0	0
NGOS-DKE-20050728-1-0028	3272	3	2004	0	0	0	0	0
NGOS-KL-20040617-1-0008	3273	3	2004	1	0	0	0	1
DOR_26-JUL-06_HW1_HEV_054	3274	2	2004	0	0	1	0	1
NGOS-TM-20040901-1-0103	3275	3	2004	0	0	0	1	1
SWFC-MFR-20040902-A-0108	3276	2	2004	0	1	0	1	2
NGOS-DKE-20050725-1-0083	3277	3	2004	0	0	0	0	0
NGOS-DKE-20050715-1-0035	3278	3	2004	0	0	0	0	0
NGOS-TM-20040904-1-0024	3279	3	2004	0	0	0	1	1
NGOS-COM-20050717-1-1939	3280	3	2004	0	0	0	0	0
SWFC-MFR-20050914-E-0051	3281	2	2004	0	0	0	1	1

NGOS-KEL- 20050822-1-0126	3282	2	2004	0	0	0	0	0
NMML-DKE- 2005JUL08-861- 005	3283	3	2004	0	0	0	0	0
20050814-EAF- 0134	3284	2	2004	0	0	0	0	0
NGOS-DP- 20040712-1-0012	3285	2	2004	0	1	0	0	1
15JUL2003 R4 F15a	3286	3	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0146	3287	2	2004	0	0	0	0	0
NGOS-TM- 20040630-1-0014	3288	2	2004	1	0	0	0	1
NGOS-DE- 20040809-1-0014	3289	2	2004	0	0	1	0	1
GNOSWFC-DKE- 2005072801-011	3290	2	2004	0	0	0	0	0
DOR_15-AUG- 06_HW2_HEV_097	3291	2	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_024	3292	3	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1863	3293	2	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_022	3294	3	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_017	3295	3	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0035	3296	1	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0082	3297	2	2004	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_009	3298	3	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0093	3299	2	2004	0	0	0	0	0
SWFC-LGT- 20040910-A-0057	3300	2	2004	0	0	0	1	1
29AUG2003 R8 F19	3301	3	2004	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_241	3302	2	2004	0	0	0	0	0
20050820-EAF- 0033	3303	2	2004	0	0	0	0	0
20050901-EAF- 0379	3304	2	2004	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_055	3305	2	2004	0	0	0	0	0
SWFC-JRB- 20040909-B-0054	3306	1	2004	0	0	0	1	1
DOR_02-AUG- 06_HW1_HEV_003	3307	2	2004	0	0	0	0	0
NGOS-DE- 20040815-1-0008	3308	2	2004	0	0	1	0	1
05OD_07-SEP- 05_S617_BKR1_042	3309	2	2004	0	0	0	0	0
NGOS-COM-	3310	2	2004	0	0	0	0	0

DOR_26-JUL- 06_HW1_HEV_072	3339	2	2004	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_089	3340	2	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_039	3341	2	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0085	3342	3	2004	0	0	1	0	1
20050901-EAF- 0449	3343	2	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_005	3344	1	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_032	3345	3	2004	0	0	0	0	0
DOR_18-AUG- 06_HW5_HEV_029	3346	3	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_001	3347	2	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1885	3348	1	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1874	3349	1	2004	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_031	3350	2	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_008	3351	1	2004	0	0	0	0	0
DOR_28-JUL- 06_HW1_HEV_006	3352	1	2004	0	0	0	0	0
DOR_19-AUG- 06_HW10_HEV_007	3353	2	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1884	3354	1	2004	0	0	0	0	0
NGOS-COM- 20050718-1-1964	3355	2	2004	0	0	0	0	0
NGOS-DKE-2005- 071701-0142	3356	2	2004	0	0	0	0	0
SWFC-LGT- 20040903-A-0038	3357	2	2004	0	0	0	1	1
20050901-EAF- 0303	3358	2	2004	0	0	0	1	1
NGOS-DKE- 20050728-1-0037	3359	3	2004	0	0	0	0	0
20050827-EAF- 0063	3360	2	2004	0	0	0	0	0
SWFC-LLZ- 20040901-A-0085	3361	2	2004	0	0	0	1	1
NGOS-DKE- 20050717-1-0148	3362	1	2004	0	0	0	0	0
NGOS-DE- 20040816-1-0006	3363	2	2004	0	0	1	0	1
NGOS-DKE- 20050717-1-0207	3364	2	2004	0	0	0	0	0
NGPSWFC-DKE- 20050715-1-0036	3365	1	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0187	3366	1	2004	0	0	0	0	0
NGOS-DE-	3367	2	2004	0	0	1	0	1

20040810-1-0028								
NGOS-DE-	3368	3	2004	0	0	1	0	1
20040810-1-0005								
20050831-EAF-	3369	3	2004	0	0	0	0	0
0100								
NGOS-DKE-	3370	3	2004	0	0	0	0	0
20050728-1-0086								
NGOS-DKE-	3372	1	2004	0	0	0	0	0
20050728-1-0093								
NGOS-DP-	3373	3	2004	0	0	1	0	1
20040803-2-0011								
NGOS-DKE-	3374	1	2004	0	0	0	0	0
20050728-1-0149								
NMML-DKE-	3375	3	2004	0	0	0	0	0
2005JUL09-893-								
005								
20050901-EAF-	3376	2	2004	0	0	0	0	0
0370								
NGOS-DKE-	3377	2	2004	0	0	0	0	0
20050728-1-0137								
NGOS-KL-	3378	2	2004	0	1	0	0	1
20040725-1-0025								
NGOS-KEL-	3379	3	2004	0	0	0	0	0
20040822-1-0264								
NGOS-TM-	3380	3	2004	1	0	0	0	1
20040624-1-0004								
NGOS-DKE-	3381	2	2004	1	0	0	0	1
20050728-1-0097								
NGOS-TM-	3383	2	2004	0	0	1	0	1
20040828-1-0085								
NGOS-TM-	3384	2	2004	1	0	0	0	1
20040624-1-0037								
NGOS-TM-	3385	1	2004	0	0	1	0	1
20040828-1-0007								
DOR_19-AUG-	3386	2	2004	0	0	0	0	0
06_HW6_HEV_009								
NGOS-TM-	3387	1	2004	0	0	0	1	1
20040901-1-0029								
SWFC-MHD-	3388	3	2004	0	0	0	1	1
20040903-B-0116								
DOR_15-AUG-	3389	1	2004	0	0	0	0	0
06_HW1_HEV_014								
DOR_06-AUG-	3390	1	2004	0	0	0	0	0
06_HW2_HEV_010								
DOR_15-AUG-	3391	2	2004	0	0	0	0	0
06_HW1_HEV_004								
SWFC-AJC-	3392	2	2004	0	0	0	1	1
20040914-D-0045								
20050901-EAF-	3393	3	2004	0	0	0	0	0
0417								
20050827-EAF-	3394	3	2004	0	0	0	0	0
0144								
20050816-EAF-	3395	3	2004	0	0	0	0	0
0063								
NGOS-DKE-	3396	1	2004	0	0	0	0	0
20050728-1-0025								
05OD_07-SEP-	3397	2	2004	0	0	0	0	0

SWFC-CSO- 20040913-D-0113	3427	2	2004	0	0	0	1	1
05OD_07-SEP- 05_S617_BKR1_221	3428	2	2004	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_011	3429	3	2004	0	0	0	0	0
NGOS-KL- 20040617-1-0037	3430	3	2004	1	0	0	0	1
SWFC-LGT- 20040910-A-0049	3431	2	2004	0	0	0	1	1
NGOS-DP- 20040712-2-0004	3432	2	2004	0	1	0	0	1
NGOS-DKE- 20050725-1-0042	3433	3	2004	0	0	0	0	0
NGOS-DKE-2005- 728-1-0099	3434	3	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0005	3435	2	2004	0	0	0	0	0
NGOS-DKE- 20050726-1-0002	3437	1	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0045	3438	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0046	3439	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0103	3440	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0120	3441	2	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0010	3442	2	2004	0	0	0	0	0
05OD_06-SEP- 05_S616_MDN1_022	3443	2	2004	0	0	0	0	0
05OD-31-AUG- 05_S523_PJC1_084	3444	2	2004	0	0	0	0	0
SWFC-LLZ- 20040913-A-0130	3445	3	2004	0	0	0	1	1
SWFC-LGT- 20040903-A-0025	3446	2	2004	0	0	0	1	1
SWFC-LLZ- 20040901-A-0002	3447	2	2004	0	0	0	1	1
NGOS-DP- 20040710-1-0027	3448	3	2004	0	1	0	0	1
NGOS-DKE- 20050726-1-0013	3449	3	2004	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_221	3450	2	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_040	3451	3	2004	0	0	0	0	0
NGOS-KL- 20040614-1-0014	3452	3	2004	1	0	0	0	1
NGOS-TM- 20040831-1-0009	3453	2	2004	0	0	1	0	1
SWFC-LLZ- 20040827-A-0015	3454	2	2004	0	0	1	0	1
05OD_07-SEP- 05_S617_BKR1_233	3455	1	2004	0	0	0	0	0
NGOS-DKE-	3456	3	2004	0	0	0	0	0

20050821-EAF-0287	3486	1	2004	0	0	0	0	0
05OD_31-AUG-05_S523_PJC1_039	3487	2	2004	0	0	0	0	0
NGOS-KL-20040617-1-0036	3488	1	2004	1	0	0	0	1
NGOS-20040829-1-0004	3489	2	2004	0	1	1	0	2
NGOS-DKE-20050717-1-0195	3490	1	2004	0	0	0	0	0
NGOS-DE-20040810-1-0018	3491	2	2004	0	0	1	0	1
05OD_01-SEP-05_S556_PJC1_123	3492	2	2004	0	1	0	0	1
NGOS-DE-20040817-1-0031	3493	1	2004	0	0	1	0	1
NGOS-KEL-20050822-1-0219	3494	1	2004	0	0	0	0	0
NGOS-D-20040803-2-0014	3495	1	2004	0	0	1	0	1
NGOS-JA-20040803-1-0002	3496	1	2004	0	0	1	0	1
29AUG2003 R8 F35	3497	2	2004	1	0	0	0	1
NGOS-DKE-20050728-1-0155	3498	1	2004	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_045	3499	1	2004	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_274	3500	1	2004	0	0	0	0	0
DOR_01-AUF-06_HW1_SEM_043	3501	2	2004	0	0	0	0	0
NGOS-DKE-20050724-1-0006	3502	1	2004	0	0	0	0	0
NGOS-TM-2040628-1-0016	3503	1	2004	1	0	0	0	1
NGOS-TM-20040613-1-0005	3504	1	2004	1	0	0	0	1
NGOS-KW-20040721-1-0012	3505	1	2004	0	1	0	0	1
NGOS-KW-20040721-1-0006	3506	2	2004	0	1	0	0	1
NMML-EAM-20040701-F8-010	3507	1	2004	0	1	0	0	1
NGOS-COM-20050717-1-1933	3508	2	2004	0	0	0	0	0
NGOS-COM-20050717-1-1937	3509	3	2004	0	1	0	0	1
DOR_26-JUL-06_HW1_HEV_068	3510	2	2004	0	0	0	0	0
20050813-EAF-0026	3511	3	2004	0	0	0	0	0
NGOS-KEL-20050822-0231	3512	1	2004	0	0	0	0	0
SWFC-RLP-20040903-R-0024	3513	2	2004	0	0	0	1	1
20050813-EAF-0015	3514	2	2004	0	0	0	0	0

29AUG2003 R7 F26	3545	2	2004	0	0	0	0	0
05OD_01-SEP-	3546	2	2004	0	0	0	0	0
05_S556_BKR1_033								
20050901-EAF-	3547	3	2004	0	0	0	0	0
0372								
20050812-EAF-	3548	3	2004	0	0	0	0	0
0019								
DOR_01-AUG-	3549	2	2004	0	0	0	0	0
06_HW1_HEV_037								
NGOS-DKE-	3550	3	2004	0	0	0	0	0
20050728-1-0006								
NGOS-DP-	3551	3	2004	0	0	1	0	1
20040803-2-0004								
NGOS-DKE-	3552	2	2004	0	0	0	0	0
20050725-1-0022								
DOR_19-AUG-	3553	3	2004	0	0	0	0	0
06_HW8_HEV_003								
DOR_19-AUG-	3554	2	2004	0	0	0	0	0
06_HW9_HEV_015								
DOR_19-AUG-	3555	2	2004	0	0	0	0	0
06_HW12_DKE_008								
DOR_12-AUG-	3556	2	2004	0	0	0	0	0
06_HW1_DKE_039								
NGOS-DKE-	3557	2	2004	0	0	0	0	0
20050725-1-0024								
DOR_26-JUL-	3558	3	2004	0	0	0	0	0
06_HW1_HEV_071								
1AUG2003 R3 F28	3559	2	2004	0	0	1	0	1
NGOS-KL-	3560	2	2004	1	0	0	0	1
20040614-1-0001								
20050816-EAF-	3561	3	2004	0	0	0	0	0
0092								
SWFC-SCR-	3562	3	2004	0	0	0	1	1
20040910-D-0159								
20050813-EAF-	3563	2	2004	0	0	0	0	0
0023								
DOR_19-AUG-	3564	2	2004	0	0	0	0	0
06_HW5_HEV_005								
NGOS_DKE-	3565	2	2004	0	0	0	0	0
20050726-1-0061								
NGOS-DKE-	3566	3	2004	0	0	0	0	0
20050728-1-0007								
DOR_26-JUL-	3567	2	2004	0	0	0	0	0
06_HW1_HEV_060								
NGOS-DKE-	3568	3	2004	0	0	0	0	0
20050724-1-0004								
NGOS_DKE-	3569	3	2004	0	0	0	0	0
20050717-1-0126								
20050901-EAF-	3570	3	2004	0	0	0	0	0
0426								
NGOS-DKE-	3571	3	2004	0	0	0	0	0
20050728-1-0147								
SWFC-RLP-	3572	3	2004	0	0	0	1	1
200409014-A-0016								
SWFC-LLZ-	3573	3	2004	0	0	0	1	1
20040901-A-0035								
NGOS-DKE-	3574	3	2004	1	0	0	0	1

NGOS-DKE- 20050717-1-0037	3605	3	2004	0	0	0	0	0
NGOS-TM- 20040628-1-0008	3606	3	2004	1	0	0	0	1
DOR_19-AUG- 06_HW10_HEV_005	3607	3	2004	0	0	0	0	0
NGOS-DKE- 20050728-1-0105	3608	2	2004	0	0	0	0	0
DOR_07-AUG- 06_HW1_HEV_014	3609	3	2004	0	0	0	0	0
NMML-KP- 20040726-17-002	3610	3	2004	0	1	0	0	1
NGOS-DE- 20040810-1-0021	3611	2	2004	0	0	1	0	1
NGOS-COM- 20050717-1-1962	3612	1	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_057	3613	2	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_027	3614	3	2004	0	0	0	0	0
NGSWFC-KEL- 20050822-1-011	3615	2	2004	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_162	3616	3	2004	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_008	3617	2	2004	0	0	0	0	0
20050901-EAF- 0448	3618	2	2004	0	0	0	0	0
20050901-EAF- 0454	3619	3	2004	0	0	0	0	0
20050816-EAF- 0127	3620	3	2004	0	0	0	0	0
SWFC-LGT- 20040903-A-0104	3621	1	2004	0	0	0	1	1
20050901-EAF-047	3623	2	2004	0	0	0	0	0
NGOS-DE- 20040810-1-0026	3624	2	2004	0	0	1	0	1
NGOS-TM- 20040829-1-0007	3625	2	2004	1	0	1	0	2
20050816-EAF- 0079	3626	2	2004	0	0	0	0	0
20050816-EAF- 0140	3627	3	2004	0	0	0	0	0
SWFC-MFR- 20040902-A-0155	3628	2	2004	0	0	0	1	1
05OD_04-SEP- 05_S559_BKR1_050	3629	3	2004	0	0	0	0	0
NMML-JD- 20040727-19-006	3630	2	2004	0	1	0	0	1
NGOS-TM- 20040613-1-0039	3631	2	2004	1	0	0	0	1
05OD_040SEP- 05_S559_BKR1_055	3632	2	2004	0	0	0	1	1
DOR_12-AUG- 06_HW1_HEV_024	3633	3	2004	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_041	3634	2	2004	0	0	0	0	0

NGOS-DKE- 20050717-1-0160	3635	2	2004	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_050	3636	2	2004	0	0	0	0	0
NMML-COM- 2005JUN25-604- 061	3638	3	2004	0	0	0	0	0
DOR_18-AUG- 06_HW5_HEV_017	3639	3	2004	0	0	0	0	0
SWFC-LLZ- 20040913-A-0078	3640	2	2004	0	0	0	1	1
SWFC-LGT- 20040903-A-0137	3641	3	2004	0	0	0	1	1
05OD_01-SEP- 05)S556_BKR1_023	3642	2	2004	1	0	0	0	1
NMML-DKE- 2005JUL08-861- 006	3643	3	2004	0	0	0	0	0
SWFC-LLZ- 20040901-A-0090	3644	3	2004	0	0	0	1	1
DOR_12-AUG- 06_HW1_HEV_063	3645	2	2004	0	0	0	0	0
NGOS-DP- 20040711-1-0002	3646	2	2004	0	1	0	0	1
SWFC-DEG- 20040808-C-0022	3647	3	2004	0	0	1	0	1
NGOS-DKE- 20050726-1-0056	3648	3	2004	0	0	0	0	0
DOR_01-AUG- 06_HW1_HEV_092	3649	2	2004	0	0	0	0	0
NMML-COM- 2005JUN25-604-80	3650	2	2004	0	0	0	0	0
SWFC-RLP- 20040914-A-0015	3651	2	2004	0	0	0	1	1
SWFC-ADL- 20040810-B-0021	3652	2	2004	0	0	1	0	1
NGOS0COM- 20050717-1-1882	3653	3	2004	0	0	0	0	0
20050816-EAF-134	3654	2	2004	0	0	0	0	0
NGOS-DE- 20040815-1-0002	3655	2	2004	0	0	1	0	1
DOR_19-AUG- 06_HW6_HEV_010	3656	2	2004	0	0	0	0	0
05OD_31-AUG- 05_S523_PJC1_072	3657	2	2004	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_022	3658	3	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1843	3659	3	2004	0	0	0	0	0
NGOS-COM- 20050717-1-1947	3660	2	2004	0	0	0	0	0
NGOS-DKE- 20050717-1-0201	3661	1	2004	0	0	0	0	0
NGOS-KEL- 20050822-1-0044	3662	2	2004	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_005	3663	2	2004	0	0	0	0	0

20050816-EAF-0154	3664	3	2004	0	0	0	0	0
NGOS-DKE-20050717-1-0199	3665	2	2004	0	1	0	0	1
05OD_04-SEP-05_S559_BKR1_012	3666	3	2004	0	0	0	0	0
NGOS-DKE-20050725-1-0009	3667	3	2004	0	0	0	0	0
SWFC-RLP-20040914-A-0027	3668	2	2004	0	0	0	1	1
DOR_19-AUG-06_HW9_HEV_020	3669	2	2004	0	0	0	0	0
NGOS-TM-20040701-1-0029	3670	2	2004	0	1	0	0	1
NGOS-DKE-20050726-1-0023	3671	3	2004	0	0	0	0	0
NGOS-TM-20040615-1-0001	3672	2	2004	1	0	0	0	1
SWFC-HOF-20040901-B-0100	3673	2	2004	0	0	0	1	1
SWFC-DEG-20040827-C-0006	3674	3	2004	0	0	1	0	1
SWFC-DEG-20040914-C-0066	3675	2	2004	0	0	0	1	1
SWFC-LLZ-20040827-A-0012	3676	3	2004	0	0	1	0	1
NGOS-DKE-20050717-1-0098	3677	3	2004	0	0	0	0	0
DOR_04-AUG-06_HW1_HEV_003	3678	2	2004	0	0	0	0	0
NGOS-TM-20040829-1-0042	3679	2	2004	1	0	1	0	2
20050814-EAF-0088	3680	2	2004	0	0	0	0	0
NGOS-DP-20040711-1-0001	3681	3	2004	0	1	0	0	1
NGOS-TM-20040828-1-0026	3682	1	2004	0	0	1	0	1
NGOS-DE-20040817-1-0009	3683	2	2004	1	0	1	0	2
20050824-EAF-0047	3684	2	2004	0	0	0	0	0
NGOS-TM-20040613-1-0038	3685	1	2004	1	0	0	0	1
NGOS-DKE-20050725-1-0081	3686	3	2004	1	0	0	0	1
NGOS-COM-20050717-1-1910	3687	3	2004	0	0	0	0	0
NGOS-DKE-20050717-1-0096	3688	3	2004	0	1	0	0	1
DOR_04-AUG-06_HW1_HEV_015	3689	3	2004	0	0	0	0	0
NMML-EW-20040816-57-004	3690	1	2004	0	0	1	0	1
NGOS-DKE-20050725-1-0068	3691	2	2004	0	0	0	0	0
NGOS-COM-	3692	2	2004	0	0	0	0	0

20050717-1-1840									
20050827-EAF-0085	3693	2	2004	0	0	0	0	0	0
20050816-EAF-0139	3694	2	2004	0	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_122	3695	3	2004	0	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_266	3696	2	2004	0	0	0	0	0	0
NGOS-COM-20050717-1-1934	3697	2	2004	0	0	0	0	0	0
NGOS-TM-20040613-1-0033	3698	1	2004	1	0	0	0	0	1
29AUG2003 R9 F21	3699	2	2004	0	0	0	0	0	0
SWFC-LGT-20040903-A-0151	3700	1	2004	0	0	0	1	1	1
20050824-EAF-0071	3701	2	2004	0	0	1	0	1	1
NGOS-DKE-20050725-1-0041	3702	2	2004	0	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_267	3703	2	2004	0	0	0	0	0	0
NGOS-DKE-20050728-1-0153	3704	2	2004	0	0	0	0	0	0
SWFC-DEG-20040904-A-0024	3705	2	2004	0	0	0	1	1	1
05OD_01-SEP-05_S556_BKR1_181	3706	3	2004	0	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_206	3707	2	2004	0	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_014	3708	1	2004	0	0	0	0	0	0
NGOS-DKE-20050725-1-0017	3709	1	2004	0	0	0	0	0	0
2001-UN-1718-10	401002	3	2004	0	0	0	0	0	0
2001-UN-1718-13	401004	1	2004	0	0	0	0	0	0
2001-UN-1718-14	401005	2	2004	0	0	0	0	0	0
2001-UN-1718-17	401006	2	2004	0	0	0	0	0	0
29AUG2003 R9 FE	401614	3	2004	0	0	0	0	0	0
2002-UN-2349-20	401104	2	2004	0	0	0	0	0	0
2002-UN-2349-28	401107	3	2004	0	0	0	0	0	0
1AUG2003 R3 F34	401531	2	2004	0	0	0	0	0	0
2002-AL-2308-3a	401201	3	2004	0	0	0	0	0	0
2002-AL-2308-13a	401203	1	2004	0	0	0	0	0	0
2002-AL-2308-19a	401205	2	2004	0	0	0	0	0	0
2002-AL-2308-24a	401207	2	2004	0	0	0	0	0	0
2002-AL-2308-26a	401209	2	2004	0	0	0	0	0	0
2002-AL-2308-29a	401210	1	2004	0	0	0	0	0	0
2002-AL-2307-15	401217	1	2004	0	0	0	0	0	0
2002-AL-2307-22	401218	2	2004	0	0	0	0	0	0
2002-AL-2307-32	401220	2	2004	0	0	0	0	0	0
2002-AL-2307-E	401221	1	2004	0	0	0	0	0	0
2002-AL-2344-12	401224	2	2004	0	0	0	0	0	0
2002-AL-2344-13	401225	2	2004	0	0	0	0	0	0
2002-AL-2344-25	401227	2	2004	0	0	0	0	0	0
2002-AL-2344-27	401228	1	2004	0	0	0	0	0	0
2002-AL-2345-19	401230	3	2004	0	0	0	0	0	0

2002-AL-2343-13	401247	3	2004	0	0	0	0	0
2002-AL-2343-18	401232	3	2004	0	0	0	0	0
2002-AL-2343-23	401233	2	2004	0	0	0	0	0
2002-AL-2343-24	401234	2	2004	0	0	0	0	0
2002-AL-2343-26	401235	2	2004	0	0	0	0	0
2002-AL-2343-32	401237	1	2004	0	0	0	0	0
2002-AL-2343-33	401238	2	2004	0	0	0	0	0
2002-AL-2343-35	401239	2	2004	0	0	0	0	0
2002-AL-2345-1	401240	1	2004	0	0	0	0	0
2002-AL-2345-8	401244	2	2004	0	0	0	0	0
2002-AL-2345-14	401246	2	2004	0	0	0	0	0
2002-AL-2345-18	401248	2	2004	0	0	0	0	0
2002-AL-2345-22	401251	2	2004	0	0	0	0	0
2002-AL-2345-E	401256	3	2004	0	0	0	0	0
2002-AL-2571-3	401258	2	2004	0	0	0	0	0
2002-QL-2571-5	401260	3	2004	0	0	0	0	0
10JUN2003 R1 F7	401404	2	2004	0	0	0	0	0
31JUL2003 R5 F19	401463	2	2004	0	0	0	0	0
10JUN2003 R1 F8	401405	3	2004	0	0	0	0	0
10JUN2003 R1 F18	401408	2	2004	0	0	0	0	0
10JUN2003 R1 F21	401409	3	2004	0	0	0	0	0
10JUN2003 R1 F22	401410	2	2004	0	0	0	0	0
15JUL2003 R4 F25	401451	1	2004	0	0	0	0	0
21JUN2003 R2 F17	401422	2	2004	0	0	0	0	0
5JUL2003 R2 F22	401425	1	2004	0	0	0	0	0
8JUL2003 R2 F29	401428	2	2004	0	0	0	0	0
8JUL2003 R2 F32	401429	2	2004	0	0	0	0	0
8JUL2003 R2 F33	401430	2	2004	0	0	0	0	0
8JUL2003 R3 F2	401431	1	2004	0	0	0	0	0
8JUL2003 R3 F25	401436	1	2004	0	0	0	0	0
12JUL2003 R3 F28	401437	1	2004	0	0	0	0	0
12JUL2003 R3 F30	401439	3	2004	0	0	0	0	0
12JUL2003 R3 F32	401441	2	2004	0	0	0	0	0
15JUL2003 R4 F5a	401444	2	2004	0	0	0	0	0
30JUL2003 R5 F4	401455	2	2004	0	0	0	0	0
31JUL2003 R5 F8	401457	2	2004	0	0	0	0	0
31JUL2003 R5 F10	401458	3	2004	0	0	0	0	0
31JUL2003 R5 F12	401460	2	2004	0	0	0	0	0
31JUL2003 R5 F14	401462	1	2004	0	0	0	0	0
31JUL2003 R5 F26	401466	3	2004	0	0	0	0	0
31JUL2003 R5 F27	401467	2	2004	0	0	0	0	0
31JUL2003 R5 FE	401471	2	2004	0	0	0	0	0
11JULY2003 R1 F10	401504	2	2004	0	0	0	0	0
11JULY2003 R1 F5	401502	2	2004	0	0	0	0	0
11JULY2003 R1 F26	401512	2	2004	0	0	0	0	0
11JULY2003 R1 F32	401514	2	2004	0	0	0	0	0
29JULY2003 R2 F13	401518	2	2004	0	0	0	0	0
29JULY2003 R2 F18	401520	2	2004	0	0	0	0	0
29JULY2003 R2 F20	401521	3	2004	0	0	0	0	0
4AUG2003 R4 F6	401534	1	2004	0	0	0	0	0
5AUG2003 R4 F22	401538	2	2004	0	0	0	0	0

28AUG2003	R5	F8	401546	2	2004	0	0	0	0	0
7AUG2003	R4	F34	401541	3	2004	0	0	0	0	0
7AUG2003	R5	F4	401544	2	2004	0	0	0	0	0
7AUG2003	R5	F5	401545	1	2004	0	0	0	0	0
28AUG2003	R5	F16	401549	3	2004	0	0	0	0	0
28AUG2003	R5	F33	401555	3	2004	0	0	0	0	0
29AUG2003	R5	F11	401559	2	2004	0	0	0	0	0
29AUG2003	R5	F9	401558	2	2004	0	0	0	0	0
29AUG2003	R6	F2	401561	2	2004	0	0	0	0	0
29AUG2006	R6	F11	401562	1	2004	0	0	0	0	0
29AUG2003	R7	F1	401566	1	2004	0	0	0	0	0
29AUG2003	R7	F32	401575	2	2004	0	0	0	0	0
29AUG2003	R8	F10	401580	1	2004	0	0	0	0	0
29AUG2003	R8	F17	401581	2	2004	0	0	0	0	0
29AUG2003	R8	F27	401585	2	2004	0	0	0	0	0
29AUG2003	R8	F33	401586	2	2004	0	0	0	0	0
29AUG2003	R8	F20	401583	1	2004	0	0	0	0	0
29AUG2003	R9	F1	401589	2	2004	0	0	0	0	0
29AUG2003	R9	F17	401596	2	2004	0	0	0	0	0
29AUG2003	R9	F18	401597	2	2004	0	0	0	0	0
29AUG2003	R9	F27	401601	3	2004	0	0	0	0	0
29AUG2003	R9	F28	401602	2	2004	0	0	0	0	0
29AUG2003	R9	F34	401603	2	2004	0	0	0	0	0
29AUG2003	R9	F35	401604	2	2004	0	0	0	0	0
29AUG2003	R9	F24	401599	2	2004	0	0	0	0	0
29AUG2003	R6	F26	401609	2	2004	0	0	0	0	0
29AUG2003	R6	F13	401610	2	2004	0	0	0	0	0
29AUG2003	R8	F16	401612	2	2004	0	0	0	0	0
29AUG2003	R7	F23	401616	2	2004	0	0	0	0	0
29AUG2003	R9	F29	401617	2	2004	0	0	0	0	0
					2005	June	July	Aug	Sept	Total Sightings
SWFC-MFR-			3000	2	2005	0	0	0	0	0
20040910-E-0016										
NGOS-DKE-			3001	3	2005	0	1	1	0	2
20050717-1-0122										
NGOS-TM-			3002	3	2005	0	1	0	0	1
20040828-1-0018										
NGOS-DKE-			3005	3	2005	0	1	0	0	1
20050725-1-0061										
NGOS-DKE-			3006	2	2005	0	1	0	0	1
20050726-1-0057										
NGOS-DKE-			3007	2	2005	0	1	0	0	1
20050725-0010										
20050814-EAF-			3008	3	2005	0	1	1	0	2
0093										
NGOS-DKE-			3009	2	2005	0	1	0	0	1
20050726-1-0030										
NGOS-DKE-			3010	2	2005	0	1	0	0	1
20050728-1-0142										
NGOS-DKE-			3011	3	2005	0	1	0	0	1
20050728-1-0065										
NGOS-KEL-			3012	2	2005	0	0	1	0	1
20050822-1-0119										
NGOS-DKE-			3013	2	2005	0	1	0	0	1
20050728-1-0016										
NGOS-			3014	2	2005	0	0	1	0	1

KEL20050822-1-0229									
NGOS-TM20040624-1-0007	3015	3	2005	0	0	0	0	0	0
NGOS-KEL20040626-1-0027	3016	1	2005	0	0	0	0	0	0
NGOS-KEL20040626-1-0028	3017	2	2005	0	0	0	0	0	0
NGOS-TM20040830-1-0008	3018	2	2005	0	0	0	0	0	0
SWFC-RLP-20040914-A-0051	3019	2	2005	0	0	0	0	0	0
SWFC-RLP-20040910-R-0020	3020	1	2005	0	0	0	0	0	0
20050821-EAF-0255	3021	2	2005	0	0	1	0	0	1
05OD_01_SEP-05_S556_BKR1_111	3022	2	2005	0	0	1	1	1	2
NGOS-KEL20050822-1-0175	3023	2	2005	0	0	1	1	1	2
20050821-EAF-0252	3024	1	2005	0	0	1	0	0	1
NGOS-DKE-20040617-1-0034	3025	2	2005	0	0	1	0	0	1
05OD_07-SEP-05_S617_BKR1_153	3026	1	2005	0	0	1	1	1	2
31JUL2003 R5 F23	3027	2	2005	0	0	1	1	1	2
05OD_01_SEP-05_S556_BKR1_077	3028	3	2005	0	0	1	1	1	2
05OD_01_SEP-05_S556_PJC1_209	3029	3	2005	0	0	0	1	1	1
05OD_01_SEP-05_S556_BKR1_339	3030	3	2005	0	0	1	1	1	2
15JUL2003 R4 F4a	3031	3	2005	0	0	0	1	1	1
SWFC-LLZ-20040827-A-0028	3032	3	2005	0	0	0	0	0	0
SWFC-HOF-20040901-B-0055	3033	3	2005	0	0	0	0	0	0
DOR_-1-AUG-06_HW1_SEM_018	3034	2	2005	0	0	0	0	0	0
DOR_040AUG-06_HW1_HEV_035	3035	3	2005	0	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_059	3036	3	2005	0	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_049	3037	1	2005	0	0	0	0	0	0
DOR_07-AUG-06_HW1_HEV_011	3038	2	2005	0	0	0	0	0	0
DOR_15-AUG-06_HW1_070	3039	2	2005	0	0	0	0	0	0
NMML-LJM-20040616-F2-013	3040	2	2005	0	0	1	1	1	2
SWFC-LGT-20040910-A-0065	3041	2	2005	0	0	1	0	0	1

DOR_15-AUG- 06_HW1_HEV_107	3042	3	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1904	3043	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0153	3044	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0192	3045	2	2005	0	1	1	0	2
DOR_19-AUG- 06_HW9_HEV_034	3046	2	2005	0	0	0	0	0
NMML-EAM- 20040701-F7-019	3047	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0055	3048	2	2005	0	1	0	0	1
NM-JD-20040722- 06-014	3049	3	2005	0	0	0	0	0
SWFC-DEG- 20040910-D-0112	3050	3	2005	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_034	3622	2	2005	0	1	0	0	1
NGOS-DE- 20040810-1-0007	3052	2	2005	0	0	0	0	0
NGOS-DKE- 20050717-1-0198	3053	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0029	3054	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0143	3055	3	2005	0	1	0	0	1
NGOS-KEL- 20050822-1-0069	3056	2	2005	0	0	1	0	1
NGOS-DP- 20040711-1-0005	3057	2	2005	0	0	0	1	1
20050813-EAF- 0081	3058	2	2005	0	0	1	0	1
05OD_07-SEP- 05)S617_PJC_108	3059	2	2005	0	0	1	1	2
SWFC-AJC- 20240903-C-0009	3060	2	2005	0	0	0	0	0
20050814-EAF- 0101	3061	2	2005	0	0	1	0	1
NGOS-DE- 20040817-1-0023	3062	3	2005	0	0	0	0	0
20050812-EAF- 0122	3063	3	2005	0	0	1	1	2
NGOS-TM- 20040829-1-0010	3064	3	2005	0	0	1	1	2
05OD_01-SEP- 05_S556_PJC1_364	3066	1	2005	0	0	0	1	1
05OF_01-SEP- 05_S556_PJC1_355	3067	2	2005	0	0	0	1	1
05OD_04-SEP- 05_S556_BKR2_003	3068	2	2005	0	0	0	1	1
DOR_19-AUG- 06_HW8_HEV_002	3069	3	2005	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_16	3070	2	2005	0	0	0	1	1
NGOS-DKE-	3071	2	2005	0	1	1	0	2

20050901-EAF-0410	3129	2	2005	0	0	0	1	1
NGOS-DKE-20050728-1-0087	3130	3	2005	0	1	1	1	3
20050814-EAF-0143	3131	2	2005	0	1	1	0	2
20050824-EAF-0062	3132	3	2005	0	0	1	1	2
NGOS-KL-2004062601-0011	3133	2	2005	0	0	1	0	1
20050827-EAF-0017	3134	2	2005	0	0	1	0	1
NGOS-KW-20040721-1-0005	3135	3	2005	0	0	1	0	1
20050824-EAF-0059	3136	3	2005	0	0	1	0	1
20050816-EAF-0102	3137	3	2005	0	0	1	1	2
20050821-EAF-0286	3138	2	2005	0	0	1	0	1
20050821-EAF-0247	3139	2	2005	0	0	1	0	1
05OD_31-AUG-05_S532_PJC1_025	3140	2	2005	0	0	1	0	1
NGOS-DKE-20050717-1-0077	3141	3	2005	0	1	1	1	3
20050824-EAF-0044	3142	3	2005	0	0	1	0	1
20050824-EAF-0090	3143	2	2005	0	0	1	0	1
20050814-EAF-0127	3144	3	2005	0	0	1	0	1
NMML-LJM-20040701-F6-030	3145	3	2005	0	0	0	0	0
20050901-EAF-0354	3146	2	2005	0	0	0	1	1
SWFC-DEG-20040910-D-0051	3147	2	2005	0	0	0	0	0
SWFC-HOF-20040901-B-0021	3148	2	2005	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_269	3149	3	2005	0	0	1	1	2
NGOS-DKE-20050717-1-0190	3150	3	2005	0	1	0	0	1
DOR_12-AUG-06_HW1_HEV_053	3151	3	2005	0	0	0	0	0
DOR_15-AUG-06_HW1_DKE_009	3152	1	2005	0	0	0	0	0
DOR_15-AUG-06_HW1_HEV_036	3153	2	2005	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_051	3154	3	2005	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_070	3155	2	2005	0	0	0	0	0
DOR_05-AUG-06_HW1_HEV_021	3156	3	2005	0	0	0	0	0
DOR_01-AUG-	3157	2	2005	0	0	0	0	0

NGOS-DKE- 20050728-1-0156	3186	2	2005	0	1	0	0	1
NGOS-DE- 20040817-1-0029	3187	2	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_003	3188	2	2005	0	0	0	0	0
DOR_19-AUG- 06_HW11_HEV_006	3189	2	2005	0	0	0	0	0
NGOS-DE- 20040817-1-0001	3190	2	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0032	3191	2	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0066	3192	2	2005	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_032	3193	2	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1854	3194	3	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0062	3195	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0197	3196	2	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0074	3197	2	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0021	3198	2	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0012	3199	2	2005	0	1	0	0	1
NGOS-DKE- 20050718-1-0033	3200	2	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0100	3201	3	2005	0	1	0	0	1
NGOS-DP- 20050710-1-0030	3202	3	2005	0	1	0	0	1
NGOS-DKE- 20050717-1-0185	3203	3	2005	0	1	0	0	1
NGOS-DKE- 20050725-1-0062	3204	2	2005	0	1	0	0	1
NGOS-DKE- 20050724-1-0001	3205	2	2005	0	1	0	0	1
NGOS-DKE- 20050726-1-0007	3206	3	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0069	3207	3	2005	0	1	0	0	1
NGOS-DKE- 20050726-1-0039	3208	3	2005	0	1	0	0	1
NGOS-DKE- 20050727-1-10050	3209	2	2005	0	1	0	0	1
NGOS-DKE- 20050726-1-0055	3210	2	2005	0	1	0	0	1
NGOS-KL- 20040626-1-0010	3211	2	2005	0	0	0	0	0
20050812-EAF- 0054	3212	2	2005	0	0	1	0	1
NGOS-KL- 20040617-1-0009	3213	1	2005	0	0	0	0	0
DOR_19-AUG-	3214	2	2005	0	0	0	0	0

06_HW9_HEV_035									
NGOS-DKE- 20050728-1-0131	3215	2	2005	0	1	0	0	1	
NMML-DKE- 2005JUL09-894- 013	3216	3	2005	0	1	0	0	1	
SWFC-ADL- 20040810-B-0012	3217	3	2005	0	0	0	0	0	
SWFC-DEG- 20040910-D-0131	3218	2	2005	0	0	0	0	0	
NGOS-TM- 20040624-1-0047	3219	2	2005	0	0	0	0	0	
NGOS-TM- 20040701-1-0009	3220	2	2005	0	0	0	0	0	
NGOS-TM- 20040901-1-0078	3222	2	2005	0	0	0	0	0	
NGOS-TM- 20050613-1-0003	3223	3	2005	0	0	0	0	0	
05OD_01-SEP- 05_S556_PJC1_360	3224	3	2005	0	0	0	1	1	
SWFC-DEG- 20040904-A-0036	3225	3	2005	0	0	0	0	0	
SWFC-DEG- 20040904-A-0031	3226	2	2005	0	0	0	0	0	
NMML-KP- 20040726-17-016	3227	2	2005	0	0	0	0	0	
NMML-JD- 20040723-12-006	3228	3	2005	0	0	0	0	0	
NMML-KP- 20040721-02-045	3229	2	2005	0	0	0	0	0	
SWFC-AJC- 20040914-D-0047	3230	2	2005	0	0	0	0	0	
SWFC-LGT- 20040903-A-0079	3231	2	2005	0	0	0	0	0	
NMML-HOF- 2005JUN25-604- 019	3232	3	2005	1	0	0	0	1	
SWFC-LLZ- 20040901-A-0041	3233	3	2005	0	0	0	0	0	
SWFC-JPB- 20040810-D-0016	3234	3	2005	0	0	0	0	0	
SWFC-RLP- 20040901-R-0003	3235	2	2005	0	0	0	0	0	
SWFC-RLP- 20040914-A-0030	3236	2	2005	0	0	0	0	0	
SWFC-RLP- 20040902-R-0040	3237	2	2005	0	0	0	0	0	
SWFC-RLP- 20040914-A-0025	3238	2	2005	0	0	0	0	0	
SWFC-HOF- 20040901-B-0025	3239	3	2005	0	0	0	0	0	
SWFC-HOF- 20040901-B-0104	3240	3	2005	0	0	0	0	0	
SWFC-HOF- 20040901-B-106	3241	2	2005	0	0	0	0	0	
05OD_04-SEP- 05_S559_BKR1_059	3242	2	2005	0	0	0	1	1	

NGOS-DKE- 20050728-1-0028	3272	3	2005	0	1	0	0	1
NGOS-KL- 20040617-1-0008	3273	3	2005	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_054	3274	2	2005	0	0	0	0	0
NGOS-TM- 20040901-1-0103	3275	3	2005	0	0	0	0	0
SWFC-MFR- 20040902-A-0108	3276	2	2005	0	0	0	0	0
NGOS-DKE- 20050725-1-0083	3277	3	2005	0	1	0	0	1
NGOS-DKE- 20050715-1-0035	3278	3	2005	0	1	0	0	1
NGOS-TM- 20040904-1-0024	3279	3	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1939	3280	3	2005	0	1	0	0	1
SWFC-MFR- 20050914-E-0051	3281	2	2005	0	0	0	0	0
NGOS-KEL- 20050822-1-0126	3282	2	2005	0	0	1	0	1
NMML-DKE- 2005JUL08-861- 005	3283	3	2005	0	1	0	0	1
20050814-EAF- 0134	3284	2	2005	0	0	1	0	1
NGOS-DP- 20040712-1-0012	3285	2	2005	0	0	0	0	0
15JUL2003 R4 F15a	3286	3	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0146	3287	2	2005	0	1	0	0	1
NGOS-TM- 20040630-1-0014	3288	2	2005	0	0	0	0	0
NGOS-DE- 20040809-1-0014	3289	2	2005	0	0	0	0	0
GNOSWFC-DKE- 2005072801-011	3290	2	2005	0	1	0	0	1
DOR_15-AUG- 06_HW2_HEV_097	3291	2	2005	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_024	3292	3	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1863	3293	2	2005	0	1	0	0	1
DOR_19-AUG- 06_HW9_HEV_022	3294	3	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_017	3295	3	2005	0	0	0	0	0
NGOS-DKE- 20050726-1-0035	3296	1	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0082	3297	2	2005	0	1	0	0	1
05OD_04-SEP- 05_S559_BKR1_009	3298	3	2005	0	0	1	1	2
NGOS-DKE- 20050717-1-0093	3299	2	2005	0	1	0	0	1

SWFC-LGT- 20040910-A-0057	3300	2	2005	0	0	0	0	0
29AUG2003 R8 F19	3301	3	2005	0	0	1	0	1
05OD_07-SEP- 05_S617_BKR1_241	3302	2	2005	0	0	0	1	1
20050820-EAF- 0033	3303	2	2005	0	0	1	0	1
20050901-EAF- 0379	3304	2	2005	0	0	0	1	1
DOR_26-JUL- 06_HW1_HEV_055	3305	2	2005	0	0	0	0	0
SWFC-JRB- 20040909-B-0054	3306	1	2005	0	0	0	0	0
DOR_02-AUG- 06_HW1_HEV_003	3307	2	2005	0	0	0	0	0
NGOS-DE- 20040815-1-0008	3308	2	2005	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_042	3309	2	2005	0	0	0	1	1
NGOS-COM- 20050718-1-1978	3310	2	2005	0	1	0	0	1
DOR_04-AUG- 06_HW1_HEV_047	3311	2	2005	0	0	0	0	0
04OC_01-SEP- 05_S556_PJC1_087	3312	2	2005	0	0	0	1	1
05OD_31-AUG- 05_S532_PJC1_066	3313	2	2005	0	0	1	0	1
SWFC-JRB- 20040901-D-0028	3314	2	2005	0	0	0	0	0
SWFC-ADL- 20040810-B-0001	3315	2	2005	0	0	0	0	0
SWFC-CSO- 20040827-B-0009	3316	2	2005	0	0	0	0	0
20050813-EAF- 0025	3317	3	2005	0	0	1	0	1
SWFC-DEG- 20040914-C-0064	3318	2	2005	0	0	0	0	0
DOR_02-AUG- 06_HW1_HEV_008	3319	3	2005	1	0	0	0	1
NMML-KP- 20040722-09-005	3320	3	2005	0	0	0	0	0
NGOS-DKE- 20050728-1-0047	3321	3	2005	0	1	0	0	1
20050818-EAF- 0006	3322	2	2005	0	0	1	0	1
20050824-EAF- 0013	3323	3	2005	0	0	1	0	1
NGOS-DKE- 20050728-1-0109	3324	2	2005	0	1	0	0	1
05OD_01-SEP- 05_S556_BKR1_136	3325	2	2005	0	0	0	1	1
DOR_06-AUG- 06_HW2_HEV_012	3326	2	2005	0	0	1	0	1
SWFC-AJC- 20040914-D-0043	3327	2	2005	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_029	3328	2	2005	0	0	0	0	0

NGOS-DKE- 20050726-1-0021	3329	3	2005	0	1	0	0	1
NGOS-TM- 20040828-1-0045	3330	2	2005	0	0	0	0	0
DOR_28-JUL- 06_HW1_HEV_002	3331	2	2005	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_022	3332	1	2005	0	0	0	1	1
SWFC-JRB- 20040903-C-0056	3333	2	2005	0	0	0	0	0
SWFC-LLZ- 20040901-A-0070	3334	1	2005	0	0	0	0	0
NGOS-DP- 20040712-1-0023	3335	2	2005	0	0	0	0	0
NGOS-DP- 20040710-1-0020	3336	1	2005	0	0	0	0	0
SWFC-MFR- 20040902-A-0107	3337	2	2005	0	0	0	0	0
DOR_120AUG- 06_HW1_HEV_039	3338	1	2005	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_072	3339	2	2005	0	0	1	0	1
DOR_26-JUL- 06_HW1_HEV_089	3340	2	2005	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_039	3341	2	2005	0	0	0	0	0
NGOS-DKE- 20050717-1-0085	3342	3	2005	0	1	0	0	1
20050901-EAF- 0449	3343	2	2005	0	0	0	1	1
DOR_01-AUG- 06_HW1_SEM_005	3344	1	2005	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_032	3345	3	2005	0	0	0	0	0
DOR_18-AUG- 06_HW5_HEV_029	3346	3	2005	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_001	3347	2	2005	0	0	1	0	1
NGOS-COM- 20050717-1-1885	3348	1	2005	0	1	0	0	1
NGOS-COM- 20050717-1-1874	3349	1	2005	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_031	3350	2	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_008	3351	1	2005	0	0	0	0	0
DOR_28-JUL- 06_HW1_HEV_006	3352	1	2005	0	0	0	0	0
DOR_19-AUG- 06_HW10_HEV_007	3353	2	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1884	3354	1	2005	0	1	0	0	1
NGOS-COM- 20050718-1-1964	3355	2	2005	0	1	0	0	1
NGOS-DKE-2005- 071701-0142	3356	2	2005	0	1	0	0	1
SWFC-LGT-	3357	2	2005	0	0	0	0	0

20040903-A-0038									
20050901-EAF-0303	3358	2	2005	0	0	0	1	1	
NGOS-DKE-20050728-1-0037	3359	3	2005	0	1	0	0	1	
20050827-EAF-0063	3360	2	2005	0	0	1	0	1	
SWFC-LLZ-20040901-A-0085	3361	2	2005	0	0	0	0	0	
NGOS-DKE-20050717-1-0148	3362	1	2005	0	1	0	0	1	
NGOS-DE-20040816-1-0006	3363	2	2005	0	0	0	0	0	
NGOS-DKE-20050717-1-0207	3364	2	2005	0	1	0	0	1	
NGPSWFC-DKE-20050715-1-0036	3365	1	2005	0	1	0	0	1	
NGOS-DKE-20050717-1-0187	3366	1	2005	0	1	0	0	1	
NGOS-DE-20040810-1-0028	3367	2	2005	0	0	0	0	0	
NGOS-DE-20040810-1-0005	3368	3	2005	0	0	0	0	0	
20050831-EAF-0100	3369	3	2005	0	1	1	1	3	
NGOS-DKE-20050728-1-0086	3370	3	2005	0	1	0	0	1	
NGOS-DKE-20050728-1-0093	3372	1	2005	0	1	0	0	1	
NGOS-DP-20040803-2-0011	3373	3	2005	0	0	0	0	0	
NGOS-DKE-20050728-1-0149	3374	1	2005	0	1	0	0	1	
NMML-DKE-2005JUL09-893-005	3375	3	2005	0	1	1	0	2	
20050901-EAF-0370	3376	2	2005	0	0	1	1	2	
NGOS-DKE-20050728-1-0137	3377	2	2005	0	1	0	0	1	
NGOS-KL-20040725-1-0025	3378	2	2005	0	0	0	0	0	
NGOS-KEL-20040822-1-0264	3379	3	2005	0	0	1	0	1	
NGOS-TM-20040624-1-0004	3380	3	2005	0	0	1	0	1	
NGOS-DKE-20050728-1-0097	3381	2	2005	0	1	0	0	1	
NGOS-TM-20040828-1-0085	3383	2	2005	0	0	0	0	0	
NGOS-TM-20040624-1-0037	3384	2	2005	0	0	0	0	0	
NGOS-TM-20040828-1-0007	3385	1	2005	0	0	0	0	0	
DOR_19-AUG-06_HW6_HEV_009	3386	2	2005	0	0	0	0	0	
NGOS-TM-	3387	1	2005	0	0	0	0	0	

20040901-1-0029									
SWFC-MHD-	3388	3	2005	0	0	0	0	0	0
20040903-B-0116									
DOR_15-AUG-	3389	1	2005	0	0	0	0	0	0
06_HW1_HEV_014									
DOR_06-AUG-	3390	1	2005	0	0	0	0	0	0
06_HW2_HEV_010									
DOR_15-AUG-	3391	2	2005	0	0	0	0	0	0
06_HW1_HEV_004									
SWFC-AJC-	3392	2	2005	0	0	0	0	0	0
20040914-D-0045									
20050901-EAF-	3393	3	2005	0	0	0	0	1	1
0417									
20050827-EAF-	3394	3	2005	0	0	1	0	0	1
0144									
20050816-EAF-	3395	3	2005	0	1	1	0	0	2
0063									
NGOS-DKE-	3396	1	2005	0	1	0	0	0	1
20050728-1-0025									
05OD_07-SEP-	3397	2	2005	0	0	1	1	1	2
05_S617_PJC1_148									
20050816-EAF-	3398	3	2005	0	0	1	0	0	1
0027									
20050821-EAF-	3399	2	2005	0	0	1	0	0	1
0300									
05OD_07-SEP-	3400	2	2005	0	0	1	1	1	2
05_S617_PJC1_069									
DOR_26-JUL-	3401	2	2005	0	0	0	0	0	0
06_HW1_HEV_063									
NMML-COM-	3402	3	2005	1	0	0	0	0	1
2004JUN25-604-									
008									
04OD_01-SEP-	3403	3	2005	0	0	0	0	1	1
05_S556_PJC1_331									
DOR_15-AUG-	3404	2	2005	0	0	0	0	0	0
06_HW1_HEV_086									
11JULY2003_R1	3405	3	2005	0	0	0	0	0	0
F24									
NGOS-COM-	3407	2	2005	0	1	0	0	0	1
20050717-1-1898									
DOR_12-AUG-	3408	3	2005	0	0	0	0	0	0
06_HW1_DKE_009									
DOR_15-AUG-	3409	1	2005	0	0	0	0	0	0
06_HW1_DKE_071									
DOR_12-AUG-	3410	2	2005	1	0	0	0	0	1
06_HW1_DKE_033									
NGOS-COM-	3411	2	2005	0	1	0	0	0	1
20050717-1-1839									
20050901-EAF-	3412	1	2005	0	0	0	0	1	1
0404									
20050816-EAF-	3413	2	2005	0	0	1	0	0	1
0076									
20050827-EAF-	3414	3	2005	0	0	1	0	0	1
0162									
20050901-EAF-	3415	2	2005	0	0	0	0	1	1
0459									
20050821-EAF-	3416	3	2005	0	0	1	0	0	1

0238									
20050821-EAF-	3417	2	2005	0	0	1	0	1	
0284									
05OD_01-SEP-	3418	2	2005	0	0	0	1	1	
05_S556_PJC1_233									
05OD_06-SEP-	3419	2	2005	0	0	0	1	1	
05_S616_MDN1_002									
28AUG2003 R5 F11	3420	1	2005	0	0	0	1	1	
05OD_07-SEP-	3421	2	2005	0	0	0	1	1	
05_S617_BKR1_151									
05OD_07-SEP-	3422	2	2005	0	0	0	1	1	
05_S617_BRK1_277									
05OS_01-SEP-05-	3423	2	2005	0	0	0	1	1	
S556_BKR1_247									
SWFC-CSO-	3424	3	2005	0	0	0	0	0	
20040827-B-0010									
05OD_01-SEP-	3425	2	2005	0	0	0	1	1	
05_S556_BKR1_109									
NMML-EAM-	3426	2	2005	0	0	0	0	0	
20040701-F7-036									
SWFC-CSO-	3427	2	2005	0	0	0	0	0	
20040913-D-0113									
05OD_07-SEP-	3428	2	2005	0	0	0	1	1	
05_S617_BKR1_221									
DOR_19-AUG-	3429	3	2005	0	1	0	0	1	
06_HW6_HEV_011									
NGOS-KL-	3430	3	2005	0	0	0	0	0	
20040617-1-0037									
SWFC-LGT-	3431	2	2005	0	0	0	0	0	
20040910-A-0049									
NGOS-DP-	3432	2	2005	0	0	0	0	0	
20040712-2-0004									
NGOS-DKE-	3433	3	2005	0	1	1	0	2	
20050725-1-0042									
NGOS-DKE-2005-	3434	3	2005	0	1	0	0	1	
728-1-0099									
NGOS-DKE-	3435	2	2005	0	1	0	0	1	
20050728-1-0005									
NGOS-DKE-	3437	1	2005	0	1	0	0	1	
20050726-1-0002									
NGOS-DKE-	3438	2	2005	0	1	0	0	1	
20050728-1-0045									
NGOS-DKE-	3439	2	2005	0	1	0	0	1	
20050728-1-0046									
NGOS-DKE-	3440	2	2005	0	1	0	0	1	
20050728-1-0103									
NGOS-DKE-	3441	2	2005	0	1	0	0	1	
20050728-1-0120									
NGOS-DKE-	3442	2	2005	0	1	0	0	1	
20050728-1-0010									
05OD_06-SEP-	3443	2	2005	0	0	0	1	1	
05_S616_MDN1_022									
05OD-31-AUG-	3444	2	2005	0	0	1	0	1	
05_S523_PJC1_084									
SWFC-LLZ-	3445	3	2005	0	0	0	0	0	
20040913-A-0130									
SWFC-LGT-	3446	2	2005	0	0	0	0	0	

DOR_12-AUG- 06_HW1_HEV_055	3475	1	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_060	3476	1	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_053	3477	1	2005	0	0	0	0	0
NGOS-KL- 20040626-1-0029	3478	1	2005	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_012	3479	1	2005	0	0	0	0	0
NGOS-TM- 20040615-1-0003	3480	2	2005	0	0	0	0	0
NGOS-KL- 20040626-1-0015	3482	1	2005	0	0	0	0	0
NGOS-TM- 20040828-1-0034	3483	2	2005	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_029	3484	1	2005	0	0	0	0	0
NGOS-TM- 20040901-1-0110	3485	1	2005	0	0	0	0	0
20050821-EAF- 0287	3486	1	2005	0	1	1	0	2
05OD_31-AUG- 05_S523_PJC1_039	3487	2	2005	0	0	1	0	1
NGOS-KL- 20040617-1-0036	3488	1	2005	0	0	0	0	0
NGOS-20040829-1- 0004	3489	2	2005	0	0	0	0	0
NGOS-DKE- 20050717-1-0195	3490	1	2005	0	1	0	0	1
NGOS-DE- 20040810-1-0018	3491	2	2005	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_123	3492	2	2005	0	0	0	1	1
NGOS-DE- 20040817-1-0031	3493	1	2005	0	0	0	0	0
NGOS-KEL- 20050822-1-0219	3494	1	2005	0	0	1	0	1
NGOS-D-20040803- 2-0014	3495	1	2005	0	0	0	0	0
NGOS-JA- 20040803-1-0002	3496	1	2005	0	0	0	0	0
29AUG2003 R8 F35	3497	2	2005	0	1	0	0	1
NGOS-DKE- 20050728-1-0155	3498	1	2005	0	1	0	0	1
05OD_07-SEP- 05_S617_BKR1_045	3499	1	2005	0	0	0	1	1
05OD_01-SEP- 05_S556_PJC1_274	3500	1	2005	0	0	0	1	1
DOR_01-AUF- 06_HW1_SEM_043	3501	2	2005	0	0	0	0	0
NGOS-DKE- 20050724-1-0006	3502	1	2005	0	1	0	1	2
NGOS-TM-2040628- 1-0016	3503	1	2005	0	0	0	0	0
NGOS-TM- 20040613-1-0005	3504	1	2005	0	0	0	0	0

NGOS-KW- 20040721-1-0012	3505	1	2005	0	0	0	0	0
NGOS-KW- 20040721-1-0006	3506	2	2005	0	0	0	1	1
NMML-EAM- 20040701-F8-010	3507	1	2005	0	0	0	0	0
NGOS-COM- 20050717-1-1933	3508	2	2005	0	1	0	0	1
NGOS-COM- 20050717-1-1937	3509	3	2005	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_068	3510	2	2005	0	0	0	0	0
20050813-EAF- 0026	3511	3	2005	0	0	1	0	1
NGOS-KEL- 20050822-0231	3512	1	2005	0	0	1	0	1
SWFC-RLP- 20040903-R-0024	3513	2	2005	0	0	0	0	0
20050813-EAF- 0015	3514	2	2005	0	0	1	0	1
20050813-EAF- 0048	3515	1	2005	0	0	1	0	1
SWFC-SEH- 20040811-B-0012	3516	1	2005	0	0	0	0	0
SWFC-MFR- 20040902-A-0149	3517	1	2005	0	0	0	0	0
NGOS-KL- 20040725-1-0033	3518	2	2005	0	0	0	0	0
SWFC-HOF- 20040901-B-0071	3519	1	2005	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_202	3520	1	2005	0	0	0	1	1
29AUG2003 R7 F17	3521	3	2005	0	0	0	0	0
SWFC-LLZ- 20040903-C-0028	3522	2	2005	0	0	0	0	0
SWFC-RLP- 20040910-R-0044	3523	1	2005	0	0	0	0	0
29AUG2003 R5 F27	3524	1	2005	0	0	0	1	1
05OD_01-SEP- 05_S556_BKR1-112	3525	2	2005	0	0	0	1	1
05OD-07-SEP- 05_S617_BKR1_044	3526	2	2005	0	1	0	0	1
20050812-EAF- 0022	3527	1	2005	0	0	1	1	2
29AUG2003 R7 F26	3528	2	2005	0	0	0	1	1
20050831-EAF- 0110	3529	1	2005	0	0	1	0	1
20050831-EAF- 0036	3530	2	2005	0	0	1	0	1
20050901-EAF- 0445	3531	3	2005	0	0	0	1	1
20050814-EAF- 0064	3532	2	2005	0	0	1	0	1
NGOS-TM- 20040829-1-0026	3533	3	2005	0	0	1	1	2
04OD_06-SEP- 05_S616_MDN1_004	3534	2	2005	0	0	0	1	1

SWFC-CSO- 20040915-F-0090	3535	3	2005	0	0	0	0	0
SWFC-MHD- 20040903-B-0168	3536	3	2005	0	0	0	0	0
05OD_31-AUG- 05_S523_PJC1_037	3537	2	2005	0	0	1	0	1
05OD_07-SEP- 05_S617_PJC1_093	3538	3	2005	0	0	0	1	1
20050831-EAF- 0034	3539	3	2005	0	0	1	1	2
05OD_07-SEP- 05_S617_BKR_257	3540	3	2005	0	0	0	1	1
05OD_01-SEP- 05_S556_PJC1_315	3541	3	2005	0	0	0	1	1
20050812-EAF- 0026	3542	2	2005	0	0	1	0	1
20050901-EAF- 0338	3543	3	2005	0	0	1	1	2
05OD_01-SEP- 05_S556_BKR1_018	3544	3	2005	0	0	0	1	1
29AUG2003 R7 F26	3545	2	2005	0	0	1	0	1
05OD_01-SEP- 05_S556_BKR1_033	3546	2	2005	0	0	0	1	1
20050901-EAF- 0372	3547	3	2005	0	0	0	1	1
20050812-EAF- 0019	3548	3	2005	0	0	1	0	1
DOR_01-AUG- 06_HW1_HEV_037	3549	2	2005	0	0	0	0	0
NGOS-DKE- 20050728-1-0006	3550	3	2005	0	1	0	0	1
NGOS-DP- 20040803-2-0004	3551	3	2005	0	0	0	0	0
NGOS-DKE- 20050725-1-0022	3552	2	2005	0	1	0	0	1
DOR_19-AUG- 06_HW8_HEV_003	3553	3	2005	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_015	3554	2	2005	0	0	0	0	0
DOR_19-AUG- 06_HW12_DKE_008	3555	2	2005	0	0	0	0	0
DOR_12-AUG- 06_HW1_DKE_039	3556	2	2005	0	0	0	0	0
NGOS-DKE- 20050725-1-0024	3557	2	2005	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_071	3558	3	2005	0	1	0	0	1
1AUG2003 R3 F28	3559	2	2005	0	0	0	0	0
NGOS-KL- 20040614-1-0001	3560	2	2005	0	0	0	0	0
20050816-EAF- 0092	3561	3	2005	0	0	1	0	1
SWFC-SCR- 20040910-D-0159	3562	3	2005	0	0	0	0	0
20050813-EAF- 0023	3563	2	2005	0	0	1	0	1
DOR_19-AUG-	3564	2	2005	0	0	0	0	0

06_HW5_HEV_005									
NGOS_DKE-	3565	2	2005	0	1	0	0	1	
20050726-1-0061									
NGOS-DKE-	3566	3	2005	0	1	0	0	1	
20050728-1-0007									
DOR_26-JUL-	3567	2	2005	0	0	0	0	0	
06_HW1_HEV_060									
NGOS-DKE-	3568	3	2005	0	1	1	0	2	
20050724-1-0004									
NGOS_DKE-	3569	3	2005	0	1	0	0	1	
20050717-1-0126									
20050901-EAF-	3570	3	2005	0	0	0	1	1	
0426									
NGOS-DKE-	3571	3	2005	0	1	1	1	3	
20050728-1-0147									
SWFC-RLP-	3572	3	2005	0	0	0	0	0	
200409014-A-0016									
SWFC-LLZ-	3573	3	2005	0	0	0	0	0	
20040901-A-0035									
NGOS-DKE-	3574	3	2005	0	1	0	1	2	
20050728-1-0151									
DOR_01-AUG-	3575	3	2005	0	0	0	0	0	
06_HW1_HEV_076									
NMML-HOF-	3576	2	2005	1	0	0	0	1	
2005JUN25-604-01									
DOR_19-AUG-	3577	2	2005	0	0	0	0	0	
06_HW6_HEV_005									
DOR_12-AUG-	3578	2	2005	0	0	0	0	0	
06_HW1_HEV_019									
SWFC-LGT-	3579	3	2005	0	0	0	0	0	
20040903-A-0051									
SWFC-MFR-	3580	2	2005	0	0	0	0	0	
20040910-E-0017									
DOR_07-AUG-	3581	2	2005	0	0	0	0	0	
06_HW1_HEV_010									
01AUG2003 R2 F35	3582	2	2005	0	0	1	0	1	
05OD_01-SEP-	3583	3	2005	0	0	0	1	1	
05_S556_BKR1_093									
05OD_01-SEP-	3584	3	2005	0	0	0	1	1	
05_S556_BKR1_071									
SWFC-LLZ-	3585	3	2005	0	0	0	0	0	
20040914-C-0052									
NGOS-COM-	3587	3	2005	0	1	1	0	2	
20050717-1-1850									
NGOS-DKE-	3588	3	2005	0	1	0	0	1	
20050728-1-0150									
DOR_15-AUG-	3589	3	2005	0	0	0	0	0	
06_HW1_HEV_103									
DOR_06-AUG-	3590	2	2005	0	0	0	0	0	
06_HW2_HEV_011									
20050824-EAF-	3591	3	2005	0	0	1	0	1	
0070									
NGOS-DKE-	3592	3	2005	0	1	0	0	1	
20050717-1-0059									
20050901-EAF-	3593	2	2005	0	0	0	1	1	
0455									
NMML-JD-	3594	2	2005	0	0	0	0	0	

NGOS-TM- 20040829-1-0007	3625	2	2005	0	0	0	0	0
20050816-EAF- 0079	3626	2	2005	0	0	1	1	2
20050816-EAF- 0140	3627	3	2005	0	0	1	0	1
SWFC-MFR- 20040902-A-0155	3628	2	2005	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_050	3629	3	2005	0	0	0	1	1
NMML-JD- 20040727-19-006	3630	2	2005	0	0	1	0	1
NGOS-TM- 20040613-1-0039	3631	2	2005	0	0	0	0	0
05OD_040SEP- 05_S559_BKR1_055	3632	2	2005	0	0	0	1	1
DOR_12-AUG- 06_HW1_HEV_024	3633	3	2005	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_041	3634	2	2005	0	0	0	0	0
NGOS-DKE- 20050717-1-0160	3635	2	2005	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_050	3636	2	2005	0	0	0	1	1
NMML-COM- 2005JUN25-604- 061	3638	3	2005	1	0	0	0	1
DOR_18-AUG- 06_HW5_HEV_017	3639	3	2005	0	0	0	0	0
SWFC-LLZ- 20040913-A-0078	3640	2	2005	0	0	0	0	0
SWFC-LGT- 20040903-A-0137	3641	3	2005	0	0	0	0	0
05OD_01-SEP- 05)S556_BKR1_023	3642	2	2005	0	0	0	1	1
NMML-DKE- 2005JUL08-861- 006	3643	3	2005	0	1	0	0	1
SWFC-LLZ- 20040901-A-0090	3644	3	2005	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_063	3645	2	2005	0	0	0	0	0
NGOS-DP- 20040711-1-0002	3646	2	2005	0	0	0	0	0
SWFC-DEG- 20040808-C-0022	3647	3	2005	0	0	0	0	0
NGOS-DKE- 20050726-1-0056	3648	3	2005	0	1	0	0	1
DOR_01-AUG- 06_HW1_HEV_092	3649	2	2005	0	0	0	0	0
NMML-COM- 2005JUN25-604-80	3650	2	2005	1	0	0	0	1
SWFC-RLP- 20040914-A-0015	3651	2	2005	0	0	0	0	0
SWFC-ADL- 20040810-B-0021	3652	2	2005	0	0	0	0	0
NGOS0COM-	3653	3	2005	0	1	0	0	1

20050717-1-1882									
20050816-EAF-134	3654	2	2005	0	0	1	0	1	
NGOS-DE-	3655	2	2005	0	0	0	0	0	
20040815-1-0002									
DOR_19-AUG-	3656	2	2005	0	0	0	0	0	
06_HW6_HEV_010									
05OD_31-AUG-	3657	2	2005	0	0	1	0	1	
05_S523_PJC1_072									
DOR_15-AUG-	3658	3	2005	0	0	0	0	0	
06_HW1_HEV_022									
NGOS-COM-	3659	3	2005	0	1	0	0	1	
20050717-1-1843									
NGOS-COM-	3660	2	2005	0	1	0	0	1	
20050717-1-1947									
NGOS-DKE-	3661	1	2005	0	1	0	0	1	
20050717-1-0201									
NGOS-KEL-	3662	2	2005	0	0	1	0	1	
20050822-1-0044									
DOR_12-AUG-	3663	2	2005	0	0	0	0	0	
06_HW1_DKE_005									
20050816-EAF-	3664	3	2005	0	0	1	1	2	
0154									
NGOS-DKE-	3665	2	2005	0	1	0	0	1	
20050717-1-0199									
05OD_04-SEP-	3666	3	2005	0	1	0	1	2	
05_S559_BKR1_012									
NGOS-DKE-	3667	3	2005	0	1	0	0	1	
20050725-1-0009									
SWFC-RLP-	3668	2	2005	0	0	0	0	0	
20040914-A-0027									
DOR_19-AUG-	3669	2	2005	0	0	1	0	1	
06_HW9_HEV_020									
NGOS-TM-	3670	2	2005	0	0	0	0	0	
20040701-1-0029									
NGOS-DKE-	3671	3	2005	0	1	0	0	1	
20050726-1-0023									
NGOS-TM-	3672	2	2005	0	0	0	0	0	
20040615-1-0001									
SWFC-HOF-	3673	2	2005	0	0	0	0	0	
20040901-B-0100									
SWFC-DEG-	3674	3	2005	0	0	0	0	0	
20040827-C-0006									
SWFC-DEG-	3675	2	2005	0	0	0	0	0	
20040914-C-0066									
SWFC-LLZ-	3676	3	2005	0	0	0	0	0	
20040827-A-0012									
NGOS-DKE-	3677	3	2005	0	1	0	0	1	
20050717-1-0098									
DOR_04-AUG-	3678	2	2005	0	0	0	0	0	
06_HW1_HEV_003									
NGOS-TM-	3679	2	2005	0	0	1	0	1	
20040829-1-0042									
20050814-EAF-	3680	2	2005	0	0	1	0	1	
0088									
NGOS-DP-	3681	3	2005	0	0	0	0	0	
20040711-1-0001									
NGOS-TM-	3682	1	2005	0	0	0	0	0	

20040828-1-0026									
NGOS-DE-	3683	2	2005	0	0	0	0	0	0
20040817-1-0009									
20050824-EAF-	3684	2	2005	0	0	1	0	1	1
0047									
NGOS-TM-	3685	1	2005	0	0	1	0	1	1
20040613-1-0038									
NGOS-DKE-	3686	3	2005	0	1	0	0	1	1
20050725-1-0081									
NGOS-COM-	3687	3	2005	0	1	0	0	1	1
20050717-1-1910									
NGOS-DKE-	3688	3	2005	0	1	1	0	2	2
20050717-1-0096									
DOR_04-AUG-	3689	3	2005	0	0	0	0	0	0
06_HW1_HEV_015									
NMML-EW-	3690	1	2005	0	0	0	0	0	0
20040816-57-004									
NGOS-DKE-	3691	2	2005	0	1	0	0	1	1
20050725-1-0068									
NGOS-COM-	3692	2	2005	0	1	0	0	1	1
20050717-1-1840									
20050827-EAF-	3693	2	2005	0	0	1	1	2	2
0085									
20050816-EAF-	3694	2	2005	0	0	1	0	1	1
0139									
DOR_15-AUG-	3695	3	2005	0	0	1	0	1	1
06_HW1_HEV_122									
05OD_07-SEP-	3696	2	2005	0	0	0	1	1	1
05_S617_BKR1_266									
NGOS-COM-	3697	2	2005	0	1	1	0	2	2
20050717-1-1934									
NGOS-TM-	3698	1	2005	0	0	0	0	0	0
20040613-1-0033									
29AUG2003 R9 F21	3699	2	2005	0	1	0	0	1	1
SWFC-LGT-	3700	1	2005	0	0	0	0	0	0
20040903-A-0151									
20050824-EAF-	3701	2	2005	0	0	1	0	1	1
0071									
NGOS-DKE-	3702	2	2005	0	1	0	0	1	1
20050725-1-0041									
05OD_01-SEP-	3703	2	2005	0	0	0	1	1	1
05_S556_BKR1_267									
NGOS-DKE-	3704	2	2005	0	1	0	0	1	1
20050728-1-0153									
SWFC-DEG-	3705	2	2005	0	0	0	0	0	0
20040904-A-0024									
05OD_01-SEP-	3706	3	2005	0	0	1	1	2	2
05_S556_BKR1_181									
05OD_07-SEP-	3707	2	2005	0	0	0	1	1	1
05_S617_BKR1_206									
05OD_01-SEP-	3708	1	2005	0	0	0	1	1	1
05_S556_PJC1_014									
NGOS-DKE-	3709	1	2005	0	1	0	0	1	1
20050725-1-0017									
2001-UN-1718-10	401002	3	2005	0	0	0	0	0	0
2001-UN-1718-13	401004	1	2005	0	0	0	0	0	0
2001-UN-1718-14	401005	2	2005	0	0	0	0	0	0

2001-UN-1718-17	401006	2	2005	0	0	0	0	0
29AUG2003 R9 FE	401614	3	2005	0	0	0	0	0
2002-UN-2349-20	401104	2	2005	0	0	0	0	0
2002-UN-2349-28	401107	3	2005	0	0	0	0	0
1AUG2003 R3 F34	401531	2	2005	0	0	0	0	0
2002-AL-2308-3a	401201	3	2005	0	0	0	0	0
2002-AL-2308-13a	401203	1	2005	0	0	0	0	0
2002-AL-2308-19a	401205	2	2005	0	0	0	0	0
2002-AL-2308-24a	401207	2	2005	0	0	0	0	0
2002-AL-2308-26a	401209	2	2005	0	0	0	0	0
2002-AL-2308-29a	401210	1	2005	0	0	0	0	0
2002-AL-2307-15	401217	1	2005	0	0	0	0	0
2002-AL-2307-22	401218	2	2005	0	0	0	0	0
2002-AL-2307-32	401220	2	2005	0	0	0	0	0
2002-AL-2307-E	401221	1	2005	0	0	0	0	0
2002-AL-2344-12	401224	2	2005	0	0	0	0	0
2002-AL-2344-13	401225	2	2005	0	0	0	0	0
2002-AL-2344-25	401227	2	2005	0	0	0	0	0
2002-AL-2344-27	401228	1	2005	0	0	0	0	0
2002-AL-2345-19	401230	3	2005	0	0	0	0	0
2002-AL-2343-13	401247	3	2005	0	0	0	0	0
2002-AL-2343-18	401232	3	2005	0	0	0	0	0
2002-AL-2343-23	401233	2	2005	0	0	0	0	0
2002-AL-2343-24	401234	2	2005	0	0	0	0	0
2002-AL-2343-26	401235	2	2005	0	0	0	0	0
2002-AL-2343-32	401237	1	2005	0	0	0	0	0
2002-AL-2343-33	401238	2	2005	0	0	0	0	0
2002-AL-2343-35	401239	2	2005	0	0	0	0	0
2002-AL-2345-1	401240	1	2005	0	0	0	0	0
2002-AL-2345-8	401244	2	2005	0	0	0	0	0
2002-AL-2345-14	401246	2	2005	0	0	0	0	0
2002-AL-2345-18	401248	2	2005	0	0	0	0	0
2002-AL-2345-22	401251	2	2005	0	0	0	0	0
2002-AL-2345-E	401256	3	2005	0	0	0	0	0
2002-AL-2571-3	401258	2	2005	0	0	0	0	0
2002-QL-2571-5	401260	3	2005	0	0	0	0	0
10JUN2003 R1 F7	401404	2	2005	0	0	0	0	0
31JUL2003 R5 F19	401463	2	2005	0	0	0	0	0
10JUN2003 R1 F8	401405	3	2005	0	0	0	0	0
10JUN2003 R1 F18	401408	2	2005	0	0	0	0	0
10JUN2003 R1 F21	401409	3	2005	0	0	0	0	0
10JUN2003 R1 F22	401410	2	2005	0	0	0	0	0
15JUL2003 R4 F25	401451	1	2005	0	0	0	0	0
21JUN2003 R2 F17	401422	2	2005	0	0	0	0	0
5JUL2003 R2 F22	401425	1	2005	0	0	0	0	0
8JUL2003 R2 F29	401428	2	2005	0	0	0	0	0
8JUL2003 R2 F32	401429	2	2005	0	0	0	0	0
8JUL2003 R2 F33	401430	2	2005	0	0	0	0	0
8JUL2003 R3 F2	401431	1	2005	0	0	0	0	0
8JUL2003 R3 F25	401436	1	2005	0	0	0	0	0
12JUL2003 R3 F28	401437	1	2005	0	0	0	0	0
12JUL2003 R3 F30	401439	3	2005	0	0	0	0	0
12JUL2003 R3 F32	401441	2	2005	0	0	0	0	0
15JUL2003 R4 F5a	401444	2	2005	0	0	0	0	0
30JUL2003 R5 F4	401455	2	2005	0	0	0	0	0
31JUL2003 R5 F8	401457	2	2005	0	0	0	0	0
31JUL2003 R5 F10	401458	3	2005	0	0	0	0	0

31JUL2003	R5	F12	401460	2	2005	0	0	0	0	0
31JUL2003	R5	F14	401462	1	2005	0	0	0	0	0
31JUL2003	R5	F26	401466	3	2005	0	0	0	0	0
31JUL2003	R5	F27	401467	2	2005	0	0	0	0	0
31JUL2003	R5	FE	401471	2	2005	0	0	0	0	0
11JULY2003	R1		401504	2	2005	0	0	0	0	0
	F10									
11JULY2003	R1	F5	401502	2	2005	0	0	0	0	0
11JULY2003	R1		401512	2	2005	0	0	0	0	0
	F26									
11JULY2003	R1		401514	2	2005	0	0	0	0	0
	F32									
29JULY2003	R2		401518	2	2005	0	0	0	0	0
	F13									
29JULY2003	R2		401520	2	2005	0	0	0	0	0
	F18									
29JULY2003	R2		401521	3	2005	0	0	0	0	0
	F20									
4AUG2003	R4	F6	401534	1	2005	0	0	0	0	0
5AUG2003	R4	F22	401538	2	2005	0	0	0	0	0
28AUG2003	R5	F8	401546	2	2005	0	0	0	0	0
7AUG2003	R4	F34	401541	3	2005	0	0	0	0	0
7AUG2003	R5	F4	401544	2	2005	0	0	0	0	0
7AUG2003	R5	F5	401545	1	2005	0	0	0	0	0
28AUG2003	R5	F16	401549	3	2005	0	0	0	0	0
28AUG2003	R5	F33	401555	3	2005	0	0	0	0	0
29AUG2003	R5	F11	401559	2	2005	0	0	0	0	0
29AUG2003	R5	F9	401558	2	2005	0	0	0	0	0
29AUG2003	R6	F2	401561	2	2005	0	0	0	0	0
29AUG2006	R6	F11	401562	1	2005	0	0	0	0	0
29AUG2003	R7	F1	401566	1	2005	0	0	0	0	0
29AUG2003	R7	F32	401575	2	2005	0	0	0	0	0
29AUG2003	R8	F10	401580	1	2005	0	0	0	0	0
29AUG2003	R8	F17	401581	2	2005	0	0	0	0	0
29AUG2003	R8	F27	401585	2	2005	0	0	0	0	0
29AUG2003	R8	F33	401586	2	2005	0	0	0	0	0
29AUG2003	R8	F20	401583	1	2005	0	0	0	0	0
29AUG2003	R9	F1	401589	2	2005	0	0	0	0	0
29AUG2003	R9	F17	401596	2	2005	0	0	0	0	0
29AUG2003	R9	F18	401597	2	2005	0	0	0	0	0
29AUG2003	R9	F27	401601	3	2005	0	0	0	0	0
29AUG2003	R9	F28	401602	2	2005	0	0	0	0	0
29AUG2003	R9	F34	401603	2	2005	0	0	0	0	0
29AUG2003	R9	F35	401604	2	2005	0	0	0	0	0
29AUG2003	R9	F24	401599	2	2005	0	0	0	0	0
29AUG2003	R6	F26	401609	2	2005	0	0	0	0	0
29AUG2003	R6	F13	401610	2	2005	0	0	0	0	0
29AUG2003	R8	F16	401612	2	2005	0	0	0	0	0
29AUG2003	R7	F23	401616	2	2005	0	0	0	0	0
29AUG2003	R9	F29	401617	2	2005	0	0	0	0	0
					2006	June	July	Aug	Sept	Total Sightings
SWFC-MFR-			3000	2	2006	0	0	0	0	0
20040910-E-0016										
NGOS-DKE-			3001	3	2006	0	0	0	0	0
20050717-1-0122										
NGOS-TM-			3002	3	2006	0	0	0	0	0

20040828-1-0018									
NGOS-DKE-	3005	3	2006	0	0	0	0	0	0
20050725-1-0061									
NGOS-DKE-	3006	2	2006	0	0	0	0	0	0
20050726-1-0057									
NGOS-DKE-	3007	2	2006	0	0	0	0	0	0
20050725-0010									
20050814-EAF-	3008	3	2006	0	0	0	0	0	0
0093									
NGOS-DKE-	3009	2	2006	0	0	0	0	0	0
20050726-1-0030									
NGOS-DKE-	3010	2	2006	0	0	0	0	0	0
20050728-1-0142									
NGOS-DKE-	3011	3	2006	0	0	0	0	0	0
20050728-1-0065									
NGOS-KEL-	3012	2	2006	0	0	0	0	0	0
20050822-1-0119									
NGOS-DKE-	3013	2	2006	0	0	0	0	0	0
20050728-1-0016									
NGOS-	3014	2	2006	0	0	0	0	0	0
KEL20050822-1-									
0229									
NGOS-TM20040624-	3015	3	2006	0	0	0	0	0	0
1-0007									
NGOS-	3016	1	2006	0	0	0	0	0	0
KEL20040626-1-									
0027									
NGOS-	3017	2	2006	0	0	0	0	0	0
KEL20040626-1-									
0028									
NGOS-TM20040830-	3018	2	2006	0	0	0	0	0	0
1-0008									
SWFC-RLP-	3019	2	2006	0	0	0	0	0	0
20040914-A-0051									
SWFC-RLP-	3020	1	2006	0	0	0	0	0	0
20040910-R-0020									
20050821-EAF-	3021	2	2006	0	0	0	0	0	0
0255									
05OD_01_SEP-	3022	2	2006	0	0	0	0	0	0
05_S556_BKR1_111									
NGOS-	3023	2	2006	0	1	0	0	0	1
KEL20050822-1-									
0175									
20050821-EAF-	3024	1	2006	0	0	0	0	0	0
0252									
NGOS-DKE-	3025	2	2006	0	0	0	0	0	0
20040617-1-0034									
05OD_07-SEP-	3026	1	2006	0	0	0	0	0	0
05_S617_BKR1_153									
31JUL2003 R5 F23	3027	2	2006	0	0	0	0	0	0
05OD_01_SEP-	3028	3	2006	0	0	0	0	0	0
05_S556_BKR1_077									
05OD_01_SEP-	3029	3	2006	0	0	0	0	0	0
05_S556_PJC1_209									
05OD_01_SEP-	3030	3	2006	0	0	0	0	0	0
05_S556_BKR1_339									
15JUL2003 R4 F4a	3031	3	2006	0	1	0	0	0	1

SWFC-LLZ- 20040827-A-0028	3032	3	2006	0	0	0	0	0
SWFC-HOF- 20040901-B-0055	3033	3	2006	0	0	0	0	0
DOR_-1-AUG- 06_HW1_SEM_018	3034	2	2006	0	0	1	0	1
DOR_040AUG- 06_HW1_HEV_035	3035	3	2006	0	0	1	0	1
DOR_26-JUL- 06_HW1_HEV_059	3036	3	2006	0	1	0	0	1
DOR_12-AUG- 06_HW1_HEV_049	3037	1	2006	0	0	1	0	1
DOR_07-AUG- 06_HW1_HEV_011	3038	2	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_070	3039	2	2006	0	0	1	0	1
NMML-LJM- 20040616-F2-013	3040	2	2006	0	0	1	0	1
SWFC-LGT- 20040910-A-0065	3041	2	2006	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_107	3042	3	2006	0	0	1	0	1
NGOS-COM- 20050717-1-1904	3043	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0153	3044	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0192	3045	2	2006	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_034	3046	2	2006	0	0	1	0	1
NMML-EAM- 20040701-F7-019	3047	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0055	3048	2	2006	0	0	0	0	0
NM-JD-20040722- 06-014	3049	3	2006	0	0	0	0	0
SWFC-DEG- 20040910-D-0112	3050	3	2006	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_034	3622	2	2006	0	1	0	0	1
NGOS-DE- 20040810-1-0007	3052	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0198	3053	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0029	3054	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0143	3055	3	2006	0	0	0	0	0
NGOS-KEL- 20050822-1-0069	3056	2	2006	0	0	0	0	0
NGOS-DP- 20040711-1-0005	3057	2	2006	0	0	0	0	0
20050813-EAF- 0081	3058	2	2006	0	0	0	0	0
05OD_07-SEP- 05)S617_PJC_108	3059	2	2006	0	0	0	0	0
SWFC-AJC-	3060	2	2006	0	0	0	0	0

20240903-C-0009									
20050814-EAF-0101	3061	2	2006	0	0	0	0	0	0
NGOS-DE-20040817-1-0023	3062	3	2006	0	0	0	0	0	0
20050812-EAF-0122	3063	3	2006	0	0	0	0	0	0
NGOS-TM-20040829-1-0010	3064	3	2006	0	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_364	3066	1	2006	0	0	0	0	0	0
05OF_01-SEP-05_S556_PJC1_355	3067	2	2006	0	0	0	0	0	0
05OD_04-SEP-05_S556_BKR2_003	3068	2	2006	0	0	0	0	0	0
DOR_19-AUG-06_HW8_HEV_002	3069	3	2006	0	0	1	0	0	1
05OD_01-SEP-05_S556_BKR1_16	3070	2	2006	0	0	0	0	0	0
NGOS-DKE-20050728-1-0152	3071	2	2006	0	0	0	0	0	0
SWFC-RLP-20040914-A-0050	3072	3	2006	0	0	0	0	0	0
NGOS-TM-20040831-1-0005	3073	3	2006	0	0	0	0	0	0
NGOS-TM-20040613-1-0032	3074	3	2006	0	0	0	0	0	0
NGOS-DP-20040710-1-0025	3075	3	2006	0	0	0	0	0	0
NGOS-DP-20040712-1-0035	3076	2	2006	0	0	0	0	0	0
NGOS-KEL-20050822-1-0181	3077	3	2006	0	0	0	0	0	0
NGOS-COM-20050717-1-1906	3078	2	2006	0	0	0	0	0	0
NGOS-KL-20040626-1-0004	3079	3	2006	0	0	0	0	0	0
NGOS-DE-20040810-1-0031	3080	2	2006	0	0	0	0	0	0
NGOS-TM-20040901-1-0061	3081	3	2006	0	0	0	0	0	0
NGOS-DKE-20050728-1-0130	3082	2	2006	0	0	0	0	0	0
NGOS-DKE-20050728-1-0049	3083	3	2006	0	0	1	0	0	1
NGOS-DKE-20050726-1-0062	3084	2	2006	0	0	0	0	0	0
NGOS-DKE-20050718-1-0029	3085	3	2006	0	0	0	0	0	0
NGOS-DP-20040712-1-0006	3086	1	2006	0	0	0	0	0	0
NGOS-DKE-20050726-1-0040	3087	3	2006	0	0	0	0	0	0
NMML-EAM-20040701-F7-002	3088	2	2006	0	0	0	0	0	0
NMML-JB-20040816-52-002	3089	2	2006	0	0	0	0	0	0

NGOS-TM-2040901-1-0034	3090	2	2006	0	0	0	0	0
NGOS-TM-20040901-1-0115	3091	2	2006	0	0	0	0	0
20050816-EAF-0075	3092	3	2006	0	0	0	0	0
SWFC-LGT-20040903-A-0115	3093	3	2006	0	0	0	0	0
NMML-LJM-20040616-F2-017	3094	2	2006	1	0	0	0	1
NGOS-TM-20040831-1-0012	3095	3	2006	0	0	0	0	0
NGOS-TM-20040616-1-0005	3096	3	2006	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_21	3097	2	2006	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_048	3098	2	2006	0	0	0	0	0
05OD_01-SEP-05_S556_BKR1_137	3099	2	2006	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_114	3100	3	2006	0	0	0	0	0
05OD_07-SEP-05_S617_PJC1_091	3101	3	2006	0	0	0	0	0
05OD_06-SEP-05_S616_MDN1_034	3102	3	2006	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_259	3103	2	2006	0	0	0	0	0
05OD_04-SEP-05_S559_BKR1_065	3104	2	2006	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_165	3105	3	2006	0	0	0	0	0
05OD_01-SEP-05_S556_PJC1_298	3106	2	2006	0	0	0	0	0
20050814-EAF-0028	3107	1	2006	0	0	0	0	0
20050820-EAF-0014	3108	1	2006	0	0	0	0	0
20050816-EAF-0009	3109	3	2006	0	0	1	0	1
05OD_01-SEP-05_S556_PJC1_311	3110	2	2006	0	0	1	0	1
2005-EAF-0242	3111	2	2006	0	0	0	0	0
05OD_07-SEP-05_S617_BKR1_126	3112	3	2006	0	0	0	0	0
DOR_12-AUG-06_HW1_HEV_072	3113	2	2006	0	0	1	0	1
NMML-COM-2005JUN25-604-037	3114	2	2006	0	0	0	0	0
NGOS-TM-20040907-1-0009	3115	3	2006	0	0	0	0	0
NGOS-KL-20040617-1-0097	3116	3	2006	0	0	0	0	0
20050821-EAF-0267	3117	2	2006	0	0	0	0	0
05OD_31-AUG-	3118	2	2006	0	0	0	0	0

05_S523_PJC1_063									
2005-EAF-0166	3119	1	2006	0	0	0	0	0	0
05OD_01-SEP-	3120	2	2006	0	0	0	0	0	0
05_S556_BKR1_123									
05OD_07-SEP-	3121	2	2006	0	0	0	0	0	0
05_S617_BKR1_110									
DOR_01-AUG-	3122	3	2006	0	0	1	0	0	1
06_HW1_SEM_038									
DOR_01-AUG-	3123	2	2006	0	0	1	0	0	1
06_HW1_HEV_019									
20050901-EAF-0428	3124	2	2006	0	0	0	0	0	0
DOR_01-AUG-	3125	3	2006	0	0	0	0	0	0
06_HW1_HEV_109									
NGOS-DKE-	3126	2	2006	0	0	0	0	0	0
20050726-1-0005									
NGOS-DP-	3127	2	2006	0	0	0	0	0	0
20040712-2-0005									
20050824-EAF-0026	3128	1	2006	0	0	0	0	0	0
20050901-EAF-0410	3129	2	2006	0	0	0	0	0	0
NGOS-DKE-	3130	3	2006	0	0	0	0	0	0
20050728-1-0087									
20050814-EAF-0143	3131	2	2006	0	0	0	0	0	0
20050824-EAF-0062	3132	3	2006	0	0	0	0	0	0
NGOS-KL-	3133	2	2006	0	0	0	0	0	0
2004062601-0011									
20050827-EAF-0017	3134	2	2006	0	0	0	0	0	0
NGOS-KW-	3135	3	2006	0	0	0	0	0	0
20040721-1-0005									
20050824-EAF-0059	3136	3	2006	0	0	0	0	0	0
20050816-EAF-0102	3137	3	2006	0	0	0	0	0	0
20050821-EAF-0286	3138	2	2006	0	0	0	0	0	0
20050821-EAF-0247	3139	2	2006	0	0	0	0	0	0
05OD_31-AUG-	3140	2	2006	0	0	0	0	0	0
05_S532_PJC1_025									
NGOS-DKE-	3141	3	2006	0	0	0	0	0	0
20050717-1-0077									
20050824-EAF-0044	3142	3	2006	0	0	0	0	0	0
20050824-EAF-0090	3143	2	2006	0	0	0	0	0	0
20050814-EAF-0127	3144	3	2006	0	0	0	0	0	0
NMML-LJM-	3145	3	2006	0	0	0	0	0	0
20040701-F6-030									
20050901-EAF-0354	3146	2	2006	0	0	0	0	0	0
SWFC-DEG-	3147	2	2006	0	0	0	0	0	0

NGOS-DKE- 20050728-1-132	3176	2	2006	0	0	0	0	0
DOR_18-AUG- 06_HW1_HEV_007	3177	2	2006	0	0	1	0	1
SWFC-LLZ- 20040914-C-0098	3178	2	2006	0	0	0	0	0
SWFC-LLZ- 20040901-A-0059	3179	3	2006	0	0	0	0	0
NGOS-DKE- 20050726-1-0024	3180	3	2006	0	0	0	0	0
SWFC-JRB- 20040902-B-0024	3181	3	2006	0	0	0	0	0
NGOS-DE- 20040810-1-0015	3182	3	2006	0	0	0	0	0
NGOS-TM- 20040821-1-0001	3183	1	2006	0	0	0	0	0
NGOS-DE- 20040816-1-0001	3184	2	2006	0	0	0	0	0
NGOS-DKE- 20050717--0291	3185	2	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0156	3186	2	2006	0	0	0	0	0
NGOS-DE- 20040817-1-0029	3187	2	2006	0	0	0	0	0
DOR_15-AUG- 06_HW1_DKE_003	3188	2	2006	0	0	1	0	1
DOR_19-AUG- 06_HW11_HEV_006	3189	2	2006	0	0	1	0	1
NGOS-DE- 20040817-1-0001	3190	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0032	3191	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0066	3192	2	2006	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_032	3193	2	2006	0	1	0	0	1
NGOS-COM- 20050717-1-1854	3194	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0062	3195	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0197	3196	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0074	3197	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0021	3198	2	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0012	3199	2	2006	0	0	0	0	0
NGOS-DKE- 20050718-1-0033	3200	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0100	3201	3	2006	0	0	0	0	0
NGOS-DP- 20050710-1-0030	3202	3	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0185	3203	3	2006	0	0	0	0	0
NGOS-DKE-	3204	2	2006	0	0	0	0	0

SWFC-LLZ- 20040901-A-0041	3233	3	2006	0	0	0	0	0
SWFC-JPB- 20040810-D-0016	3234	3	2006	0	0	0	0	0
SWFC-RLP- 20040901-R-0003	3235	2	2006	0	0	0	0	0
SWFC-RLP- 20040914-A-0030	3236	2	2006	0	0	0	0	0
SWFC-RLP- 20040902-R-0040	3237	2	2006	0	0	0	0	0
SWFC-RLP- 20040914-A-0025	3238	2	2006	0	0	0	0	0
SWFC-HOF- 20040901-B-0025	3239	3	2006	0	0	0	0	0
SWFC-HOF- 20040901-B-0104	3240	3	2006	0	0	0	0	0
SWFC-HOF- 20040901-B-106	3241	2	2006	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_059	3242	2	2006	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_259	3243	3	2006	0	0	0	0	0
DOR_15-AUG- 06_HW2_HEV_085	3244	2	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_DKE_023	3245	2	2006	0	0	1	0	1
NMML-BP- 20040816-56-003	3246	2	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0098	3247	2	2006	0	0	0	0	0
NMML-LGM- 20040701-F6-024	3248	2	2006	0	0	0	0	0
SWFC-CSO- 20040827-B-0041	3249	3	2006	0	0	0	0	0
NMML-KP- 20040726-18-003	3250	3	2006	0	0	0	0	0
NGOS-KL- 20040617-1-0035	3251	2	2006	0	0	0	0	0
20050813-EAF- 0014	3252	2	2006	0	0	0	0	0
20050904-EAF- 0034	3253	3	2006	0	0	0	0	0
NGOS-KL- 20040725-1-0002	3254	2	2006	0	0	0	0	0
NGOS-TM- 20050624-1-0046	3255	2	2006	0	0	0	0	0
NGOS-DP- 20040712-1-0026	3256	2	2006	0	0	0	0	0
NGOS-TM- 20040901-1-0066	3257	3	2006	0	0	0	0	0
SWFC-LGT- 20040910-A-0066	3258	2	2006	0	0	0	0	0
NGOS-DKE- 20050725-1-0040	3259	2	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0148	3260	2	2006	0	0	0	0	0
SWFC-LLZ-	3261	2	2006	0	0	0	0	0

GNOSWFC-DKE- 2005072801-011	3290	2	2006	0	0	0	0	0
DOR_15-AUG- 06_HW2_HEV_097	3291	2	2006	0	0	1	0	1
DOR_19-AUG- 06_HW9_HEV_024	3292	3	2006	0	0	1	0	1
NGOS-COM- 20050717-1-1863	3293	2	2006	0	0	0	0	0
DOR_19-AUG- 06_HW9_HEV_022	3294	3	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_017	3295	3	2006	0	0	1	0	1
NGOS-DKE- 20050726-1-0035	3296	1	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0082	3297	2	2006	0	0	0	0	0
05OD_04-SEP- 05_S559_BKR1_009	3298	3	2006	0	1	1	0	2
NGOS-DKE- 20050717-1-0093	3299	2	2006	0	0	0	0	0
SWFC-LGT- 20040910-A-0057	3300	2	2006	0	0	0	0	0
29AUG2003 R8 F19	3301	3	2006	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_241	3302	2	2006	0	0	0	0	0
20050820-EAF- 0033	3303	2	2006	0	0	0	0	0
20050901-EAF- 0379	3304	2	2006	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_055	3305	2	2006	0	1	0	0	1
SWFC-JRB- 20040909-B-0054	3306	1	2006	0	0	0	0	0
DOR_02-AUG- 06_HW1_HEV_003	3307	2	2006	0	0	1	0	1
NGOS-DE- 20040815-1-0008	3308	2	2006	0	0	0	0	0
05OD_07-SEP- 05_S617_BKR1_042	3309	2	2006	0	0	0	0	0
NGOS-COM- 20050718-1-1978	3310	2	2006	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_047	3311	2	2006	0	0	1	0	1
04OC_01-SEP- 05_S556_PJC1_087	3312	2	2006	0	0	0	0	0
05OD_31-AUG- 05_S532_PJC1_066	3313	2	2006	0	0	0	0	0
SWFC-JRB- 20040901-D-0028	3314	2	2006	0	0	0	0	0
SWFC-ADL- 20040810-B-0001	3315	2	2006	0	0	0	0	0
SWFC-CSO- 20040827-B-0009	3316	2	2006	0	0	0	0	0
20050813-EAF- 0025	3317	3	2006	0	0	0	0	0
SWFC-DEG- 20040914-C-0064	3318	2	2006	0	0	0	0	0

DOR_02-AUG- 06_HW1_HEV_008	3319	3	2006	0	0	1	0	1
NMML-KP- 20040722-09-005	3320	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0047	3321	3	2006	0	0	0	0	0
20050818-EAF- 0006	3322	2	2006	0	0	0	0	0
20050824-EAF- 0013	3323	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0109	3324	2	2006	0	0	0	0	0
05OD_01-SEP- 05_S556_BKR1_136	3325	2	2006	0	0	0	0	0
DOR_06-AUG- 06_HW2_HEV_012	3326	2	2006	0	0	0	0	0
SWFC-AJC- 20040914-D-0043	3327	2	2006	0	0	0	0	0
DOR_04-AUG- 06_HW1_HEV_029	3328	2	2006	0	0	1	0	1
NGOS-DKE- 20050726-1-0021	3329	3	2006	0	0	0	0	0
NGOS-TM- 20040828-1-0045	3330	2	2006	0	0	0	0	0
DOR_28-JUL- 06_HW1_HEV_002	3331	2	2006	0	1	0	0	1
05OD_01-SEP- 05_S556_PJC1_022	3332	1	2006	0	0	0	0	0
SWFC-JRB- 20040903-C-0056	3333	2	2006	0	0	0	0	0
SWFC-LLZ- 20040901-A-0070	3334	1	2006	0	0	0	0	0
NGOS-DP- 20040712-1-0023	3335	2	2006	0	0	0	0	0
NGOS-DP- 20040710-1-0020	3336	1	2006	0	0	0	0	0
SWFC-MFR- 20040902-A-0107	3337	2	2006	0	0	0	0	0
DOR_12AUG- 06_HW1_HEV_039	3338	1	2006	0	0	1	0	1
DOR_26-JUL- 06_HW1_HEV_072	3339	2	2006	0	1	0	0	1
DOR_26-JUL- 06_HW1_HEV_089	3340	2	2006	0	1	0	0	1
DOR_19-AUG- 06_HW9_HEV_039	3341	2	2006	0	0	1	0	1
NGOS-DKE- 20050717-1-0085	3342	3	2006	0	0	0	0	0
20050901-EAF- 0449	3343	2	2006	0	0	0	0	0
DOR_01-AUG- 06_HW1_SEM_005	3344	1	2006	0	0	1	0	1
DOR_19-AUG- 06_HW9_HEV_032	3345	3	2006	0	0	1	0	1
DOR_18-AUG- 06_HW5_HEV_029	3346	3	2006	0	0	1	0	1
DOR_19-AUG-	3347	2	2006	0	0	0	0	0

06_HW9_HEV_001								
NGOS-COM- 20050717-1-1885	3348	1	2006	0	0	0	0	0
NGOS-COM- 20050717-1-1874	3349	1	2006	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_031	3350	2	2006	0	1	0	0	1
DOR_15-AUG- 06_HW1_HEV_008	3351	1	2006	0	1	0	0	1
DOR_28-JUL- 06_HW1_HEV_006	3352	1	2006	0	1	0	0	1
DOR_19-AUG- 06_HW10_HEV_007	3353	2	2006	0	0	1	0	1
NGOS-COM- 20050717-1-1884	3354	1	2006	0	0	0	0	0
NGOS-COM- 20050718-1-1964	3355	2	2006	0	0	0	0	0
NGOS-DKE-2005- 071701-0142	3356	2	2006	0	0	0	0	0
SWFC-LGT- 20040903-A-0038	3357	2	2006	0	0	0	0	0
20050901-EAF- 0303	3358	2	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0037	3359	3	2006	0	0	0	0	0
20050827-EAF- 0063	3360	2	2006	0	0	1	0	1
SWFC-LLZ- 20040901-A-0085	3361	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0148	3362	1	2006	0	0	0	0	0
NGOS-DE- 20040816-1-0006	3363	2	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0207	3364	2	2006	0	0	0	0	0
NGPSWFC-DKE- 20050715-1-0036	3365	1	2006	0	0	0	0	0
NGOS-DKE- 20050717-1-0187	3366	1	2006	0	0	0	0	0
NGOS-DE- 20040810-1-0028	3367	2	2006	0	0	0	0	0
NGOS-DE- 20040810-1-0005	3368	3	2006	0	0	0	0	0
20050831-EAF- 0100	3369	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0086	3370	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0093	3372	1	2006	0	0	0	0	0
NGOS-DP- 20040803-2-0011	3373	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0149	3374	1	2006	0	0	0	0	0
NMML-DKE- 2005JUL09-893- 005	3375	3	2006	0	0	0	0	0
20050901-EAF-	3376	2	2006	0	0	0	0	0

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NGOS-DKE- 20050728-1-0137	3377	2	2006	0	0	0	0	0
NGOS-KL- 20040725-1-0025	3378	2	2006	0	0	0	0	0
NGOS-KEL- 20040822-1-0264	3379	3	2006	0	0	0	0	0
NGOS-TM- 20040624-1-0004	3380	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0097	3381	2	2006	0	0	0	0	0
NGOS-TM- 20040828-1-0085	3383	2	2006	0	0	0	0	0
NGOS-TM- 20040624-1-0037	3384	2	2006	0	0	0	0	0
NGOS-TM- 20040828-1-0007	3385	1	2006	0	0	0	0	0
DOR_19-AUG- 06_HW6_HEV_009	3386	2	2006	0	0	1	0	1
NGOS-TM- 20040901-1-0029	3387	1	2006	0	0	0	0	0
SWFC-MHD- 20040903-B-0116	3388	3	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_014	3389	1	2006	0	0	1	0	1
DOR_06-AUG- 06_HW2_HEV_010	3390	1	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_004	3391	2	2006	0	0	1	0	1
SWFC-AJC- 20040914-D-0045	3392	2	2006	0	0	0	0	0
20050901-EAF- 0417	3393	3	2006	0	0	0	0	0
20050827-EAF- 0144	3394	3	2006	0	0	0	0	0
20050816-EAF- 0063	3395	3	2006	0	0	0	0	0
NGOS-DKE- 20050728-1-0025	3396	1	2006	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_148	3397	2	2006	0	0	0	0	0
20050816-EAF- 0027	3398	3	2006	0	0	0	0	0
20050821-EAF- 0300	3399	2	2006	0	0	0	0	0
05OD_07-SEP- 05_S617_PJC1_069	3400	2	2006	0	0	0	0	0
DOR_26-JUL- 06_HW1_HEV_063	3401	2	2006	0	1	0	0	1
NMML-COM- 2004JUN25-604- 008	3402	3	2006	0	0	0	0	0
04OD_01-SEP- 05_S556_PJC1_331	3403	3	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_086	3404	2	2006	0	0	1	0	1
11JULY2003 R1	3405	3	2006	0	0	1	0	1

F24									
NGOS-COM-	3407	2	2006	0	0	0	0	0	0
20050717-1-1898									
DOR_12-AUG-	3408	3	2006	0	0	1	0	1	1
06_HW1_DKE_009									
DOR_15-AUG-	3409	1	2006	0	0	1	0	1	1
06_HW1_DKE_071									
DOR_12-AUG-	3410	2	2006	0	0	1	0	1	1
06_HW1_DKE_033									
NGOS-COM-	3411	2	2006	0	0	0	0	0	0
20050717-1-1839									
20050901-EAF-	3412	1	2006	0	0	0	0	0	0
0404									
20050816-EAF-	3413	2	2006	0	0	0	0	0	0
0076									
20050827-EAF-	3414	3	2006	0	0	0	0	0	0
0162									
20050901-EAF-	3415	2	2006	0	0	0	0	0	0
0459									
20050821-EAF-	3416	3	2006	0	0	0	0	0	0
0238									
20050821-EAF-	3417	2	2006	0	0	0	0	0	0
0284									
05OD_01-SEP-	3418	2	2006	0	0	0	0	0	0
05_S556_PJC1_233									
05OD_06-SEP-	3419	2	2006	0	0	0	0	0	0
05_S616_MDN1_002									
28AUG2003 R5 F11	3420	1	2006	0	0	0	0	0	0
05OD_07-SEP-	3421	2	2006	0	0	0	0	0	0
05_S617_BKR1_151									
05OD_07-SEP-	3422	2	2006	0	0	0	0	0	0
05_S617_BRK1_277									
05OS_01-SEP-05-	3423	2	2006	0	0	0	0	0	0
S556_BKR1_247									
SWFC-CSO-	3424	3	2006	0	0	0	0	0	0
20040827-B-0010									
05OD_01-SEP-	3425	2	2006	0	0	0	0	0	0
05_S556_BKR1_109									
NMML-EAM-	3426	2	2006	0	0	0	0	0	0
20040701-F7-036									
SWFC-CSO-	3427	2	2006	0	0	0	0	0	0
20040913-D-0113									
05OD_07-SEP-	3428	2	2006	0	0	0	0	0	0
05_S617_BKR1_221									
DOR_19-AUG-	3429	3	2006	0	0	1	0	1	1
06_HW6_HEV_011									
NGOS-KL-	3430	3	2006	0	0	0	0	0	0
20040617-1-0037									
SWFC-LGT-	3431	2	2006	0	0	0	0	0	0
20040910-A-0049									
NGOS-DP-	3432	2	2006	0	0	0	0	0	0
20040712-2-0004									
NGOS-DKE-	3433	3	2006	0	0	0	0	0	0
20050725-1-0042									
NGOS-DKE-2005-	3434	3	2006	0	0	0	0	0	0
728-1-0099									
NGOS-DKE-	3435	2	2006	0	0	0	0	0	0

NMML-SEY- 20040616-1-001	3465	2	2006	0	0	0	0	0
NGOS-COM- 20050718-1-1967	3466	2	2006	0	0	0	0	0
NGOS-TM- 20040831-1-0008	3467	1	2006	0	0	0	0	0
NGOS-TM- 20040901-1-0065	3468	2	2006	0	0	0	0	0
SWFC-HOF- 20040901-B-0019	3469	1	2006	0	0	0	0	0
SWFC-DEG- 20040910-D-0152	3470	2	2006	0	0	0	0	0
SWFC-LGT- 20040903-A-0008	3471	2	2006	0	0	0	0	0
SWFC-CSO- 20040913-D-0111	3472	2	2006	0	0	0	0	0
NGOS-TM- 20040829-1-0037	3473	2	2006	0	0	0	0	0
SWFC-DEG- 20040808-C-0011	3474	1	2006	0	0	0	0	0
DOR_12-AUG- 06_HW1_HEV_055	3475	1	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_060	3476	1	2006	0	0	1	0	1
DOR_15-AUG- 06_HW1_HEV_053	3477	1	2006	0	0	1	0	1
NGOS-KL- 20040626-1-0029	3478	1	2006	0	0	1	0	1
DOR_12-AUG- 06_HW1_HEV_012	3479	1	2006	0	0	1	0	1
NGOS-TM- 20040615-1-0003	3480	2	2006	0	0	0	0	0
NGOS-KL- 20040626-1-0015	3482	1	2006	0	0	0	0	0
NGOS-TM- 20040828-1-0034	3483	2	2006	0	0	0	0	0
DOR_15-AUG- 06_HW1_HEV_029	3484	1	2006	0	0	1	0	1
NGOS-TM- 20040901-1-0110	3485	1	2006	0	0	0	0	0
20050821-EAF- 0287	3486	1	2006	0	0	1	0	1
05OD_31-AUG- 05_S523_PJC1_039	3487	2	2006	0	0	0	0	0
NGOS-KL- 20040617-1-0036	3488	1	2006	0	0	0	0	0
NGOS-20040829-1- 0004	3489	2	2006	0	0	1	0	1
NGOS-DKE- 20050717-1-0195	3490	1	2006	0	0	0	0	0
NGOS-DE- 20040810-1-0018	3491	2	2006	0	0	0	0	0
05OD_01-SEP- 05_S556_PJC1_123	3492	2	2006	0	0	0	0	0
NGOS-DE- 20040817-1-0031	3493	1	2006	0	0	0	0	0
NGOS-KEL-	3494	1	2006	0	0	0	0	0

20050822-1-0219									
NGOS-D-20040803-2-0014	3495	1	2006	0	0	0	0	0	0
NGOS-JA-20040803-1-0002	3496	1	2006	0	0	0	0	0	0
29AUG2003 R8 F35	3497	2	2006	0	0	0	0	0	0
NGOS-DKE-20050728-1-0155	3498	1	2006	0	0	0	0	0	0
05OD_07-SEP-	3499	1	2006	0	0	0	0	0	0
05_S617_BKR1_045									
05OD_01-SEP-	3500	1	2006	0	0	0	0	0	0
05_S556_PJC1_274									
DOR_01-AUF-	3501	2	2006	0	0	1	0	0	1
06_HW1_SEM_043									
NGOS-DKE-20050724-1-0006	3502	1	2006	0	0	0	0	0	0
NGOS-TM-2040628-1-0016	3503	1	2006	0	0	0	0	0	0
NGOS-TM-20040613-1-0005	3504	1	2006	0	0	0	0	0	0
NGOS-KW-20040721-1-0012	3505	1	2006	0	0	0	0	0	0
NGOS-KW-20040721-1-0006	3506	2	2006	0	0	0	0	0	0
NMML-EAM-20040701-F8-010	3507	1	2006	0	0	0	0	0	0
NGOS-COM-20050717-1-1933	3508	2	2006	0	0	0	0	0	0
NGOS-COM-20050717-1-1937	3509	3	2006	0	0	0	0	0	0
DOR_26-JUL-	3510	2	2006	0	1	0	0	0	1
06_HW1_HEV_068									
20050813-EAF-0026	3511	3	2006	0	0	0	0	0	0
NGOS-KEL-20050822-0231	3512	1	2006	0	0	0	0	0	0
SWFC-RLP-20040903-R-0024	3513	2	2006	0	0	0	0	0	0
20050813-EAF-0015	3514	2	2006	0	0	0	0	0	0
20050813-EAF-0048	3515	1	2006	0	0	0	0	0	0
SWFC-SEH-20040811-B-0012	3516	1	2006	0	0	0	0	0	0
SWFC-MFR-20040902-A-0149	3517	1	2006	0	0	0	0	0	0
NGOS-KL-20040725-1-0033	3518	2	2006	0	0	0	0	0	0
SWFC-HOF-20040901-B-0071	3519	1	2006	0	0	0	0	0	0
05OD_07-SEP-	3520	1	2006	0	0	0	0	0	0
05_S617_BKR1_202									
29AUG2003 R7 F17	3521	3	2006	0	0	0	0	0	0
SWFC-LLZ-20040903-C-0028	3522	2	2006	0	0	0	0	0	0
SWFC-RLP-20040910-R-0044	3523	1	2006	0	0	0	0	0	0

DOR_19-AUG-06_HW9_HEV_015	3554	2	2006	0	0	1	0	1
DOR_19-AUG-06_HW12_DKE_008	3555	2	2006	0	0	1	0	1
DOR_12-AUG-06_HW1_DKE_039	3556	2	2006	0	0	1	0	1
NGOS-DKE-20050725-1-0024	3557	2	2006	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_071	3558	3	2006	0	1	1	0	2
1AUG2003 R3 F28	3559	2	2006	0	0	1	0	1
NGOS-KL-20040614-1-0001	3560	2	2006	0	0	0	0	0
20050816-EAF-0092	3561	3	2006	0	0	0	0	0
SWFC-SCR-20040910-D-0159	3562	3	2006	0	0	0	0	0
20050813-EAF-0023	3563	2	2006	0	0	0	0	0
DOR_19-AUG-06_HW5_HEV_005	3564	2	2006	0	0	1	0	1
NGOS_DKE-20050726-1-0061	3565	2	2006	0	0	0	0	0
NGOS-DKE-20050728-1-0007	3566	3	2006	0	0	0	0	0
DOR_26-JUL-06_HW1_HEV_060	3567	2	2006	0	1	0	0	1
NGOS-DKE-20050724-1-0004	3568	3	2006	0	0	0	0	0
NGOS_DKE-20050717-1-0126	3569	3	2006	0	0	0	0	0
20050901-EAF-0426	3570	3	2006	0	0	0	0	0
NGOS-DKE-20050728-1-0147	3571	3	2006	0	0	0	0	0
SWFC-RLP-200409014-A-0016	3572	3	2006	0	0	0	0	0
SWFC-LLZ-20040901-A-0035	3573	3	2006	0	0	0	0	0
NGOS-DKE-20050728-1-0151	3574	3	2006	0	0	0	0	0
DOR_01-AUG-06_HW1_HEV_076	3575	3	2006	0	0	1	0	1
NMML-HOF-2005JUN25-604-01	3576	2	2006	0	0	0	0	0
DOR_19-AUG-06_HW6_HEV_005	3577	2	2006	0	0	1	0	1
DOR_12-AUG-06_HW1_HEV_019	3578	2	2006	0	0	1	0	1
SWFC-LGT-20040903-A-0051	3579	3	2006	0	0	0	0	0
SWFC-MFR-20040910-E-0017	3580	2	2006	0	0	0	0	0
DOR_07-AUG-06_HW1_HEV_010	3581	2	2006	0	0	1	0	1
01AUG2003 R2 F35	3582	2	2006	0	0	0	0	0
05OD_01-SEP-	3583	3	2006	0	0	0	0	0

05_S556_BKR1_093									
05OD_01-SEP-	3584	3	2006	0	0	0	0	0	0
05_S556_BKR1_071									
SWFC-LLZ-	3585	3	2006	0	0	0	0	0	0
20040914-C-0052									
NGOS-COM-	3587	3	2006	0	0	0	0	0	0
20050717-1-1850									
NGOS-DKE-	3588	3	2006	0	0	0	0	0	0
20050728-1-0150									
DOR_15-AUG-	3589	3	2006	0	0	1	0	0	1
06_HW1_HEV_103									
DOR_06-AUG-	3590	2	2006	0	0	1	0	0	1
06_HW2_HEV_011									
20050824-EAF-	3591	3	2006	0	0	0	0	0	0
0070									
NGOS-DKE-	3592	3	2006	0	0	0	0	0	0
20050717-1-0059									
20050901-EAF-	3593	2	2006	0	0	0	0	0	0
0455									
NMML-JD-	3594	2	2006	0	0	0	0	0	0
20040722-10-0004									
29AUG2003 R9 F12	3595	2	2006	0	0	0	0	0	0
DOR_18-AUG-	3596	2	2006	0	0	1	0	0	1
06_HW3_HEV_001									
NGOS-TM-	3597	2	2006	0	0	0	0	0	0
20040831-1-0016									
SWFC-LLZ-	3598	3	2006	0	0	0	0	0	0
20040827-A-0024									
SWFC-DEG-	3599	2	2006	0	0	0	0	0	0
20040910-D-0113									
NGOS-DKE-	3600	2	2006	0	0	0	0	0	0
20050728-1-0018									
DOR_04-AUG-	3601	2	2006	0	0	1	0	0	1
06_HW1_HEV_001									
DOR_01-AUG-	3602	2	2006	0	0	1	0	0	1
06_HW1_SEM_030									
SWFC-HOF-	3603	3	2006	0	0	0	0	0	0
20040908-B-0006									
DOR_26-JAL-	3604	2	2006	0	1	0	0	0	1
06_HW1_HEV_52									
NGOS-DKE-	3605	3	2006	0	0	0	0	0	0
20050717-1-0037									
NGOS-TM-	3606	3	2006	0	0	0	0	0	0
20040628-1-0008									
DOR_19-AUG-	3607	3	2006	0	0	1	0	0	1
06_HW10_HEV_005									
NGOS-DKE-	3608	2	2006	0	0	1	0	0	1
20050728-1-0105									
DOR_07-AUG-	3609	3	2006	0	0	0	0	0	0
06_HW1_HEV_014									
NMML-KP-	3610	3	2006	0	0	0	0	0	0
20040726-17-002									
NGOS-DE-	3611	2	2006	0	0	0	0	0	0
20040810-1-0021									
NGOS-COM-	3612	1	2006	0	0	0	0	0	0
20050717-1-1962									
DOR_15-AUG-	3613	2	2006	0	0	1	0	0	1

006									
SWFC-LLZ-	3644	3	2006	0	0	0	0	0	0
20040901-A-0090									
DOR_12-AUG-	3645	2	2006	0	0	1	0	1	1
06_HW1_HEV_063									
NGOS-DP-	3646	2	2006	0	0	0	0	0	0
20040711-1-0002									
SWFC-DEG-	3647	3	2006	0	0	0	0	0	0
20040808-C-0022									
NGOS-DKE-	3648	3	2006	0	0	0	0	0	0
20050726-1-0056									
DOR_01-AUG-	3649	2	2006	0	0	1	0	1	1
06_HW1_HEV_092									
NMML-COM-	3650	2	2006	0	0	1	0	1	1
2005JUN25-604-80									
SWFC-RLP-	3651	2	2006	0	0	0	0	0	0
20040914-A-0015									
SWFC-ADL-	3652	2	2006	0	0	0	0	0	0
20040810-B-0021									
NGOS0COM-	3653	3	2006	0	0	0	0	0	0
20050717-1-1882									
20050816-EAF-134	3654	2	2006	0	0	0	0	0	0
NGOS-DE-	3655	2	2006	0	0	0	0	0	0
20040815-1-0002									
DOR_19-AUG-	3656	2	2006	0	0	1	0	1	1
06_HW6_HEV_010									
05OD_31-AUG-	3657	2	2006	0	0	0	0	0	0
05_S523_PJC1_072									
DOR_15-AUG-	3658	3	2006	0	0	1	0	1	1
06_HW1_HEV_022									
NGOS-COM-	3659	3	2006	0	0	0	0	0	0
20050717-1-1843									
NGOS-COM-	3660	2	2006	0	0	0	0	0	0
20050717-1-1947									
NGOS-DKE-	3661	1	2006	0	0	0	0	0	0
20050717-1-0201									
NGOS-KEL-	3662	2	2006	0	0	0	0	0	0
20050822-1-0044									
DOR_12-AUG-	3663	2	2006	0	0	1	0	1	1
06_HW1_DKE_005									
20050816-EAF-	3664	3	2006	0	0	0	0	0	0
0154									
NGOS-DKE-	3665	2	2006	0	0	0	0	0	0
20050717-1-0199									
05OD_04-SEP-	3666	3	2006	0	1	0	0	1	1
05_S559_BKR1_012									
NGOS-DKE-	3667	3	2006	0	0	0	0	0	0
20050725-1-0009									
SWFC-RLP-	3668	2	2006	0	0	0	0	0	0
20040914-A-0027									
DOR_19-AUG-	3669	2	2006	0	0	1	0	1	1
06_HW9_HEV_020									
NGOS-TM-	3670	2	2006	0	0	0	0	0	0
20040701-1-0029									
NGOS-DKE-	3671	3	2006	0	0	0	0	0	0
20050726-1-0023									
NGOS-TM-	3672	2	2006	0	0	0	0	0	0

20040615-1-0001									
SWFC-HOF-	3673	2	2006	0	0	0	0	0	0
20040901-B-0100									
SWFC-DEG-	3674	3	2006	0	0	0	0	0	0
20040827-C-0006									
SWFC-DEG-	3675	2	2006	0	0	0	0	0	0
20040914-C-0066									
SWFC-LLZ-	3676	3	2006	0	0	0	0	0	0
20040827-A-0012									
NGOS-DKE-	3677	3	2006	0	0	0	0	0	0
20050717-1-0098									
DOR_04-AUG-	3678	2	2006	0	0	1	0	0	1
06_HW1_HEV_003									
NGOS-TM-	3679	2	2006	0	0	0	0	0	0
20040829-1-0042									
20050814-EAF-	3680	2	2006	0	0	0	0	0	0
0088									
NGOS-DP-	3681	3	2006	0	0	0	0	0	0
20040711-1-0001									
NGOS-TM-	3682	1	2006	0	0	0	0	0	0
20040828-1-0026									
NGOS-DE-	3683	2	2006	0	0	0	0	0	0
20040817-1-0009									
20050824-EAF-	3684	2	2006	0	0	0	0	0	0
0047									
NGOS-TM-	3685	1	2006	0	0	0	0	0	0
20040613-1-0038									
NGOS-DKE-	3686	3	2006	0	0	0	0	0	0
20050725-1-0081									
NGOS-COM-	3687	3	2006	0	0	0	0	0	0
20050717-1-1910									
NGOS-DKE-	3688	3	2006	0	0	0	0	0	0
20050717-1-0096									
DOR_04-AUG-	3689	3	2006	0	0	1	0	0	1
06_HW1_HEV_015									
NMML-EW-	3690	1	2006	0	0	0	0	0	0
20040816-57-004									
NGOS-DKE-	3691	2	2006	0	0	0	0	0	0
20050725-1-0068									
NGOS-COM-	3692	2	2006	0	0	0	0	0	0
20050717-1-1840									
20050827-EAF-	3693	2	2006	0	0	0	0	0	0
0085									
20050816-EAF-	3694	2	2006	0	0	0	0	0	0
0139									
DOR_15-AUG-	3695	3	2006	0	0	0	0	0	0
06_HW1_HEV_122									
05OD_07-SEP-	3696	2	2006	0	0	0	0	0	0
05_S617_BKR1_266									
NGOS-COM-	3697	2	2006	0	0	0	0	0	0
20050717-1-1934									
NGOS-TM-	3698	1	2006	0	0	0	0	0	0
20040613-1-0033									
29AUG2003 R9 F21	3699	2	2006	0	0	0	0	0	0
SWFC-LGT-	3700	1	2006	0	0	0	0	0	0
20040903-A-0151									
20050824-EAF-	3701	2	2006	0	0	0	0	0	0

0071									
NGOS-DKE-	3702	2	2006	0	0	0	0	0	0
20050725-1-0041									
05OD_01-SEP-	3703	2	2006	0	0	0	0	0	0
05_S556_BKR1_267									
NGOS-DKE-	3704	2	2006	0	0	0	0	0	0
20050728-1-0153									
SWFC-DEG-	3705	2	2006	0	0	0	0	0	0
20040904-A-0024									
05OD_01-SEP-	3706	3	2006	0	0	0	0	0	0
05_S556_BKR1_181									
05OD_07-SEP-	3707	2	2006	0	0	0	0	0	0
05_S617_BKR1_206									
05OD_01-SEP-	3708	1	2006	0	0	0	0	0	0
05_S556_PJC1_014									
NGOS-DKE-	3709	1	2006	0	0	0	0	0	0
20050725-1-0017									
2001-UN-1718-10	401002	3	2006	0	0	0	0	0	0
2001-UN-1718-13	401004	1	2006	0	0	0	0	0	0
2001-UN-1718-14	401005	2	2006	0	0	0	0	0	0
2001-UN-1718-17	401006	2	2006	0	0	0	0	0	0
29AUG2003 R9 FE	401614	3	2006	0	0	0	0	0	0
2002-UN-2349-20	401104	2	2006	0	0	0	0	0	0
2002-UN-2349-28	401107	3	2006	0	0	0	0	0	0
1AUG2003 R3 F34	401531	2	2006	0	0	0	0	0	0
2002-AL-2308-3a	401201	3	2006	0	0	0	0	0	0
2002-AL-2308-13a	401203	1	2006	0	0	0	0	0	0
2002-AL-2308-19a	401205	2	2006	0	0	0	0	0	0
2002-AL-2308-24a	401207	2	2006	0	0	0	0	0	0
2002-AL-2308-26a	401209	2	2006	0	0	0	0	0	0
2002-AL-2308-29a	401210	1	2006	0	0	0	0	0	0
2002-AL-2307-15	401217	1	2006	0	0	0	0	0	0
2002-AL-2307-22	401218	2	2006	0	0	0	0	0	0
2002-AL-2307-32	401220	2	2006	0	0	0	0	0	0
2002-AL-2307-E	401221	1	2006	0	0	0	0	0	0
2002-AL-2344-12	401224	2	2006	0	0	0	0	0	0
2002-AL-2344-13	401225	2	2006	0	0	0	0	0	0
2002-AL-2344-25	401227	2	2006	0	0	0	0	0	0
2002-AL-2344-27	401228	1	2006	0	0	0	0	0	0
2002-AL-2345-19	401230	3	2006	0	0	0	0	0	0
2002-AL-2343-13	401247	3	2006	0	0	0	0	0	0
2002-AL-2343-18	401232	3	2006	0	0	0	0	0	0
2002-AL-2343-23	401233	2	2006	0	0	0	0	0	0
2002-AL-2343-24	401234	2	2006	0	0	0	0	0	0
2002-AL-2343-26	401235	2	2006	0	0	0	0	0	0
2002-AL-2343-32	401237	1	2006	0	0	0	0	0	0
2002-AL-2343-33	401238	2	2006	0	0	0	0	0	0
2002-AL-2343-35	401239	2	2006	0	0	0	0	0	0
2002-AL-2345-1	401240	1	2006	0	0	0	0	0	0
2002-AL-2345-8	401244	2	2006	0	0	0	0	0	0
2002-AL-2345-14	401246	2	2006	0	0	0	0	0	0
2002-AL-2345-18	401248	2	2006	0	0	0	0	0	0
2002-AL-2345-22	401251	2	2006	0	0	0	0	0	0
2002-AL-2345-E	401256	3	2006	0	0	0	0	0	0
2002-AL-2571-3	401258	2	2006	0	0	0	0	0	0
2002-QL-2571-5	401260	3	2006	0	0	0	0	0	0
10JUN2003 R1 F7	401404	2	2006	0	0	0	0	0	0

31JUL2003	R5	F19	401463	2	2006	0	0	0	0	0
10JUN2003	R1	F8	401405	3	2006	0	0	0	0	0
10JUN2003	R1	F18	401408	2	2006	0	0	0	0	0
10JUN2003	R1	F21	401409	3	2006	0	0	0	0	0
10JUN2003	R1	F22	401410	2	2006	0	0	0	0	0
15JUL2003	R4	F25	401451	1	2006	0	0	0	0	0
21JUN2003	R2	F17	401422	2	2006	0	0	0	0	0
5JUL2003	R2	F22	401425	1	2006	0	0	0	0	0
8JUL2003	R2	F29	401428	2	2006	0	0	0	0	0
8JUL2003	R2	F32	401429	2	2006	0	0	0	0	0
8JUL2003	R2	F33	401430	2	2006	0	0	0	0	0
8JUL2003	R3	F2	401431	1	2006	0	0	0	0	0
8JUL2003	R3	F25	401436	1	2006	0	0	0	0	0
12JUL2003	R3	F28	401437	1	2006	0	0	0	0	0
12JUL2003	R3	F30	401439	3	2006	0	0	0	0	0
12JUL2003	R3	F32	401441	2	2006	0	0	0	0	0
15JUL2003	R4	F5a	401444	2	2006	0	0	0	0	0
30JUL2003	R5	F4	401455	2	2006	0	0	0	0	0
31JUL2003	R5	F8	401457	2	2006	0	0	0	0	0
31JUL2003	R5	F10	401458	3	2006	0	0	0	0	0
31JUL2003	R5	F12	401460	2	2006	0	0	0	0	0
31JUL2003	R5	F14	401462	1	2006	0	0	0	0	0
31JUL2003	R5	F26	401466	3	2006	0	0	0	0	0
31JUL2003	R5	F27	401467	2	2006	0	0	0	0	0
31JUL2003	R5	FE	401471	2	2006	0	0	0	0	0
11JULY2003	R1		401504	2	2006	0	0	0	0	0
		F10								
11JULY2003	R1	F5	401502	2	2006	0	0	0	0	0
11JULY2003	R1		401512	2	2006	0	0	0	0	0
		F26								
11JULY2003	R1		401514	2	2006	0	0	0	0	0
		F32								
29JULY2003	R2		401518	2	2006	0	0	0	0	0
		F13								
29JULY2003	R2		401520	2	2006	0	0	0	0	0
		F18								
29JULY2003	R2		401521	3	2006	0	0	0	0	0
		F20								
4AUG2003	R4	F6	401534	1	2006	0	0	0	0	0
5AUG2003	R4	F22	401538	2	2006	0	0	0	0	0
28AUG2003	R5	F8	401546	2	2006	0	0	0	0	0
7AUG2003	R4	F34	401541	3	2006	0	0	0	0	0
7AUG2003	R5	F4	401544	2	2006	0	0	0	0	0
7AUG2003	R5	F5	401545	1	2006	0	0	0	0	0
28AUG2003	R5	F16	401549	3	2006	0	0	0	0	0
28AUG2003	R5	F33	401555	3	2006	0	0	0	0	0
29AUG2003	R5	F11	401559	2	2006	0	0	0	0	0
29AUG2003	R5	F9	401558	2	2006	0	0	0	0	0
29AUG2003	R6	F2	401561	2	2006	0	0	0	0	0
29AUG2006	R6	F11	401562	1	2006	0	0	0	0	0
29AUG2003	R7	F1	401566	1	2006	0	0	0	0	0
29AUG2003	R7	F32	401575	2	2006	0	0	0	0	0
29AUG2003	R8	F10	401580	1	2006	0	0	0	0	0
29AUG2003	R8	F17	401581	2	2006	0	0	0	0	0
29AUG2003	R8	F27	401585	2	2006	0	0	0	0	0
29AUG2003	R8	F33	401586	2	2006	0	0	0	0	0
29AUG2003	R8	F20	401583	1	2006	0	0	0	0	0

29AUG2003	R9	F1	401589	2	2006	0	0	0	0	0
29AUG2003	R9	F17	401596	2	2006	0	0	0	0	0
29AUG2003	R9	F18	401597	2	2006	0	0	0	0	0
29AUG2003	R9	F27	401601	3	2006	0	0	0	0	0
29AUG2003	R9	F28	401602	2	2006	0	0	0	0	0
29AUG2003	R9	F34	401603	2	2006	0	0	0	0	0
29AUG2003	R9	F35	401604	2	2006	0	0	0	0	0
29AUG2003	R9	F24	401599	2	2006	0	0	0	0	0
29AUG2003	R6	F26	401609	2	2006	0	0	0	0	0
29AUG2003	R6	F13	401610	2	2006	0	0	0	0	0
29AUG2003	R8	F16	401612	2	2006	0	0	0	0	0
29AUG2003	R7	F23	401616	2	2006	0	0	0	0	0
29AUG2003	R9	F29	401617	2	2006	0	0	0	0	0

Appendix A1.3. Encounter history codes for all whales from 2003-2006 used in Program MARK. These codes represent the format that all data must be organized in for Program MARK. The first column is encounter histories of individuals that include the individual animals fluke distinctiveness rating (FLDI). The second column is encounter histories of individuals without a FLDI rating. Encounter histories are organized as follows: */*aaaa*/ bbbb c c c d*; where *a*=individual animal ID number, *bbbb*=month that the animal was encountered (JuneJulyAugustSeptember) where a 1=animal ‘seen during that month’, a 0=not seen, and .=not searched for, *c c c c*=year code. 1 0 0 0 represents 2003, 0 1 0 0 represents 2004, 0 0 1 0 represents 2005, and 0 0 0 1 represents 2006, and lastly *d*=fluke distinctiveness rating (1=low, 2=medium, 3=high) for that individual whale.

Encounter histories and FLDI rating	Encounter histories without FLDI rating
<i>/*3001*/ 010. 1 0 0 0 3 ;</i>	<i>/*3001*/ 010. 1 0 0 0 ;</i>
<i>/*3009*/ 001. 1 0 0 0 2 ;</i>	<i>/*3009*/ 001. 1 0 0 0 ;</i>
<i>/*3013*/ 100. 1 0 0 0 2 ;</i>	<i>/*3013*/ 100. 1 0 0 0 ;</i>
<i>/*3015*/ 001. 1 0 0 0 3 ;</i>	<i>/*3015*/ 001. 1 0 0 0 ;</i>
<i>/*3023*/ 001. 1 0 0 0 2 ;</i>	<i>/*3023*/ 001. 1 0 0 0 ;</i>
<i>/*3027*/ 010. 1 0 0 0 2 ;</i>	<i>/*3027*/ 010. 1 0 0 0 ;</i>
<i>/*3031*/ 010. 1 0 0 0 3 ;</i>	<i>/*3031*/ 010. 1 0 0 0 ;</i>
<i>/*3036*/ 010. 1 0 0 0 3 ;</i>	<i>/*3036*/ 010. 1 0 0 0 ;</i>
<i>/*3048*/ 010. 1 0 0 0 2 ;</i>	<i>/*3048*/ 010. 1 0 0 0 ;</i>
<i>/*3058*/ 001. 1 0 0 0 2 ;</i>	<i>/*3058*/ 001. 1 0 0 0 ;</i>
<i>/*3081*/ 001. 1 0 0 0 3 ;</i>	<i>/*3081*/ 001. 1 0 0 0 ;</i>
<i>/*3103*/ 011. 1 0 0 0 2 ;</i>	<i>/*3103*/ 011. 1 0 0 0 ;</i>
<i>/*3115*/ 001. 1 0 0 0 3 ;</i>	<i>/*3115*/ 001. 1 0 0 0 ;</i>
<i>/*3135*/ 001. 1 0 0 0 3 ;</i>	<i>/*3135*/ 001. 1 0 0 0 ;</i>
<i>/*3148*/ 010. 1 0 0 0 2 ;</i>	<i>/*3148*/ 010. 1 0 0 0 ;</i>
<i>/*3170*/ 100. 1 0 0 0 3 ;</i>	<i>/*3170*/ 100. 1 0 0 0 ;</i>
<i>/*3267*/ 001. 1 0 0 0 2 ;</i>	<i>/*3267*/ 001. 1 0 0 0 ;</i>
<i>/*3274*/ 010. 1 0 0 0 2 ;</i>	<i>/*3274*/ 010. 1 0 0 0 ;</i>
<i>/*3286*/ 010. 1 0 0 0 3 ;</i>	<i>/*3286*/ 010. 1 0 0 0 ;</i>
<i>/*3290*/ 001. 1 0 0 0 2 ;</i>	<i>/*3290*/ 001. 1 0 0 0 ;</i>
<i>/*3298*/ 111. 1 0 0 0 3 ;</i>	<i>/*3298*/ 111. 1 0 0 0 ;</i>
<i>/*3301*/ 001. 1 0 0 0 3 ;</i>	<i>/*3301*/ 001. 1 0 0 0 ;</i>
<i>/*3305*/ 001. 1 0 0 0 2 ;</i>	<i>/*3305*/ 001. 1 0 0 0 ;</i>
<i>/*3335*/ 011. 1 0 0 0 2 ;</i>	<i>/*3335*/ 011. 1 0 0 0 ;</i>
<i>/*3393*/ 001. 1 0 0 0 3 ;</i>	<i>/*3393*/ 001. 1 0 0 0 ;</i>
<i>/*3395*/ 001. 1 0 0 0 3 ;</i>	<i>/*3395*/ 001. 1 0 0 0 ;</i>
<i>/*3405*/ 010. 1 0 0 0 3 ;</i>	<i>/*3405*/ 010. 1 0 0 0 ;</i>
<i>/*3420*/ 001. 1 0 0 0 1 ;</i>	<i>/*3420*/ 001. 1 0 0 0 ;</i>
<i>/*3448*/ 001. 1 0 0 0 3 ;</i>	<i>/*3448*/ 001. 1 0 0 0 ;</i>
<i>/*3451*/ 100. 1 0 0 0 3 ;</i>	<i>/*3451*/ 100. 1 0 0 0 ;</i>
<i>/*3497*/ 001. 1 0 0 0 2 ;</i>	<i>/*3497*/ 001. 1 0 0 0 ;</i>
<i>/*3515*/ 100. 1 0 0 0 1 ;</i>	<i>/*3515*/ 100. 1 0 0 0 ;</i>
<i>/*3521*/ 001. 1 0 0 0 3 ;</i>	<i>/*3521*/ 001. 1 0 0 0 ;</i>
<i>/*3524*/ 001. 1 0 0 0 1 ;</i>	<i>/*3524*/ 001. 1 0 0 0 ;</i>
<i>/*3526*/ 010. 1 0 0 0 2 ;</i>	<i>/*3526*/ 010. 1 0 0 0 ;</i>
<i>/*3528*/ 001. 1 0 0 0 2 ;</i>	<i>/*3528*/ 001. 1 0 0 0 ;</i>
<i>/*3541*/ 010. 1 0 0 0 3 ;</i>	<i>/*3541*/ 010. 1 0 0 0 ;</i>
<i>/*3545*/ 001. 1 0 0 0 2 ;</i>	<i>/*3545*/ 001. 1 0 0 0 ;</i>
<i>/*3559*/ 001. 1 0 0 0 2 ;</i>	<i>/*3559*/ 001. 1 0 0 0 ;</i>

/*3568*/ 010. 1 0 0 0 3 ;	/*3568*/ 010. 1 0 0 0 ;
/*3582*/ 001. 1 0 0 0 2 ;	/*3582*/ 001. 1 0 0 0 ;
/*3595*/ 001. 1 0 0 0 2 ;	/*3595*/ 001. 1 0 0 0 ;
/*3597*/ 100. 1 0 0 0 2 ;	/*3597*/ 100. 1 0 0 0 ;
/*3661*/ 001. 1 0 0 0 1 ;	/*3661*/ 001. 1 0 0 0 ;
/*3665*/ 001. 1 0 0 0 2 ;	/*3665*/ 001. 1 0 0 0 ;
/*3667*/ 010. 1 0 0 0 3 ;	/*3667*/ 010. 1 0 0 0 ;
/*3679*/ 011. 1 0 0 0 2 ;	/*3679*/ 011. 1 0 0 0 ;
/*3699*/ 001. 1 0 0 0 2 ;	/*3699*/ 001. 1 0 0 0 ;
/*401614*/ 011. 1 0 0 0 3 ;	/*401614*/ 011. 1 0 0 0 ;
/*401531*/ 101. 1 0 0 0 2 ;	/*401531*/ 101. 1 0 0 0 ;
/*401256*/ 010. 1 0 0 0 3 ;	/*401256*/ 010. 1 0 0 0 ;
/*401404*/ 100. 1 0 0 0 2 ;	/*401404*/ 100. 1 0 0 0 ;
/*401463*/ 110. 1 0 0 0 2 ;	/*401463*/ 110. 1 0 0 0 ;
/*401405*/ 100. 1 0 0 0 3 ;	/*401405*/ 100. 1 0 0 0 ;
/*401408*/ 100. 1 0 0 0 2 ;	/*401408*/ 100. 1 0 0 0 ;
/*401409*/ 100. 1 0 0 0 3 ;	/*401409*/ 100. 1 0 0 0 ;
/*401410*/ 100. 1 0 0 0 2 ;	/*401410*/ 100. 1 0 0 0 ;
/*401451*/ 110. 1 0 0 0 1 ;	/*401451*/ 110. 1 0 0 0 ;
/*401422*/ 100. 1 0 0 0 2 ;	/*401422*/ 100. 1 0 0 0 ;
/*401425*/ 010. 1 0 0 0 1 ;	/*401425*/ 010. 1 0 0 0 ;
/*401428*/ 010. 1 0 0 0 2 ;	/*401428*/ 010. 1 0 0 0 ;
/*401429*/ 010. 1 0 0 0 2 ;	/*401429*/ 010. 1 0 0 0 ;
/*401430*/ 010. 1 0 0 0 2 ;	/*401430*/ 010. 1 0 0 0 ;
/*401431*/ 010. 1 0 0 0 1 ;	/*401431*/ 010. 1 0 0 0 ;
/*401436*/ 010. 1 0 0 0 1 ;	/*401436*/ 010. 1 0 0 0 ;
/*401437*/ 010. 1 0 0 0 1 ;	/*401437*/ 010. 1 0 0 0 ;
/*401439*/ 010. 1 0 0 0 3 ;	/*401439*/ 010. 1 0 0 0 ;
/*401441*/ 010. 1 0 0 0 2 ;	/*401441*/ 010. 1 0 0 0 ;
/*401444*/ 010. 1 0 0 0 2 ;	/*401444*/ 010. 1 0 0 0 ;
/*401455*/ 010. 1 0 0 0 2 ;	/*401455*/ 010. 1 0 0 0 ;
/*401457*/ 010. 1 0 0 0 2 ;	/*401457*/ 010. 1 0 0 0 ;
/*401458*/ 010. 1 0 0 0 3 ;	/*401458*/ 010. 1 0 0 0 ;
/*401460*/ 010. 1 0 0 0 2 ;	/*401460*/ 010. 1 0 0 0 ;
/*401462*/ 010. 1 0 0 0 1 ;	/*401462*/ 010. 1 0 0 0 ;
/*401466*/ 010. 1 0 0 0 3 ;	/*401466*/ 010. 1 0 0 0 ;
/*401467*/ 010. 1 0 0 0 2 ;	/*401467*/ 010. 1 0 0 0 ;
/*401471*/ 010. 1 0 0 0 2 ;	/*401471*/ 010. 1 0 0 0 ;
/*401504*/ 010. 1 0 0 0 2 ;	/*401504*/ 010. 1 0 0 0 ;
/*401502*/ 010. 1 0 0 0 2 ;	/*401502*/ 010. 1 0 0 0 ;
/*401512*/ 010. 1 0 0 0 2 ;	/*401512*/ 010. 1 0 0 0 ;
/*401514*/ 010. 1 0 0 0 2 ;	/*401514*/ 010. 1 0 0 0 ;
/*401518*/ 010. 1 0 0 0 2 ;	/*401518*/ 010. 1 0 0 0 ;
/*401520*/ 010. 1 0 0 0 2 ;	/*401520*/ 010. 1 0 0 0 ;
/*401521*/ 010. 1 0 0 0 3 ;	/*401521*/ 010. 1 0 0 0 ;
/*401534*/ 001. 1 0 0 0 1 ;	/*401534*/ 001. 1 0 0 0 ;
/*401538*/ 001. 1 0 0 0 2 ;	/*401538*/ 001. 1 0 0 0 ;
/*401546*/ 011. 1 0 0 0 2 ;	/*401546*/ 011. 1 0 0 0 ;
/*401541*/ 001. 1 0 0 0 3 ;	/*401541*/ 001. 1 0 0 0 ;
/*401544*/ 001. 1 0 0 0 2 ;	/*401544*/ 001. 1 0 0 0 ;
/*401545*/ 001. 1 0 0 0 1 ;	/*401545*/ 001. 1 0 0 0 ;
/*401549*/ 001. 1 0 0 0 3 ;	/*401549*/ 001. 1 0 0 0 ;
/*401555*/ 001. 1 0 0 0 3 ;	/*401555*/ 001. 1 0 0 0 ;
/*401559*/ 001. 1 0 0 0 2 ;	/*401559*/ 001. 1 0 0 0 ;

/*401558*/ 001. 1 0 0 0 2 ;	/*401558*/ 001. 1 0 0 0 ;
/*401561*/ 001. 1 0 0 0 2 ;	/*401561*/ 001. 1 0 0 0 ;
/*401562*/ 001. 1 0 0 0 1 ;	/*401562*/ 001. 1 0 0 0 ;
/*401566*/ 001. 1 0 0 0 1 ;	/*401566*/ 001. 1 0 0 0 ;
/*401575*/ 001. 1 0 0 0 2 ;	/*401575*/ 001. 1 0 0 0 ;
/*401580*/ 001. 1 0 0 0 1 ;	/*401580*/ 001. 1 0 0 0 ;
/*401581*/ 001. 1 0 0 0 2 ;	/*401581*/ 001. 1 0 0 0 ;
/*401585*/ 001. 1 0 0 0 2 ;	/*401585*/ 001. 1 0 0 0 ;
/*401586*/ 001. 1 0 0 0 2 ;	/*401586*/ 001. 1 0 0 0 ;
/*401583*/ 001. 1 0 0 0 1 ;	/*401583*/ 001. 1 0 0 0 ;
/*401589*/ 001. 1 0 0 0 2 ;	/*401589*/ 001. 1 0 0 0 ;
/*401596*/ 001. 1 0 0 0 2 ;	/*401596*/ 001. 1 0 0 0 ;
/*401597*/ 001. 1 0 0 0 2 ;	/*401597*/ 001. 1 0 0 0 ;
/*401601*/ 001. 1 0 0 0 3 ;	/*401601*/ 001. 1 0 0 0 ;
/*401602*/ 001. 1 0 0 0 2 ;	/*401602*/ 001. 1 0 0 0 ;
/*401603*/ 001. 1 0 0 0 2 ;	/*401603*/ 001. 1 0 0 0 ;
/*401604*/ 001. 1 0 0 0 2 ;	/*401604*/ 001. 1 0 0 0 ;
/*401599*/ 001. 1 0 0 0 2 ;	/*401599*/ 001. 1 0 0 0 ;
/*401609*/ 001. 1 0 0 0 2 ;	/*401609*/ 001. 1 0 0 0 ;
/*401610*/ 001. 1 0 0 0 2 ;	/*401610*/ 001. 1 0 0 0 ;
/*401612*/ 001. 1 0 0 0 2 ;	/*401612*/ 001. 1 0 0 0 ;
/*401616*/ 001. 1 0 0 0 2 ;	/*401616*/ 001. 1 0 0 0 ;
/*401617*/ 001. 1 0 0 0 2 ;	/*401617*/ 001. 1 0 0 0 ;
/*3002*/ 0010 0 1 0 0 3 ;	/*3002*/ 0010 0 1 0 0 ;
/*3015*/ 1001 0 1 0 0 3 ;	/*3015*/ 1001 0 1 0 0 ;
/*3016*/ 1000 0 1 0 0 1 ;	/*3016*/ 1000 0 1 0 0 ;
/*3017*/ 1000 0 1 0 0 2 ;	/*3017*/ 1000 0 1 0 0 ;
/*3018*/ 0010 0 1 0 0 2 ;	/*3018*/ 0010 0 1 0 0 ;
/*3019*/ 0001 0 1 0 0 2 ;	/*3019*/ 0001 0 1 0 0 ;
/*3020*/ 0001 0 1 0 0 1 ;	/*3020*/ 0001 0 1 0 0 ;
/*3025*/ 0010 0 1 0 0 2 ;	/*3025*/ 0010 0 1 0 0 ;
/*3030*/ 0001 0 1 0 0 3 ;	/*3030*/ 0001 0 1 0 0 ;
/*3031*/ 1000 0 1 0 0 3 ;	/*3031*/ 1000 0 1 0 0 ;
/*3032*/ 0010 0 1 0 0 3 ;	/*3032*/ 0010 0 1 0 0 ;
/*3033*/ 0001 0 1 0 0 3 ;	/*3033*/ 0001 0 1 0 0 ;
/*3040*/ 1000 0 1 0 0 2 ;	/*3040*/ 1000 0 1 0 0 ;
/*3041*/ 0001 0 1 0 0 2 ;	/*3041*/ 0001 0 1 0 0 ;
/*3043*/ 1000 0 1 0 0 3 ;	/*3043*/ 1000 0 1 0 0 ;
/*3047*/ 0100 0 1 0 0 3 ;	/*3047*/ 0100 0 1 0 0 ;
/*3049*/ 0100 0 1 0 0 3 ;	/*3049*/ 0100 0 1 0 0 ;
/*3050*/ 0001 0 1 0 0 3 ;	/*3050*/ 0001 0 1 0 0 ;
/*3052*/ 0010 0 1 0 0 2 ;	/*3052*/ 0010 0 1 0 0 ;
/*3054*/ 0001 0 1 0 0 3 ;	/*3054*/ 0001 0 1 0 0 ;
/*3057*/ 0100 0 1 0 0 2 ;	/*3057*/ 0100 0 1 0 0 ;
/*3060*/ 0001 0 1 0 0 2 ;	/*3060*/ 0001 0 1 0 0 ;
/*3062*/ 0100 0 1 0 0 3 ;	/*3062*/ 0100 0 1 0 0 ;
/*3064*/ 0011 0 1 0 0 3 ;	/*3064*/ 0011 0 1 0 0 ;
/*3072*/ 0001 0 1 0 0 3 ;	/*3072*/ 0001 0 1 0 0 ;
/*3073*/ 0010 0 1 0 0 3 ;	/*3073*/ 0010 0 1 0 0 ;
/*3074*/ 1001 0 1 0 0 3 ;	/*3074*/ 1001 0 1 0 0 ;
/*3075*/ 0100 0 1 0 0 3 ;	/*3075*/ 0100 0 1 0 0 ;
/*3076*/ 0100 0 1 0 0 2 ;	/*3076*/ 0100 0 1 0 0 ;
/*3077*/ 0010 0 1 0 0 3 ;	/*3077*/ 0010 0 1 0 0 ;
/*3079*/ 1000 0 1 0 0 3 ;	/*3079*/ 1000 0 1 0 0 ;

/*3080*/ 0010 0 1 0 0 2 ;	/*3080*/ 0010 0 1 0 0 ;
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/*3088*/ 0100 0 1 0 0 2 ;	/*3088*/ 0100 0 1 0 0 ;
/*3089*/ 0010 0 1 0 0 2 ;	/*3089*/ 0010 0 1 0 0 ;
/*3090*/ 0001 0 1 0 0 2 ;	/*3090*/ 0001 0 1 0 0 ;
/*3091*/ 0001 0 1 0 0 2 ;	/*3091*/ 0001 0 1 0 0 ;
/*3093*/ 0001 0 1 0 0 3 ;	/*3093*/ 0001 0 1 0 0 ;
/*3094*/ 1000 0 1 1 1 2 ;	/*3094*/ 1000 0 1 1 1 ;
/*3095*/ 0011 0 1 0 0 3 ;	/*3095*/ 0011 0 1 0 0 ;
/*3096*/ 1000 0 1 0 0 3 ;	/*3096*/ 1000 0 1 0 0 ;
/*3115*/ 1001 0 1 0 0 3 ;	/*3115*/ 1001 0 1 0 0 ;
/*3116*/ 1000 0 1 0 0 3 ;	/*3116*/ 1000 0 1 0 0 ;
/*3127*/ 0100 0 1 0 0 2 ;	/*3127*/ 0100 0 1 0 0 ;
/*3133*/ 1000 0 1 0 0 2 ;	/*3133*/ 1000 0 1 0 0 ;
/*3145*/ 0100 0 1 0 0 3 ;	/*3145*/ 0100 0 1 0 0 ;
/*3147*/ 0001 0 1 0 0 2 ;	/*3147*/ 0001 0 1 0 0 ;
/*3148*/ 0001 0 1 0 0 2 ;	/*3148*/ 0001 0 1 0 0 ;
/*3162*/ 0010 0 1 0 0 2 ;	/*3162*/ 0010 0 1 0 0 ;
/*3164*/ 0001 0 1 0 0 2 ;	/*3164*/ 0001 0 1 0 0 ;
/*3165*/ 0001 0 1 0 0 2 ;	/*3165*/ 0001 0 1 0 0 ;
/*3168*/ 0100 0 1 0 0 2 ;	/*3168*/ 0100 0 1 0 0 ;
/*3170*/ 0001 0 1 0 0 3 ;	/*3170*/ 0001 0 1 0 0 ;
/*3173*/ 0010 0 1 0 0 3 ;	/*3173*/ 0010 0 1 0 0 ;
/*3174*/ 0001 0 1 0 0 3 ;	/*3174*/ 0001 0 1 0 0 ;
/*3178*/ 0001 0 1 0 0 2 ;	/*3178*/ 0001 0 1 0 0 ;
/*3179*/ 0001 0 1 0 0 3 ;	/*3179*/ 0001 0 1 0 0 ;
/*3180*/ 0001 0 1 0 0 3 ;	/*3180*/ 0001 0 1 0 0 ;
/*3181*/ 0001 0 1 0 0 3 ;	/*3181*/ 0001 0 1 0 0 ;
/*3182*/ 0010 0 1 0 0 3 ;	/*3182*/ 0010 0 1 0 0 ;
/*3183*/ 0010 0 1 0 0 1 ;	/*3183*/ 0010 0 1 0 0 ;
/*3184*/ 0010 0 1 0 0 2 ;	/*3184*/ 0010 0 1 0 0 ;
/*3185*/ 0001 0 1 0 0 2 ;	/*3185*/ 0001 0 1 0 0 ;
/*3187*/ 0010 0 1 0 0 2 ;	/*3187*/ 0010 0 1 0 0 ;
/*3190*/ 0110 0 1 0 0 2 ;	/*3190*/ 0110 0 1 0 0 ;
/*3195*/ 0010 0 1 0 0 3 ;	/*3195*/ 0010 0 1 0 0 ;
/*3197*/ 1000 0 1 0 0 2 ;	/*3197*/ 1000 0 1 0 0 ;
/*3201*/ 0001 0 1 0 0 3 ;	/*3201*/ 0001 0 1 0 0 ;
/*3202*/ 0100 0 1 0 0 3 ;	/*3202*/ 0100 0 1 0 0 ;
/*3211*/ 1100 0 1 0 0 2 ;	/*3211*/ 1100 0 1 0 0 ;
/*3213*/ 1000 0 1 0 0 1 ;	/*3213*/ 1000 0 1 0 0 ;
/*3215*/ 0001 0 1 0 0 2 ;	/*3215*/ 0001 0 1 0 0 ;
/*3217*/ 0010 0 1 0 0 3 ;	/*3217*/ 0010 0 1 0 0 ;
/*3218*/ 0001 0 1 0 0 2 ;	/*3218*/ 0001 0 1 0 0 ;
/*3219*/ 1000 0 1 0 0 2 ;	/*3219*/ 1000 0 1 0 0 ;
/*3220*/ 0100 0 1 0 0 2 ;	/*3220*/ 0100 0 1 0 0 ;
/*3222*/ 0001 0 1 0 0 2 ;	/*3222*/ 0001 0 1 0 0 ;
/*3223*/ 1000 0 1 0 0 3 ;	/*3223*/ 1000 0 1 0 0 ;
/*3224*/ 0101 0 1 0 0 3 ;	/*3224*/ 0101 0 1 0 0 ;
/*3225*/ 0001 0 1 0 0 3 ;	/*3225*/ 0001 0 1 0 0 ;
/*3226*/ 0001 0 1 0 0 2 ;	/*3226*/ 0001 0 1 0 0 ;
/*3227*/ 0100 0 1 0 0 2 ;	/*3227*/ 0100 0 1 0 0 ;
/*3228*/ 0100 0 1 0 0 3 ;	/*3228*/ 0100 0 1 0 0 ;
/*3229*/ 0100 0 1 0 0 2 ;	/*3229*/ 0100 0 1 0 0 ;

/*3230*/ 0001 0 1 0 0 2 ;	/*3230*/ 0001 0 1 0 0 ;
/*3231*/ 0001 0 1 0 0 2 ;	/*3231*/ 0001 0 1 0 0 ;
/*3233*/ 0001 0 1 0 0 3 ;	/*3233*/ 0001 0 1 0 0 ;
/*3234*/ 0010 0 1 0 0 3 ;	/*3234*/ 0010 0 1 0 0 ;
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/*3678*/ .01. 0 0 0 1 2 ;	/*3678*/ .01. 0 0 0 1 ;
/*3689*/ .01. 0 0 0 1 3 ;	/*3689*/ .01. 0 0 0 1 ;

Appendix B2.2. All GIS raster values (CHLOROPHYLL-a (CHLA), DEPTH, SLOPE, LONGITUDE (LONG), and LATITUDE (LAT) for whale sightings (1) and random points (0).

WHALE	CHLA(mg m ⁻³)	DEPTH (m)	SLOPE (°)	LONG	LAT
1	1.2520	-5445.5560	6.9758	-164.9296	52.1801
1	1.2520	-5445.5560	6.9758	-164.9296	52.1801
1	1.1150	-5653.3000	5.6651	-164.8581	52.2538
1	1.0890	-4218.2460	2.9570	-166.1378	52.7751
1	1.0710	-4376.4810	2.6559	-166.0745	52.8095
1	1.0710	-4371.7190	0.9912	-166.0873	52.8403
1	1.2300	-4343.6590	1.9968	-166.1123	52.8938
1	1.4330	-3443.4500	6.8040	-166.5730	52.9336
1	0.8510	-4140.6170	1.3249	-165.8183	53.0265
1	1.4330	-3243.7920	10.9368	-166.5821	52.9410
1	0.9890	-3474.0590	8.8823	-166.5398	52.9498
1	0.9890	-3474.0590	8.8823	-166.5398	52.9498
1	0.8840	-4122.7870	5.1146	-165.7311	53.0623
1	1.0670	-3329.5790	9.5416	-166.5248	52.9803
1	1.0540	-2512.6910	11.0951	-166.5155	53.0740
1	1.0540	-2512.6910	11.0951	-166.5155	53.0740
1	1.2380	-1789.2450	2.2932	-166.7081	53.0628
1	1.2380	-1789.2450	2.2932	-166.7081	53.0628
1	0.9690	-2160.7000	10.9273	-166.4946	53.1135
1	1.0020	-1534.5390	8.4698	-166.6443	53.1148
1	0.9490	-1291.4990	14.7810	-166.5441	53.1313
1	0.5810	-649.7416	4.3483	-167.5196	53.6988
1	0.9500	-1480.4670	2.7025	-167.7345	53.8035
1	0.0000	-148.3692	1.2132	-166.4985	54.0556
1	0.0000	-148.3692	1.2132	-166.4985	54.0556
1	0.6980	-144.5708	6.7686	-166.3000	54.0881
1	0.5780	-1319.2690	1.7598	-167.5028	53.9493
1	0.0000	-323.8493	11.7376	-166.7966	54.0383
1	0.0000	-123.6946	2.6699	-166.4650	54.0916
1	0.6630	-119.4672	2.0475	-166.3100	54.1650
1	1.7410	-1008.7970	2.6460	-166.5961	54.2755
1	1.5180	-1026.9020	4.5253	-166.5050	54.2881
1	0.8680	-123.1917	1.7422	-165.7485	54.3721
1	1.1260	-1089.9110	3.5472	-166.6885	54.2715
1	1.4540	-687.3733	2.2778	-166.7400	54.3550
1	0.6800	-264.5038	1.8263	-165.6346	54.5098
0	1.1230	0.0000	0.0000	-165.2290	51.9591
0	1.1480	0.0000	0.0000	-165.2847	51.9971
0	1.1230	-5010.1590	0.4412	-165.1224	52.0247
0	1.1460	-5107.1120	2.5451	-165.2745	52.0328
0	1.1460	-5107.1120	2.5451	-165.2713	52.0343
0	1.2490	-5416.7920	5.1152	-165.1896	52.1023
0	1.2470	-5073.5870	2.7287	-164.7907	52.1645
0	0.7170	-6440.7550	4.8246	-166.7181	52.0489
0	1.2790	-5415.9520	4.6015	-164.7469	52.3019
0	1.0030	-6034.6950	2.2632	-167.5616	52.0116
0	0.0000	-6247.1740	6.8977	-167.2492	52.0855
0	0.6500	-5607.8350	5.0952	-164.5326	52.4010
0	0.0000	-5820.4940	10.9339	-167.2583	52.1046

0	0.0000	-5386.3350	10.3170	-167.4285	52.1048
0	0.5690	-5747.5830	4.0337	-164.3754	52.4733
0	0.5380	-5939.7700	5.9374	-164.4511	52.4813
0	0.6630	-6183.5430	8.5012	-164.6063	52.4714
0	0.0000	-4837.6050	3.8732	-167.2540	52.1750
0	0.0000	-4837.8910	6.7939	-167.0701	52.2163
0	0.5680	-6131.4920	3.0961	-164.4322	52.5534
0	0.4500	-5055.2710	6.9220	-166.9501	52.2817
0	0.4210	-4793.9580	4.4159	-166.9746	52.3123
0	0.6220	-6910.3060	3.7664	-164.4463	52.6669
0	0.8370	-3737.7520	5.4214	-166.9602	52.4516
0	0.9510	-4449.6740	1.6219	-166.1436	52.5949
0	0.7070	-3633.3440	3.4997	-166.8009	52.5257
0	0.0000	-6955.2370	5.3541	-164.0783	52.8201
0	0.4690	-3831.0880	7.7365	-166.7263	52.5701
0	0.9650	-4101.9960	1.0207	-166.5247	52.5942
0	0.0000	-4170.9250	1.6972	-166.3199	52.6531
0	0.0000	-3913.2270	1.1574	-166.5953	52.6302
0	0.0000	-4171.0500	1.6954	-166.3143	52.6732
0	0.0000	-2158.9200	7.2762	-169.7549	52.2792
0	0.0000	-4058.1000	0.6059	-166.7015	52.7044
0	0.9860	-4034.4540	0.1010	-166.7907	52.7165
0	1.1330	-4042.5210	0.4690	-166.7309	52.7362
0	1.0010	-1643.9240	2.7946	-169.9982	52.3044
0	0.9610	-1468.6090	10.0323	-169.9375	52.3580
0	1.1130	-4031.8860	1.4416	-166.7919	52.7861
0	0.6360	-771.0314	7.0191	-169.7979	52.3904
0	0.0000	-3979.4620	1.9747	-166.6349	52.8346
0	1.6590	-4142.9420	1.8610	-166.4618	52.8763
0	1.2080	-4272.6900	2.7127	-166.0724	52.9280
0	0.0000	-3973.6210	4.0684	-166.7096	52.8571
0	0.5740	-365.7708	7.4960	-169.7595	52.4563
0	1.1110	-3953.8050	4.9665	-166.7795	52.8830
0	1.0850	-4001.8810	1.9635	-165.5041	53.0729
0	0.8510	-4137.1130	4.9522	-165.7846	53.0478
0	0.9340	-4150.9180	2.2725	-165.7059	53.0716
0	1.0670	-3136.6130	10.0849	-166.5379	52.9950
0	1.0390	-3776.5060	9.7243	-165.8570	53.0822
0	1.0890	-3833.7910	9.8528	-165.5623	53.1253
0	1.1970	-2576.2140	13.2608	-166.7391	52.9988
0	1.0010	-3707.1210	6.3661	-165.7444	53.1351
0	0.8570	-140.3059	1.0253	-169.3893	52.7269
0	0.9710	-3043.1410	5.4572	-165.6973	53.1966
0	0.5350	-254.3421	1.2741	-169.4870	52.7738
0	0.9940	-716.5551	5.0152	-166.5815	53.1812
0	1.0160	-107.0791	0.7636	-166.6203	53.3301
0	1.1280	-84.6812	1.2953	-166.5452	53.3411
0	0.4880	-739.1553	2.8642	-169.1460	53.0467
0	0.3750	-613.0383	2.2183	-169.4430	53.0122
0	1.2420	-45.1696	0.5243	-166.4933	53.4277
0	0.0000	-27.0773	1.5660	-166.7226	53.4886
0	1.1810	-110.8944	1.4362	-165.7200	53.6042
0	2.5190	-94.0901	0.7662	-165.5788	53.6399
0	3.4250	-108.9025	0.7094	-165.5447	53.6618

0	1.2740	-82.1255	0.2654	-165.8245	53.6376
0	3.4830	-10.1392	0.7267	-166.5354	53.5727
0	0.5870	-670.7225	6.8269	-168.7985	53.3109
0	1.4600	-39.1740	0.5844	-166.2400	53.6421
0	0.3640	-573.0540	3.8863	-169.0059	53.2999
0	0.5100	-1003.7030	5.1524	-168.8106	53.3445
0	0.7060	-107.1600	1.2709	-168.6358	53.3773
0	2.2730	-77.8431	0.1999	-165.6657	53.7791
0	0.9840	-52.3848	0.5134	-166.0667	53.7416
0	0.8130	-89.8369	4.2447	-168.3784	53.4745
0	0.6290	-442.7273	4.4159	-167.8633	53.6136
0	0.9570	-112.6690	0.6223	-165.8757	53.8482
0	0.5150	-857.0535	5.1407	-168.5097	53.5422
0	1.5230	-68.8952	0.2240	-165.7569	53.8832
0	1.5230	-67.8252	0.2820	-165.7308	53.9073
0	0.6890	-934.1187	4.8827	-167.9123	53.6590
0	0.6980	-890.9033	5.2590	-168.0547	53.6543
0	0.4890	-536.3208	5.4518	-167.4235	53.7347
0	0.7640	-970.6479	4.3878	-168.2461	53.6450
0	0.6780	-1078.7890	5.3181	-168.0089	53.6902
0	0.8930	-1340.5490	10.0577	-167.6627	53.7645
0	0.6780	-1204.0970	2.4599	-167.9581	53.7296
0	0.8930	-1068.4050	5.3310	-167.6214	53.8015
0	0.8040	-105.0796	1.5634	-165.9517	54.0030
0	0.7730	-59.7558	2.4276	-165.9164	54.0151
0	0.0000	-8.5167	0.7367	-167.1137	53.8835
0	0.0000	-32.0109	0.7766	-166.2826	53.9908
0	0.7270	-1526.2720	6.9235	-167.6852	53.8318
0	0.0000	-37.3590	1.1111	-166.3019	54.0031
0	0.0000	-4.5522	0.5995	-166.3532	53.9999
0	0.6800	-1660.1570	2.1169	-167.8151	53.8525
0	0.5100	-1043.4990	3.4224	-167.3272	53.9168
0	0.6800	-1660.1570	2.1169	-167.8298	53.8633
0	0.0000	-307.0504	5.4993	-167.1004	53.9657
0	0.5490	-887.9408	6.3945	-167.2209	53.9586
0	0.0000	-104.5455	1.0356	-166.5864	54.0397
0	0.5030	-1054.6750	3.1686	-167.3149	53.9635
0	0.5340	-1778.7820	2.8704	-167.7407	53.9192
0	0.0000	-384.3906	7.1289	-166.6521	54.0521
0	0.0000	-350.8459	15.1577	-166.8161	54.0400
0	0.0000	-62.1618	1.8224	-165.7478	54.1927
0	0.0000	-806.1213	11.2173	-166.7618	54.0878
0	0.0000	-81.5167	1.1947	-166.1476	54.1630
0	0.6930	-1121.9250	18.1997	-167.9664	53.9730
0	0.6930	-720.4578	18.9530	-168.0077	53.9737
0	0.6630	-163.6577	2.8701	-166.2762	54.1803
0	1.0920	-551.8261	3.4226	-166.2216	54.2520
0	0.8570	-800.6567	3.6243	-166.3716	54.2413
0	1.0920	-628.7866	2.9693	-166.2914	54.2513
0	1.1260	-977.0370	3.7751	-166.7473	54.2890
0	0.0000	-809.9028	3.5981	-166.6298	54.3206
0	0.0000	-169.7838	1.6900	-165.6238	54.4353
0	0.0000	-179.1951	2.8635	-165.5886	54.5194
1	0.0000	-3.5554	0.1280	-166.5720	53.9323

1	0.0000	-3.5554	0.1280	-166.5803	53.9425
1	0.0000	-2.4401	0.2872	-166.5675	53.9461
1	0.0000	-113.0761	2.6571	-166.4981	53.9601
1	0.0000	-113.0761	2.6571	-166.4981	53.9601
1	0.0000	-68.4468	2.8235	-166.5248	53.9575
1	0.0000	-113.0761	2.6571	-166.5058	53.9623
1	0.0000	-95.0178	2.3786	-166.4945	53.9662
1	0.0000	-127.6694	2.1925	-166.4980	53.9710
1	0.0000	-141.4145	1.1093	-166.5226	53.9750
1	0.0000	-87.4827	2.6589	-166.5333	53.9750
1	0.0000	-266.3865	12.8590	-166.4521	53.9956
1	0.0000	-352.1448	6.7011	-166.4608	53.9993
1	0.0000	-373.9712	19.6736	-166.3680	54.0376
1	0.0000	-373.9712	19.6736	-166.3633	54.0416
1	0.0000	-8.1581	0.6438	-166.7210	54.0081
1	0.6170	-55.4167	3.0144	-166.4026	54.0558
1	0.0000	-55.0948	1.1393	-166.6946	54.0245
1	0.6080	-131.9682	1.5123	-166.5653	54.0531
1	0.6080	-131.9682	1.5123	-166.5615	54.0543
1	0.6080	-104.5455	1.0356	-166.5793	54.0540
1	0.5540	-108.8547	1.1534	-166.5651	54.0566
1	0.5320	-81.7537	1.4952	-166.4120	54.0798
1	0.6080	-93.1109	0.7733	-166.5878	54.0608
1	0.0000	-123.6946	2.6699	-166.4545	54.0853
1	0.5180	-95.4140	0.9183	-166.5470	54.0776
1	0.5550	-115.0243	2.0431	-166.5030	54.0856
1	0.5540	-92.0003	1.2626	-166.5928	54.0766
1	0.5540	-295.3224	10.5469	-166.6105	54.0898
1	0.0000	-117.1529	2.1616	-166.1091	54.2066
1	0.0000	-111.2784	1.5435	-165.8491	54.2838
1	0.0000	-401.9908	6.5339	-166.1390	54.2590
1	0.0000	-144.4473	2.2807	-165.7613	54.3691
1	0.0000	-203.5411	3.0866	-165.7546	54.3828
1	0.0000	-203.5411	3.0866	-165.7576	54.3831
1	0.0000	-249.0757	4.3705	-165.7780	54.3826
1	0.0000	-203.5411	3.0866	-165.7711	54.3881
1	0.0000	-203.5411	3.0866	-165.7656	54.3921
1	0.9420	-316.9368	3.3480	-165.7806	54.3966
1	0.0000	-165.8617	2.2459	-165.6448	54.4125
1	0.0000	-169.7838	1.6900	-165.6130	54.4271
1	0.4660	-159.6542	0.3511	-165.2825	54.4693
1	0.0000	-113.0160	0.7929	-165.5681	54.4486
1	0.0000	-159.6542	0.3511	-165.2840	54.4796
1	0.0000	-154.6716	0.3555	-165.2850	54.4879
1	0.4610	-151.8971	0.4786	-165.2611	54.5067
1	0.0000	-141.7328	0.3491	-165.2476	54.5159
0	0.0000	-32.0109	0.7766	-166.2826	53.9908
0	0.0000	-37.3590	1.1111	-166.3019	54.0031
0	0.0000	-4.5522	0.5995	-166.3532	53.9999
0	0.6080	-104.5455	1.0356	-166.5864	54.0397
0	0.0000	-384.3906	7.1289	-166.6521	54.0521
0	0.5400	-350.8459	15.1577	-166.8161	54.0400
0	0.0000	-97.6605	1.0850	-165.7097	54.1920
0	0.6130	-94.5004	0.2216	-164.1552	54.3442

0	0.7440	-103.6919	0.1413	-164.0657	54.3550
0	0.0000	-62.1618	1.8224	-165.7478	54.1927
0	0.9520	-88.9869	0.2871	-164.4590	54.3238
0	0.5640	-806.1213	11.2173	-166.7618	54.0878
0	0.9520	-88.2510	0.1333	-164.4551	54.3300
0	0.0000	-81.5167	1.1947	-166.1476	54.1630
0	0.0000	-163.6577	2.8701	-166.2762	54.1803
0	0.5370	-63.2554	0.1280	-164.8230	54.3365
0	0.0000	0.0000	0.0000	-165.9487	54.2250
0	0.9090	-71.4426	0.1709	-164.7384	54.3515
0	0.6110	-79.9049	1.1242	-165.4104	54.3006
0	0.0000	-245.1674	2.9842	-165.9190	54.2842
0	0.0000	-551.8261	3.4226	-166.2216	54.2520
0	0.0000	-628.7866	2.9693	-166.2914	54.2513
0	0.0000	-47.2889	1.3821	-165.4846	54.3376
0	0.0000	-52.1551	1.2166	-164.8929	54.4017
0	0.2450	-338.3309	7.6616	-166.0521	54.2837
0	0.2900	-529.8088	4.4702	-166.1271	54.2820
0	0.5200	-98.1477	0.8426	-165.0928	54.4761
0	0.6090	-76.3166	0.3990	-165.0438	54.4820
0	0.0000	-169.7838	1.6900	-165.6238	54.4353
0	0.0000	-144.1466	0.2776	-165.3662	54.4906
0	0.5200	-101.8196	1.0970	-165.1634	54.5172
0	0.0000	-140.1380	0.4363	-165.2946	54.5337
0	0.0000	-115.2747	0.8507	-165.2614	54.5776
0	0.0000	-115.7232	1.1709	-165.3101	54.5764
0	0.4520	-116.0189	0.5312	-165.3350	54.6552
0	0.4520	-157.0799	0.6182	-165.3655	54.6755
0	0.0000	-229.4705	0.5170	-165.4902	54.7499
0	0.0000	-190.2949	0.4232	-165.4503	54.7944
1	0.0000	-51.1463	0.7412	-165.8201	54.2226
1	0.0000	-186.7648	0.1740	-165.2800	54.3166
1	0.0000	-117.5453	2.1591	-165.9733	54.2500
1	0.0000	-124.6096	1.5691	-165.3550	54.3266
1	0.0000	-139.1771	1.3226	-165.2866	54.3600
1	0.0000	-109.1057	1.0152	-165.6900	54.3800
1	0.0000	-165.8617	2.2459	-165.6583	54.4116
1	0.0000	-138.8838	1.8883	-165.6166	54.4200
1	0.0000	-138.8838	1.8883	-165.6366	54.4200
1	0.0000	-215.0695	2.4578	-165.6633	54.4250
1	0.0000	-256.7298	2.4311	-165.6783	54.4250
1	0.0000	-215.0695	2.4578	-165.6646	54.4328
1	0.0000	-113.0160	0.7929	-165.5666	54.4533
1	0.6260	-135.8537	0.0997	-166.3816	55.0833
0	0.0000	-104.5455	1.0356	-166.5864	54.0397
0	0.0000	-62.1618	1.8224	-165.7478	54.1927
0	0.0000	-81.5167	1.1947	-166.1476	54.1630
0	0.0000	0.0000	0.0000	-165.9487	54.2250
0	0.0000	-79.9049	1.1242	-165.4104	54.3006
0	0.0000	-245.1674	2.9842	-165.9190	54.2842
0	1.8900	-800.6567	3.6243	-166.3716	54.2413
0	0.0000	-47.2889	1.3821	-165.4846	54.3376
0	0.0000	-98.1477	0.8426	-165.0928	54.4761
0	0.0000	-76.3166	0.3990	-165.0438	54.4820

0	0.0000	-757.6241	4.7612	-166.4160	54.3389
0	0.0000	-169.7838	1.6900	-165.6238	54.4353
0	0.0000	-619.3363	3.5671	-166.4248	54.3698
0	0.0000	-570.9766	1.0269	-165.9898	54.4323
0	0.0000	-512.7695	0.6785	-166.3370	54.4759
0	0.9910	-491.4316	0.4584	-166.1319	54.5010
0	0.0000	-3.1118	0.0000	-164.8460	54.6325
0	0.0000	-439.5792	0.9859	-166.2413	54.5608
0	0.8440	-386.6610	0.9346	-166.0275	54.6146
0	0.0000	-318.4625	0.6044	-166.2383	54.6675
0	0.0000	0.0000	0.0000	-164.1245	54.9611
0	0.0000	-250.7924	0.4444	-166.4388	54.7386
0	0.0000	-229.6112	0.4728	-166.4110	54.7601
0	0.0000	-224.6698	0.1748	-166.4053	54.7753
0	0.0000	-17.7936	0.3460	-164.0279	55.0261
0	0.7880	-165.0112	0.1817	-166.4134	54.8681
0	0.5500	-137.9984	0.2125	-166.3292	54.9824
0	0.6500	-142.9688	0.1522	-166.4241	55.0235
0	0.7160	-139.9626	0.1185	-166.6515	55.0696
0	0.7470	-133.2780	0.0536	-166.3953	55.1068
0	0.6310	-144.8201	0.1046	-166.6282	55.1042
0	0.8150	-145.6435	0.1019	-166.7944	55.1152
0	0.6040	-137.8554	0.0654	-166.7513	55.1876
1	0.0000	-7.9322	0.5932	-166.5216	53.9483
1	0.0000	-2.3270	0.0989	-166.5632	53.9529
1	0.0000	-96.8944	7.1991	-166.4030	54.0489
1	0.0000	-114.0846	2.7345	-166.4743	54.0898
1	0.0000	-132.5969	1.4686	-166.5000	54.0883
1	0.0000	-132.5969	1.4686	-166.5200	54.0933
1	0.0000	-132.5969	1.4686	-166.5216	54.1033
1	0.0000	-133.4771	3.6264	-166.4100	54.1200
1	0.0000	-346.1961	6.1466	-166.3698	54.1460
1	0.0000	-259.4091	8.3573	-166.5633	54.1333
1	0.0000	-761.3676	7.0374	-166.3936	54.1838
1	0.0000	-145.2619	1.4330	-166.1733	54.2200
1	0.0000	-144.0389	4.5786	-166.0733	54.2350
1	0.0000	-277.6962	2.6733	-165.9666	54.2950
1	0.0000	-167.7260	1.5015	-165.8916	54.3300
1	0.0000	-169.5942	2.2016	-165.7315	54.4268
0	2.2350	-122.3643	1.3862	-166.5864	54.0397
0	2.2350	-86.3049	3.0463	-166.6521	54.0521
0	0.0000	-20.4613	0.8443	-165.7478	54.1927
0	0.0000	-79.9751	0.9360	-166.1476	54.1630
0	0.0000	-299.2604	5.3037	-166.2762	54.1803
0	0.0000	-50.4031	1.6663	-165.9487	54.2250
0	0.0000	-109.4023	2.1657	-165.9190	54.2842
0	0.0000	-309.8495	6.3679	-166.0521	54.2837
1	0.0000	-133.4771	3.6264	-166.3990	54.1113
1	0.8800	-41.3652	2.3336	-166.0205	54.2190
1	0.6810	-194.1164	3.9743	-166.2133	54.1996
1	0.8800	-144.0389	4.5786	-166.0823	54.2310
1	0.6880	-109.4023	2.1657	-165.8855	54.2651
1	0.6880	-109.4023	2.1657	-165.9215	54.2765
1	0.0000	-70.9474	0.9544	-165.7090	54.3510

1	0.4870	-177.9648	1.8624	-165.8538	54.3601
1	0.0000	-264.0160	3.5422	-165.7291	54.3955
1	0.0000	-169.5942	2.2016	-165.6858	54.4145
1	0.0000	-264.0160	3.5422	-165.7558	54.4080
1	0.4310	-136.1037	1.7531	-165.6328	54.4331
1	0.0000	-266.2848	1.8140	-165.6761	54.4403
0	1.6400	-895.8119	3.3655	-166.5815	53.1812
0	1.3310	-158.5543	1.1522	-166.5452	53.3411
0	1.3880	-63.6045	1.3475	-166.5354	53.5727
0	0.0000	-17.3989	0.7142	-166.2826	53.9908
0	0.0000	-17.3989	0.7142	-166.3019	54.0031
0	0.0000	-6.5280	0.3824	-166.3532	53.9999
0	0.0000	-60.8077	1.3258	-165.7097	54.1920
0	0.0000	-20.4613	0.8443	-165.7478	54.1927
0	0.0000	-79.9751	0.9360	-166.1476	54.1630
0	0.0000	-299.2604	5.3037	-166.2762	54.1803
0	0.0000	-50.4031	1.6663	-165.9487	54.2250
0	0.6880	-109.4023	2.1657	-165.9190	54.2842
0	0.0000	-309.8495	6.3679	-166.0521	54.2837
0	0.4310	-136.1037	1.7531	-165.6238	54.4353
1	0.0000	-4.0066	0.1917	-166.6061	53.8892
1	0.0000	-1.8011	0.0186	-166.5946	53.8935
1	0.0000	-4.0066	0.1917	-166.6087	53.8944
1	0.0000	-6.4091	0.1494	-166.6092	53.9033
1	0.0000	-6.4091	0.1494	-166.6066	53.9037
1	0.0000	-1.9972	0.0484	-166.6039	53.9147
1	0.0000	-1.9972	0.0484	-166.5913	53.9186
1	0.0000	-1.5054	0.1579	-166.5962	53.9215
1	0.0000	-1.5054	0.1579	-166.6084	53.9226
1	0.0000	-1.5054	0.1579	-166.5954	53.9278
1	0.0000	-3.5554	0.1280	-166.5835	53.9304
1	0.0000	-1.5054	0.1579	-166.5999	53.9287
1	0.0000	-1.5054	0.1579	-166.6070	53.9319
1	0.0000	-3.5554	0.1280	-166.5724	53.9371
1	1.0500	-50.3697	1.3627	-166.5089	53.9443
1	1.0500	-50.3697	1.3627	-166.5080	53.9472
1	1.0500	-113.0761	2.6571	-166.5043	53.9497
1	0.0000	-2.4401	0.2872	-166.5681	53.9482
1	0.0000	-23.2643	1.5417	-166.5563	53.9507
1	0.0000	-23.2643	1.5417	-166.5547	53.9557
1	0.0000	-1.5129	0.3518	-166.5936	53.9546
1	0.0000	-1.5129	0.3518	-166.5960	53.9551
1	0.0000	-26.6087	1.8132	-166.5575	53.9604
1	0.0000	-64.4685	3.8677	-166.4694	53.9783
1	1.0500	-127.6694	2.1925	-166.5009	53.9770
1	0.0000	-26.6087	1.8132	-166.5462	53.9748
1	0.0000	-26.6087	1.8132	-166.5616	53.9758
1	0.9920	-20.9217	1.5277	-166.5563	53.9799
1	0.9920	-20.9217	1.5277	-166.5529	53.9816
1	0.0000	-409.2851	7.2775	-166.4534	54.0074
1	0.9560	-140.4326	2.4231	-166.5353	54.0101
1	0.0000	-90.2108	2.7713	-166.5837	54.0241
1	0.0000	-52.5675	2.6253	-166.5870	54.0289
1	0.0000	-112.2621	1.9486	-166.5743	54.0314

1	0.9560	-170.9806	1.6907	-166.5349	54.0398
1	0.0000	-112.2621	1.9486	-166.5874	54.0418
1	0.6310	-104.5455	1.0356	-166.5864	54.0483
1	0.6310	-104.5455	1.0356	-166.5652	54.0513
1	0.6310	-104.5455	1.0356	-166.5875	54.0547
1	0.6310	-104.5455	1.0356	-166.5885	54.0547
1	0.0000	-98.8294	2.2332	-166.5959	54.0553
1	0.9750	-229.3553	8.3101	-166.6710	54.0478
1	0.6310	-162.9679	1.6652	-166.5456	54.0646
1	0.5850	-131.5665	1.2845	-166.4550	54.0755
1	0.6310	-128.4886	1.5922	-166.5396	54.0705
1	0.6310	-128.4886	1.5922	-166.5639	54.0684
1	0.4440	-130.3896	1.3654	-166.4930	54.0891
1	0.6310	-93.1109	0.7733	-166.5994	54.0786
1	0.6310	-93.1109	0.7733	-166.5961	54.0791
1	1.0650	-614.9232	7.4765	-166.6644	54.0897
1	1.0650	-703.2719	8.3830	-166.6741	54.0949
1	1.0650	-703.2719	8.3830	-166.6741	54.0949
1	0.4440	-237.3121	10.7857	-166.5611	54.1112
1	0.8690	-639.8079	8.6252	-166.6125	54.1169
0	0.6540	-457.7029	3.9555	-167.6951	53.5783
0	0.6470	-442.7273	4.4159	-167.8633	53.6136
0	0.5720	-623.2059	5.3415	-167.5979	53.6675
0	0.7380	-934.1187	4.8827	-167.9123	53.6590
0	0.7430	-791.8492	6.2875	-168.0547	53.6543
0	0.6910	-624.9302	5.8653	-167.4235	53.7347
0	0.4330	-199.7084	2.4914	-167.3117	53.7513
0	0.7110	-955.9954	5.2940	-168.0089	53.6902
0	0.6640	-1172.0180	12.4786	-167.6627	53.7645
0	0.8390	-1225.2600	1.7049	-167.9581	53.7296
0	0.8210	-1126.1760	2.8149	-167.6214	53.8015
0	0.0000	-8.5167	0.7367	-167.1137	53.8835
0	0.7490	-1364.6430	7.2729	-167.6852	53.8318
0	0.0000	-32.0109	0.7766	-166.3019	54.0031
0	0.0000	-3.0897	0.2922	-166.3532	53.9999
0	0.7660	-1043.4990	3.4224	-167.3272	53.9168
0	1.1100	-307.0504	5.4993	-167.1004	53.9657
0	0.8360	-887.9408	6.3945	-167.2209	53.9586
0	0.0000	-112.2621	1.9486	-166.5864	54.0397
0	0.6550	-1069.9670	2.5452	-167.3149	53.9635
0	0.0000	-146.9063	4.7959	-166.6521	54.0521
0	1.0140	-350.8459	15.1577	-166.8161	54.0400
0	0.0000	-73.9441	1.6457	-165.7097	54.1920
0	0.0000	-62.1618	1.8224	-165.7478	54.1927
0	1.0160	-666.3896	10.6691	-166.7618	54.0878
0	0.0000	-36.6769	1.9750	-166.1476	54.1630
0	0.6910	-163.6577	2.8701	-166.2762	54.1803
0	0.5750	-13.8789	0.0000	-165.9487	54.2250
0	0.0000	-43.5156	1.6926	-165.4104	54.3006
0	1.0550	-245.1674	2.9842	-165.9190	54.2842
0	0.7880	-551.8261	3.4226	-166.2216	54.2520
0	0.8330	-800.6567	3.6243	-166.3716	54.2413
0	0.7580	-618.5383	2.4208	-166.2914	54.2513
0	0.0000	-47.2889	1.3821	-165.4846	54.3376

0	1.2300	-52.1551	1.2166	-164.8929	54.4017
0	0.7140	-406.7510	8.3471	-166.0521	54.2837
0	0.9450	-529.8088	4.4702	-166.1271	54.2820
0	0.8410	-81.3903	0.2888	-165.0928	54.4761
0	0.6790	-80.0110	0.3147	-165.0438	54.4820
0	0.7000	-169.7838	1.6900	-165.6238	54.4353
1	0.0000	-3528.5290	1.3249	-165.0093	53.0603
1	2.9010	-3640.6110	6.1751	-165.4606	53.2163
1	0.7610	-3197.4480	7.4194	-165.3896	53.3611
1	0.6150	-639.2277	7.5612	-165.7000	53.5103
1	0.6150	-639.2277	7.5612	-165.7000	53.5103
1	0.7320	-773.0756	9.1959	-165.6371	53.5378
1	0.6640	-701.7563	7.5163	-165.6665	53.5361
1	0.6900	-571.9871	5.4582	-165.6485	53.5521
1	0.6900	-427.9583	5.3178	-165.6443	53.5661
1	0.7120	-214.1253	3.2757	-165.6228	53.5945
1	0.6900	-202.3531	3.5154	-165.6341	53.5981
1	0.6610	-160.1458	2.1863	-165.6090	53.6121
1	0.9490	-176.6173	2.2808	-165.5576	53.6186
1	0.6630	-85.4773	0.1572	-165.5828	53.6613
1	0.8580	-82.5170	0.3136	-164.2265	53.8918
1	0.9490	-114.4043	0.3909	-164.3798	53.9186
1	0.9490	-108.6367	0.3264	-164.3610	53.9213
1	1.0470	-82.0620	0.3012	-164.3265	53.9411
1	0.8540	-86.2288	0.2831	-164.3780	53.9475
1	1.0470	-89.3357	0.3051	-164.3660	53.9576
1	0.0000	-372.1281	8.2649	-166.8766	54.0216
1	0.0000	-362.2720	9.7031	-166.9216	54.0233
1	1.1420	-312.2288	8.0490	-166.6433	54.0683
1	0.8590	-115.0243	2.0431	-166.4950	54.0900
1	1.0430	-131.5107	5.6141	-166.5750	54.0833
1	1.0430	-108.6331	3.1667	-166.5555	54.0895
1	1.0680	-703.2719	8.3830	-166.6700	54.0950
1	1.0430	-237.3121	10.7857	-166.5455	54.1136
1	1.0430	-481.3357	11.4234	-166.5538	54.1310
1	1.2200	-1002.5820	2.8089	-166.5728	54.1713
1	1.2200	-1002.5820	2.8089	-166.5685	54.1791
1	0.8500	-90.9458	0.4904	-164.1603	54.4288
1	1.1710	-730.7141	2.8336	-166.5501	54.3261
1	2.1490	-839.7943	2.8511	-166.7075	54.3106
1	2.1260	-893.3398	3.1021	-166.7658	54.3060
1	2.1260	-864.0216	3.6744	-166.7451	54.3186
1	2.1490	-825.1766	3.0745	-166.6655	54.3353
1	1.2310	-112.2624	0.6660	-165.5783	54.4583
1	2.1260	-806.6823	3.0211	-166.7841	54.3276
1	2.1260	-782.2166	3.2292	-166.7475	54.3335
1	2.1260	-758.8726	3.4876	-166.7355	54.3383
1	1.3520	-620.6890	2.0809	-166.7348	54.3681
1	1.5070	-589.6955	0.2784	-166.5596	54.3983
1	1.3520	-609.6342	0.7324	-166.7451	54.3913
1	1.4670	-604.0150	0.3140	-166.8233	54.3931
1	1.4700	-533.5106	0.9403	-166.4775	54.4448
1	1.6540	-503.8311	0.9607	-166.5348	54.4646
1	1.6540	-503.8311	0.9607	-166.5348	54.4646

1	1.5650	-532.9016	1.3157	-166.8336	54.4345
1	1.5650	-532.9016	1.3157	-166.8336	54.4345
1	1.5650	-532.9016	1.3157	-166.8336	54.4345
1	1.7090	-472.6192	0.4446	-166.3373	54.5198
1	1.5110	-469.1744	0.1871	-166.8201	54.5061
1	1.5110	-467.6057	0.2381	-166.8015	54.5155
1	1.6100	-456.1821	0.2096	-166.7608	54.5286
1	1.8600	-542.7667	0.5598	-167.2165	54.5071
1	1.4710	-443.4826	0.2990	-166.8288	54.5683
1	1.4710	-438.4617	0.2486	-166.8196	54.5760
1	1.6330	-404.0482	1.4437	-166.6911	54.5940
1	1.5150	-371.3692	1.1931	-166.6836	54.6025
1	1.5150	-371.3692	1.1931	-166.6836	54.6025
1	1.4690	-383.4774	0.8556	-166.7790	54.6191
1	1.5000	-326.5976	0.6214	-166.7736	54.6903
1	1.5000	-326.5976	0.6214	-166.7845	54.6980
1	1.5000	-304.6376	0.3759	-166.7360	54.7110
1	1.5000	-304.6376	0.3759	-166.7360	54.7110
1	1.5170	-277.1083	0.5318	-166.6431	54.7500
1	1.3630	-264.7355	0.8093	-166.6573	54.7583
1	1.3630	-264.7355	0.8093	-166.6573	54.7583
1	1.3630	-264.7355	0.8093	-166.6570	54.7653
1	1.2970	-216.1508	0.4464	-166.5053	54.7960
1	1.2970	-216.1508	0.4464	-166.5053	54.7960
1	1.2970	-216.1508	0.4464	-166.5053	54.7960
1	2.2230	-811.4685	0.8575	-167.6830	54.6623
1	1.6280	-677.0790	0.9470	-167.5490	54.7051
1	2.1180	-535.7343	0.5523	-167.4563	54.7633
1	2.1180	-562.0428	1.3697	-167.4853	54.7665
1	2.0170	-351.5129	1.0417	-167.2315	54.8466
1	1.5280	-154.0519	0.1141	-166.6318	54.9355
1	1.2700	-152.9105	0.0683	-166.6235	54.9431
1	1.1460	-147.3880	0.0740	-166.5125	54.9598
1	1.2700	-152.9105	0.0683	-166.6135	54.9521
1	1.2700	-152.9105	0.0683	-166.6135	54.9521
1	1.2750	-151.1355	0.0788	-166.5950	54.9635
1	1.2750	-151.1355	0.0788	-166.5950	54.9635
1	2.0260	-248.1538	0.8407	-167.1223	54.9071
1	1.2750	-151.1355	0.0788	-166.6050	54.9695
1	2.0260	-204.4207	0.6201	-167.1495	54.9273
1	2.1660	-372.0443	1.1212	-167.4025	54.9081
1	2.1660	-372.0443	1.1212	-167.4025	54.9081
1	2.1660	-372.0443	1.1212	-167.4025	54.9081
1	1.1030	-146.5701	0.0868	-166.6936	55.0305
1	1.1030	-146.5701	0.0868	-166.6936	55.0305
1	0.9630	-126.0332	0.1435	-166.2848	55.7801
1	0.8480	-125.8033	0.2001	-166.2323	55.8335
1	0.8860	-119.3095	0.0646	-166.0591	55.8611
1	0.7830	-118.2168	0.0478	-166.0120	55.8670
1	0.7830	-118.2168	0.0478	-166.0120	55.8670
1	0.8350	-124.8626	0.1076	-166.2848	55.8713
1	0.8350	-121.9594	0.0852	-166.2498	55.8806
1	0.9560	-114.8753	0.0927	-165.9665	55.9125
0	0.9920	-5563.9830	2.3162	-164.0916	52.4784

0	0.7240	-5845.0060	4.4752	-164.1128	52.5408
0	0.6830	0.0000	0.0000	-163.9100	52.5600
0	0.8450	-6910.3060	3.7664	-164.4463	52.6669
0	0.0000	-6176.9490	7.3199	-164.5802	52.7499
0	0.6690	-5928.4900	5.6577	-164.6847	52.8047
0	0.0000	-5149.1670	7.8761	-164.7160	52.8550
0	0.7120	-5172.0460	6.0267	-164.5882	52.8856
0	0.4190	-4630.9720	3.3885	-164.6852	52.9381
0	0.5350	-4260.1080	6.0581	-164.8633	52.9244
0	0.3660	-4491.3410	4.5086	-164.5598	52.9549
0	0.0000	-3584.2230	1.7379	-165.1047	53.0371
0	0.6830	-3744.7650	1.5226	-165.3282	53.1222
0	0.6980	-3698.1340	1.4348	-165.3181	53.1531
0	1.2240	-3043.1410	5.4572	-165.6973	53.1966
0	0.8750	-2151.6680	9.3070	-165.7163	53.2908
0	0.7610	-2734.3200	8.8664	-165.4383	53.3772
0	0.8720	-2129.9460	8.2963	-165.5909	53.4364
0	0.6380	-1589.3950	7.2522	-165.6070	53.4673
0	0.7690	-1202.0610	10.5922	-165.5673	53.5045
0	0.7350	-244.0692	3.4128	-165.7994	53.5275
0	0.6400	-219.5338	4.0015	-165.7363	53.5750
0	0.8350	-575.0115	6.2241	-165.2704	53.6242
0	0.6760	-110.8944	1.4362	-165.7200	53.6042
0	0.9490	-94.0901	0.7662	-165.5788	53.6399
0	0.6460	-119.5422	1.9007	-164.4716	53.7535
0	1.0340	-108.9025	0.7094	-165.5447	53.6618
0	1.1090	-46.2311	0.6794	-164.4771	53.8035
0	1.7860	-36.9292	0.3186	-164.7705	53.7757
0	1.2750	-20.9650	0.2656	-164.6457	53.7935
0	1.1130	-67.6489	0.3641	-164.0459	53.8708
0	0.9070	-77.4008	0.2630	-164.1547	53.8878
0	0.9490	-99.1214	0.4679	-164.4074	53.8829
0	0.9490	-102.3133	0.4912	-164.3528	53.9036
0	0.6310	-73.7323	0.6593	-164.7214	53.8730
0	0.8260	-84.0643	0.1697	-164.4685	53.9004
0	1.0470	-89.0728	0.7016	-164.3126	53.9284
0	0.6140	-109.8353	0.7841	-164.9463	53.8833
0	0.6880	-103.9501	0.3263	-164.8814	53.8916
0	0.7810	-83.1647	0.3184	-164.4765	53.9971
0	0.0000	-32.0109	0.7766	-166.2826	53.9908
0	0.7360	-4.8376	0.1706	-164.8260	54.1538
0	0.0000	-37.3590	1.1111	-166.3019	54.0031
0	0.0000	-8.2753	0.4261	-165.2384	54.1164
0	0.0000	-4.5522	0.5995	-166.3532	53.9999
0	0.0000	-104.5455	1.0356	-166.5864	54.0397
0	0.0000	-384.3906	7.1289	-166.6521	54.0521
0	0.0000	-350.8459	15.1577	-166.8161	54.0400
0	0.0000	-97.6605	1.0850	-165.7097	54.1920
0	0.8320	-94.5004	0.2216	-164.1552	54.3442
0	0.8580	-103.6919	0.1413	-164.0657	54.3550
0	0.0000	-62.1618	1.8224	-165.7478	54.1927
0	0.8630	-88.9869	0.2871	-164.4590	54.3238
0	0.0000	-806.1213	11.2173	-166.7618	54.0878
0	0.8630	-88.2510	0.1333	-164.4551	54.3300

0	0.0000	-81.5167	1.1947	-166.1476	54.1630
0	0.0000	-10.0526	1.0416	-165.4878	54.2352
0	0.9100	-109.6160	0.2905	-164.0701	54.5286
0	2.1450	-977.0370	3.7751	-166.7473	54.2890
0	1.9440	-757.6241	4.7612	-166.4160	54.3389
0	1.3730	-809.9028	3.5981	-166.6298	54.3206
0	0.9630	-169.7838	1.6900	-165.6238	54.4353
0	1.3350	-619.3363	3.5671	-166.4248	54.3698
0	1.3170	-1359.4070	4.2256	-167.3215	54.2738
0	2.1520	-1053.3300	4.8668	-166.9795	54.3177
0	1.4670	-701.1484	3.8047	-166.8602	54.3562
0	2.1190	-936.4323	3.5610	-167.3810	54.2983
0	1.4670	-599.8524	1.2245	-166.8081	54.3714
0	1.4880	-581.5765	0.7060	-166.6802	54.4099
0	1.7000	-527.0627	0.6773	-166.6543	54.4366
0	1.5760	-538.4432	0.7416	-166.7228	54.4328
0	2.1040	-1451.9910	3.2540	-168.1428	54.2739
0	1.8610	-1355.2560	3.2999	-168.1513	54.3043
0	1.3460	-1586.3080	2.9108	-168.4859	54.3121
0	1.5130	-428.3981	0.4795	-166.5261	54.5608
0	1.4480	-1044.0430	1.1581	-167.9516	54.3997
0	1.4840	-442.8846	0.4519	-166.6532	54.5698
0	1.5630	-447.0325	0.6169	-167.0261	54.5293
0	1.5160	-1553.5310	3.2532	-168.5147	54.3496
0	1.5720	-1302.4960	1.7303	-168.2772	54.4292
0	1.5580	-1277.1450	1.2785	-168.4455	54.4084
0	2.0130	-488.5473	0.8447	-167.1809	54.5756
0	1.5800	-436.6447	0.1682	-166.9522	54.6033
0	1.5150	-364.7847	0.8453	-166.7587	54.6254
0	1.5180	-425.9086	0.5452	-166.8528	54.6209
0	1.5310	-1460.9330	1.2386	-168.2945	54.5065
0	1.4400	-298.0763	0.3286	-166.5896	54.7107
0	1.7680	-1398.8950	1.9573	-168.0421	54.5493
0	1.3220	-250.7924	0.4444	-166.4388	54.7386
0	1.4360	-1395.6610	1.8085	-168.5084	54.4918
0	1.8210	-1384.6670	1.6886	-168.6621	54.4812
0	1.4160	-257.9187	0.5196	-166.5159	54.7466
0	1.1880	-229.6112	0.4728	-166.4110	54.7601
0	1.6960	-481.0950	0.5732	-167.3202	54.6603
0	1.5300	-1513.8170	1.4990	-168.3200	54.5409
0	1.1880	-224.6698	0.1748	-166.4053	54.7753
0	1.6730	-1646.1390	1.1798	-168.2264	54.5632
0	1.8100	-302.0795	0.5467	-166.7954	54.7443
0	1.7120	-452.7474	0.3494	-167.2757	54.7109
0	1.9070	-1737.0560	2.2172	-168.1546	54.6096
0	1.8270	-601.2512	1.3682	-167.4456	54.7081
0	2.2980	-405.1722	0.8754	-167.1515	54.7795
0	1.3040	-165.0112	0.1817	-166.4134	54.8681
0	1.9330	-1292.7770	4.8336	-167.9164	54.6960
0	1.3990	-252.6198	0.5724	-166.7993	54.8405
0	1.6620	-247.1634	0.5819	-166.9874	54.8761
0	1.2140	-137.9984	0.2125	-166.3292	54.9824
0	1.2700	-143.0017	0.3970	-166.6639	54.9537
0	1.4980	-205.8858	1.3317	-167.0556	54.9217

0	2.3690	-417.9737	0.9455	-167.3689	54.8882
0	1.4980	-178.4649	0.3400	-167.0317	54.9300
0	1.0860	-142.9688	0.1522	-166.4241	55.0235
0	1.4390	-139.9626	0.1185	-166.6515	55.0696
0	0.9380	-133.2780	0.0536	-166.3953	55.1068
0	1.7780	-144.8201	0.1046	-166.6282	55.1042
0	2.1870	-833.0023	8.3533	-167.7705	54.9820
0	1.2460	-137.8586	0.0273	-166.5042	55.1465
0	1.6390	-598.2759	3.6784	-167.7924	55.0180
0	1.4090	-422.3781	0.9834	-167.7598	55.0928
0	2.0380	-722.5533	3.6729	-167.9025	55.0966
0	1.7230	-820.1799	4.9721	-167.9500	55.1623
0	1.4670	-990.6602	7.5236	-167.9892	55.2071
0	1.3650	-1666.8530	1.8507	-168.4132	55.3286
0	1.3650	-1667.9980	1.4160	-168.4439	55.3287
0	0.9370	-125.2298	0.2504	-166.1650	55.5967
0	1.3650	-1661.3100	2.9091	-168.4082	55.3392
0	0.9910	-128.1383	0.1665	-166.2638	55.6958
0	0.9800	-128.9355	0.2268	-166.2299	55.7206
0	0.9800	-119.3677	0.4711	-166.2267	55.7532
0	1.0610	-126.4719	0.1737	-166.2882	55.7688
0	0.9090	-118.1441	0.0531	-166.1525	55.7869
0	1.4360	-1356.4740	5.4891	-168.7835	55.5342
0	0.8130	-125.4352	0.1223	-166.3998	55.8302
0	0.7830	-118.2849	0.0473	-166.0321	55.8733
0	1.5960	-1475.9630	4.8452	-168.9422	55.5587
0	0.9240	-113.8210	0.0938	-166.0146	55.9095
0	1.5460	-1762.5770	4.5541	-169.0866	55.5562
0	0.9460	-122.9438	0.0313	-166.3236	55.9112
0	0.9660	-119.1496	0.0751	-166.1451	55.9402
0	0.3560	-101.3502	0.0535	-165.7697	56.0000
0	0.9250	-118.1910	0.0319	-166.2200	55.9734
0	1.6730	-1502.6650	10.9431	-168.9973	55.6837
0	0.0000	0.0000	0.0000	-165.9221	56.0460
0	1.6320	-2042.6660	6.0424	-169.0923	55.6887
0	0.0000	0.0000	0.0000	-165.9362	56.1070
0	1.4770	-2180.0810	6.8862	-169.3845	55.8382
0	1.3910	-2191.4390	2.8600	-169.5903	55.8274
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0	1.0730	-1098.4600	11.3021	-169.8324	55.9571
0	0.0000	0.0000	0.0000	-170.0538	55.9371