Appendix H-7

MMSO report



REPORT

Marine Mammal and Seabird Observer (MMSO) Report for the 2017 and 2018 Shipping Season

Meliadine Gold Mine in Rankin Inlet, Nunavut

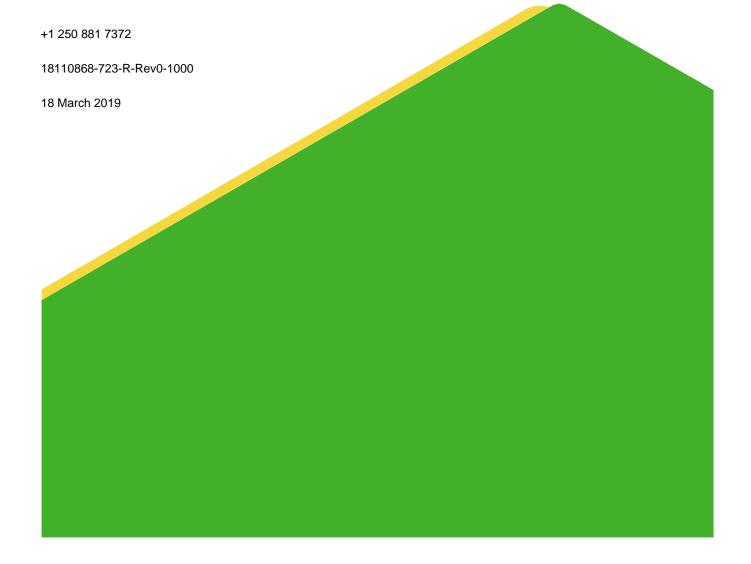
Submitted to:

Agnico Eagle Mines Limited

Submitted by:

Golder Associates Ltd.

2nd floor, 3795 Carey Road, Victoria, British Columbia, V8Z 6T8, Canada



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Executive Summary

Agnico Eagle Mines Limited ships approximately 40,000 tonnes of dry cargo (equipment and supplies) and 122 million litres of diesel fuel annually for the operations of the Meliadine Gold Mine in Rankin Inlet, Nunavut. The Mine's Shipping Management Plan outlines a Marine Mammal and Seabird Observer (MMSO) program that is to be implemented by Project shipping contractors. The purpose of the MMSO program is to mitigate interactions between marine mammals and seabirds and Project vessels and to collect information on marine wildlife presence. The objective of this report is to provide additional information regarding the 2017 and 2018 MMSO program as requested by the Nunavut Impact Review Board (NIRB) during their review of the Mines 2017 annual report. This report provides an interpretation and discussion of the MMSO data collected in 2017 and 2018 by the shipping contractor Transport Desgagnés.

In 2017 the marine mammal observations were conducted from the Acadia Desgagnés and the Claude A. Desgagnés and in 2018 from the Acadia Desgagnés. Marine mammal observations were reported between 22 July to 21 September 2017 and 26 June to 24 July 2018. Five species of marine mammals were observed in 2017 including the Atlantic walrus, hooded seal, ringed seal, humpback whale, and pilot whale. No marine mammals were observed in 2018.

A maximum of 4 and 12 seabird species were recorded during moving and stationary platform surveys in 2017 (June and July) and 2018 (June to October), respectively. The density of seabirds reported are generally low, although densities estimated from 2018 moving platform data were significantly higher than in 2017.

No marine mammal-vessel interactions or birds-vessel interactions (e.g., strikes) were recorded in 2017 or 2018.



Study Limitations

On behalf of Agnico Eagle Mines Limited (Agnico Eagle), Nuqsana Golder Engineering and Environmental Consulting Inc. (Nuqsana Golder) has prepared this Marine Mammal and Seabird Observer (MMSO) Report for the 2017 and 2018 Shipping Season for the Meliadine Gold Mine in Rankin Inlet, Nunavut. The scope of work for this report was undertaken under the Master Services Agreement (MSA) between Agnico Eagle and Nuqsana Golder, made effective as of 17 April 2018 and as outlined in Nuqsana Golder work plan titled "Proposal – Marine Mammal and Seabird Observer (MMSO) report" and dated 7 January 2019.

This report was prepared, based in part, on information obtained from Transport Desgagnés through Agnico Eagle and other historic information sources. In preparing the report, Nuqsana Golder has relied in good faith on information provided. We accept no responsibility for any deficiency or inaccuracy contained in this report because of our reliance on the aforementioned information.

The findings and conclusions documented in this report have been prepared for the specific application to this Project and have been developed in a manner consistent with that level of care normally exercised by environmental professionals currently practicing under similar conditions in the jurisdiction.

With respect to regulatory compliance issues, regulatory statutes are subject to interpretation. These interpretations may change over time and should be reviewed regularly.

If new information is discovered during future work, the conclusions of this report should be re-evaluated, and the report amended, as required, prior to any reliance upon the information presented herein.



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APPENDICES

APPENDIX A

Summary of Marine Mammal Sightings and Environmental Variables Recorded by Transport Desgagnés for the 2017 and 2018 Shipping Season

APPENDIX B

Data Sheets Recorded by Transport Desgagnés and Provided by Agnico Eagle Mines for Marine Mammal and Seabird Observations for the 2017 and 2018 Shipping Season



1.0 INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) ships approximately 40,000 tonnes of dry cargo (equipment and supplies) and 122 million litres of diesel fuel annually for the operations of the Meliadine Gold Mine (the Mine or the Project) in Rankin Inlet, Nunavut (Agnico Eagle 2018; Figure 1). To meet these needs, approximately eight ships per year are needed to deliver dry cargo and up to four additional ships per year to deliver fuel. Shipping is carried out during the open water season (typically from early July to late October; Agnico Eagle 2018). Shipping activities are carried out by Transport Desgagnés. To support the Terms and Conditions of the Mine Project Certificate, Transport Desgagnés is required to implement a Marine Mammal and Seabird Observer (MMSO) program during shipping activities in the marine Local and Regional Study Areas (Agnico Eagle (2018; Figure 2). The purpose of the MMSO program is to mitigate interactions between marine mammals, seabirds and Project vessels and to collect information on marine wildlife presence.

This report provides an interpretation and discussion of the 2017 and 2018 MMSO observations collected by Transport Desgagnés to support the Mines annual report to the Nunavut Impact Review Board (NIRB).

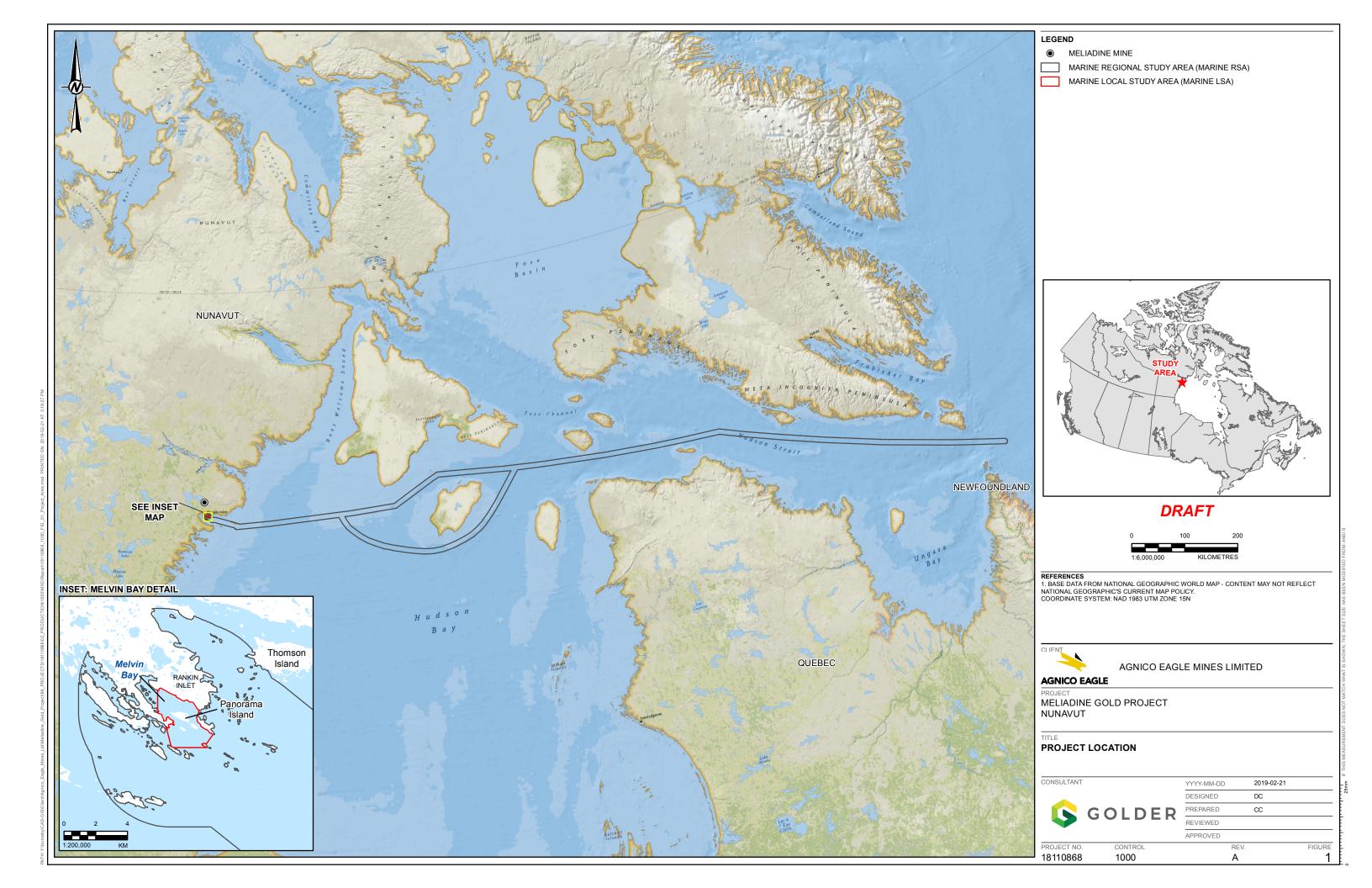
1.1 Objectives

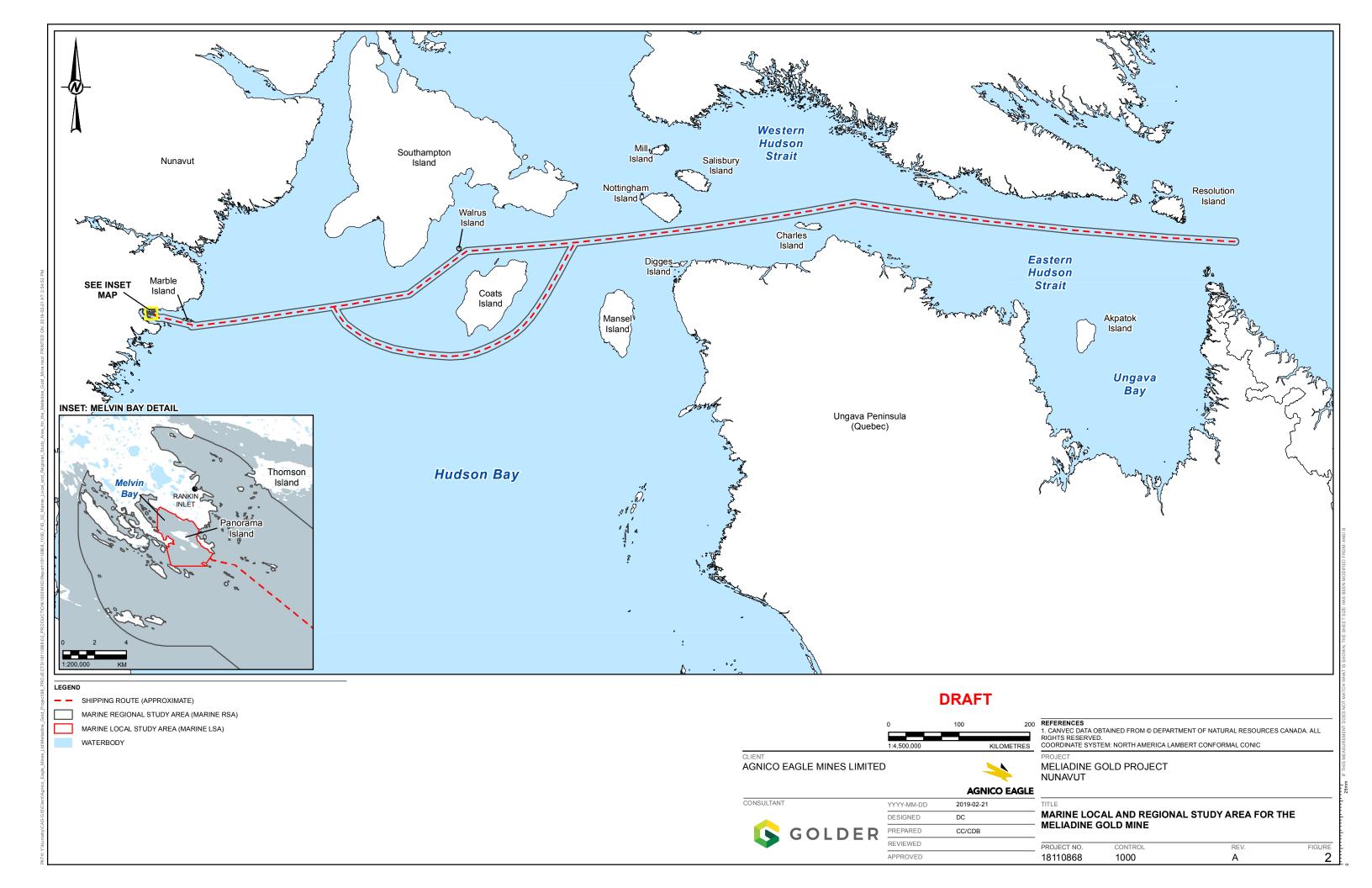
The objective of this report is to present a summary of the MMSO data collected by Transport Desgagnés during the 2017 and 2018 MMSO programs including a summary of results, interpretation and discussion to support Agnico's 2018 annual report to NIRB. The comments related to the 2017 reporting of the MMSO program provided by NIRB are presented in Table 1.

Table 1: Project Certificate Terms and Conditions and Comments Provided by NIRB on the 2017 Mines Annual Report

Number	Project Certificate Terms and Conditions	Comments by NIRB
66	The Proponent shall ensure all Project vessels are checked for bird strikes after a suspected event and include details of its protocol to do so, as well as results, within its updated Terrestrial Environment Mitigation and Monitoring Plan.	While the raw data is provided in the appendix, the NIRB expects a summary of the results with interpretation and discussion to be provided within the main text of the annual report.
82	The Proponent shall require all contracted shipping companies to provide full-time marine wildlife monitoring using trained observers and established data collection and recording protocols. Monitoring plans should include provisions for all Species At Risk Act (SARA) and for the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) listed species (birds and mammals).	While the raw data is provided, the NIRB expects a summary of the results with interpretation and discussion to be provided within the main text of the annual report. In addition, the NIRB acknowledges Environment and Climate Change Canada's comments regarding standardized protocols and databases and encourages the Proponent to follow-up.

Source: Comments from the Nunavut Impact Review Board were provided by Agnico Eagle Mines.





2.0 METHODS

Nuqsana Golder has assumed that the 2017 and 2018 MMSO programs were conducted by Transport Desgagnés in accordance with the methods outlined in the Shipping Management Plan (Agnico Eagle 2018). Appendix A summarizes the MMSO data recorded by Transport Desgagnés and Appendix B provides the raw datasheets used by Transport Desgagnés and provided by Agnico Eagle.

2.1 Marine Mammal Data Analysis

This section outlines the methods used to summarize the environmental conditions, observer effort, and marine mammal sightings related to the marine mammal information recorded by Transport Desgagnés. There were not enough marine mammal sightings recorded during the 2017 and 2018 MMSO programs to conduct a density analysis.

Temporal and Spatial Observation Effort

Temporal (hours) and spatial (km) marine mammal observation effort was defined as the effort dedicated to marine mammal observations as recorded by Transport Desgagnés on the MMSO datasheets (Appendix B). Marine mammal spatial effort was calculated as linear kilometres using GPS coordinates that were recorded by Transport Desgagnés at the start and end of each MWO shift. Start and end times were recorded by Transport Desgagnés on the datasheets (Appendix B) and were used to determine temporal effort (i.e., the time spent completing marine mammal observations).

Environmental Variables

The environmental variables of ice cover (percent), wind speed and direction, sea state (Beaufort scale), weather (e.g., precipitation and cloud conditions), visibility, sun glare and sightability (combination of weather, glare, and sea state, etc.) were recorded by Transport Desgagnés on the datasheets (Appendix B) and were summarized as a percentages of observation effort.

2.2 Seabirds

This section outlines the methods used to summarize the environmental conditions, observer effort, and to provide a density estimate for seabird sightings related to the seabird information recorded by Transport Desgagnés in 2017 and 2018. Additionally, Agnico Eagle requested a comparison of seabird monitoring results from 2017 to 2018 between years to determine if there were differences.



Temporal and Spatial Observation Effort

According to seabird protocols (Agnico Eagle 2018), surveys from moving and stationary platforms are completed in 5-minute intervals. Additionally and similar to marine mammals, the number of survey hours and km were recorded as indices of effort for seabird. Seabird spatial effort was calculated as linear kilometres using GPS coordinates that were recorded by Transport Desgagnés at the start and end of each 5-minute interval. Start and end times were recorded by Transport Desgagnés on the datasheets (Appendix B) and were used to determine temporal effort (i.e., the time spent completing seabird surveys).

Environmental Variables

The same environmental variables of ice cover (percent), wind speed and direction, sea state (Beaufort scale), weather (e.g., precipitation and cloud conditions), visibility, sun glare were recorded by Transport Desgagnés on the datasheets (Appendix B). Environmental conditions were not separately summarized for seabird monitoring but are anticipated to be similar since the MMSO protocol is to alternate these programs numerous times throughout daily monitoring (Agnico Eagle 2018).

2.2.1 Data Analysis

The monitoring records prepared by Transport Desgagnés and provided by Agnico Eagle included observations of seabird counts at varying distances from moving and stationary ships (Appendix B). Sightings data from a moving vessel are analogous to line-transect sampling while observations from stationary vessel are similar to point-counts. Both can be used to estimate the density of seabirds. When distances to seabirds are measured, the density estimate can be corrected for seabirds that are farther away from the ship and harder to detect (i.e., not observed or missed). This correction is employed through use of a distance-based detection function as outlined in Buckland et al. (2001). The analysis was focussed on estimating and then comparing seabird density by year. Densities for stationary and moving surveys are presented without regard for environmental variables because preliminary review of data indicated that low sample sizes were going to be limiting (Buckland et al. 2001) and inclusion of additional model variables would decrease the precision of estimates.

Analysis of stationary and moving platform seabird data was performed using the Conventional Distance Sampling analysis engine of the Distance 7.2 software program (Thomas et. al. 2009). The initial step is to fit a detection distribution that corresponds to the sightings data. The hazard-rate, half-normal, and uniform key functions, all with cosine, simple polynomial, and hermite polynomial series expansions, were tested for fitting the data. The observation data were transformed into intervals for the fitting of the models. There is a possibility that seabirds may actively avoid the ship during the moving platform surveys (e.g., birds may dive when they are close to the ship and resurface further from the ship where they are recorded by observers). To account for this, seabird observations from moving platform surveys that were recorded within 0 to 50 m and 51 to 100 m from observers were pooled together into one distance interval (i.e., 0 to 100 m) for the moving platform data analysis.



The standard analysis method of transect surveys assumes that on average, over multiple replications of the survey, each point within the survey area has an equal likelihood of being sampled (uniform coverage probability). Because the locations of the transect lines were considered random with respect to the location of seabirds, the average density of seabirds was considered to be the same irrespective of distance from the transect line. Thus, any observed change in seabird sightings with increasing distance from the transect line was considered a change in the probability of detection, rather than a true change in bird density. The change in detection probability with respect to sighting distance from the transect line was measured to provide an estimate of the average probability of detection of a bird, which was, in turn, used to estimate the density of seabirds in the survey area. Sample size for modelling detection function should generally be at least 60 to 80 sightings, although for some purposes, as few as 40 sightings may be adequate (Buckland et al. 2001).

Models were selected using the minimum Akaike's Information Criterion (AIC) as well as consideration for fit near zero distance, where fit is most critical and not accounted for in AIC values (Buckland et. al. 2001). For moving platform surveys, these detection functions all assume 100% detection on the trackline (g(0)=1).

Distance truncation of the data was performed to remove sightings past a selected distance (i.e., 300 m), which serves to remove outliers that would otherwise inflate density and abundance estimates (i.e., observation size-bias) as well as remove hard-to-fit portions of the dataset (e.g., obvious data heaping at certain distances).

Observation data used distance analyses included on-transect sightings only. Re-sightings were not used for the estimation of any variables. The sample sizes available for estimating detection functions and seabird densities are provided in Table 2. The sample sizes indicate that accurate species-level densities can not be estimated.

Table 2: Sample Size Available for Distance Analyses

Year	Survey Type	Number of Transects / Stationary Plots for Calculating Detection Function and Density Estimates
2017 – all species	Moving Platform	30
2018 – all species	Moving Platform	54
2017 and 2018 – all species	Moving Platform	84
2017 – all species	Stationary Platform	7
2018 – all species	Stationary Platform	2
2017 and 2018 – all species	Stationary Platform	9

3.0 RESULTS

3.1 Marine Mammals

Marine mammal observations were recorded by Transport Desgagnés and provided by Agnico Eagle during the 2017 and 2018 shipping season. In 2017 the marine mammal observations were conducted from the Acadia Desgagnés and the Claude A. Desgagnés and in 2018 from the Acadia Desgagnés. Surveys were completed between 22 July to 21 September 2017 and 26 June to 24 July 2018. Marine mammal sightings were only recorded in 2017; no marine mammal sightings were recorded in 2018. No record of marine mammal-vessel interactions (e.g., strikes) were recorded by Transport Desgagnés in 2017 or 2018.

A summary of the environmental variables and marine mammal sightings recorded by Transport Desgagnés and provided by Agnico Eagle is provided in Appendix A. Data sheets for marine mammal monitoring recorded by Transport Desgagnés and provided by Agnico Eagle are provided in Appendix B.

3.1.1 Survey Effort

According to the observation records prepared by Transport Desgagnés, marine mammal observer effort included a total of 22.7 hours and 543.45 km in 2017, with six hours of effort while anchored. In 2018, observer effort included a total of 21.5 hours and 1,514.2 km in 2018 and no hours of effort while anchored.

3.1.2 Environmental Variables and Sighting Conditions

Weather

Predominant weather conditions recorded by Transport Desgagnés during the 2017 marine mammal observation program were recorded as < 50% cloud cover with no fog, rain, or snow (62% of survey effort) followed by > 50% cloud cover with no fog, rain, or snow (25% of survey effort), and solid fog (13% of survey effort; Figure 3).

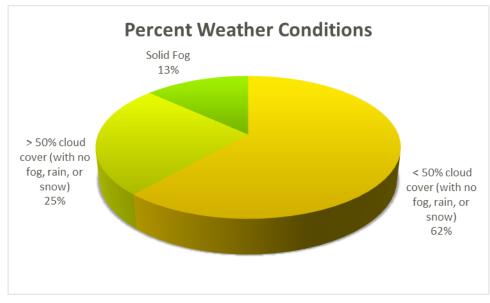


Figure 3: Percent Weather Conditions - 2017 Marine Mammal Observation Program

Predominant weather conditions during the 2018 marine mammal observation program were recorded as < 50% cloud cover with no fog, rain, or snow (44% of survey effort) and > 50% cloud cover with no fog, rain, or snow (44% of survey effort) followed by patchy fog (10% of survey effort) and fog/rain (2% of survey effort; Figure 4).

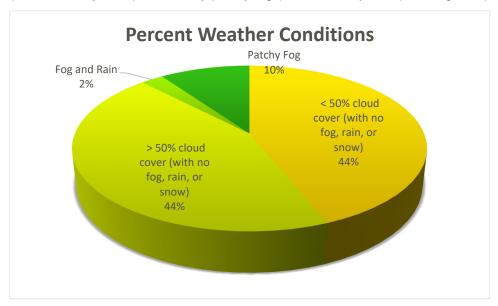


Figure 4: Percent Weather Conditions - 2018 Marine Mammal Observation Program

Visibility

Visibility recorded by Transport Desgagnés during the 2017 marine mammal observation program ranged from 1 to 10 km, on average visibility was recorded to be 9.2 km. In 2018, the marine mammal observation program recorded visibility ranging 8 to 75 km, on average visibility was recorded to be 21.93 km.

Sea State

Sea state recorded by Transport Desgagnés during the 2017 marine mammal observation program ranged from 0 (no waves, glassy) to 4 (1.2 to 2.4 m waves, Moderate Waves, Some Spray). The majority of sea state conditions were recorded as 0 (no waves, glassy; 38% of survey effort), followed by 2 (0.1 to 0.5 m waves, Smooth Wavelets; 27% of survey effort), 1 (0 to 0.1 m waves, small wavelets; 21% of survey effort), 3 (0.5 to 1.2 m waves, slight; small white caps; 9% of survey effort), and 4 (1.2 to 2.4 m waves, moderate waves, some spray; 5% of survey effort; Figure 5).

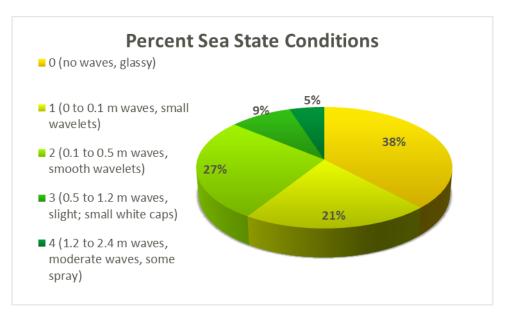


Figure 5: Percent Sea State Conditions - 2017 Marine Mammal Observation Program

In 2018, sea states recorded by Transport Desgagnés ranged from 0 (no waves, glassy) to 4 (1.2 to 2.4 m waves, moderate waves, some spray) during the marine mammal observation program. The majority of sea state conditions were recorded as 4 (1.2 to 2.4 m waves, moderate waves, some spray; 26 % of survey effort), followed by 3 (0.5 to 1.2 m waves, slight; small white caps; 23% of survey effort), 2 (0.1 to 0.5 m waves, smooth wavelets; 21% of survey effort), 1 (0 to 0.1 m waves, small wavelets; 16% of survey effort) and 0 (no waves, glassy; 14% of survey effort; Figure 6).

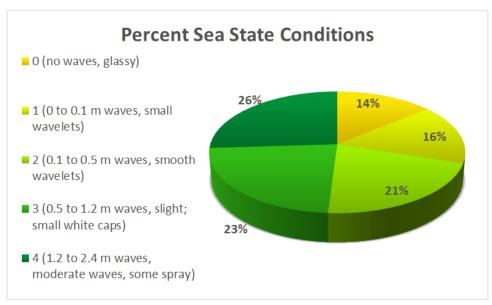


Figure 6: Sea State Conditions - 2018 Marine Mammal Observation Program

Glare Conditions

During the marine mammal observation program in 2017, glare conditions recorded by Transport Desgagnés ranged from 0 (none) to 3 (bright and forward of vessel). The majority of glare conditions were recorded as 0 (none; 41% of survey effort), followed by 2 (bright on the observer's side of the vessel; 24%), 3 (bright and forward of vessel; 24%, and 1(slight/grey) (Figure 7).



Figure 7: Glare Conditions - 2017 Marine Mammal Observation Program

During the marine mammal observation program in 2018, glare conditions recorded by Transport Desgagnés ranged from 0 (none) to 3 (bright and forward of vessel). The majority of glare conditions were recorded as 0 (none; 58% of survey effort), followed by 1 (slight/grey; 32%), 2 (bright on the observer's side of the vessel; 5%) and 3 (bright and forward of vessel; 5%) (Figure 8).



Figure 8: Glare Conditions - 2018 Marine Mammal Observation Program

Ice Concentration

Ice variables were not recorded by Transport Desgagnés during marine mammal observation program in 2017. In 2018, ice concentrations recorded by Transport Desgagnés ranged from 0 (less than one tenth cover, open water) and 5 (seven to eight tenths, close pack). Ice Conditions were predominantly recorded as 0 (none; 80% of survey effort) followed by 1 (two to three tenths, very open drift; 17%) and 5 (seven to eight tenths, close pack; 3%; Figure 9).

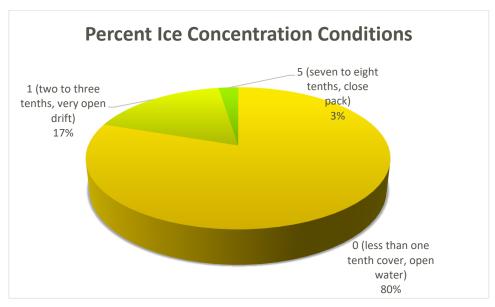


Figure 9: Ice Conditions - 2018 Marine Mammal Observation Program

3.1.3 Sightings

Five species of marine mammals were recorded by Transport Desgagnés during the MMSO Program in 2017: Atlantic walrus (*Odobenus rosmarus* rosmarus), hooded seal (*Cystophora cristata*), ringed seal (*Pusa hispida*), humpback whale (*Megaptera novaeangliae*), and pilot whale (*Globicephala melas* or *G. macrorhynchus*). Unidentified whales and seals were recorded on three occasions. Table 3 summarizes the number of marine mammal sightings recorded by Transport Desgagnés in 2017 and individuals recorded for each species. A total of 13 sightings of 48 individual marine mammals were recorded during MMSO program. All sightings recorded were observed in June and July. The most commonly identified species was Atlantic walrus (five sightings of 14 individuals), followed by ringed seal (three sightings of 12 individuals), pilot whale (one sighting of 10 individuals), and humpback whale (one sighting of five individuals).

Table 3: Marine Mammal Observations During the 2017 MMSO Program

Species	Number of Sightings	Number of Individuals				
Atlantic Walrus	5	14				
Hooded Seal	1	1				
Humpback Whale	1	5				
Pilot Whale	1	10				
Ringed Seal	3	12				
Unidentified Seal Species	2	2				
Unidentified Marine Mammal Species	1	4				

Hooded Seal

Hooded seals were recorded by Transport Desgagnés in the Eastern Hudson Strait (Figure 10). A total of one sighting of one individual hooded seal was recorded (Table 3).

Ringed Seal

Ringed seals were predominately recorded by Transport Desgagnés near Marble Island (Figure 10). A total of three sightings of 12 individual ringed seals were recorded during observations (Table 3). Group sizes ranged from single animals to a group of 10 individuals.

Unidentified Seal

Unidentified seals were recorded near Melvin Bay by Transport Desgagnés (Figure 10). A total of two sightings of two individual unidentified seals were recorded during observations (Table 3). All unidentified seals recorded by Transport Desgagnés were observed in the water or diving.

Pilot Whale

A single sighting of a group of pilot whales was recorded by Transport Desgagnés between Walrus Island and Coats Island during marine mammal observations in 2017 (Figure 10). A total of one sighting of 10 individual pilot whales were recorded during observations (Table 3).

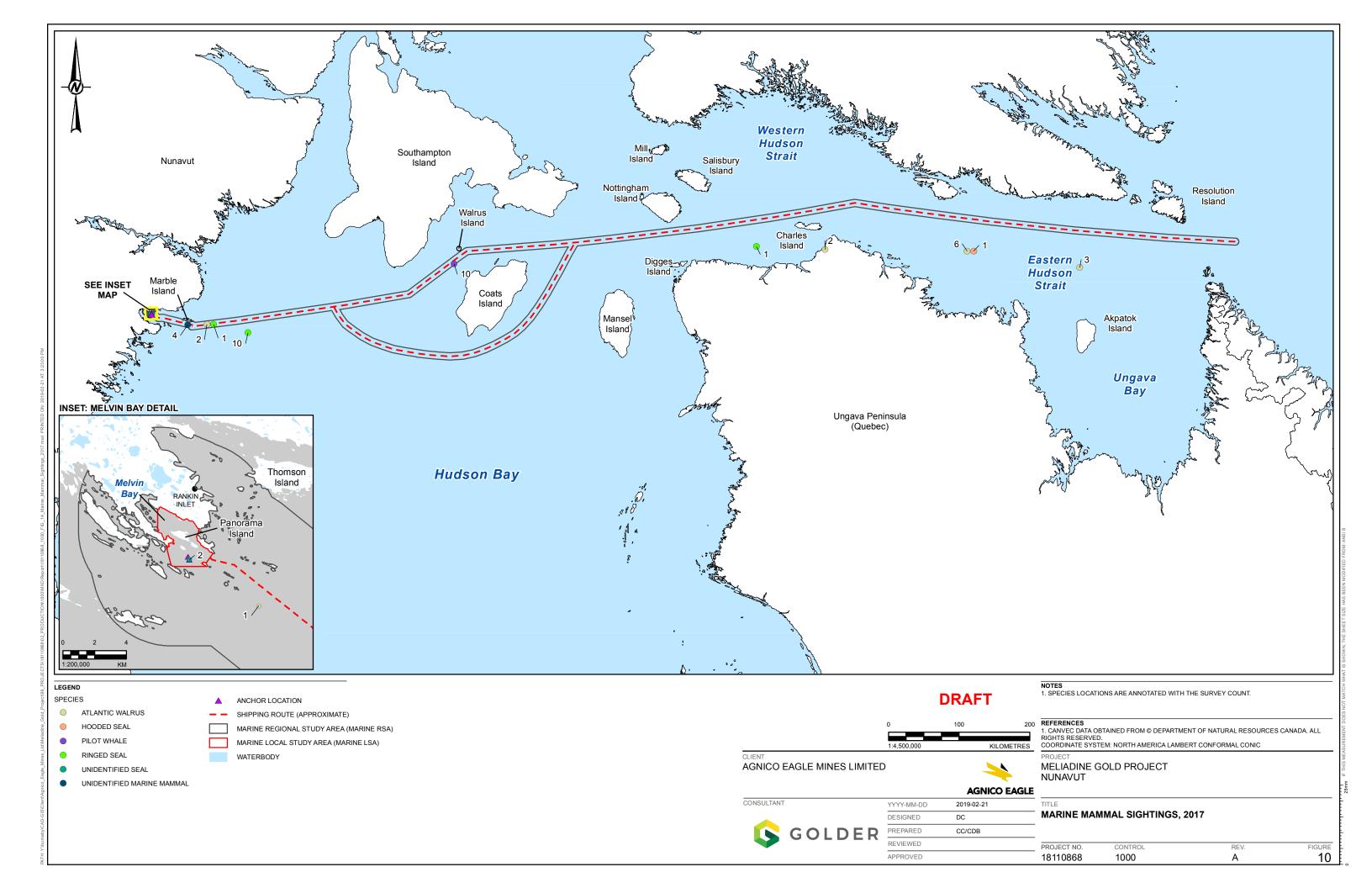
Humpback Whale

Humpback whales were recorded by Transport Desgagnés once during the MMSO program in 2017. Five individual humpback whales were recorded in one group (Table 3; Figure 10).

Atlantic Walrus

Atlantic walruses were recorded by Transport Desgagnés primarily in Eastern Hudson Strait (Figure 10). A total of five sightings of 14 individual Atlantic walruses were recorded (Table 3). Atlantic walruses were primarily observed in groups. Group sizes ranged from a single animal to groups of six individuals. Single walruses and groups of three were recorded as haul-out in 2017. No large walrus haul-outs were recorded during the 2017 or 2018 MMSO programs.





3.2 Seabirds

Seabird monitoring was completed by Transport Desgagnés daily on 26 June to 24 July 2017, 30 June 2018, 17 July to 4 August 2018, 11 to 21 September 2018, 20 October 2018, and 23 October 2018. No seabird interactions (e.g., strikes) with vessels were recorded by Transport Desgagnés during 2017 or 2018 MMSO programs. Data sheets for seabird monitoring recorded by Transport Desgagnés are provided in Appendix B.

3.2.1 Survey Effort

According to the observation records prepared by Transport Desgagnés, monitoring resulted in 227, 5-minute surveys on moving platforms and 65, 5-minute surveys on stationary platforms. In 2017, 443.3 km were surveyed over 15.9 hours for seabirds using moving platform surveys. In 2018, 389.8 km were surveyed over 17.5 hours for seabirds using moving platform surveys. During stationary platform surveys for seabirds, 7 hours and 1 hour were surveyed in 2017 and 2018, respectively.

3.2.2 Surveys from Moving Platforms

3.2.2.1 All Species

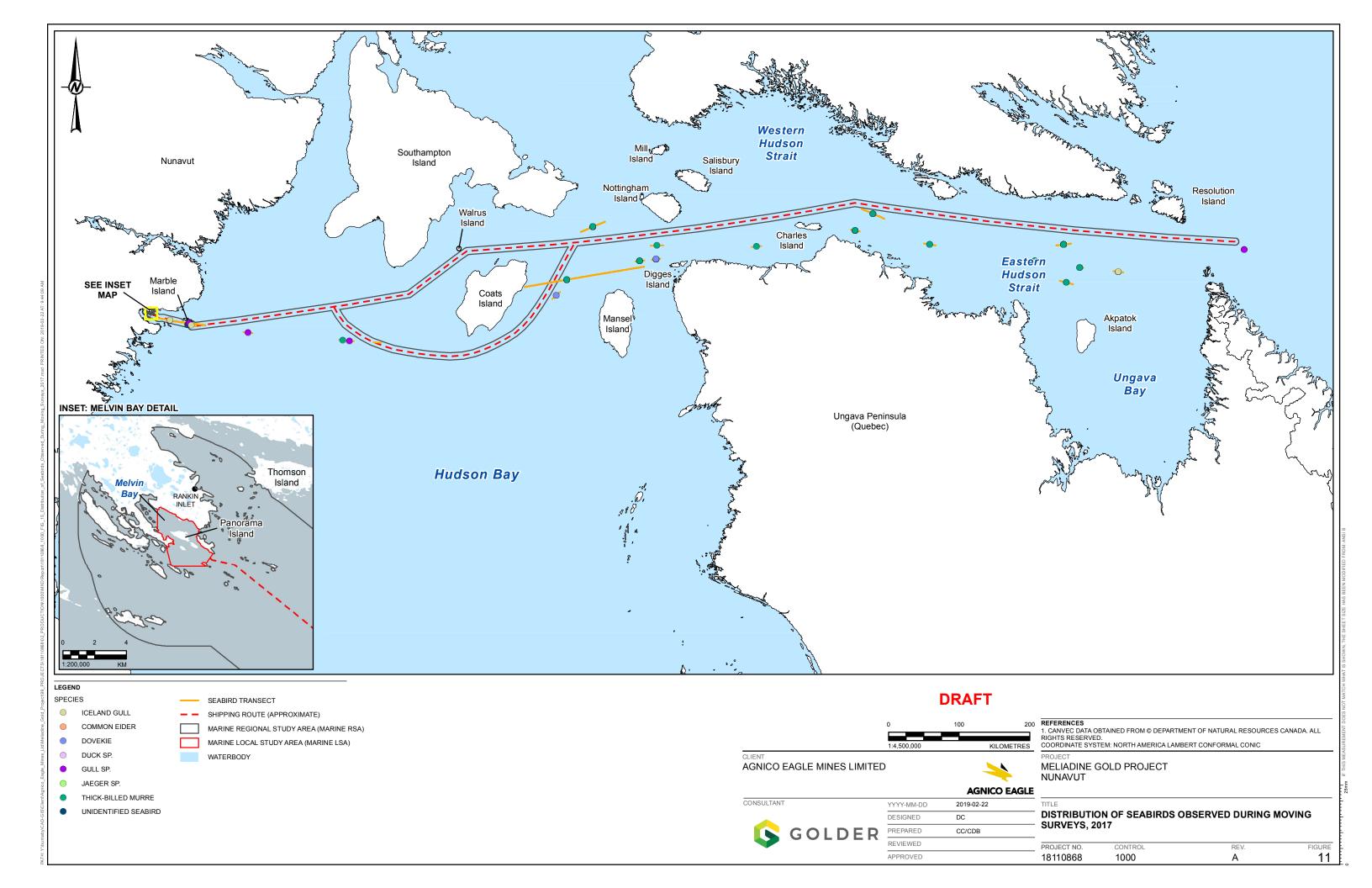
During all moving platform surveys reported, a total of 12 identified species and individuals in five unidentified species groups were observed (Table 4). Ivory gull, which is an endangered species in Nunavut (SARA 2019), was observed during the surveys in 2018 (Table 4). The most common identified species during the moving platform surveys in 2017 were thick-billed murre (*Uria Iomvia*), dovekie (*Alle alle*), and Iceland gull (*Larus glaucoides*) (Table 4; Figure 11). The most common species identified during the surveys in 2018 were thick-billed murre, Iceland gull, glaucous gull (*Larus hyperboreus*), and black guillemot (*Cepphus grylle*) (Table 4; Figure 12).

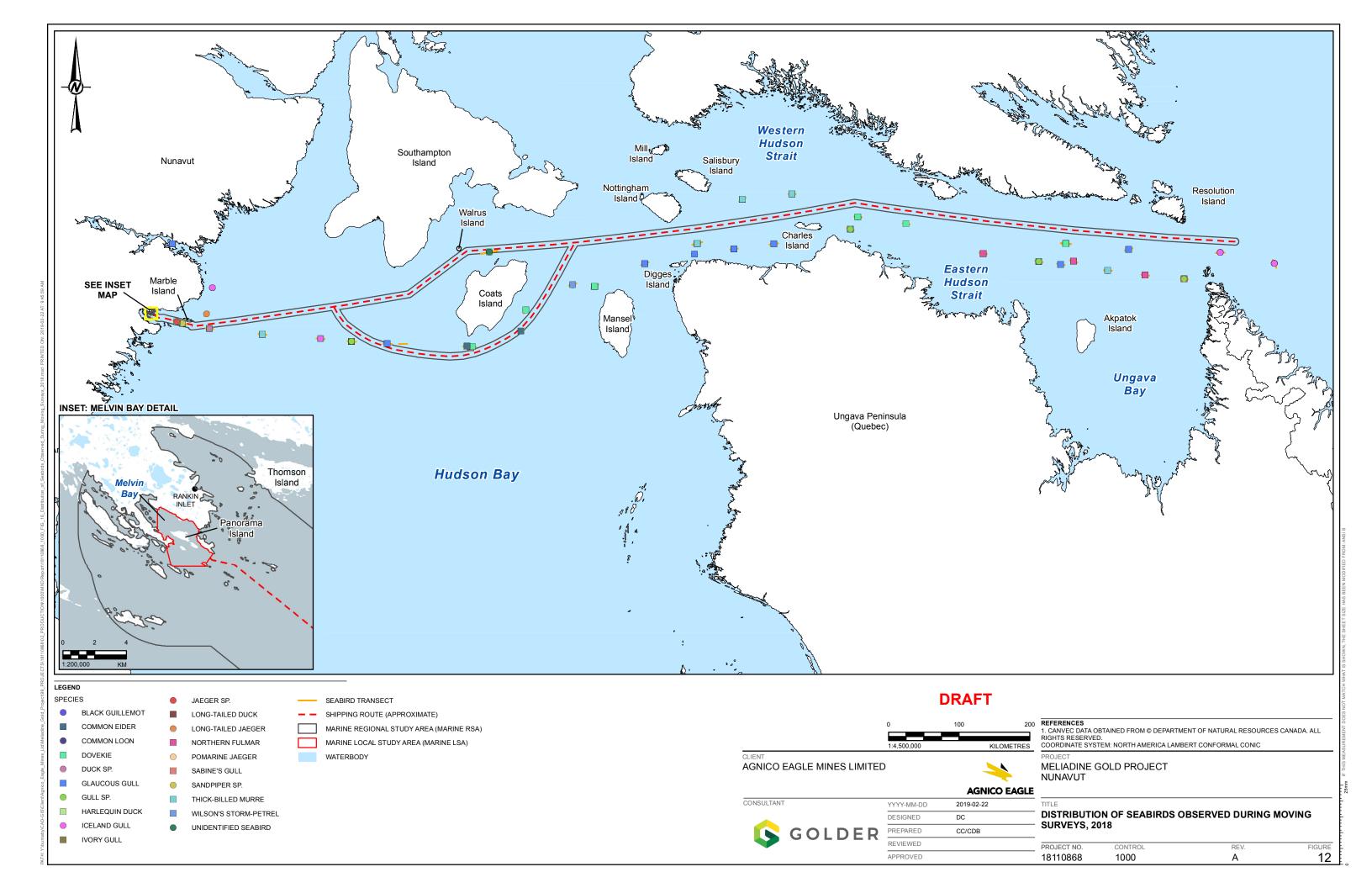


Table 4: Seabirds Observed During Moving Platform Surveys, 2017 and 2018

Charles	Number of Ind	ividuals Observed
Species	2017	2018
Black guillemot	0	71
Common eider	4	3
Dovekie	19	43
Glaucous gull	0	88
Iceland gull	14	77
Ivory gull	0	2
Long-tailed duck	0	3
Northern fulmar	0	43
Pomarine jaeger	0	1
Sabine's gull	0	3
Thick-billed murre	142	138
Wilson's storm-petrel	0	25
Unidentified duck species	2	0
Unidentified gull species	38	39
Unidentified jaeger species	1	2
Unidentified sandpiper species	0	17
Unidentified bird species	11	3
Total	231	558







For the initial step in determining density, the detection distribution with the best fit to the sightings data was determined. The half-normal models with simple polynomial expansions had the lowest AIC scores for the moving platform dataset. Having the lowest AIC score of all detection distributions evaluated meant it was the most appropriate to use. Based on this detection function, the overall probability of detecting seabirds during moving platform surveys in 2017 and 2018 was estimated to be 0.43 (95% Confidence Interval [CI]: 0.39 to 0.48). The density estimate of seabirds in 2017 was 1.2 birds/km² (Table 5). The density estimate of seabirds in 2018 was 3.6 birds/km² (Table 5). Based on non-overlapping 95% CIs, the density of seabirds was significantly higher in 2018 than in 2017 (Table 5). The analysis of the 2017 data may be inaccurate as the sample size for this year is small (Table 2; Buckland et al. 2001). Density estimates were not generated for individual seabird species because the low sample sizes would yield inaccurate results (Buckland et al. 2001).

Table 5: Density Estimates and 95% Confidence Intervals for Seabirds Observed Along Moving Platform Surveys in 2017 and 2018

Year	Model, AIC Score	Sample Size	Density Estimate (individuals/km²)	95% Confidence Interval (individuals/km²)
2017	Half-normal, 354.3	30	1.2	0.7 to 2.0
2018	Hall-Hofffial, 334.3	54	3.6	2.7 to 4.9

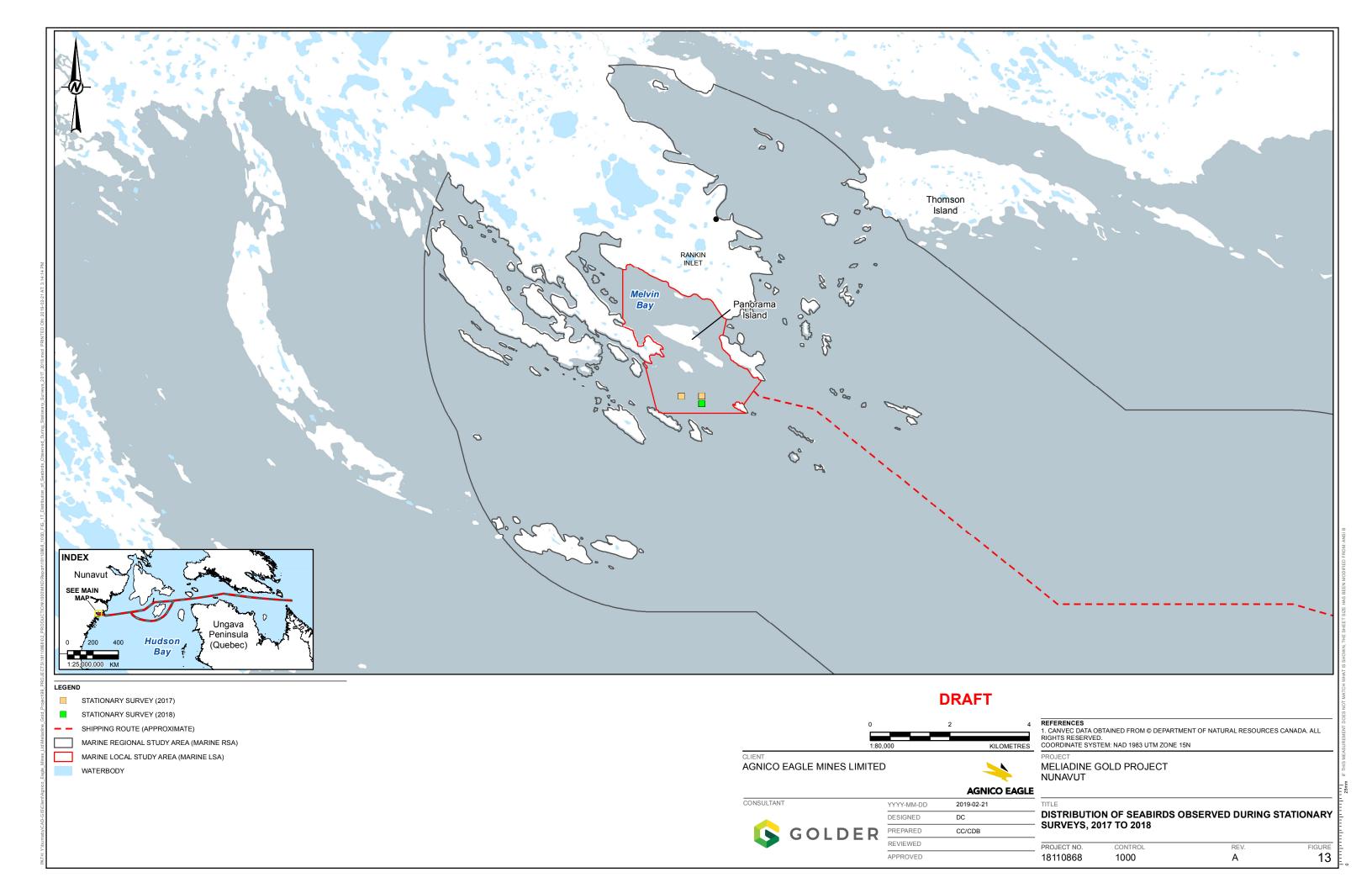
km² = square kilometres; AIC = Akaike's Information Criteria.

3.2.3 Surveys from Stationary Platforms

Four identified species and individuals in three unidentified species groups were observed during stationary surveys in 2017 and 2018 (Table 6; Figure 13). Thick-billed murre was the most abundant species observed in 2017, while glaucous gull was the most abundant species observed in 2018.

Table 6: Seabirds Observed During Stationary Platform Surveys, 2017 and 2018

Smaring	Number of Indiv	iduals Observed
Species	2017	2018
Common eider	5	4
Glaucous gull	9	14
Iceland gull	5	0
Thick-billed murre	17	0
Unidentified duck species	9	0
Unidentified gull species	12	7
Unidentified bird species	46	0
Total	103	25



As with moving platforms, the half-normal model with a cosine expansion had the lowest AIC score and so is the best model of detection for the 2017 and 2018 combined stationary platform data. Using this model, the overall probability of detecting seabirds during stationary platform surveys in 2017 and 2018 was 0.29 (95% CI: 0.16 to 0.54). The estimated density of seabirds in 2017 was 82.9 birds/km² (Table 13). The estimated density of seabirds in 2018 was 158.4 birds/km² (Table 7). Based on overlapping 95% CIs, the density of seabirds was not significantly different in each of the survey years (Table 7). The analysis of the stationary data may be inaccurate as the sample size for is small (Table 2; Buckland 2001). Density estimates were not generated for individual seabird species because the low sample sizes would yield inaccurate results (Buckland 2001).

Table 7: Density Estimates and 95% Confidence Intervals for Seabirds Observed During Stationary Platform Surveys in 2017 and 2018

Year	Model, AIC Score	Sample Size	Density Estimate (individuals/km²)	95% Confidence Interval (individuals/km²)			
2017	Half narmal 125 20	7	82.9	36.5 to 188.5			
2018	Half-normal, 135.29	2	158.4	29.4 to 851.1			

km² = square kilometres; AIC = Akaike Information Criteria.

4.0 DISCUSSION

This report presents a summary of the MMSO data collected by Transport Desgagnés during the 2017 and 2018 MMSO programs and includes a summary of results, interpretation and discussion in support of the Mine's 2018 annual report. MMSO programs were conducted from the Acadia Desgagnés and the Claude A. Desgagnés in 2017 and from the Acadia Desgagnés in 2018.

Environmental variables of weather conditions, visibility, sea state, glare and ice conditions were recoded by Transport Desgagnés during the MMSO programs in 2017 and 2018. Summaries of the environmental conditions recorded during the marine mammal monitoring indicated annual variation for each of the variables recorded as might be expected. Environmental conditions were not separately summarized for seabird monitoring but are anticipated to be similar since the MMSO protocol is to alternate these programs numerous times throughout daily monitoring (Agnico Eagle 2018).

Marine mammal observations were completed by Transport Desgagnés between 22 July to 21 September 2017 and 26 June to 24 July 2018. Five species of marine mammals were recorded by Transport Desgagnés in 2017 including the Atlantic walrus, hooded seal, ringed seal, humpback whale, and pilot whale. No marine mammals were recorded by Transport Desgagnés in 2018. There were not enough marine mammal sightings recorded to provide a density analysis. No marine mammal-vessel interactions (e.g., strikes) were recorded by Transport Desgagnés in 2017 or 2018.

A total of 12 seabird species were recorded by Transport Desgagnés during June to July 2017 and during June to October 2018. Observations of seabirds from moving platform surveys were variable between years. Four (common eider, dovekie, Icelandic gull and thick-billed murre) of 12 species were seen in both years and the number of seabirds was considerably higher in 2018. Eight more seabird species were recorded by Transport Desgagnés in 2018 than in 2017. Thick-billed murre was recorded consistently as the most abundant (and in total numbers) seabird observed in both years. Overall, densities of seabirds (all species pooled) from moving platforms were low regardless of year. However, densities in 2018 were significantly higher than in 2017. Stationary platform monitoring recorded two (common eider and glaucous gull) of four species that were present in 2017 and 2018 and both were not numerous but relatively consistent across years. Densities of seabirds from stationary platforms were highly imprecise, so the differences are not considered significant. The higher densities observed in 2018 from moving platforms could be an artifact of the monitoring schedule. In 2018, monitoring included the months of September and October, which may capture migrants. In general, the monitoring to date has resulted in low numbers of observations and samples of seabirds, which limit the type of analyses that can be completed for seabirds (Buckland et al. 2001). No interactions between vessels and seabirds were recorded during the MMSO in either 2017 or 2018.



5.0 CLOSURE

We trust this information is sufficient for your needs at this time. Should you have any questions or concerns, please do not hesitate to contact the undersigned at 604-296-4200.

Golder Associates Ltd.

Dan Coulton, PhD, RPBio

Wildlife Biologist

Katelyn Zottenberg, BSc, RPBio

Kately Henberg

Marine Biologist

Reviewed by:

lain Jones, MSc, DiplTeck, RPBio Associate, Senior Wildlife Ecologist

DWC/KZ/IJ/ah/lmk

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APPENDIX A

Summary of Marine Mammal Sightings and Environmental Variables Recorded by Transport Desgagnés for the 2017 and 2018 Shipping Season



Desgagnes	Platform Name	Observer(s)	Date	Survey	Time at Start	Time at End	Effort	Zone	UTM	Start	UTM	l End	Platform	Visibility	Weather	Glare	Sea State	V-0
e empanijin igener	and Type		26.10	Type					Easting	Northing	Easting	Northing	Activity	(km)	Code	Code	Code	Code
Desgagnes	Acadia Desgagnes	Michael Galarneceu	16-07-17	Т	11:37:00 AM	12:07:00 PM	12:30:00 AM	18	557404	6932420	551475	6932880	Travelling	10	0	1	0	0
Desgagnes	Acadia Desgagnes	Michael Galarneceu	15-07-17	Т	7:05:00 PM	7:35:00 PM	12:30:00 AM	19	572450	6786443	564424	6789369	Travelling	10	1	2	1	3
Desgagnes	Claude A. Desgagnes	Sandra Lebon	26-06-17	Т	10:30:00 PM	11:00:00 PM	12:30:00 AM	19	546560	6826779	-	-	Travelling	10	1	1	1	3
Desgagnes	Claude A. Desgagnes	Sandra Lebon	27-06-17	Т	10:45:00 PM	11:15:00 PM	12:30:00 AM	18	613919	6954318	605771	6960921	Travelling	10	1	0	3	1
Desgagnes	Claude A. Desgagnes	Sandra Lebon	28-06-17	Т	10:45:00 PM	11:15:00 PM	12:30:00 AM	17	534804	7007132	522054	7007391	Travelling	10	0	3	4	1
Desgagnes	Claude A. Desgagnes	Sandra Lebon	29-06-17	Т	9:30:00 PM	10:00:00 PM	12:30:00 AM	15	620100	6943945	632974	6945366	Travelling	10	0	1	2	3
Desgagnes	Claude A. Desgagnes	Sandra Lebon	29-06-17	Т	9:30:00 PM	10:00:00 PM	12:30:00 AM	15	620100	6943945	632974	6945366	Travelling	10	0	1	2	3
Desgagnes	Claude A. Desgagnes	Sandra Lebon	29-06-17	Т	9:30:00 PM	10:00:00 PM	12:30:00 AM	15	620100	6943945	632974	6945366	Travelling	10	0	1	2	3
Desgagnes	Claude A. Desgagnes	Sandra Lebon	30-06-17	Т	10:30:00 PM	11:00:00 PM	12:30:00 AM	15	554958	6955594	546535	6960664	Travelling	10	0	2	1	2
Desgagnes	Claude A. Desgagnes	Sandra Lebon	30-06-17	S	10:30:00 PM	12:00:00 AM	1:30:00 AM	15	546359	6961034	-	-	Anchored	10	0	2	0	1
Desgagnes	Claude A. Desgagnes	Sandra Lebon	30-06-17	S	10:30:00 PM	12:00:00 AM	1:30:00 AM	15	546359	6961034	-	-	Anchored	10	0	2	0	1
Desgagnes	Claude A. Desgagnes	Sandra Lebon	02-07-17	S	10:30:00 PM	12:00:00 AM	1:30:00 AM	15	546272	6961217	-	-	Anchored	10	0	2	1	1
Desgagnes	Claude A. Desgagnes	Sandra Lebon	04-07-17	S	10:30:00 PM	12:00:00 AM	1:30:00 AM	15	546272	6961217	-	-	Anchored	10	1	0	2	0
Desgagnes	Claude A. Desgagnes	Sandra Lebon	05-07-17	Т	10:00:00 PM	11:30:00 PM	1:30:00 AM	15	607467	6942767	642793	6948006	Travelling	10	1	0	3	-
Desgagnes	Claude A. Desgagnes	Kristian Brown	07-07-17	Т	10:45:00 PM	12:00:00 AM	1:15:00 AM	17	647093	6886659	396198	6961231	Travelling	10	1	0	2	2
Desgagnes	Claude A. Desgagnes	Kristian Brown	08-07-17	Т	8:15:00 PM	9:45:00 PM	1:30:00 AM	20	471046	6731754	479239	6720467	Travelling	5	3	0	2	0
Desgagnes	Claude A. Desgagnes	Kristian Brown	07-08-17	Т	7:00:00 PM	8:30:00 PM	1:30:00 AM	19	552601	6768377	571692	6761934	Travelling	10	0	0	4	3
Desgagnes	Claude A. Desgagnes	Kristian Brown	09-07-17	Т	7:30:00 PM	9:00:00 PM	1:30:00 AM	21	437998	6306252	449678	6298098	Travelling	1	3	0	1	0

Notes:

Weather code; 0 (< 50% cloud cover with no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow), 3 (solid fog); Glare code; 0 (none), 1 (slight/grey), 2 (bright on the observer's side of the vessel), 3 (bright and forward of vessel); sea state code; 0 (calm, mirror-like, glassy), 1 (small wavelets, short but pronounced; crests do not break), 2 (large wavelets, crests begin to break; foam of glassy appearance; perhaps scattered white caps), 3 (small waves, becoming longer; fairly frequent white caps), 4 (moderate waves with more pronounced form; many white caps; chance of some spray); Ice type code; 0 (small, thin, newly formed, dinner plate-sized pieces), 1 (rounded floes 30 cm to 3 m across with ridged rims), 2(broken pieces <2 m across), 3 (level piece 2 to 20 m across); Ice concentration; 0 (less than one tenth cover, open water), 1 (two to three tenths, very open drift), 5 (seven to eight tenths, close pack); deg = degrees; D = diving, S =surfacing; R = resting on ice; M = Mature; 1M = one male; a dash indicated no data provided on the datasheets.

Page: 1 of 4

Ice Concentration	Wave Height	True Wind Speed	True Wind Direction	True Platform	True Platform Direction	Observation	Height of Eye	Outdoors or	Ves	ssel	Species	Species Count	ecies Count	Re-	Sight	ing Coord (UTM)	inates	Distance	Angle to Sighting	Behaviour/ Travel	Age	Sex
Code	(m)	(Knots)	(deg)	Speed (Knots)	(deg)	Side	(m)	Indoors	Direction	Speed			Sighting	Zone	Easting	Northing	to Animal	(deg)	Direction			
0	0.5	2.9	210	11.4	271	starboard	20	Indoors	271	11.4	Atlantic walrus	3	No	18	557404	6932420	50	45	S	М	1M	
1	1	18	270	10	295	starboard	20	Indoors	-	-	-	1	-	-	-	-	-	-	-	-		
5	1	17	15	7	315	starboard	20	Indoors	-	-	-	1	-	-	-	-	-	-	1	-	-	
-	1	28	270	12	308	starboard	20	Indoors	-	1	-	1	-	-	-	-	-	-	ı	-	-	
-	1	13	15	13	275	starboard	20	Indoors	-	1	-	1	-	-	-	-	-	-	ı	-	-	
0	1	11	180	13	270	starboard	20	Indoors	270	13	ringed seal	1	No	15	617817	6943119	300	90	R	-	-	
0	1	11	180	13	270	starboard	20	Indoors	270	13	Atlantic walrus	2	No	15	617817	6943119	100	90	R	-	-	
0	1	11	180	13	270	starboard	20	Indoors	270	13	Atlantic walrus	1	No	15	609686	6942988	100		R	-	-	
0	1	14	180	13	300	starboard	20	Indoors	-	ı	-	1	-	-	-	-	-	-	1	-	-	
1	0	3	190	0	ı	starboard	20	Indoors	-	1	seal sp.	1	No	15	546359	6961034	300	190	D	-	-	
1	0	3	190	0	-	starboard	20	Indoors	-	-	seal sp.	1	No	15	546359	6961034	200	70	D	-		
0	1	12	190	0	-	starboard	20	Indoors	-	-	-	1	-	-	-	-	-	-	-	-	-	
0	1	14	90	0	ı	starboard	20	Indoors	-	1	-	1	-	-	-	-	-	-	1	-	-	
-	1	11.6	30	13.5	86	starboard	20	Indoors	-	1	-	1	-	-	-	-	-	-	1	-	_	
0	1	7	300	14	109	starboard	20	Indoors	-	ı	-	1	-	-	-	-	-	-		-		
0	5	22.5	125	9.6	120	starboard	20	Indoors	-	-	-	1	-	-	-	-	-	-	-	-		
0	2	8	160	13	110	starboard	20	Indoors	-	-	-	1	-	-	-	-	-	-	-	-		
0	2	12	28	13.8	144	port	20	Indoors	-	1	-	1	-	-	-	-	-	-	-	-		

	Dietferm Neue			0					UTM	Start	UTM	l End	Platform	V(- 11-11)4 -
Company/Agency	Platform Name and Type	Observer(s)	Date	Survey Type	Time at Start	Time at End	Effort	Zone	Easting	Northing	Easting	Northing	Activity	Visibility (km)
Desgagnes	Acadia Desgagnes	Stephen Badcock	12-09-18	Transect	12:00:00 PM	12:30:00 PM	0:30	18	605746	6924131	597009	6928510	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	11-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	19	511543	6815902	500798	6820710	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	11-09-18	Transect	12:00:00 PM	12:30:00 PM	0:30	20	389696	6718067	379639	6723404	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	11-09-18	Transect	5:00:00 PM	5:30:00 PM	0:30	19	619554	6766291	609508	6770424	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	12-09-18	Transect	5:30:00 PM	6:00:00 PM	0:30	18	479178	6936633	465314	6938420	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	12-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	18	372312	6949247	363534	6949969	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	21-09-18	Transect	5:30:00 PM	6:00:00 PM	0:30	19	549453	6797481	560343	6792453	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	19-09-18	Transect	5:30:00 PM	6:00:00 PM	0:30	16	394524	6924495	406342	6922284	Travelling	12
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	21-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	19	657429	6748256	344024	6742059	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	21-09-18	Transect	12:00:00 PM	12:30:00 PM	0:30	19	432042	6854989	441969	6849977	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	20-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	18	435993	6941642	448209	6940128	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	20-09-18	Transect	5:30:00 PM	6:00:00 PM	0:30	17	619516	6950614	631007	6951792	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	20-09-18	Transect	12:00:00 PM	12:30:00 PM	0:30	17	497510	6930255	505912	6936944	Travelling	16
Agnicio Eagle Meliadine	Acadia Desgagnes	Stephen Badcock	19-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	16	515586	6901696	527465	6899729	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	14-09-18	Transect	12:30:00 PM	1:00:00 PM	0:30	15	575942	6951181	564628	6949274	Travelling	8
Desgagnes	Acadia Desgagnes	Stephen Badcock	19-09-18	Transect	12:00:00 PM	12:30:00 PM	0:30	15	573651	6950572	583255	6948943	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	13-09-18	Transect	10:30:00 PM	11:00:00 PM	0:30	16	552836	6895390	593198	6898493	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	13-09-18	Transect	5:30:00 PM	6:00:00 PM	0:30	17	352972	6878106	655647	6880721	Travelling	16
Desgagnes	Acadia Desgagnes	Stephen Badcock	13-09-18	Transect	12:30:00 PM	1:00:00 PM	0:30	17	438497	6910207	431609	6902912	Travelling	16
Desgagnes	Acadia Desgagnes	Michael Galarneceu	22-07-18	Transect	2:40:00 PM	4:10:00 PM	1:30	19	646337	6791328	623750	6791276	Travelling	75
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	23-07-18	Transect	6:30:00 PM	8:00:00 PM	1:30	18	530672	6995353	504175	7001803	Travelling	70
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	24-07-18	Transect	6:00:00 PM	7:30:00 PM	1:30	17	365792	6876868	646904	6883193	Travelling	20
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	27-07-18	Transect	6:00:00 PM	7:30:00 PM	1:30	15	582357	7055314	-	-	Travelling	50
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	01-08-18	Transect	6:30:00 PM	8:00:00 PM	1:30	15	635070	6978167	618695	6956327	Travelling	10
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	02-08-18	Transect	6:05:00 PM	7:35:00 PM	1:30	16	655471	6882070	375325	6874981	Travelling	10
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	03-08-18	Transect	6:10:00 PM	7:40:00 PM	1:30	18	582041	6954486	610992	6942864	Travelling	15
Agnicio Eagle Meliadine	Acadia Desgagnes	Michael Galarneceu	04-08-18	Transect	5:10:00 PM	6:40:00 PM	1:30	20	411772	6750366	440467	6739243	Travelling	50

Notes:

Weather code; 0 (< 50% cloud cover with no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow), 2 (pathcy fog), 6 (fog and rain); Glare code; 0 (none), 1 (slight/grey), 2 (bright on the observer's side of the vessel), 3 (bright and forward of vessel); sea state code; 0 (calm, mirror-like, glassy), 1 (small wavelets, short but pronounced; crests do not break), 2 (large wavelets, crests begin to break; foam of glassy appearance; perhaps scattered white caps), 3 (small waves, becoming longer; fairly frequent white caps), 4 (moderate waves with more pronounced form; many white caps; chance of some spray); lce type code; 0 (small, thin, newly formed, dinner plate-sized pieces), 3 (level piece 2 to 20 m across); lce concentration; 0 (less than one tenth cover, open water), 2 (four tenths, open drift); deg = degrees; a dash indicated no data provided on the datasheets.

Weather Code	Glare Code	Sea State Code	Ice Type Code	Ice Concentration Code	Wave Height (m)	True Wind Speed (Knots)	True Wind Direction	True Platform Speed (Knots)	True Platform Direction (deg)	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count
1	0	4	-	-	2	21	135	10.7	299	starboard	22	Indoors	No Observations	1
0	3	2	-	-	1	8	315	12.8	297	starboard	22	Indoors	No Observations	1
1	0	2	-	-	2	10	235	12.2	297	starboard	22	Indoors	No Observations	1
1	0	1	-	-	1	7	0	11.8	295	starboard	22	Outdoors	No Observations	1
0	0	1	-	-	1	8	135	14.7	279	starboard	22	Indoors	No Observations	1
1	0	4	-	-	2	27	315	8.8	276	starboard	22	Indoors	No Observations	1
0	2	2	-	-	2	14	315	12.8	116	starboard	22	Indoors	No Observations	1
1	2	4	-	-	1	12	270	13.1	98	starboard	22	Indoors	No Observations	1
0	0	1	-	-	1	6	315	13.7	115	starboard	22	Indoors	No Observations	1
1	0	3	-	-	1	18	270	12.5	115	starboard	22	Indoors	No Observations	1
1	0	4	-	-	2	21	315	12.5	98	starboard	22	Indoors	No Observations	1
1	0	3	-	-	2	15	315	12.5	87	starboard	22	Indoors	No Observations	1
1	0	1	-	-	1	4	315	12.6	48	starboard	22	Indoors	No Observations	1
0	0	2	-	-	1	8	270	13.4	100	starboard	22	Indoors	No Observations	1
6	1	3	-	-	2	15	0	12	290	starboard	22	Indoors	No Observations	1
0	3	2	-	-	1	13	270	13.1	76	starboard	22	Indoors	No Observations	1
1	0	2	-	-	2	16	180	12.6	279	starboard	22	Indoors	No Observations	1
1	1	3	-	-	2	16	235	11.8	279	starboard	22	Indoors	No Observations	1
1	0	4	-	-	2	25	235	11.2	223	starboard	22	Indoors	No Observations	1
0	0	0	3	2	1	3	270	7	276	starboard	16	Indoors	No Observations	1
0	0	0	0	0	2	4	260	10.3	283	starboard	16	Indoors	No Observations	1
2	1	3	0	0	1	4	210	12.9	279	starboard	16	Indoors	No Observations	1
0	0	1	0	0	1	5	255	9.3	288	starboard	16	Indoors	No Observations	1
1	1	4	0	0	2	5	235	10.9	225	starboard	16	Indoors	No Observations	1
1	1	3	0	0	1	4	17	12.6	100	starboard	16	Outdoors	No Observations	1
2	1	2	0	0	1.5	4	40	12.5	114	starboard	16	Outdoors	No Observations	1
0	0	4	0	0	1	5	170	13	108	starboard	16	Indoors	No Observations	1

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APPENDIX B

Data Sheets Recorded by Transport Desgagnés and Provided by Agnico Eagle Mines for Marine Mammal and Seabird Observations for the 2017 and 2018 Shipping Season





Observation Period Inform	nation:		A STATE OF THE PARTY OF THE PAR			
Company/agency	bescagnes 1	ransarchiz	Sea state code ★			
Platform name and type	acadia ber		Wave height (m)	1/2		
Observer (s)	Michella		True wind speed (knots) OR * Beaufort code	5.4		
Date (DD/MMM/YYYY)	24 Jul.	2017	True wind direction	300		
Time at start (UTC)	10.56		Ice type code	0		
Time at end (UTC)	11.45		Ice concentration code *	0		
Latitude at start / end	61°52.1 h	61°47.211	True platform speed (knots)	13.4		
Longitude at start / end	70°29.3W	70°08.6W	True platform direction	118		
Visibility (km)	20 KM	\wedge	Observation side	Starboard Port	Middle	
Weather code 🗯	0		Height of eye (m)	20 m		
Glare conditions code *	3		Outdoors or Indoors	Out or	(In)	
Platform Activity	Sauling		Notes			

[★]Refer to "Codes" datasheets



Date and Time of Slyhting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Gormin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Oirection	Age/Sex	Miligation Required?	Photo Number (if any)
24 Jul 17	118		V/2	61°52.1h 70°59.3U	Hooded	50	STAB	Curious	adult		
10.56	13.4		4 7 3	70059.34	3001	50		Curious	5-1 (Section 1996) (Section 1996)		
11.15	13.1		405		allam's	\$1500 To 30	STAB	Curous	mix		
11.25	116		3	61°48.3 h 70°13.5W	Dinged Seal	50M	SIBB		ж		
						(B)					
Votes:											

^{*} Refer to "Codes" datasheets



7 Fill out one sheet per 30 min observation period

Observation Period Infor	mation:	A	
	d 1 A.O	*	
Company/agency	boscagnes harvaides	Sea state code	
Platform name and type	acadia sescacues	Wave height (m)	
Observer (s)	Michel Galarmean	True wind speed (knots) OR Beaufort code	4.9
Date (DD/MMM/YYYY)	24 Jul 2017	True wind direction (deg)	40
Time at start (UTC)	81.8	Ice type code	0
Time at end (UTC)	9.25	Ice concentration code	0
Latitude at start / end	62°05.01 62°01.2 h	True platform speed (knots)	14.2
Longitude at start / end	71°26.1W 71°08.9W	True platform direction (deg)	118
Platform activity	Sailing	Observation side	Starboard Port
Visibility (km)	20 KM	Height of eye (m)	
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code★	3	Snapshot used?	Yes or No
Notes:			

		*	**					*	*		
*	Gt	Fly or	In .	#		P. 1	Flight	A3	Plum.4	C	Comments
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Direc.	Age ³	Prim.	Sex	Comments
IBMU	3	r	7,	SO							
tomu	2	F	4	50							
11511/07		-									
							-	_			
							-				
				42.5							
										1	
										_	

AGNICO FAGI E

7 Fill out one sheet per 30 min observation period

Observation Period Inform	nation:	A	
	1	*	
Company/agency	Sesco snes ransactic	Sea state code	, 1
Platform name and type	acadia Bescaches	Wave height (m)	1/2
Observer (s)	Milelyalaman	True wind speed knots) OR Beaufort code	13.3
Date (DD/MMM/YYYY)	24 Jul 2017	True wind direction (deg)	245
Time at start (UTC)	19.30	Ice type code	0
Time at end (UTC)	20.01	Ice concentration code	0
Latitude at start / end	61°02.4h 60°59.311	True platform speed (knots)	13.1
Longitude at start / end	66°56.0W 66°42.7W	True platform direction (deg)	118
Platform activity	Sailins	Observation side	Starboard Port
Visibility (km)	20 Am	Height of eye (m)	20 M
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code	3	Snapshot used?	Yes or No

Notes:		
[

		*	**				7	^	*		
* Species	# Count	Fly or Water?	In transect?	* Distance	Assoc.	Behav.	Flight Direc.2	Age ³	Phum. ⁴	Sex	Comments
iceá	2	F	7	50							
	Ĭ	F	7	10							Fly around +.
(c /8	ı	F		30							
V	l	É	7	30							



7 Fill out one sheet per 30 min observation period

Observation Period Inform	nation:	۱ پ	
Company/agency	Descacries (vansach)	Sea state code	5
Platform name and type	acadia Sesames	Wave height (m)	3 M
Observer (s)	Michelaternan	True wind speed (knots) OR Beaufort code	(1.7
Date (DD/MMM/YYYY)	24 Jul 2017	True wind direction (deg)	225
Time at start (UTC)	22812	Ice type code	0
Time at end (UTC)	22939	Ice concentration code	0
Latitude at start / end	60°46.9n	True platform speed (knots)	11.4
Longitude at start / end	65°49.8W	True platform direction (deg)	_114
Platform activity	Sailing	Observation side	Starboard Port
Visibility (km)	20 KM	Height of eye (m)	20M.
Weather code	0	Outdoors or Indoors	Out or 🔟
Glare conditions code	3	Snapshot used?	Yes or No
Notes:	Linuing 22 and Linux Ten		3000 N.H. 13 4 1005

		*	**				-		×		
* Species	* Count	Fly or Water?	In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Phun.4	Sex	Comments
BOVE	3	W	\ <u></u>	30 30							
				50							



Fill out one sheet per 30 min observation period

Observation Period Infor	mation:		
94		*	
Company/agency	Descarrance rangerales	Sea state code	
Platform name and type	action bescorces	Wave height (m)	1/2
Observer (s)	Michaeladornocu	True wind speed knots) OR Beaufort code	16.2
Date (DD/MMM/YYYY)	23 202017	True wind direction (deg)	242
Time at start (UTC)	10258	Ice type code	Q
Time at end (UTC)	11230	Ice concentration code	Q
Latitude at start / end	62°26.4 W 62°30.5 h	True platform speed (knots)	14.6
Longitude at start / end	81022,300 81008.20	True platform direction (deg)	57
Platform activity	Sailing	Observation side	Starboard Port
Visibility (km)	20 KM	Height of eye (nı)	20 m
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code★	3	Snapshot used?	Yes or No
Notes:			

		*	**				*	*	*		
* Species	; Count	Fly or Water?	In transect?	* Distance	Assoc.	Behav.	Flight Direc.2	Age ³	Phum. ⁴	Sex	Comments
DUE	2	E	4,	50 M							
BOUE		F	7	50m							



Fill out one sheet per 30 min observation period

Observation Period Infor	rmation:		
		★	
Company/agency	Sesca ques housbardil	Sea state code	0
Platform name and type	addia Bercomes	Wave height (m)	1/2
Observer (s)	Midel Galernacer	True wind speed knots) OR Beaufort code	6.1
Date (DD/MMM/YYYY)	23 Jul 2017	True wind direction (deg)	120
Time at start (UTC)	16920	Ice type code	0
Time at end (UTC)	16250	Ice concentration code	0
Latitude at start / end	62°425 N 62°41.9 N	True platform speed (knots)	12.6
Longitude at start / end	79°00.4W 78°46.3W	True platform direction (deg)	94
Platform activity	Souling	Observation side (Starboard Port
Visibility (km)	20 KM	Height of eye (m)	20 M
Weather code	\circ	Outdoors or Indoors	(III) of (III)
Glare conditions code*	3	Snapshot used?	Yes or No
Notes:			

							-4-					
		π	**						_			
*	707	Fly or	In	'n			Flight					
Species	Count	Water?	transect?	Distance	Assoc.	Behav.	Direc.2	Age	Phim.4	Sex	Comments	^
TBMU	13	F	4	50							3 obsavouro	12
TBMU	6	W	\/	50							antido var	
TBMU	6	F	Ý	50							lly around	S
TBMU	5	F	4	50			1				Volitoction	
TBMU	2	W	1	30								
TBMU	3	F	4	50								



Observation Period Inform	ation:					
Company/agency	besagnes 1	rawardik	Sea state code *		Triple!	
Platform name and type	Desgagnes 1 acadia De	sgagnes	Wave height (m)	0		
Observer (s)		darmaeu	True wind speed (knots) OR * Beaufort code	3.1		
Date (DD/MMM/YYYY)	23 Jul 2	017	True wind direction	305		
Time at start (UTC)	22231		Ice type code	0		
Time at end (UTC)	2320	\	Ice concentration code *	0		
Latitude at start / end	62°348 h	62°33.9 h	True platform speed (knots)	1-(.()	
Longitude at start / end	75°53.2W	75°37.5W	True platform direction	96		
Visibility (km)	20 Km		Observation side	Starboard	Port	Middle
Weather code *	0		Height of eye (m)	20 N	\wedge	
Glare conditions code	3		Outdoors or Indoors	o ut	4	(n)
Platform Activity	Sailing		Notes		_	

[★]Refer to "Codes" datasheets

Date and Time of Slyhting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Miligation Required?	Photo Number (if any)
235m 2017 22231/	23.0	l	M	o olu	serva	tian			n		
									12		
Notes:						<i>(6)</i>					

^{*} Refer to "Codes" datasheets



Fill out one sheet per 30 min observation period

Observation Period Inform	aanon:	.	
	1	la	
Company/agency	Desad sues hansandis	Sea state code	
Platform name and type	adia les ca mes	Wave height (m)	\bigcirc
Observer (s)	Mi Qeo Galarroan	True wind speed (mots) OR Beaufort code	3.1
Date (DD/MMM/YYYY)	23 Jul 2017	True wind direction (deg)	305
Time at start (UTC)	22031	Ice type code	0
Time at end (UTC)	23001	Ice concentration code	Q
Latitude at start / end	62°3484 62°3394	True platform speed (knots)	14.6
Longitude at start / end	75° 53.2W 75°375W	True platform direction (deg)	96
Platform activity	Souling	Observation side	Starboard Port
Visibility (km)	20 Km	Height of eye (m)	20 M
Weather code	0	Outdoors or Indoors	(m) et (h)
Glare conditions code	3	Snapshot used?	Yes or No
Notes:		· · · · · · · · · · · · · · · · · · ·	
Notes.			
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I			

						THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN CO				
	71	* *					_	*		
*	Fly or	In	*			Flight	,			198
Count	Water?	transect?	Distance'	Assoc.	Behav.	Direc.*	Age ²	Phun.	Sex	Comments
6	F	4	50M							
	Count	* Fly or Count Water?	* Fly or In Count Water? transect?	* Fly or In * Count Water? transect? Distance	* Fly or In * Assoc. Count Water? transect? Distance Assoc.	* Fly or In * Assoc. Behav.	* Fly or In * Flight Count Water? transect? Distance Assoc. Behav. Direc.2	* Fly or In * Flight Count Water? transect? Distance Assoc. Behav. Direc. Age	* Fly or In * Flight Count Water? transect? Distance Assoc. Behav. Flight Direc. Age Phun. *	* Fly or In * Count Water? transect? Distance Assoc. Behav. Direc. Age Plum. Sex



Observation Period Informa	ation:				
Company/agency	bescações (nausardis	Sea state code 🛨	0	
Platform name and type	dadia De	soques	Wave height (m)	0	
Observer (s)	Mileoge		True wind speed (knots) OR * Beaufort code	6.1	
Date (DD/MMM/YYYY)	22 Sul :	2017	True wind direction	115	
Time at start (UTC)	22-04		lce type code★	O	
Time at end (UTC)	22.34		Ice concentration code 🖈	0	
Latitude at start / end	62°16.4n	62°15.3 K	True platform speed (knots)	13.1	
Longitude at start / end	86° 59.2 W	86° 45.1W	True platform direction	098	
Visibility (km)	2011~	~	Observation side	Starboard Port	Middle
Weather code *	O		Height of eye (m)	20 m	
Glare conditions code	3		Outdoors or Indoors	Out of	(n)
Platform Activity	Soulen	5	Notes	secondolise of De do	erection

[★] Refer to "Codes" datasheets



Observation Period Infor	mation:					
Company/agency	bergagnes 1	ransarctis	Sea state code 🖈	0	Object	
Platform name and type	adadia be		Wave height (m)	0		
Observer (s)	Michogo	elamaen	True wind speed (knots) OR * Beaufort code	6.	\	
Date (DD/MMM/YYYY)	22 Jul 20)[7	True wind direction	ile		
Time at start (UTC)	16.02		ice type code)	
Time at end (UTC)	16.34	,	Ice concentration code *		<u> </u>	
Latitude at start / end	62°29.4 h	62°28.2 h	True platform speed (knots)	13.	1	
Longitude at start / end	89° 39.7 W	89°25.(W	True platform direction	090	7	
Visibility (km)	20K	w	Observation side	Starboard	Port	Middle
Weather code *	0		Height of eye (m)	200	W.	
Glare conditions code *	3		Outdoors or Indoors	Out	or	In
Platform Activity	Sailing		Notes			

[★] Refer to "Codes" datasheets

3.1		sakadi di					1		
	Y	62"29.4h 84°39.7W	4	50 M	45°	surfacing	7.	110	
							8		
							8		
				541					

^{*} Refer to "Codes" datasheets

Date and Time of Sighting	Vessel Trayel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Miligation Required?	Photo Number (if any)
22 Sul 22.10	098	0	4	62°.16.4 86°59.2	10 Ringed Seel	50W	Qo°				
									a		
										5,	
Notes:						F					

^{*} Refer to "Codes" datasheets



7 Fill out one sheet per 30 min observation period

Observation Period Info	rmation:		
Company/agency	Descarres housaide	Sea state code	
Platform name and type	acadra bescacres	Wave height (m)	
Observer (s)	Midel Calamacer	True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	22500	True wind direction (deg)	
Time at start (UTC)	16.02	Ice type code	
Time at end (UTC)	16.34	Ice concentration code	
Latitude at start / end	62°29,44 62°28,24	True platform speed (knots)	13.1
Longitude at start / end	89°39.7W 89°25.1W	True platform direction (deg)	099
Platform activity	Sailer	Observation side	Starboard Port
Visibility (km)	20 Km	Height of eye (m)	20 M
Weather code		Outdoors or Indoors	Out or (n)
Glare conditions code		Snapshot used?	Yes or No
Notes:			11

votes:			

*	*	* Fly or	, ★ In	*			Flight Direc. ²		× .		
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Direc.2	Age ³	Phun.4	Sex	Comments
MINCH	20	W	M	50m							
30.			- /1								



7 Fill out one sheet per 30 min observation period

Observation Period Information:									
		, ×							
Company/agency	Desagnes (rowardes	Sea state code	0						
Platform name and type	adadia besques	Wave height (m)	<u></u>						
Observer (s)	Midel Galaman	True wind speed (knots) OR Beaufort code	6.1						
Date (DD/MMM/YYYY)	22 Jul 2017	True wind direction (deg)	115						
Time at start (UTC)	22.04	Ice type code	0						
Time at end (UTC)	22.34	Ice concentration code	C						
Latitude at start / end	62°16.4 n 62°153 n	True platform speed (knots)	13.1						
Longitude at start / end	86°59.2W 86°45.1W	True platform direction (deg)	098						
Platform activity	Saileina	Observation side	Starboard Port						
Visibility (km)	20 km	Height of eye (m)	20m						
Weather code	0	Outdoors or Indoors	Out or (In)						
Glare conditions code	3	Snapshot used?	Yes or No						
Notes									

Notes:			

							-				
* Species	, Count	* Fly or Water?	#★ In transect?	* Distance ¹	Assoc	Behav.	Flight Direc. ²	Age ³	Phum.4	Sex	Comments
ingu	-/	W	4	50							
								<u> </u>			

Scan Information:

Company/agency	DESGAGNES TRANSARCTI	Weather code	0
Platform name and type	ACADIA DESGAGNES	Glare conditions code	į.
Observer (s)	18-07-2017	Sea state code	2
Date (DD/MMM/YYYY)	MICHEL LACTORY	Wave height (m)	0.6
Time at start (UTC)	0900 EDT./1300 WTC	True wind speed (knots) OR Beaufort code	25ks
Latitude	62° 46.6' N	True wind direction (deg)	NW 310°
Longitude	092°06.1'W	Ice type code	8
Platform activity	UNLOADING CARGO	Ice concentration code	Ø
Scan type	180° er other (specify:)	Height of eye (m)	2 8 H.
Scan direction	WXN	Outdoors or Indoors	Out or (In)
Visibility (km)	LOKMS		ÎN

Notes: NO OBSERVATION DURING THE DAY, STRONG WIND ALL DAY, OCCASIONAL RAIN, SQUALL.

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
GULL	1	FLY	Y	E			ND				LIKELY LOOK FISH

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 no apparent direction

 $^{^{3}}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Scan Information:

Company/agency	DESGAGNES TRANSARCT	Weather code	0
Platform name and type	ACADIA DESGAGNES	Glare conditions code	1
Observer (s)	MICHEL LACROIX	Sea state code	
Date (DD/MMM/YYYY)	19-07-2017	Wave height (m)	0.3
Time at start (UTC)	10:00 U.T.C.	True wind speed (knots) OR Beaufort code	15KTS
Latitude	620 46.6' N	True wind direction (deg)	230°
Longitude	092° 06.1' W	Ice type code	Ø
Platform activity	OFF LOADING ANCHORAG	Ice concentration code	Ø
Scan type	180° or other (specify:	Height of eye (m)	2 6
Scan direction	W'LY	Outdoors or Indoors	Out or In
Visibility (km)	IOKHS		

Notes:		
	N. Control of the Con	

Pila inioli	uation.	uns neid <u>n</u>	nust oc compi	Clour for outling							
* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ^I	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
GLGU	Count	FLY	Y	C			ND	A			LIKE LOOK FISH
GLGU	1	FLY	Y	C			SW	A			
GULL	l	FLY	Y	Ď			W	A			
GULL	2	FLY	У	0			NE	A			
										_	
						-					
				-			<u> </u>				
-										-	
		-									
					×						

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 100m, S = 100m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 100 no apparent direction 3 J (uvenile), J (mmature), or J (dult); 4 J (reeding), J (non-breeding), J J (uvenile).

Scan Information:

Company/agency	AGNICO EAGLE	Weather code	l.
Platform name and type	ACADIA DESGAGNES	Glare conditions code	3
Observer (s)	MICHEL LACROIX	Sea state code	4
Date (DD/MMM/YYYY)	20-07-2017	Wave height (m)	0.8M
Time at start (UTC)	1000 U.T.C.	True wind speed (knots) OR Beaufort code	25/30krs
Latitude	62°46.6' N	True wind direction (deg)	320°
Longitude	092°06.1'W	Ice type code	Ø
Platform activity	ANCHOREDIOFF LOAD	Ice concentration code	Ø
Scan type	180° or other (specify:	Height of eye (m)	20 M
Scan direction	NW'LY	Outdoors or Indoors	Out or In
Visibility (km)	12KMS		

Notes:		

DILG TITIOTE	uation.	dis note 5	tant of comp.				7				
* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
GLGU		FLY	У	B			NE	A			
GLGU	i	FLY	Y	B			NE	A			
GLGU		FLY	ý	C			NE	A			
GULL		FLY	Ý	E			DN	A			LIKELY LOOK FISH
COLC								-			
		-									
	-										
								-	-	-	
					-		1	-			
			-	-		-	-	+-			
	-	-					+	+-	1		
		1	1		+		1				
1		1								-	

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND =no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Scan Information:

Company/agency
Platform name and type

Observer (s)

Date (DD/MMM/YYYY)

Time at start (UTC)

Latitude

Longitude

Platform activity

Scan type

Scan direction

Visibility (km)

AGNICO EAGLE	7
ACADIA DECGAGNICA	
MICHEL LACROIX 21-07-2017	
	1
1000 UTC	
62°46.6'N 092°06,1'W	
HNCHORED & OFFICE	
180° or other (specify:)	
MILY	

Weather code
Glare conditions code

Sea state code

Wave height (m)

True wind speed (knots) OR Beaufort code

True wind direction (deg)

Ice type code

Ice concentration code

Height of eye (m)

Outdoors or Indoors

	2	
	03	
	10/15	
	290°	
	Ø	
Out	20M	

Notes: CALM DAY, LESS WIND, MOST OBSERVATION LOOK LIKE FISHING BEHAVIOR UPI DOWN & N.D.

Bird Information: *this field must be completed for each record

*	*	* Fly or	* In semi-				Flight Direc. ²				
Species	Count	Water?	circle?	Distance ¹	Assoc.	Behav.	Direc. ²	Age ³	Plum.4	Sex	Comments
GULL		FLY	У	D		. 49	N'LY	A			
GLGU		FLY	Y	B			NW	Α		- 3	
GLGU	1	FLY	V	B			NW	A		7	
GLGU GLGU	1	FLY	У	C		A 100	Siy	A			
GLGU		FLY	У	C			ND	A	- 3		LIKELY LOOK. FISH
GULL	2	FLY	Y	D	1		NID	Α		3	HIRELY LOOK. FISH FISHING
			7						14		77
			19		145						
		14									
		(3)				3					
			的现在分词 可能是				1 27				
			ė.	31			*				
							(GE2)=11				
				-11							
											a, j
				131							

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction³J(uvenile), I(mmature), or A(dult); ⁴B(reeding), NB(non-breeding), M(oult)

AGNICO EAGLE

Observation Period Inform	The same of the sa	ation policy				
Company/agency	bosgognos 1	nan saicted	Sea state code *			
Platform name and type	acadia be	sgagnes	Wave height (m)	lm		
Observer (s)	Michog		True wind speed (knots) OR * Beaufort code	23.5		
Date (DD/MMM/YYYY)	18502	017	True wind direction	30	<u></u>	
Time at start (UTC)	9.00		Ice type code★	0		
Time at end (UTC)	9.29		Ice concentration code 🖈	C		
Latitude at start / end	62°36.8 h	62°38.3 H	True platform speed (knots)	10.2		
Longitude at start / end	91°027W	91°13.1W	True platform direction	285	•	
Visibility (km)	20		Observation side	Starboard	Port	Middle
Weather code *	0		Height of eye (m)	20	M	
Glare conditions code	3		Outdoors or Indoors	Out	or	(n)
Platform Activity	Sailing		Notes			

[★]Refer to "Codes" datasheets



Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GP\$)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Аде/Бех	Miligation Required?	Photo Number (if any)
18 Jul 1	400	lisa	. vei	tian							
								-	32		
Notes:						o					

^{*} Refer to "Codes" datasheets



7 Fill out one sheet per 30 min observation period

·										
Observation Period Information:										
		*								
Company/agency	Desagnes housandes	Sea state code	0							
Platform name and type	acidid besaganes	Wave height (m)	IM							
Observer (s)	Michel Galarmacer	True wind speed (knots) OR Beaufort code	23.5							
Date (DD/MMM/YYYY)	18 Jul 2017	True wind direction (deg)	300							
Time at start (UTC)	9.00	Ice type code	0							
Time at end (UTC)	9.29	Ice concentration code	0							
Latitude at start / end	62°36.8 h 62°38.3 h	True platform speed (knots)	(0.2)							
Longitude at start / end	91°02.7W 91°13.1W	True platform direction (deg)	285							
Platform activity	Sailing	Observation side (Starboard Port							
Visibility (km)	20	Height of eye (m)	20 M							
Weather code	0	Outdoors or Indoors	Out or 🕼							
Glare conditions code	3	Snapshot used?	Yes or No							
Notes:										
ivenes,										

*	# 87	* Fly or	∗★ In	* .			Flight		×		
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Direc.2	Age ³	Phm.4	Sex	Comments
TBMU	4	F	Y	50							100
inkn	2	F	7	50							analic fly
			-			Α.			-		. 01
COEL	2	-	4	50,	ust	after	alusa	100	lian	50	word
	-			7	0 =	0					
	-										

Observation Period Info	heet per observation period		Day 3	AGNICO EAC
Company/agency	Marana I sad			
Platform name and type	dadia les gagnes	Sea state code ★	4	
Observer (s)			1.5	
Date (DD/MMM/YYYY)	Juliane	True wind speed (knots) OR ★ Beaufort code	15.9	
Time at start (UTC)	17 Jul 2017	True wind direction	300	
Time at end (UTC)	22.04	Ice type code★	0	
Latitude at start / end	22.34	Ice concentration code *		
ongitude at start / end	62°16.6 N 62°17.5 N	True platform speed (knots)	11.7	
isibility (km)	86°57.1W 87°08.8W	True platform direction	11.4	
/eather code ★	20	Observation side	277 Starboard Port	
lare conditions code	0	Height of eye (m)		Middle
	3	Outdoors or Indoors	20 m	
atform Activity	Sailing	Notes	Out or	(In)
Refer to "Codes" datas	heets			



Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Miligation Required?	Photo Number (if any)
Sul	Deg 17	、つつ	17	Mo	olise	n ved	tion				
									8		
						1					1
						jæ					

^{*} Refer to "Codes" datasheets



Observation Period Infor	mation:	*	v.
Company/agency	Description rangelies	Sea state code	4
Platform name and type	acadia bercaches	Wave height (m)	1.5 m
Observer (s)	M. Galarneau	True wind speed (knots) OR Beaufort code	15.9
Date (DD/MMM/YYYY)	17 Jul 2017	True wind direction (deg)	300
Time at start (UTC)	22.04,	Ice type code	O
Time at end (UTC)	22.34	Ice concentration code	Ö
Latitude at start / end	62° 16.64 62°17.5 h	True platform speed (knots)	11.4
Longitude at start / end	86° 57.1W 87°08.8 W	True platform direction (deg)	277
Platform activity	Sociaina	Observation side	Starboard Port
Visibility (km)	20 Km	Height of eye (m)	20 M
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code	3	Snapshot used?	Yes or No
Notes;			

								-			
* Species	÷ Count	* Fly or Water?	"★ In transect?	* Distance	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
TBM1		T	4	50							
											-



7 Fill out one sheet per 30 min observation period

Observation Period Inform	nation:		
		*	120
Company/agency	Description Lauranches	Sea state code	4
Platform name and type	avidia Sercacues	Wave height (m)	1.5
Observer (s)	M. galamacie	True wind speed (knots) OR Beaufort code	8 /
Date (DD/MMM/YYYY)	17 Jul 2017	True wind direction (deg)	290
Time at start (UTC)	19.43	Ice type code	٥
Time at end (UTC)	20.15	Ice concentration code	0
Latitude at start / end	62° 12 0 N 62° 13.1 N	True platform speed (knots)	1.11
Longitude at start / end	86°02.6W 86°14.8W	True platform direction (deg)	280
Platform activity	Souling	Observation side	Starboard Port
Visibility (km)	20 Km	Height of eye (m)	20 M
Weather code	1	Outdoors or Indoors	Out or (fi
Glare conditions code		Snapshot used?	Yes or No
Notes:			

							-4-				
* Species	* Count	* Fly or Water?		* Distance	Assoc.	Behav.	Flight Direc. ²	Age ³	Phum.4	Sex	Comments
operes	Count	Water	nanscu:	Distance	ASSOL.	Denay.	Date.	Age	I Ruii.	JAA	Comments
1				<u>.</u> .							
Λ	00	luse	(value	1							
										_	

AGNICO EAGLE

7 Fill out one sheet per 30 min observation period

Observation Period Infor	mation:		
	-10	*	, , , , , , , , , , , , , , , , , , , ,
Company/agency	Sexcerces rangedes	Sea state code	if
Platform name and type	acadia Desagues	Wave height (m)	2
Observer (s)	M. Galamaar	True wind speed (knots) OR Beaufort code	20
Date (DD/MMM/YYYY)	17 Sul 2017	True wind direction (deg)	210
Time at start (UTC)	10.27	Ice type code	0
Time at end (UTC)		Ice concentration code	0
Latitude at start / end	62°00.111	True platform speed (knots)	8-2
Longitude at start / end	87°439W	True platform direction (deg)	238
Platform activity	Souleric Dal speed.	Observation side	Starboard Port
Visibility (km)	· I FM	Height of eye (m)	20 M
Weather code	3	Outdoors or Indoors	Out or In
Glare conditions code		Snapshot used?	Yes or No
		26	50

lotes:	No observation and due to dense for	
	Mo observation and due to dense jogs and observer at the wheel.	

* Species	* Count	* Fly or Water?	# ★ In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc.2	Age ³	Phum.4	Sex	Comments
_											

AGNICO EAGLE

Observation Period Inform	ation;					
Company/agency	Desgagnes	ransanctil	Sea state code *	0	A STATE	
Platform name and type	addice Des	gagnés	Wave height (m)	.5		
Observer (s)	Michel	Damaeu	True wind speed (knots) OR * Beaufort code	2.0	7	
Date (DD/MMM/YYYY)	16 Jul 20	017	True wind direction	2(0)	V
Time at start (UTC)	11.37		lce type code★)	
Time at end (UTC)	12.07		Ice concentration code 🛨	C)	
Latitude at start / end	62°31.1 N	62°31.49	True platform speed (knots)	(1,4	_/	
Longitude at start / end	73°53.1W	7 4°00 W	True platform direction	27	(
Visibility (km)	10 K		Observation side	Starboard	Port	Middle
Weather code *	0		Height of eye (m)	20	M	
Glare conditions code	l		Outdoors or Indoors	Out	or	(in)
Platform Activity	Sailing		Notes			

^{*}Refer to "Codes" datasheets

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lab'Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Miligation Required?	Photo Number (if any)
(6 Yal	271 11.4	0	N	62°31.1 h 73°53.1 W	alantic Walnus 3	100 lo 50 m	mooving 100 90°	sension.	malue Oscal Imale		
									ZI.		
				1							
Notes:											

[★] Refer to "Codes" datasheets



7 Fill out one sheet per 30 min observation period

Observation Period Inform	nation:	*	
Company/agency	Desa nansarchis	Sea state code	0
Platform name and type	acadia Desa.	Wave height (m)	0 +
Observer (s)	M. Galaman	True wind speed (knots) OR Beaufort code	4.7
Date (DD/MMM/YYYY)	16 Jul 2017	True wind direction (deg)	250
Time at start (UTC)	09.27	Ice type code	0
Time at end (UTC)	10.00	Ice concentration code	\circ
Latitude at start / end	62° 26.5 n 62° 29.3	True platform speed (knots)	(2.1
Longitude at start / end	72°59,1 W 73°11.8	True platform direction (deg)	296
Platform activity	Sailing	Observation side	Starboard Port
Visibility (km)	10	Height of eye (m)	20M
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code		Snapshot used?	Yes or No

Notes:		

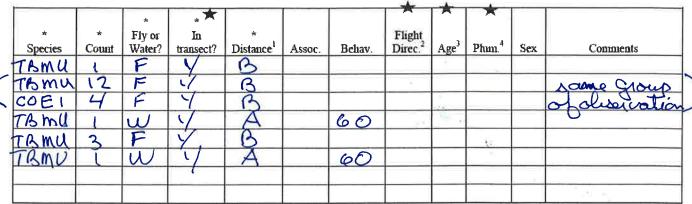
* Fly or In * Assoc. Behav. Direc. Age Phum. Sex Comments TRMU - Fay V B V B TRMU 1 Fay V B								-4-				
Species Count Water? transect? Distance! Assoc. Behav. Direc.2 Age? Phum.4 Sex Comments TBMU 2 Fay 7 B 79 UNAA 1 Fay 7 B 79 TBMU 1 FAY 7 B			*	**						*		
Species Count Water? transect? Distance Assoc. Behav. Direc. Age Phum. Sex Comments TBMU 4 Fou 1 B 4 C 6 TBMU 2 Fou 1 B 4 C 6 TBMU 1 Fou 1 B 6 C 6 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C		<u></u>	Fly or	In	* .			Flight	,	١,		
TBMU 2 FRY Y B Y9	Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Direc.	Age ²	Phum."	Sex	Comments
TBMU 2 Fay Y B 49 IBMU 1 Fay Y B	TBMU	4	Fly	N	B		*					
TBMU i red y	TBMU	2		1	B		49					
	unas		Eeu	4	B							
	TBMU		rey	4	3							
	TBMU	2		n	13							
			- 1		171 171							



Fill out one sheet per 30 min observation period

Company/agency	berodgues housandle	Sea state code	0
Platform name and type	adadia Lisquenes	Wave height (m)	1 m
Observer (s)	M. Galarneau	True wind speed knots) OR Beaufort code	24.5
Date (DD/MMM/YYYY)	16 Jul 2017	True wind direction (deg)	220
Time at start (UTC)	19.37	Ice type code	0
Time at end (UTC)	19.12	Ice concentration code	0
Latitude at start / end	62°37.5 N 62°37.8 n.	True platform speed (knots)	11.8
Longitude at start / end	78°485W 77°00.1W	True platform direction (deg)	269
Platform activity	Sailing	Observation side	Starboard Port
Visibility (km)	10	Height of eye (m)	20 M
Weather code		Outdoors or Indoors	Out or 🕡
Glare conditions code	1	Snapshot used?	Yes or No

Bird Information: *this field must be completed for each record





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7 Fill out one sheet per 30 min observation period

Observation Period Information:



		X	44
Company/agency	besaggies housaidit	Sea state code	\
Platform name and type	adadia Desgaçues	Wave height (m)	1 m
Observer (s)	M. Galarmoon	True wind speed (knots) OR Beaufort code	8
Date (DD/MMM/YYYY)	16 Jul 2017	True wind direction (deg)	210
Time at start (UTC)	22.19	Ice type code	0
Time at end (UTC)	22.49	Ice concentration code	0,
Latitude at start / end	62°41. h 62°41.4 h	True platform speed (knots)	12.4
Longitude at start / end	78°20.4 W 78°336W	True platform direction (deg)	276
Platform activity	Sailens	Observation side	Starboard Port
Visibility (km)	15 Km	Height of eye (m)	20 M
Weather code	0	Outdoors or Indoors	Out or In
Glare conditions code 🖈	3	Snapshot used?	Yes or No

Notes:	

			**				*		*		
*	*	Fly or	In	*		5.4	Flight		TN 4	, ,	
Species	Count	Water?	transect?	Distance'	Assoc.	Behav.	Direc.	Age ³	Phum. ⁴	Sex	Comments
TBMU	6	F	y	13							
DOVE	2	W	Ý	A							
TBMU		F	4	B							
TBMU	10	F	Ý	B							
DOVE	12	F	γ	B							
DOVE	2	W	4	A							

AGNICO EAGLE

MARINE MAMMAL PROGRAM

Observation Period Inform	nation:					
Company/agency	besagagues Transardie	Sea state code ★	1			
Platform name and type	Ocadia Desgagnes	Wave height (m)	1			
Observer (s)	Michel Galarneau	True wind speed (knots) OR * Beaufort code	18			
Date (DD/MMM/YYYY)	15-Jul-2017	True wind direction	270			
Time at start (UTC)	19205	Ice type code	-3			
Time at end (UTC)	19235	Ice concentration code *	(
Latitude at start / end	61° 12.34 n 61° 14'	True platform speed (knots)	10			
Longitude at start / end	67° 39.114 67°48'	True platform direction	295			
Visibility (km)	10 KM	Observation side	Starboard Port Middle			
Weather code 🖈	1	Height of eye (m)	20 m			
Glare conditions code	2,	Outdoors or Indoors	Out or In			
Platform Activity	Sailing	Notes				

[★]Refer to "Codes" datasheets



Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Saa State	Re-Sighting? (Y or N)	Signting Waypoint or Lat/Long(Garmin GPS)	\$pecies, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behavious/Travel Direction	Age/Sex	Miligation Required?	Photo Number (if any)
15 Jul 2017 19205	295	l		61° 12	h A	/	/	/	/		-
_											
Notes:		5			=						

^{*} Refer to "Codes" datasheets

SEABIRD SURVEY PROTOCOL – MOVING VESSEL



7 Fill out one sheet per 30 min observation period

Observation Period Inform	nation:	*	
Company/agency	Descognes namarche	Sea state code	_ \
Platform name and type	acidia Dercaches	Wave height (m)	2)
Observer (s)	Mileo Salamoan	True wind speed (mots) OR Beaufort code	18
Date (DD/MMM/YYYY)	15 Jul 2017	True wind direction (deg)	270
Time at start (UTC)	19205	Ice type code	3
Time at end (UTC)	19935	Ice concentration code	
Latitude at start / end	61012' 61014'	True platform speed (knots)	10
Longitude at start / end	67039 67048	True platform direction (deg)	295
Platform activity	Souling	Observation side	Starboard Port
Visibility (km)	10 Km	Height of eye (m)	20m
Weather code		Outdoors or Indoors	Out or (fn)
Glare conditions code 🛨	2	Snapshot used?	Yes or No
Notes:		-	

			-				-		- 4		
s Species	* Count	Fly or Water?	# ★ In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc.2	Age ³	Phum. ⁴	Sex	Comments
TBMU	5	Fay	Y	B			NA				
TBMU	7	My	Y	B			W				
TAMU	4	Dly	7	B			N				
		\ \	1.18								

SEABIRD SURVEY PROTOCOL - MOVING VESSEL

AGNICO EAGLE

7 Fill out one sheet per 30 min observation period

Observation Period Inform	ianou:	*	
Company/agency	Descretes hansacht	Sea state code	i d
Platform name and type	aradia sescaques	Wave height (m)	2
Observer (s)	MiloGatamacu	True wind speed knots) OR Beaufort code	17.6
Date (DD/MMM/YYYY)	15 Jul 2017	True wind direction (deg)	270
Time at start (UTC)	22230	Ice type code	3
Time at end (UTC)	230	Ice concentration code	
Latitude at start / end	61027,2 61029.5	True platform speed (knots)	11.7
Longitude at start / end	68°40,9 68°52.4	True platform direction (deg)	295
Platform activity	Salina	Observation side	Starboard Port
Visibility (km)	10	Height of eye (m)	20 M
Weather code	T T	Outdoors or Indoors	Out or In
Glare conditions code	2	Snapshot used?	Yes or No

Notes:	
TAMES.	
I .	
1	
1	

							mAir				
*	*	* Fly or	"★ In	Ŕ			Flight		*		
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Direc.2	Age ³	Phun.4	Sex	Comments
TBMU	2	W	Y	205 A							
TBMU		F	Ý.	A							
Unga	2	F	ν,	A							
TBPHU	do	W	Y	\triangle							

SEABIRD SURVEY PROTOCOL - MOVING VESSEL

AGNICO EAGLE

Fill out one sheet per 30 min observation period

Observation Period Inform	nation:	.	
Company/agency Platform name and type Observer (s)	Desagner homaidic acadia Desgagner M. Galarreau	Wave height (m) True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	15 July 2017	True wind direction (deg)	
Time at start (UTC)	60	Ice type code	
Time at end (UTC)	a de la companya de l	Ice concentration code	
Latitude at start / end	60° 32.2	True platform speed (knots)	
Longitude at start / end	64048.9	True platform direction (deg)	
Platform activity	sailing through see	Observation side	Starboard Port
Visibility (kan)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out or In
Glare conditions code 📥		Snapshot used?	Yes or No

Notes:	Mo	aliservation	possible	I	

* Species	* Count	* Fly or Water?	ın transect?	* Distance	Assoc.	Behav.	Flight Direc. ²	Age ³	Phun. ⁴	Sex	Comments
											l l

				seabii u si	urvey protocol- r	noving ves	sei					
species count	fly or water	in tran	se distance ass	60 (1)	behaviour	flight direction	age	plum	sex	comments	CHIEF CONTROL	position
thayers gull	1 sitting on the ship	no	50m	3.	sitting on the container	circle	# 42555 A	**************************************		-	\$	54-21.6N /056-0
sabine's	2 fly	no	20m	-	flying	circle	-		-	-	&	59-09'N/021-08'
thayers gull	2 fly	no	100m	-	flying	circle		,	-		\$10000000000000000000000000000000000000	59-09'N/021-08
pomarine jaeger	1 fly	no	100m	-	flying	circle	-		-	-		59-02'N/029-07
olack scoter	1 swim	no		-	swimming	-	<u> </u>	,	22.12.12.12.12.12.12.12.12.12.12.12.12.1	1	in management with the common	62-55.6'N/079-0
oomarine jaeger	5 fly	no	30m	-	flying	circle	_	-	_	-	2017-03-08	61-30.2'N/068-3
				-			<u> </u>				l	
	•				whales							
day hour	observed posicition	wind	sky spe	rcies	count	remarks	location	certainty				
2017-07-01	2000 54-14.6'N/055-59.0'W		1 1 kille	er whale	approximilty 4		Labrador	1				
2017-07-02	1030 56-34'N/057-44.5'W		1 2 pilo	ot whale	approximilty 10		Labrador	2				
2017-07-02	1710 57-59.2'N/059-34.3'W		1 0 pilc	ot whale	approximilty 8		labrador			>		
2017-07-06	0942 62-20'N/074-00'W		1 2 mo	rse	2	1 adult/1 young	charles isl.					
2017-07-15	1420 63-03.0'N/083-50'W			ot whale	approximilty 10		coats isl.	3				
2017-07-20	1153 55-05'N/064-23.0'W		1 1 hur	mpback whales	2 / approximitly 5		anticosti	1				
2017-07-30	1945 49-57.7'N/064-36.0'W			ot whale			anticosti	1				
	1945 49-57.7'N/064-36.0'W	·	1 1 hur	mpback whales	between 3-6		anticosti	1				
2017-07-30	17-37-37.7 N/00-1 30:0 11						labrador					

Observation Period Information:

Company/agency
Platform name and type

Observer (s)

Date (DD/MMM/YYYY)

Time at start (UTC)

Time at end (UTC)

Latitude at start / end

Longitude at start / end

Platform activity

Visibility (km)

Weather code

Glare conditions code

	SGAGNES
CLAUDE A. DE	SGAGNES (ORGO
SANDRA LEBON	
26/06/2017	
2100	
2230	
61°32.1'N	61°34.3'N
067°44.7'W	68.03-A,M
TRAVELING	
~10	
1	
^	

Sea state code

Wave height (m)

True wind speed (knots) OR
Beaufort code

True wind direction (deg)

Ice type code

Ice concentration code

True platform speed (knots)

True platform direction (deg)

Observation side

Height of eye (m)

Outdoors or Indoors

Snapshot used?

1	
<1m	
	BEAUFORT)
030°(1	9
3-4	
5	
5 8 (soq)	1(STW)
8 (soq)	INW)
8 (sog) VAR (N	INW)
8 (sog) VAR (N	Port

Notes: SHIP IS FOLLOWING ICE-BREAKER ~. 6 NH

Bird Information: *this field must be completed for each record

*	*	*	* In	*			Flight				
Species	Count	Fly or Water?	transect?	Distance ¹	Assoc.	Behav.	Direc. ²	Age ³	Plum.4	Sex	Comments
UNKN	l	FLY	4	C	PAR	Demary	SW	1	174		BLACK, SMALL, FAST
TBMU		WATER	. 4	C	27		×	2			
TBMU	1	FL4	4	0	27			1			
TBMU	1	WATER		В	27			2			
TBMU	1	WATER	4	D	27			7			
TBMU	ع	WATER	4	В	27						PAIRED
UNGU		FLY	4	C	27		NW				WHITE
TBMU	_	WATER	W	E	27	1					CLOSE TO ICE, DOVE.
(BN4		WATER	4	8	27						
TBMU	5	FLY	4	<u>A</u>	भ		NE				LANDED ON ICE
TBMU `	5	WATER	4	C	27						SAME GROUP ????
BMU	1	FLY	4	C	27	71?					
1BH4	a	WATER		C	27						
PPNU	1	FU	4	C	27	41?					CIGHT GREY, SOME WHITE
TBMU		EVATE	4	В	27						
PAJA?		FLY	4	B	16	49					CIRCLING BY THE SIDE ~20
TBMU	à	FLY	Ÿ	A	a7						

 $^{1}A = 0.50$ m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

TBH4	4	LUATER	4	10	127 1	1
TBHY	3	WATER	Y	C	27	l
TBHU	Ĭ	WATER	4	D	27	2
THATER'S	li	FLY	4	C	27	
GULL !	l i	FLY	4	B	193	1

PASSED/EROSSED THEBOW ~ Som

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
-53∞ 933° 101019°19	N	ro Si	GHT	NG							
Notes:											

Observation Period Infor	mation:		
Company/agency	GLANGE TRANSP. DESGAGNES	Sea state code	ı
Platform name and type	CLAUDE A . DESGAGNES (GENERAL CARGO SHIP)	Wave height (m)	41m
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	4 (BEAUFORT)
Date (DD/MMM/YYYY)	26/06/2017	True wind direction	015°(T) (NNE)
Time at start (UTC)	.2330 2230	Ice type code	3-4
Time at end (UTC)	2300	Ice concentration code	5
Latitude at start / end	61°34.3'N	True platform speed (knots)	7 (STW) 8 (SOG)
Longitude at start / end	68°07.4'W	True platform direction	VAR (NNW)
Visibility (km)	~ (0 km	Observation side	Starboard Port Middle
Weather code	1	Height of eye (m)	20 m
Glare conditions code	1	Outdoors or Indoors	Out or In
Platform Activity	NA TRANEUNG	Notes	FOLLOWING ICE-BROKE

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Observation Period Information:

		20	
Company/agency	TRANSPORT DESCAGNES	Sea state code	(BEAUFORT)
Platform name and type	CLAUDE A DESCAGNES (GEN.CARLOSHIP)	Wave height (m)	(0.5m
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	15 kts
Date (DD/MMM/YYYY)	27/06/2017	True wind direction (deg)	300°(7)
Time at start (UTC)	2115	Ice type code	X
Time at end (UTC)	2245	Ice concentration code	0
Latitude at start / end	62°30.7'N 62°42.1'N	True platform speed (knots)	13 (STW) 13 (SOG)
Longitude at start / end	072° 15.6'W 172°46.4'W	True platform direction (deg)	VAR (NW)
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	>10km	Height of eye (m)	20m
Weather code	1	Outdoors or Indoors	Out or (fin)
Glare conditions code	0	Snapshot used?	Yes or No

Notes: NO	ICE.
-----------	------

				Total Total Total T							
* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
UNGU	1	FLY	4	C			SE				PASSED BEHIND SHIP, ARE
UNGU	1	FLY	4	A	18/20		NW				WHITEGULL
ungu	ı	FLY	4	В	20		NW				GREY-ISH
unau		FLY	4	В	20						
TBMU	4	FLY	N	В							OTHER SIDEOFSHIP
	•										
							1				
							i -				
							1				
							 				
							-				
							-				

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); $^{4}B(\text{reeding})$, NB(non-breeding), M(oult)

Observation Period Inform	nation:	P. (5)			
Company/agency	TRANSPORT DESGAGNES	Sea state code	3		
Platform name and type	(GEN. CARGO SHIP)	Wave height (m)	<1m		
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	6 (BEAUTORT)		
Date (DD/MMM/YYYY)	27/06/2017	True wind direction	270° (T)		
Time at start (UTC)	2245	Ice type code	NA		
Time at end (UTC)	2315	Ice concentration code	0		
Latitude at start / end	62°42.1'N 62°45.8'N	True platform speed (knots)	12kts		
Longitude at start / end	072°46.4" 072°55.71W	True platform direction	308° (T)		
Visibility (km)	>10 km	Observation side	Starboard Port Middle		
Weather code	Ì	Height of eye (m)	20m		
Glare conditions code	0	Outdoors or Indoors	Out or in		
Platform Activity	TRAVELING	Notes	NO ICE		

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea Stata	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Traval Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
<i>24106/17</i> 2245 2315	NO	5141	4711	9							
										i,	

*

Species	How Animal Was	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown



Observation Period Inform	bservation Period Information:									
Company/agency	TRANSPORTDESGAGNES	Sea state code	4							
Platform name and type	CLAUDE A DESCAGNES (GEN CARCOSHIP)	Wave height (m)	1m							
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	13 kts							
Date (DD/MMM/YYYY)	28/06/2019	True wind direction	015°							
Time at start (UTC)	2245	Ice type code	Noice							
Time at end (UTC)	2316	Ice concentration code	0							
Latitude at start / end	63°11.5 N 63°11.7 N	True platform speed (knots)	13 kts							
Longitude at start / end	080°18.5'W&0°33.7'W	True platform direction	275°(T)							
Visibility (km)	>10 km	Observation side (Starboard Port Middle							
Weather code	0	Height of eye (m)	Dom							
Glare conditions code	2 43	Outdoors or Indoors	Out or In							
Platform Activity	TRAVELING	Notes								

MELIADINE GOLD MINE

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sez State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigetion Required?	Photo Number (if any)
Notes:											

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Observation Period Information:

Company/agency Sea state code TRANSPORT DESCAPINES CLAUDE A DESGAGNES (CARGO SHIP) Platform name and type Wave height (m) SANDRA LEBON True wind speed (knots) OR (BEAUTORT) Observer (s) Beaufort code 2810612017 Date (DD/MMM/YYYY) 000° (T) True wind direction (deg) 2115 Time at start (UTC) Ice type code 2245 Time at end (UTC) Ice concentration code 63°15.5'N 63°11.5'N Latitude at start / end 13.7 kbs True platform speed (knots) 079°36.4'W 080°18.5'W 220°(T) Longitude at start / end True platform direction (deg) Platform activity Starboard Port Observation side TRWELLING Visibility (km) > $10 \, \text{km}$ Height of eye (m) 200 Weather code Outdoors or Indoors Out (In or Glare conditions code Snapshot used? Yes or (No)

Notes: SUN REFLECTING ON WATER MAKES OBSERVATION DIFFICULT

*	*	* Fly or Water?	* In transect?	* Distance!	A	Dahan	Flight Direc. ²	A 3	DI 4	S	Q
Species	Count		transect?	Distance ¹	Assoc.	Behav.		Age ³	Plum.4	Sex	Comments
UNKN	7	FLY	7	\mathbb{D}			N				BOBABLY TBMU
UNKN	3	FLY	7	E	27		IN				PROBABLY TBMU
UNKN	İ	FLY	Y	D			N				BPROBABLY TBHU
UNKN	l l	FLY	7	E			W				PROBABLY TBMU BPROBABLY TBMU WHITE+DARK (PAR)
UNKN	2	FLY	7	E			W				
TBMU	A	FLY	N	B			W				OTHER SIDE
TBMU	(FLY	4	Ċ			E				
								_		_	
							-				
	_				1						

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m, within 300 m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 $^{^{3}}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Information:

			r.	/ =
Company/agency	TRANSPORT DESC	PAGNES	Sea state code	1
Platform name and type	CLAUDE A. DESGA	IGNES CARGO SHIP	Wave height (m)	<1m
Observer (s)	SANDRA LOBOR	1	True wind speed (knots) OR Beaufort code	8kts
Date (DD/MMM/YYYY)	29/06/2017		True wind direction (deg)	150°
Time at start (UTC)	9900		Ice type code	3
Time at end (UTC)	2330		Ice concentration code	0
Latitude at start / end	62°36.4'N	62°40-71N	True platform speed (knots)	13 bbs
Longitude at start / end	090°39.6'W	1091°30.5'W	True platform direction (deg)	290°
Platform activity	>lokm, TRA	AVELING	Observation side	Starboard Port
Visibility (km)	2		Height of eye (m)	20 m
Weather code	0		Outdoors or Indoors	Out or 🕼
Glare conditions code	3		Snapshot used?	Yes or (No)
N. dani			N :	
Notes:				

* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments	
UNKN	2	ONICE	2	E	27						WHITE, FAR	1
UNDY	2	FLY	Y	В			NN				BLACK	
INKN	~ კა	FLY	7	E			N				DARK (BROWN?), LOW ON	WATE
haypr's gull	4	ONICE	4	C	27						RESTING	1
T		FLY	4	В							TOWARDS SHIP	1
UNGU	1	CLY	4	C								1
upac	1	PEY	4	C	27		W					1
							4					1
												1
												1
												1
												1
												1
												1
												1

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction ${}^{3}J$ (uvenile), I(mmature), or A(dult); ${}^{4}B$ (reeding), NB(non-breeding), M(oult)

Observation Period Inform	nation:								
Company/agency	TRANSPORT	DESGAGNES	Sea state code	2	2				
Platform name and type	CLANDE A DE	SCACNES CO VSI	Wave height (m)	<1m	<1m				
Observer (s)	SANDRA LER		True wind speed (knots) OR Beaufort code	IIkts	Ilkts				
Date (DD/MMM/YYYY)	29/06/207	1	True wind direction	180°	180°				
Time at start (UTC)	2130		Ice type code	3					
Time at end (UTC)	3300		Ice concentration code	0					
Latitude at start / end	62°36.4'N	62°36.9'N	True platform speed (knots)	13 lats					
Longitude at start / end	090°39.6'W	090°24.5W	True platform direction	2700					
Visibility (km)	>lokm		Observation side	Starboard	Port	Middle			
Weather code	0		Height of eye (m)	20m					
Glare conditions code	1		Outdoors or Indoors	Out	ог	In			
Platform Activity	TRAVELIN	â	Notes						

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Germin GPS)	Species, Number of Individuale	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
JUNE 29 ₂₀₁₃ 1 130	13kks	•		62°36-0'N 810°42.3'W	1 RINGED SEAL	~300 m		RESTING ON ICE	7		
2136	13hts	1		62°36.0'N 090423'W		~100m	900	BLOOD ON ICE -JFEDING? RESTING	2		
1758	13kb			62°36.08'N 090°51.8'W	1 WALRUS	~ INM		RETING ON ICE BIRDS AROUND			
Notes:											

2

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Stapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
	:		Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Observation Period Information:

Company/agency	TRANSPORT DESCAGNES	Sea state code	0
Platform name and type	CLALIDE A DESCIACINES SHIP	Wave height (m)	KIm
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	Bkb
Date (DD/MMM/YYYY)	30/06/2017	True wind direction (deg)	1900
Time at start (UTC)	2100	Ice type code	2
Time at end (UTC)	2230	Ice concentration code	
Latitude at start / end	62°39.3'N 62°43.6'N	True platform speed (knots)	13 kb
Longitude at start / end	091° 16.3'W 1091° 55.5'W	True platform direction (deg)	285°
Platform activity	TRAVELING	Observation side	Starboard Port
Visibility (km)	>10km	Height of eye (m)	dom
Weather code	٥	Outdoors or Indoors	or (In
Glare conditions code	1	Snapshot used?	Yes or No

Notes:		
	σ	

				tod for cucii ii							
* Species	* Count	* Fly or Water?	In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc.2	Age ³	Plum. ⁴	Sex	Comments
Thayers bull	- 1	FLY	4	C			ND				WHITE & GREY
Thayer's Gull Thayer's Gull		FLY	4	C			ND				11

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.0m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 $^{{}^{3}}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Inform	nation;		* _			
Company/agency	TRANSPORT DESGAGNES	Sea state code	1			
Platform name and type	& CLAUDE A DESGAGNE	Wave height (m)	<1m			
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	1465			
Date (DD/MMM/YYYY)	30/06/2017	True wind direction	180°			
Time at start (UTC)	2230	Ice type code	2			
Time at end (UTC)	9300	Ice concentration code	0			
Latitude at start / end	62043.6'N 62 46.4'U	True platform speed (knots)	13 kts			
Longitude at start / end	91° 55 -5' W 092° 05,3'	True platform direction	300°			
Visibility (km)	>10km	Observation side	Starboard Port Middle			
Weather code	0	Height of eye (m)	90 W			
Glare conditions code	2-3	Outdoors or Indoors	Out or (iñ			
Platform Activity	TRAVELING	Notes				

Date and Time of Sighting	Vessel Traval Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Germin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Olrection	Age/Sex	Mitigation Required?	Photo Number (if any)
30/06/17	NO	SIGH	TING							-	

Species	How Animal Was Spotted	Cortainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
2:			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Record sheet for a stationary platform survey

Scan Information:

Company/agency
Platform name and type
Observer (s)
Date (DD/MMM/YYYY)

Time at start (UTC)

Latitude
Longitude
Platform activity
Scan type
Scan direction
Visibility (km)

TRANSPORT DESGRANES	;
CLANDER JESCHAGNES	
SANDRA LEBON	
01/07/2017	
2200 - 2230	
62°46.6'N	
092°05.5' W	
DISCHARGING CARGO	
180° or other (specify:)
150-3330°	
>10km (12nd)	

Weather code
Glare conditions code
Sea state code
Wave height (m)
True wind speed (knots) OR
Beaufort code
True wind direction (deg)
Ice type code
Ice concentration code
Height of eye (m)
Outdoors or Indoors

0	
1	
煮 O	
0	
JA 2-3 k/s	
195°	
1	
20 m	
Out or In	

Notes: ANCHORED WEAR RANKIN INLET

Dita intori	nation.	uns ned <u>n</u>	nust be compi	eted for each	ecoru							
* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments	
UNKM	a	ICE	4	C								
UNKN	9	WHITER	4	C								
UNKN	9	ONCE !	4	C								
LONT LANGES		FLY	7	B			ND					
UNKN	2	WATER	4	C								
UNKN	9	WATER	4	0								
UNKN	а	WATER	4	4							BLACK, HEDIUM	
UNKN	9	WATER	4	D							BLACK	
THAYER'S GUI		FLY	4	D			QN				BLACK, SMALL	
UNKN	1	WATER	4	D								
UNGLI	1	FLY	7	\mathcal{Q}			SW				BLACK WINGS ?	
UNDU		BAN NE	4	\mathcal{A}							HAMBE WITH 2 SMALLER ONES	, BLACE
-												

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.00m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 $^{{}^{3}}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Infor	mation:		
Company/agency	TRANSPORT DESCACNES	Sea state code	0
Platform name and type	CLAUDE A. DESCAGNES	Wave height (m)	0
Observer (s)	SANDRALEBON	True wind speed (knots) OR Beaufort code	3kts
Date (DD/MMM/YYYY)	01/07/2017	True wind direction	1900
Time at start (UTC)	2230	Ice type code	1
Time at end (UTC)	2400	Ice concentration code	i
Latitude at start / end	62°46.6'N 62°46.6'N 092°05.5'W 092°05.5'W	True platform speed (knots)	0
Longitude at start / end	092.05.5'W 092.05.5'W	True platform direction	×
Visibility (km)	>10 km	Observation side	Starboard Add Add A
Weather code	0	Height of eye (m)	dom
Glare conditions code	2	Outdoors or Indoors	Out or in
Platform Activity	ANCHORED, DISCHARGING	Notes	STATIONARY

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighling	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
	anchored Okts	0	-		1 SEAL (UNSPECIFIED, TOOPIR LIN) WATER)	300 m		IN WATER > DIVE	?		
01/07/17 2310	Okto	0			1 SEAL (UNSPECIFIED. TOO FAR, BRIEFL DISSAPPENA	200m	070°(T) ER	IN WATER, CAME OUT & DIVE FAST.	7		
Notes:											

TV PVV PV

AGNICO EAGLE

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	Ву Еуе	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
	-		Startle Response
			Milling
			Unknown

Record sheet for a stationary platform survey

Scan Information:

Company/agency

Platform name and type

Observer (s)

Date (DD/MMM/YYYY)

Time at start (UTC)

Latitude

Longitude

Platform activity

Scan type

Scan direction

Visibility (km)

TRANS	SPORT DESCAGNES
CAUC	E A DESGAGNES CARGO
SAND	2A LEBON
	1/2017
9960	
	6.7'N
0000	92°05.6 'W
UISCHA	Other (specify:)

Weather code

Glare conditions code

Sea state code

Wave height (m)

True wind speed (knots) OR

Beaufort code

True wind direction (deg)

Ice type code

Ice concentration code

Height of eye (m)

Outdoors or Indoors

0	
0 2+3	
< Im	
17lets	
80°	
0	
20m	
Out or 🕼	

Notes: OTHER BOATS IN THE AREA (FISHING/SEALING)

>10km

110°-290°(T)

Bird Information: *this field must be completed for each record

*	*	# Ely or	* In semi-	*			Flight				
Species	Count	Water?	circle?	Distance ¹	Assoc.	Behav.	Direc. ²	Age ³	Plum.4	Sex	Comments
UNKN	5	W	4	D	88					JOA	Comments
UNKN	2	W	Ч	Δ	28						
UNKN	1	F/W	Ч	4	98		ND				
UNKN	2	W	4	C	28						
thaus's Gill		F	Ч	B			ND				
COEL	a	W	Ч	D	98					HIE	couple€
UNKN	5	W	N	D	98					1171	
UNKV	4	W	N	Ė	86						1 SHALL, CLOSE GROUP
TBMU	2	W	N	C	SB			\rightarrow		-	STERN OF SHIP CLOSE TO
TBMU	4	W	N	C	86						
MANU	4	W	4	D	aB					-	
COEI '	i	F	4	В	2		ND	_			
COEI	a	ICE	Y	B	27		עא			H+F	ON PIECEOFICE, RESTING ON
										,	
		-									

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.00m, S = 0.00m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction ^{3}J (uvenile), I(mmature), or A(dult); ^{4}B (reeding), NB(non-breeding), M(oult)

Observation Period Infon	mation:						
Company/agency	TRANSPORT DESCACNES	Sea state code	ı				
Platform name and type	CLAUDE A. DESCACNES	Wave height (m)	<1m				
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	12 kts				
Date (DD/MMM/YYYY)	02/07/2017	True wind direction	1900				
Time at start (UTC)	2930	Ice type code	1				
Time at end (UTC)	2400	Ice concentration code	0				
Latitude at start,≠end	62°46.7'N	True platform speed (knots)	O (ANCHORED)				
AVCHORED Longitude at start## end	€2092°05.6'W	True platform direction	N/A				
Visibility (km)	>10 km	Observation side	Starboard Port Middle				
Weather code	0	Height of eye (m)	2m				
Glare conditions code	2+3	Outdoors or Indoors	Out or In				
Platform Activity	DISCHARGING CARGO@	Notes OTHER BOATS	THE VISCINITY				

MELIADINE GOLD MINE

ATTACHMENT A

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Let/Long(Germin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (If any)
02/07/ 2017	No.	St GHT i	NG								
	-										
10-33											
Notes:							,				

Species	How Animal Was	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Record sheet for a stationary platform survey

Scan Information:

Company/agency	TRANSPORT DESGAGNES	Weather code	1
Platform name and type	CLAUDEA DESGAGNES	Glare conditions code	0
Observer (s)	SANDRA LEBON	Sea state code	೩
Date (DD/MMM/YYYY)	04/07/2017	Wave height (m)	Klm
Time at start (UTC)	9900	True wind speed (knots) OR Beaufort code	13kb
Latitude	62°46.6'N	True wind direction (deg)	115°
Longitude	092°05.9'W	Ice type code	0
Platform activity	ANCHORED, DISCHARGING CARGO	Ice concentration code	0
Scan type	(180°) or other (specify:	Height of eye (m)	dom
Scan direction	010-190°(1)	Outdoors or Indoors	Out or (In)
Visibility (km)	>10km		

Notes:			

Diru miori	uation.	uns neid <u>r</u>	nusi oc compi	eteu ioi eacii i	ccord		-all				
* Species Thayers Gul	* Count	* Ely or Water?	In semi- circle?	* Distance1	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
UNGU	i	F	4	4			ND				
UNKN	3	W	4	A							
TBMU	9	W	4	C	8.8						CLOSETOANISLAND
UNGU		F	Ч	4	28						LANDED ON AN ISLAND
UNKN	4	W	Ч	4	නුත						WHITE ANNOR GREY
UNKN	1	F	Y	A			NW				WHITE & BLACK.
UNBA	4	W	4	D							BROWN?
TBMU	2	W	Ч	7	58						NEARISLAND
UNGU	1	F	N	E	98						over the LAND
UNKW	4	W	4	4							

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Infor	mation:		
Company/agency	TRANSPORT DESGAGNES	Sea state code	2
Platform name and type	CLAUDE A DESCACINES	Wave height (m)	~1m
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	14kts
Date (DD/MMM/YYYY)	04/07/2017	True wind direction	E
Time at start (UTC)	2230	Ice type code	0
Time at end (UTC)	2400	Ice concentration code	0
Latitude at start / end	62°46.6'N 62°46.6'N	True platform speed (knots)	O -> ANCHORED
Longitude at start / end	092°05.9'W 092°05.9'N	True platform direction	PACING E (090°T)
Visibility (km)	>10 km	Observation side	Starboard Port Middle
Weather code	1	Height of eye (m)	20 m
Glare conditions code	0	Outdoors or Indoors	Out or In
Platform Activity	ANCHORED, DISCHARGING CAR	Notes	

ATTACHMENTA

Vessel Travel Direction and Speed	State	(Y or N)	Sighting Waypoint or LaVLong(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
No	SIGHT	TNG								
							н			
				E.						
			E					2		
	Direction and Speed	Direction and State State	Direction and Speed State (Y or N)	Direction and Speed State State (Yor N) Signaling Waypoint GPS) NO SIGHTING	Direction and Speed State (Yor N) State (Yor	Direction and Speed State Stat	Direction and Speed State Stat	Direction and Speed State Re-Signting? Signing Waypoint or Lat/Long(Garmin GPS) Species, Number of Individuals Angle to Sighting Direction NO SIGHTING Signing Waypoint or Lat/Long(Garmin GPS) Species, Number of Individuals (m) Angle to Sighting Direction Angle to Sighting Direction	Direction and Speed State Stat	Direction and Speed State Stat

AGNICO EAGLE

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
			Surfacing
			Fluking
		91	Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Observation Period Information:

Company/agency	TRANSPORT DESGAGNES	Sea state code	2		
Platform name and type	CLAUDE A DESGAGNES CHRGOSHIP	Wave height (m)	<1m		
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	13 kts		
Date (DD/MMM/YYYY)	05/07/2017	True wind direction (deg)	\$ 045° (T)		
Time at start (UTC)	2130	Ice type code	NA		
Time at end (UTC)	2200	Ice concentration code	0		
Latitude at start / end	62°38.0'N 62°36.0'N	True platform speed (knots)	13.5 lets		
Longitude at start / end	091°10.5'W 090°54.4'W	True platform direction (deg)	110°(T)		
Platform activity	TRAVELING	Observation side	Starboard Port		
Visibility (km)	>10 km	Height of eye (m)	20 m		
Weather code		Outdoors or Indoors	Out or In		
Glare conditions code	0	Snapshot used?	Yes or No		

ſ	Notes:
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* Species hower's Cul	* Count	* Fly or Water?		* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
hayer's Cul	Į.	FLY	7	Ç			NE				
								-		_	
							-	_		-	

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.0m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 $^{{}^{3}}J$ (uvenile), I(mmature), or A(dult); ${}^{4}B$ (reeding), NB(non-breeding), M(oult)

Observation Period Inform	nation:		
Company/agency	TRANSPORT DESGAGNE	Sea state code	3
Platform name and type	CLAUDE A DESGAGNES	Wave height (m)	<1m
Observer (s)	SANDRA LEBON	True wind speed (knots) OR Beaufort code	11-6 kts
Date (DD/MMM/YYYY)	05/07/2017	True wind direction	030°
Time at start (UTC)	2200	Ice type code	NIA
Time at end (UTC)	2330	Ice concentration code	0
Latitude at start / end	62°36.0'N 62°38.1'N	True platform speed (knots)	13.5kts
Longitude at start / end	090°54.4'W090°12.9'W	True platform direction	086°
Visibility (km)	>10 km	Observation side	Starboard Port Middle
Weather code	1	Height of eye (m)	20m
Glare conditions code	0	Outdoors or Indoors	Out or (in)
Platform Activity	TRAVEUNG	Notes	

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (If any)
05/07/2017	NO	SIGH	TINO	7							
Notes:					L						

Species	How Animal Was Spotted	Certainty of ID	Animal Activity
Narwhal Whale	By Eye	Definite	Slow Swimming
Beluga Whale	Reticle Binoculars	Probable	Medium Swimming
Bowhead Whale	Big-eye Binoculars	Possible	Fast Swimming
Atlantic Walrus			Looking – Seals
Bearded Seal			Feeding
Ringed Seal			Flipper Slapping
Harbour Seal			Surfacing
Hooded Seal			Resting
Harp Seal			Diving
Polar Bear			Diving (Fluke Visible)
Killer Whale			Splashing
		1	Surfacing
			Fluking
			Lobtailing
			Bow Riding
			Wake Riding
			Porpoising
			Spyhopping
			Breaching
			Acrobatic
			Startle Response
			Milling
			Unknown

Observation Period Information:

Company/agency	TRANSPORT DESGAGNES	Sea state code	2
Platform name and type	CLAUDE A DESLAGNES (CARGOSHI)	Wave height (m)	<1m
Observer (s)	Kistlan Bow	True wind speed (knots) OR Beaufort code	7 bls
Date (DD/MMM/YYYY)	7/ July / 2017	True wind direction (deg)	3150
Time at start (UTC)	27.00	Ice type code	3
Time at end (UTC)	12:45	Ice concentration code	0
Latitude at start / end	62.51.8'N 62.50.1 N	True platform speed (knots)	14b/s
Longitude at start / end	78.31.6'W 78.11.2 W	True platform direction (deg)	0950
Platform activity	TRAVELING	Observation side	Starboard Port
Visibility (km)	>10km	Height of eye (m)	20 m
Weather code		Outdoors or Indoors	Out or 🕼
Glare conditions code	0	Snapshot used?	Yes or No

Notes: Thick-Billed	A		
INICK PILIER	MUITE		

Bird Information: *this field must be completed for each record

* Species Th/CK-b/led	* Count	* Fly or Water?	* In transect?	* Distance ¹ 50 m	Assoc.	Behav.	Flight Direc.2	Age ³	Plum.4	Sex	Comments
						-					
									E		

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 no apparent direction

 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Inform	nation:		
Company/agency	THANSPORT DESGALAR	Sea state code	2
Platform name and type	Claude A Desgagne	Wave height (m)	LIM
Observer (s)	Vistian Brown	True wind speed (knots) OR Beaufort code	7 Kts
Date (DD/MMM/YYYY)	7 July 2017	True wind direction	3000
Time at start (UTC)	22 45	Ice type code	2
Time at end (UTC)	62.50 N 2400	Ice concentration code	0
Latitude at start / end	62°5N 62964	True platform speed (knots)	(4 KH)
Longitude at start / end	78.91 W 7720W	True platform direction	109?
Visibility (km)	>10 K	Observation side	Symposium Port Middle
Weather code	1	Height of eye (m)	20n
Glare conditions code	Ó	Outdoors or Indoors	Out or 🗓
Platform Activity	Travelina	Notes	

ATTACHMENT A

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
			8					E			
				1							

Observation Period Information:

Company/agency	Transport Desaca Nes	Sea state code	84
Platform name and type	Claude A Dosgagnet Cargo	Wave height (m)	35m
Observer (s)	Kristian Bion	True wind speed (knots) OR Beaufort code	BKN
Date (DD/MMM/YYYY)	8/7/17	True wind direction (deg)	1400
Time at start (UTC)	2245 1945	Ice type code	2
Time at end (UTC)	2015;	Ice concentration code	
Latitude at start / end	60° 44-36 60° 43.22	True platform speed (knots)	3.5 KM
Longitude at start / end	63° 39.67 63° 31.84	True platform direction (deg)	086,8
Platform activity	Traveling	Observation side	Starboard Port
Visibility (km)	KIOK	Height of eye (m)	20 M
Weather code	3	Outdoors or Indoors	Out or Ari
Glare conditions code	0	Snapshot used?	Yes or No

Notes:			
1100001			

$\boldsymbol{Bird\ Information:\ ^*} this\ field\ \underline{must}\ be\ completed\ for\ each\ record$

pin .											
Species Sugul	Count 1 2	* Fly or Water? Fly	In transect?	bistance ¹ 200 lom	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments Flying with Ship Flying with Ship

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300 m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 no apparent direction

 $^{^3}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Inform	nation:		
Company/agency	Transfort Dasgonnes	Sea state code	2
Platform name and type	Claude A Paragnoskery	Wave height (m)	1>5m
Observer (s)	Transfort Dasgonies Clause A Danggnaskany Kristian Brown	True wind speed (knots) OR Beaufort code	22.5
Date (DD/MMM/YYYY)	8/7/17	True wind direction	125°
Time at start (UTC)	2015	Ice type code	0
Time at end (UTC)	2i 45	Ice concentration code	0
Latitude at start / end	608-22 6037,17	True platform speed (knots)	9.6 KN
Longitude at start / end	63°31.84 63°2276	True platform direction	120.26
Visibility (km)	>5K	Observation side	Starboard Port Middle
Weather code	3	Height of eye (m)	20 M
Glare conditions code	Ô	Outdoors or Indoors	Out or
Platform Activity	Traveling	Notes	

MELIADINE GOLD MINE

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
			_								
									13		
)				

Observation Period Inform	nation:		X
Company/agency	Transport Desgagn	Sea state code	4-6
Platform name and type	Claude A Desgagnes	Wave height (m)	>2m
Observer (s)	Krist on Brown Traigo	True wind speed (knots) OR Beaufort code	8KN
Date (DD/MMM/YYYY)	7/8/17	True wind direction	1600
Time at start (UTC)	2000 1900	Ice type code	3
Time at end (UTC)	FE 2030	Ice concentration code	0
Latitude at start / end	61°028 60°5915	True platform speed (knots)	13 KN
Longitude at start / end	6801.56 67040.51	True platform direction	1100
Visibility (km)	>10K-	Observation side	Starboard Port Middle
Weather code	0	Height of eye (m)	20 n
Glare conditions code	Ó	Outdoors or Indoors	Out or a
Platform Activity	Traveling	Notes	nothlad

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
			- Co					21			
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							_		100		

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Observation Period Information:

Company/agency	Transfort Desgaques	Sea state code	4-6
Platform name and type	Clarde A Desgagner (carpo)	Wave height (m)	KDA 22M
Observer (s)	Kr. Sklan Bran	True wind speed (knots) OR Beaufort code	8 KM
Date (DD/MMM/YYYY)	8/7/17	True wind direction (deg)	1600
Time at start (UTC)	1370	Ice type code	X3
Time at end (UTC)	2000 1900	Ice concentration code	0
Latitude at start / end	61008.45 61002.80	True platform speed (knots)	13,3 67
Longitude at start / end	68-19.67 68001,56	True platform direction (deg)	(33.5"
Platform activity	Traveling	Observation side	Starboard Port
Visibility (km)	7/0K	Height of eye (m)	20M
Weather code	0	Outdoors or Indoors	Out or (107
Glare conditions code	Ò	Snapshot used?	Yes or 🐠

	Notes:
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* Species	* Count	* Fly or Water?	* In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
TRONU	1	water	N	100 m	wate!	SiHinn	NA				
TBMU	l	FIY	X	lon	irates	SiHing	5				flying away fam shill jots of Bilds after /2 bour
											jots of Birds
											after /2 bour
										_	
								-			
								-			
								-			
		-									

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction

 $^{^{3}}$ J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Scan Information:

Company/agency	From SPART S	Desovagnes	Weather code	2
1 3 6 3				-2
Platform name and type	Clauda A i	esopound Cargo	Glare conditions code	0
Observer (s)	Wistian Brow	r Mo	Sea state code	light Air
Date (DD/MMM/YYYY)	9/8/17		Wave height (m)	>im
Time at start (UTC)	slart 1900	1930	True wind speed (knots) OR Beaufort code	13 KA
Latitude	56° 54.99	56.253.75	True wind direction (deg)	039.0
Longitude	58°01-07	57.56.64	Ice type code	0
Platform activity	Traveling		Ice concentration code	Ø
Scan type	180° or other (spe	cify: 90°)	Height of eye (m)	20 M
Scandirection weather car	6	lare 0	Outdoors or Indoors	Out or In
Visibility (km)	>116			No Pids

Notes:			

1750),i	uation.	uns neiu <u>i</u>	nusi oc compi	eted for each i	ccord						
	* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 no apparent direction

 $^{{}^{3}}$ J (uvenile), I (mmature), or A (dult); 4 B (reeding), NB (non-breeding), M (oult)

Observation Period Inform	nation:		
Company/agency	Transport Pegagnes	Sea state code	light A:
Platform name and type	Chula A Desongres "1"	Wave height (m))2m
Observer (s)	Chula A Regagnes and Kristian Brown	True wind speed (knots) OR Beaufort code	12 KN
Date (DD/MMM/YYYY)	9/7/17	True wind direction	028.30
Time at start (UTC)	1930 2100	Ice type code	6
Time at end (UTC)	56.53.75 2/00	Ice concentration code	0
Latitude at start / end	56653.75 5649.44	True platform speed (knots)	13-8 KN
Longitude at start / end	58.01.07 57049.47	True platform direction	144,6° V
Visibility (km)	>1K	Observation side	Starboard Port Tridle
Weather code	3	Height of eye (m)	20 M
Glare conditions code	9	Outdoors or Indoors	Out or Ar
Platform Activity	Traveling	Notes	Cant Sec

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Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long(Garmin GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes:		1			1	-			fr.	ft	

AGNICO EAGLE

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Observation Period Information:

Company/agency	Desgagnes	Sea state code	
Platform name and type	Nordika Desgagnes - Cargo	Wave height (m)	0.3
Observer (s)	Nordita Desgegnes - Cargo Nick Brounstein	True wind speed (knots) OR Beaufort code	7 knots
Date (DD/MMM/YYYY)	30/06/2018	True wind direction (deg)	255°
Time at start (UTC)	0000	Ice type code	Ч
Time at end (UTC)	0400	Ice concentration code	
Latitude at start / end	63°04,1'N	True platform speed (knots)	<i>U.</i> 5
Longitude at start / end	080° 02,1'W	True platform direction (deg)	270
Platform activity	Travelina	Observation side	Starboard Port
Visibility (km)	10	Height of eye (m)	7500
Weather code	0	Outdoors or Indoors	Out or (In)
Glare conditions code	2	Snapshot used?	Yes or No

Notes:			

*	*	* Fly or	* In	*			Flight				
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
UNKN	19	Fly									
UNKN	12	Fly	Yes	D			Ŋ				Small, U-Shaped Flock
UNGU	i	Fly	Yes	C			Sw				Small U-shaped Flock Large white Gull
UNDU	И	FL	No	B			WSW				
UNKN	2	FIL	Yes	ß			E	A			
		/									
				:							
									:		
						-					

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 100m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 100 no apparent direction 3 J (uvenile),
Scan Information:

Company/agency		Weather code	2
Platform name and type		Glare conditions code	
Observer (s)	Cadet Favid Healy-M.	Sea state code	
Date (DD/MMM/YYYY)	18/07/2018	Wave height (m)	L I ft
Time at start (UTC)	2130	True wind speed (knots) OR Beaufort code	3
Latitude	61°2512'N	True wind direction (deg)	North
Longitude	067 13,21 W	Ice type code	ે જ
Platform activity	SEA PASSAGE	Ice concentration code	1
Scan type	180° or other (specify:	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or (În)
Visibility (km)	~ 6		
		_	
Notes:			

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
WOO	10	Water		С			MD				
						· · · -					
				<u> </u>							
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 100m, S = 100

Scan Information:

Company/agency		Weather code	
Platform name and type		Glare conditions code	C
Observer (s)	Cordet Farid Heady - M.	Sea state code	2
Date (DD/MMM/YYYY)	18/67/2018	Wave height (m)	
Time at start (UTC)	1110	True wind speed (knots) OR Beaufort code	1
Latitude	62°01,1'N	True wind direction (deg)	i25°
Longitude	069° 42,7'W	Ice type code	(2)
Platform activity	SEA PASSACLE	Ice concentration code	Ø
Scan type	180° or other (specify:	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or 🕼
Visibility (km)		,	

Notes:		

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum. ⁴	Sex	Comments
CNKN	10	Fly	Yes	C			5	A			
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); $^{4}B(\text{reeding})$, NB(non-breeding), M(oult)

Scan Information:

Company/agency	·	Weather code	
Platform name and type	NORDIKA DESGAGNES	Glare conditions code	0
Observer (s)	Codet Farid Hedj.M.	Sea state code	2
Date (DD/MMM/YYYY)	17/07/2018	Wave height (m)	
Time at start (UTC)	2037	True wind speed (knots) OR Beaufort code	2
Latitude	63°08,55'N	True wind direction (deg)	0803
Longitude	075°38,0 W	Ice type code	
Platform activity	Sea passage	Ice concentration code	
Scan type	180° or other (specify:	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or (In)
Visibility (km)	8		

*	•	*	*								
Species	* Count	Fly or Water?	In semi- circle?	* Distance ¹	A	D.1	Flight		Plum.4	_	
	6	Ta		Distance	Assoc.	Behav.	Direc.	Age	Plum.	Sex	Comments
ONKN	<u> </u>	Fly	Yes	A			E	A			
								-			
							<u> </u>				
									-		
-											
	···										
											
L											

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 100m, within 300 m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 100 no apparent direction 3 J(uvenile), I(mmature), or I(dult); I(multiple) I(multiple), $I(\text{$

SEABIRD SURVEY PROTOCOL - MOVING VESSEL



7 Fill out one sheet per 30 min observation period

Dierention Period Infor		dtun state geste	1
onpany/agency Infform name and type	Demagnass Norther C/O	Sen state code Wave height (m) True wind speedyljuots) OR Beaufort code	S UK
isserver (B)		True wind direction (deg)	W
ate (DD/MMM/YYYY)	20/10/2012	lee type code	
me at Mart (UTC)	08:30	Ice concentration code	
me at end (UTC')		True platform speed (knots)	13 K/5
rinide at start / end	60,584,N	True platform direction (deg.)	113
nigitude at start / end	064145W	Observation side	Starboard Port
atform activity	uphinay	Height of eye (m)	
sibility (km)	15'	Outdoors or Indoors	Out or in
enther code	cloudy	Snapshot used?	Yes or (No')
lare conditions code	0	эниранот изеля	

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	Notes:
	1 there.
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Bird Inform	nation: '	this field m					, •	- 	—		
•	*	Fly or Water?	In transect?	Distance ¹	Assoc.	Behav.	Flight Direc.	Age	Plum.4	Sex	Comments
Species	Count	TIY	() (MASCET.	200 m			5	MAH			>2
Win	10_	1-1-1-									
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SEABIRD SURVEY PROTOCOL - MOVING VESSEL



7 Fill out one sheet per 30 mln observation period

Observation Period Information:

Citible Milmi = access =			
		Sen state code	3.
C:onthany/agency	Desganis	Wave height (m)	1,0
Platform name and type	Nordicky Designyniss	True wind speed (unots) OR	13 10.95
Observer (4)	Nidt Brownstain	Beaufort code	V
	20/10/2018	True wind direction (dep)	(NI 000°
Date (DD/MMM/YYYY)		Ice type code	0
Time at start (UTC)	1500	Ice concentration code	0
Time at end (UTC')	1530 63° 08 0' ~	True piniform speed (knots)	13 3/1007
Latinide at start / end		True pintform direction (deg)	098
Longitude at start / end	87-04.56 82-37.76	Observation side	Sarbond) Port
Platform activity	Unjorway	•	30m
Visibility (km)	3-0	Height of eye (m)	42.
Weather code	8	Outdoors or Indoors	
	0	Snapshot used?	Yes or No
Glare conditions code			

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Bird Inform	*	Fly or	, 🖈		<u>H</u>	Delege	Flight Direc.2	Age	Plum.	Sex	Comments
Species	Count	Water?	transect?	Distance'	Assoc.	Behav.	S	T. K.			
COLO	1	114	No	6			SW				99
HARD	70	พลัง	No	A		93					
UNKN	7		Yes	D		= =	E				
אונא		1/4				CP				14	
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MARINE MAMMAL PROGRAM

Observation Pentod Illforn	netton:		April Farmer			
Company/agency	DESGAGNE	5	Sea state code *	4		
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	2 m		
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	21 K	+5	
Date (DD/MMM/YYYY)	12/09/201	18	True wind direction	SE		
Time at start (UTC)	1200		Ice type code	MA		
Time at end (UTC)	1230		Ice concentration code *	6		
Latitude at start / end	62° 26.0'N	62° 28.5 N	True platform speed (knots)	10.=	7 11+3	
Longitude at start / end		073°07.1W	True platform direction	29	90	
Visibility (km)	16 Km		Observation side	Starboard	Port	Middle
Weather code *			Height of eye (m)	22	m	
Glare conditions code	0		Outdoors or Indoors	Out	or	₫ j
Platform Activity	TRAVELL	1016	Notes	NOC	BSER	2VATIO

[★] Refer to "Codes" datasheets

AGNICO EAGLE

MARINE MAMMAL PROGRAM

Observation Pariod Inform	nation:						
Company/agency	DESGAGNE	5	Sea state code 🛨	Z	7		
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	41	4 lm		
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	8,	K+5		
Date (DD/MMM/YYYY)	11/09/20	18	True wind direction	N	W		
Time at start (UTC)	2230		Ice type code	N	/A		
Time at end (UTC)	2300		Ice concentration code *	0			
Latitude at start / end	(e1° 28.6'N	41° 31.2'N	True platform speed (knots)	12	.8 Kt	3	
Longitude at start / end	068° 47.0'W		True platform direction	29	70		
Visibility (km)	lle Rm		Observation side	Starboard	Port	Middle	
Weather code	0		Height of eye (m)	22	2 m		
Glare conditions code	3		Outdoors or Indoors	Out	or	H	
Platform Activity	TRAVELL	1N6	Notes	No	OBSE	RUATIONS	

[★]Refer to "Codes" datasheets

Observation Period Informa	ition:					
Company/agency	DESGAGNE	5	Sea state code *	2	-	
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	2,	m	
Observer (s)	STEPHEN I	BADCOCK	True wind speed (knots) OR * Beaufort code	10	Kts	
Date (DD/MMM/YYYY)	11/09/201	ર્દ	True wind direction	235	- T	;
Time at start (UTC)	1200		Ice type code	100	MA	
Time at end (UTC)	1230		Ice concentration code 🖈	0		
Latitude at start / end	60°35.0N	60° 37.7'N	True platform speed (knots)	12.2	K+5	
Longitude at start / end	065° 00.8'W	065° 12.0'W	True platform direction	297	0	
Visibility (km)	16 Km		Observation side	Starboard	Port	Middle
Weather code	× 1		Height of eye (m)	22	m	Ε
Glare conditions code *			Outdoors or Indoors	Out	or	(lin)
Platform Activity	TRAVELLI	NG	Notes	NOO	BSER	VATIONS

[★]Refer to "Codes" datasheets

AGNICO EAGLE

MARINE MAMMAL PROGRAM

Observation Period Inform	ration:					de
Company/agency	DESGAGNE	5	Sea state code *	1		
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	111	^	
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	7 K	+5	
Date (DD/MMM/YYYY)	11/09/201	18	True wind direction	N		
Time at start (UTC)	1700		Ice type code	N/A		
Time at end (UTC)	1730		Ice concentration code *	0		
Latitude at start / end	61° 00.8'N	61° 03.2'N	True platform speed (knots)	11.8	kts	
Longitude at start / end	066° 47.3'W		True platform direction	29:	5°	
Visibility (km)	16 Km		Observation side	Starboard	Port	Middle
Weather code *			Height of eye (m)	22	m	
Glare conditions code	0		Outdoors or Indoors	2 €€	or	1n
Platform Activity	travelling	/	Notes	NO 00	BSERV	IATIONS

[★] Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

Observation Period Inform	ASS (10.5-10)					
Company/agency	DESGAGNE	5	Sea state code 🛨	1		
Platform name and type	ACAOIA DES	CAGNES	Wave height (m)	_lm		
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	8 K-	15	
Date (DD/MMM/YYYY)	12/09/201	8	True wind direction	SE		
Time at start (UTC)	1730	8 10 194	Ice type code★	~//	7	
Time at end (UTC)	1800		Ice concentration code *	0		
Latitude at start / end	62° 33.6′ N	62° 34.5'N	True platform speed (knots)	14.	7 kt	٠
Longitude at start / end	075° 24.3'W	075° 40.5'W	True platform direction	27	9°T	
Visibility (km)	16 Km		Observation side	Starboard	Port	Middle
Weather code *	0	5245711 ₁ 11 1953257 (K. la	Height of eye (m)	22	m	
Glare conditions code	0		Outdoors or Indoors	Out	or	Ь
Platform Activity	TRAVELLI	NG-	Notes	No o	BSER	VATIONS

[★] Refer to "Codes" datasheets



MARINE MAMMAL PROGRAM

Observation Period Inform	eation:					
Company/agency	DESGAGNE		Sea state code *	4		
Platform name and type	ACAOIA DES	GAGNES	Wave height (m)	2,	^	
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	27	kts	
Date (DD/MMM/YYYY)	12/09/20	18	True wind direction	ν ι	<i>N</i>	
Time at start (UTC)	2230		ice type code★	N	'A	
Time at end (UTC)	2300		Ice concentration code *	0		
Latitude at start / end	62° 39. 1'N	62° 39.3'N	True platform speed (knots)	8.5	8 Kts	· •
Longitude at start / end	077° 29.5'W	077° 39.8'W	True platform direction	27	6°T	
Visibility (km)	16 Km	27	Observation side	Starboard	Port	Middle
Weather code *	1		Height of eye (m)	22	'm	
Glare conditions code	O		Outdoors or Indoors	Out	or	Ø la
Platform Activity	TRAVELLIN	6	Notes	No 00	3 SÉRU	ATIONS

[★] Refer to "Codes" datasheets

Observation Period Information:

		_	
Company/agency	AGNICO EAGLE MELIADINE	Sea state code	7
Platform name and type	ACADIA DESGAGNES	Wave height (m)	lm
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	7 Kts
Date (DD/MMM/YYYY)	21/09/2018	True wind direction (deg)	NW
Time at start (UTC)	2200	lce type code	MA
Time at end (UTC)	2230	Ice concentration code	0
Latitude at start / end	60° 53.6'N 60° 50,4'N	True platform speed (knots)	14.2 15
Longitude at start / end	066° 173'W 066° 06.3'N	True platform direction (deg)	115°T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 Km	Height of eye (m)	227
Weather code	6	Outdoors or Indoors	Out or lg
Glare conditions code	0	Snapshot used?	Yes or 🍪

Notes:

		0									
* Species	* Count	Fly or Water?	in transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age³	Plum.4	Sex	Comments
UNGU	3	FLY	Y	А	18	39	E	I	NB	M	
LTDU	3	WATER	Y	A	NA	60	ND	A	NB	M	
GLOU	2	FLY	У	Ą	NA	39	N	4	NB	M	
NOFU	4	FLY	Ý	A	NA	39	5	A	NB	M	
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 apparent direction 3 J (uvenile), I (mmature), or A (dult); 4 B (reeding), NB (non-breeding), M (oult)



Company of the Compan			
Company/agency	AGNICO EAGLE MELIADINE	Sea state code	2
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	14 Kts
Date (DD/MMM/YYYY)	21/09/2018	True wind direction	NW
Time at start (UTC)	1730	Ice type code	MA
Time at end (UTC)	1800	Ice concentration code	0
Latitude at start / end	61° 18.5 N 61° 15.7'N	True platform speed (knots)	12.8 /75
Longitude at start / end	068° 04.6W 067° 52.5'V	True platform direction	1167
Visibility (km)	16km	Observation side	Starboard Port Middle
Weather code	0	Height of eye (m)	Z2n
Glare conditions code	2	Outdoors or Indoors	Out or A
Platform Activity	TRAUELLING	Notes	NO OBSERVATION

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Observation Period Inform	nation:	×	
Companý/agency	AGNICO EAGLE MELIADIN	Sea state code	4
Platform name and type	ACADIA DESGAGNES	Wave height (m)	In
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	12Kt5
Date (DD/MMM/YYYY)	19/09/2018	True wind direction	W
Time at start (UTC)	1730	Ice type code	N/A
Time at end (UTC)	1800	tce concentration code	0
Latitude at start / end	62° 26.2'N 62° 25.2'N	True platform speed (knots)	13.12+5
Longitude at start / end	0 89° 02.6'W 088° 48.8'W	True platform direction	098° T
Visibility (km)	12 Km	Observation side	Starboard Port Middle
Weather code		Height of eye (m)	2Zm
Glare conditions code	2	Outdoors or Indoors	Out or fin
Platform Activity	TRAVELLING	Notes	NO OBSERVATION



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_ 10000	(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(The second secon
gera S			
Companý/agency	AGNICO EAGLE MELIADINE	Sea state code	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Platform name and type	ACADIA DESGAGNES	Wave height (m)	Im
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	6 Kts
Date (DD/MMM/YYYY)	21/09/2018	True wind direction	NW
Time at start (UTC)	2230	ice type code	NIA
Time at end (UTC)	2300	Ice concentration code	0
Latitude at start / end	60° 50.3'N 60° 47.0'N	True platform speed (knots)	13.7Kts
Longitude at start / end	066°06.2'W 065°51.9'W	True platform direction	11507
Visibility (km)	lle Km	Observation side	Starbbard Port Middle
Weather code	0 -	Height of eye (m)	22m
Glare conditions code	1	Outdoors or Indoors	Out or 19
Platform Activity	TRAVELLING	Notes	NO OBSERVATION

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Observation Period Information:

Observation reriou into in-	ation.		
Observance a series		Sea state code	3
Company/agency	DESGAGNES	Г Г	2m
Platform name and type	ACADIA DESGAGNES	Wave height (m)	
Flationin name are 3 F		True wind speed (knots) OR	17 kts
Observer (s)	STEPHEN BADCOCK	Beaufort code	
	13/09/2018	True wind direction (deg)	<u> </u>
Date (DD/MMM/YYYY)		Ice type code	NA
Time at start (UTC)	1700	Ice concentration code	O
Time at end (UTC)	1730	True platform speed (knots)	11.3 K+5
Latitude at start / end	610 59.5'N 620 00.4'N	_1	278° T
Longitude at start / end	083° 36.4'W 083° 48.1'N	True platform direction (deg)	
_	TRAUFILING	Observation side	Juli
Platform activity	101-101	Height of eye (m)	22 m
Visibility (km)	16 Km	Outdoors or Indoors	Out or do
Weather code		Snapshot used?	Yes or 160
Glare conditions code		Shapshot used:	
			

Notes:	•			
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Species	* Count	* Fly or Water?	in transect?	* Distance ¹	Assoc.	Behav.	Flight Direc.2	Age ³	Plum. ⁴	Sex	Comments
NISP	2	FIY	<u> </u>	ß	NA	36	1	A	NB	M	
SAGU	١	FIY	4	<u>A</u>	20	36	1-2	 A	70.5		
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 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Information:

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Company/agency	AGNICO EAGLE MELIADINE	Sea state code	7
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	NZKts
Date (DD/MMM/YYYY)	21/09/2018	True wind direction (deg)	NW
Time at start (UTC)	1700	Ice type code	N/A
Time at end (UTC)	1730	Ice concentration code	0
Latitude at start / end	61° Z1.Z'N 61° 18.5 N	True platform speed (knots)	12.8 K+S
Longitude at start / end	068° 15.6'W 068° 047 W	True platform direction (deg)	118
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16KM	Height of eye (m)	72m
Weather code	0	Outdoors or Indoors	Out or 160
Glare conditions code	2	Snapshot used?	Yes or No

Notes:

21 (1	009			= = =							
± Species	* Count	Fly or Water?	In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age³	Plum.4	Sex	Comments
GLG-U	4	FLY	4	B	N/A	36	5	A	NB	M	
(-LG-4	1	FLY	Y	A	20	39	E	I	NB	M	
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), J(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	2
Platform name and type	ACADIA PESGAGNES	Wave height (m)	2 m
Observer (s)	STEPHEN BADCOCC	True wind speed (knots) OR Beaufort code	20K+5
Date (DD/MMM/YYYY)	21/09/2018	True wind direction (deg)	W
Time at start (UTC)	1230	Ice type code	N/A
Time at end (UTC)	1300	ice concentration code	0
atitude at start / end	610 46.6'N 610 44.0'N	True platform speed (knots)	12.7k+s
ongitude at start / end	070° 05.8'W 069° 54.9'W	True platform direction (deg)	1/507
latform activity	TRAVELLING	Observation side	Starboard Port
/isibility (km)	lekm	Height of eye (m)	22 m
Weather code	l	Outdoors or Indoors	Out or M
Glare conditions code	0	Snapshot used?	Yes or 16

Notes:

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* Species	# Count	Fly or Water?	in transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
GLGU	3	FLY	4	A	N/4	34	~	А	NB	M	
GLGU	2	FLY	4	A-	N/A	39	N	I	NB	M	
GLGU	4	FLY	У	A	18	39	W	4	NB	M	
WISP	12-15	T-14	Y	ß	NA	49	5	4	NB	n	
NOPU	2	FLY	Y	A	N/A	39	W	A	NB	M	
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											49
224	ļ			- 21							
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381											

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



ompany/agency	AGNICO EAGLE- MELLAPINA	Sea state code	3
Platform name and type	ACADIA DESGAGNES	Wave height (m)	l m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	18kts
Date (DD/MMM/YYYY)	21/04/2018	True wind direction	W
Time at start (UTC)	1266	ice type code	NA
Time at end (UTC)	1230	Ice concentration code	0
Latitude at start / end	61° 49.3'N 61° 46.7'N	True platform speed (knots)	12.5 Kts
Longitude at start / end	U70° 17,4W 070° 04.0'W	True platform direction	115
Visibility (km)	16 km	Observation side	Starbdard Port Middle
Weather code		Height of eye (m)	72m
Giare conditions code	0	Outdoors or Indoors	Out or 15
Platform Activity	TRAVELLING	Notes	NO OBSERVATI





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19-5			
Company/agency	AGNICO EAGLE MELIADINE	Sea state code	4
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	21K+5
Date (DD/MMM/YYYY)	20/09/2018	True wind direction	NW
Time at start (UTC)	2230	ice type code	NIA
Time at end (UTC)	2300	Ice concentration code	6
Latitude at start / end	62° 36.0'N 62° 35.3'N	True platform speed (knots)	12.5 KTS
Longitude at start / end	076° 14.8'W 0 76° 005'W	True platform direction	098°T
Visibility (km)	lekm	Observation side	Starboard Port Middle
Weather code	l:	Height of eye (m)	22 m
Glare conditions code	0	Outdoors or Indoors	Out or J
Platform Activity	TRAVELLING	Notes	NO OBSERVATIO



Observation Period Information:

Company/agency	AGNICO EAGLE - MELLADINE	Sea state code	4
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	18Kts
Date (DD/MMM/YYYY)	20/09/2018	True wind direction (deg)	1 NW
Time at start (UTC)	2200	lce type code	N/A
Time at end (UTC)	2230	Ice concentration code	0
Latitude at start / end	62° 36.6'N 62° 36.0'N	True platform speed (knots)	13.6 Kts
Longitude at start / end	076° 27.0'W 076° 15.0'W	True platform direction (deg)	095° T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 Km	Height of eye (m)	72 m
Weather code		Outdoors or Indoors	Out or 4fi
Glare conditions code	0	Snapshot used?	Yes or (No)

Species	Count		In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments	_
GLG-U	11_	FLY	_ Y	B	NA	49	N	A	NB	M		_
SAGU		FLY	Y	A	NIA	49	W	A	NB	M		
GLG4	2	FLY	4	_A	NA	39	5	A	NB	M		_
GLGU	5	FLY	4	Δ	NA	34	W	I	NB	M		_
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2.2	1								İ			
			6									
											6	
L			1									

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



Observation Period Inform	nation:	1442				
Companý/agency	AGNICO EAG	LE MELIADU	Sea state code	3		
Platform name and type	ACADIA DESG		Wave height (m)	20	า	
Observer (s)	STEPHEN BA		True wind speed (knots) OR Beaufort code	15	Kts	
Date (DD/MMM/YYYY)	20/09/20	18	True wind direction	N	N	
Time at start (UTC)	1730		Ice type code	N	4	
Time at end (UTC)	1800		Ice concentration code	٥	l	
Latitude at start / end	62° 40.0'N	62° 40.4'N	True platform speed (knots)	12	5 Kts	5
Longitude at start / end	078° 40.0'W	078° 26.5'W	True platform direction	0	87° T	-
Visibility (km)	16 Km		Observation side	Starboard	Port Mid	idle
Weather code			Height of eye (m)	22	m	
Glare conditions code	- C		Outdoors or Indoors	Out	or 2	9
Platform Activity	TRAVELL	·1N&	Notes	NO O	BSER VH	Tou



Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	3
latform name and type	ACADIA DESGAGNES	Wave height (m)	Zm
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	15 Kts
Date (DD/MMM/YYYY)	20/09/2018	True wind direction (deg)	NW
Time at start (UTC)	1700	Ice type code	NA
Time at end (UTC)	1730	Ice concentration code	0
atitude at start / end	62° 39.2'N 62° 40.0'N	True platform speed (knots)	12. Z K+S
ongitude at start / end	0 78° 52,7'W 078° 40.1'W	True platform direction (deg)	085° T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	16 Km	Height of eye (m)	22m
Weather code	1	Outdoors or Indoors	Out or And
Glare conditions code	0	Snapshot used?	Yes or Ma

Notes:

* Species	Count	Fly or Water?	In transect?		Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
UNGY		WATER	4	B	17	44		A	NB	M	
GLGU	3	FLY	Y	A	N/A	39	W	A-	NB	m	
GLGU	2	FLY	4	A	N/4	39	W	I	NB	M	
GLGN	2	FLY	٧	A	NA	49	E	A	NB	M	
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)





Observation Period Infor	nation:		
Companý/agency	AGNICO EAGLE MEHADINE		- 1
Platform name and type	ACADIA DESGAGNES	Wave height (m)	1 m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	4K+s
Date (DD/MMM/YYYY)	20/09/2018	True wind direction	NW
Time at start (UTC)	1200	Ice type code	NA
Time at end (UTC)	1230	ice concentration code	6
Latitude at start / end	62° 30.2'N 62° 33.8 N	True platform speed (knots)	12.6 K+5
Longitude at start / end	081° 02.9'N 08859, 1 W	True platform direction	048°T
Visibility (km)	16 Km	Observation side	Starboard Port Middle
Weather code	1	Height of eye (m)	72n
Glare conditions code	6	Outdoors or Indoors	Out or A
Platform Activity	TRAVELLING	Notes	NO OBSERVATA



Changed Course to 078°T during Observation

Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	1
Platform name and type	ACADIA DESGAGNES	Wave height (m)	lm
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	6 kts
Date (DD/MMM/YYYY)	20/09/2018	True wind direction (deg)	NW
Time at start (UTC)	1230	lce type code	N/A
Time at end (UTC)	1300	les concentration code	0
Latitude at start / end	62° 33.8' N 62° 34.6' N	True platform speed (knots)	12.8905
Longitude at start / end	080 52.7'W 080 40,1'W	True platform direction (deg)	078°T
Platform activity	TRAVELLING	Observation side	Starboard Port
Visibility (km)	lle km	Height of eye (m)	22m
Weather code	l	Outdoors or Indoors	Out or 16n
Glare conditions code	0	Snapshot used?	Yes or 10%

Notes:

					,						
* Species	* Count	Fly or Water?	In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
POJA		FLY	Y	A	N/A	49	5	Д	NB	M	& MEDIUM SI
UNGU	1	FLY	Y	ß	MA	39	W.	4	NB	Λ	BROWN COL.
WISP	3	FLY	Y	A	NA	49	5	A	NB	m	
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 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Information:

Company/agency	AGNICO BALLE MELIADIN	Sea state code	3
Platform name and type	ACADIA DESGAGNES	Wave height (m)	m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	17 K+5
Date (DD/MMM/YYYY)	19/09/2018	True wind direction (deg)	W
Time at start (UTC)	1700	Ice type code	N/A
Time at end (UTC)	1730	Ice concentration code	0
Latitude at start / end	620 27.3'N 62° 26.2'N	True platform speed (knots)	13.2kts
Longitude at start / end	089° 15.9'N 089° 03.0'W	True platform direction (deg)	100°T
Platform activity	TRAVELLING	Observation side	Starbeard Port
Visibility (km)	16Km	Height of eye (m)	22m
Weather code	D	Outdoors or Indoors	Out or ≱n
Glare conditions code	2	Snapshot used?	Yes or 🌿

Notes:

*	*	* Fly or	* In	*			Flight				4
Species	Count	Water?	transect?	Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
GLG4	8	FLY	4	ß	NIA	39	5	A	NB	M	
GLGU	2	FLY	4	B	N/A	39	5_	I	NB	M	
NoF4	2	FLY	4	A	N/A	49	5	A	NB	m	
WISP	3	FLY	4	A	20	49	W	A	NB	m	
SANPPIPER	4	FLY	4	A	20	49	W	A	NB	M	
TBMU	7	WATER	Y	B	NIA	44	-	A	NB	M	
							94				
										10	
											F4
										<u> </u>	
					T						

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



Observation Period Inform	ation:		
Companý/agency	AGNICO EAGLE MELIA	Sea state code	2
Platform name and type	ACADIA DESGAGNES	Wave height (m)	lm
Observer (s)	STEPHEN BADGOCK	True wind speed (knots) OR Beaufort code	W
Date (DD/MMM/YYYY)	19/09/2018	True wind direction	8 Kts
Time at start (UTC)	2230	Ice type code	NIA
Time at end (UTC)	2300	Ice concentration code	6
Latitude at start / end	62° 14.8'N 62° 13.7'N	True platform speed (knots)	13.4 KTS
Longitude at start / end	086° 42.0'N 686° 28.3W	True platform direction	100 7
Visibility (km)	16 Km	Observation side	Starboard Port Middle
Weather code	0	Height of eye (m)	22m
Glare conditions code	0	Outdoors or Indoors	Out or To
Platform Activity	TRAVELLING	Notes	NO OBSERVATIONS



Observation Period Information:

Company/agency	AGNICO EAGLE MELIADINE	Sea state code	
Platform name and type	ACADIA DESGAGNES	Wave height (m)	lm
Observer (s)	STEPHEN BADCOCC	True wind speed (knots) OR Beaufort code	7×+5
Date (DD/MMM/YYYY)	19/09/2018	True wind direction (deg)	W
Time at start (UTC)	2200	Ice type code	NA
Time at end (UTC)	2230	Ice concentration code	0
Latitude at start / end	62° 15.9'N 62° 14.8'N	True platform speed (knots)	13.5 Kts
Longitude at start / end	086° 55.4'W 086° 42.2'W	True platform direction (deg)	100° T
Platform activity	TRAVELLING	Observation side	Sterfooard Port
Visibility (km)	16 Km	Height of eye (m)	22m
Weather code	O	Outdoors or Indoors	Out or the
Glare conditions code	0	Snapshot used?	Yes or 150
Notes:		-	

* Species	* Count	* Fly or Water?	In transect?	* Distance ¹	Assoc.	Behav.	Flight Direc. ²	Age ¹	Plum. ⁴	Sex	Comments
DOVE	3	FLY	Y	ß	NIA	39	5	A	NB	M	
GLGU	8	FLY	Ч	A	N/A	49	5	A	NB	m	
GLGU	2	FLY	4	A	NA	49	5	I	NB	M	
NOFU	3	FLY	4	ß	N/A	49	5	A	NB	M	
IVGU	2	FLY	Y	Ą	NIA	49	5	A	NB	M	
UNGU		WATER	ዛ	A	NA	60	_	A	NB	n	
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		3									

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

AGNICO EAGLE

MARINE MAMMAL PROGRAM

Fill out one snee Observation Period Informa	Lagrantia de la companya de la compa	ion ponee					
Company/agency	DESGAGNE	5	Sea state code *	3	3		
Platform name and type	ACAOIA DES		Wave height (m)	2 m	\		
Observer (s)	STEPHEN		True wind speed (knots) OR * Beaufort code	15	Kts		
Date (DD/MMM/YYYY)	14/09/201		True wind direction	\sim	<u>,</u>		
Time at start (UTC)	1230		Ice type code	N(NA		
Time at end (UTC)	1300		Ice concentration code	0	0		
Latitude at start / end	62°41.6'N	62° 40'. 103'N	True platform speed (knots)	12	12.0 Kts		
Longitude at start / end			True platform direction	29	0° T		
Visibility (km)	8 Km		Observation side	Starboard	Port	Middle	
Weather code	6		Height of eye (m)	23	2 m		
Glare conditions code			Outdoors or Indoors	Out	or	ds	
Platform Activity	TRAVELLE	ING	Notes	NO O	BSERV	ATLONS	

[★]Refer to "Codes" datasheets

Observation Period Information:

Observation Ferior Inform			3
Clegency	DESGAGNES	Sea state code	
Company/agency	A CARLA DESCALAISE	Wave height (m)	m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	1, 1, 1, 1, 1, 1
Observer (s)	STEPHEN BADCOCK	Beaufort code	14K+5
		True wind direction (deg)	W
Date (DD/MMM/YYYY)	19/09/2018	Ice type code	NIA
Time at start (UTC)	[230	Ice concentration code	0
Time at end (UTC)	1300	True platform speed (knots)	13.0 KTS
Latitude at start / end	62° 39.2'N 62° 37.8'N	True platform direction (deg)	110°T
Longitude at start / end	091° 223'W 0910 09.8'W	Observation side	Starbpard Port
Platform activity	TRAVELLING	Height of eye (m)	22 m
Visibility (km)	16km	Outdoors or Indoors	Out or to
Weather code	0	Snapshot used?	Yes or 🕉
Glare conditions code	3	- Chapter and a chapter and a	

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sird Inform	ration: *	* Fly or Water?	ust be comple # In transect?	* Distance	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.4	Sex	Comments
GLGU	2	FIY	У	B	NA	39	5_	<u>A</u> _	NB	M	
	7	F14_	4	ß	NIA	39	5	工	NB	M	
GLGU		FIY	4	B	NA	49	N_	4	NB	M	
DOVE	4	FIY	4	4	N/A	49	5	A	NB	M	# SMALL RIRDS LOOK
SANDFIFER		FIY	4	B	N/A	49	5	A	NB	/h	VERY MUCH LIKE
JKNVI 1	, , ,	1					 			-	PICTURE OF
	 			T			 	┼		+	"LEAST SANDPIPER
								 	 		HEADT SHIVETIES
	1	54								-	
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	+	1						-		-	
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

MARINE MAMMAL PROGRAM

Observation Period Inform	nation:						
Company/agency	DESGAGNE	S	Sea state code 🛨	2			
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	1 tr	h		
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	13	K+S		
Date (DD/MMM/YYYY)	19/09/201	8	True wind direction	h	/		
Time at start (UTC)	1200		Ice type code	~/:	NA		
Time at end (UTC)	1230		Ice concentration code 🖈	C	0		
Latitude at start / end	62° 40.7'N	62° 39.7' N	True platform speed (knots)	13	13.1 Kts		
Longitude at start / end	vai° 33.7'W	091° 27.5'W	True platform direction	03	76º T		
Visibility (km)	16 Km		Observation side	Startogard	Port	Middle	
Weather code *	0		Height of eye (m)	22	m		
Glare conditions code	3		Outdoors or Indoors	Out	or	Ó	
Platform Activity	TRAVE	ELLING	Notes	NO OB	SERVA	TIONS	

[★] Refer to "Codes" datasheets

Observation Period Information:

Observation Period Inform		. Г	
. 1885	DESGAGNES	Sea state code	
Company/agency	DESCALATES	Wave height (m)	2 m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	13 Kts
01(0)	STEPHEN BADCOCK	Beaufort code	
Observer (5)		True wind direction (deg)	NE
Date (DD/MMM/YYYY)	14/09/2018	lce type code	\sim /A
Time at start (UTC)	1200	Ice concentration code	0
Time at end (UTC)	62° 39.3'N 62° 41.0'N		11.8 K+5
Latitude at start / end	93	_	290°T
Longitude at start / end		Observation side	Starboard Port
Platform activity	TRAVELLING	Height of eye (m)	22 m
Visibility (km)	7-Km	Outdoors or Indoors	Out or Ap
Weather code	Q.	Snapshot used?	Yes or 🕉
Glare conditions code			

Clare collections code	
Notes:	· ·
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Species WISP UNGU UNGU TRMU GLGU DOVE	Count Z 3 2 1 8	Fly or Water? Fly Fly Fly Water Fly Fly Fly	transect?	Distance ¹ A A A A B A	Assoc. 19 MA N/A N/A N/A N/A N/A	Behav. 60 49 49 60 36 49	Flight Direc. ² N N N N N F	Age ³ A A A A A A A A A	Plum. ⁴ NR NR NR NR NR NR NB NB	Sex M M M M M M M M M	Comments
DOVE	1	Fly	7	A	NIA	36	E	A	NB	M	

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m,


MARINE MAMMAL PROGRAM

Observation Period Inform	A DESCRIPTION OF THE PROPERTY						
Company/agency	DESGAGNE	The state of the s	Sea state code *	2			
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	Zm			
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	161	16 Kts		
Date (DD/MMM/YYYY)	13/09/20	18	True wind direction	5	5		
Time at start (UTC)	2230		Ice type code	N/.	<u> </u>		
Time at end (UTC)	2300		Ice concentration code *	0			
Latitude at start / end	62º 11.2'N	62° 12.4'N	True platform speed (knots)	12.	6 KTS		
Longitude at start / end	085° 59.1'W		True platform direction	27	9º T		
Visibility (km)	16Km	82	Observation side	Starboard	Port	Middle	
Weather code *	2		Height of eye (m)	22	2 m		
Glare conditions code	0		Outdoors or Indoors	Out	or	JA	
Platform Activity	TRAVELLI	V G-	Notes	NO (SBSERI	VATIONS	

[★] Refer to "Codes" datasheets

Observation Period Information:

Object various		. г	2
O	DESGAGNES	Sea state code	
Company/agency	DECCALATE	Wave height (m)	2 m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	10 / 1 6
Observer (s)	STEPHEN BADCOCK	Beaufort code	13 K+5
		True wind direction (deg)	
Date (DD/MMM/YYYY)	13/09/2018	lce type code	N/A
Time at start (UTC)	2200	Ice concentration code	0
Time at end (UTC)	2230	.1	12.8 K+3
Latitude at start / end	62° 10.3'N 62° 11.2'N	-	279°T
Longitude at start / end	085° 46.2'W 085° 59.0'N	_	Starboard Port
Platform activity	TRAVELLING	Observation side	
		Height of eye (m)	22 m
Visibility (km)	llekm	Outdoors or Indoors	Out or do
Weather code		Snapshot used?	Yes or 🚜
Glare conditions code	0	Shapanot asset.	

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Λ	Notes:	
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Species Andpirer FLGU VOFU TBMU FLGU	Count 1 2 4 7 1 1	Fly or Water? Fly Fly Water Fly Water	In transect?	Distance' A A A A A A	Assoc. See U/A N/A N/A N/A	Behav. 49 49 60 39	Flight Direc. ² S N W	Age ³ A A A T	Plum.4 NB NB NB NB NB	Sex M M M M M	Comments

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0 within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = 0 no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



MARINE MAMMAL PROGRAM

Observation Period Inform	and the service of th						
Company/agency	DESGAGNE	5	Sea state code 🛨	3			
Platform name and type	ACADIA DES	GAGNES	Wave height (m)	2 m			
Observer (s)	STEPHEN	BADCOCK	True wind speed (knots) OR * Beaufort code	16	K+S		
Date (DD/MMM/YYYY)	13/09/20	18	True wind direction	S	SW		
Time at start (UTC)	1730		Ice type code	NI	NIA		
Time at end (UTC)	1800		Ice concentration code *	0			
Latitude at start / end	62° 00.4'N	62° 01.6'N	True platform speed (knots)	11.	8 kt	2	
Longitude at start / end	083° 48,5'W	084° 01.5′W	True platform direction	2:	79° T		
Visibility (km)	16 Km		Observation side	Starboard	Port	Middle	
Weather code *)		Height of eye (m)	22	2m		
Glare conditions code	1		Outdoors or Indoors	Out	Ol	260	
Platform Activity	TRAVELL	ING	Notes	NOO	BSER	UATIONS	

[★] Refer to "Codes" datasheets

Observation Period Information:

Observation Period Illion		ī	
Company/agency	DESGAGNES	Sea state code Wave height (m)	2m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	17 K+S
Observer (s)	STEPHEN BADCOCK	Beaufort code True wind direction (deg)	SW
Date (DD/MMM/YYYY)	13/09/2018	Ice type code	NA
Time at start (UTC)	1700	Ice concentration code	11 3 /5+5
Time at end (UTC) Latitude at start / end	(-10 59 5'N 620 00.4'N	True platform speed (knots) True platform direction (deg)	11.3 K+5 278° T
Longitude at start / end	083° 36.4'W 083° 48.1'N	Observation side	Starboard Port
Platform activity	TRAUFLLING 16 KM	Height of eye (m)	22 m
Visibility (km) Weather code	142.	Outdoors or Indoors	Out or do
Glare conditions code	1	Snapshot used?	

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Bird Inform	nation: *	this field <u>m</u>	ust be comple	ted for each re	cord					1	
Species WISP SAGU	Count Z	Fly or Water? Fly Fly	In transect?	Distance B	Assoc. N/A ZO	Behav.	Flight Direc.2	Age³	Plum.4 NB NB	Sex M	Comments
											``
			1.								

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



MARINE MAMMAL PROGRAM

Fill out one sheet Diservation Period Informa	ition:	7.22			
Company/agency	DESGAGNES		Sea state code 🛨	4	
Platform name and type	ACADIA DESG	AGNES	Wave height (m)	2 m	
Observer (s)	STEPHEN B		True wind speed (knots) OR * Beaufort code	25	K+5
Date (DD/MMM/YYYY)	13/09/2018		True wind direction	Su)
Time at start (UTC)	1230		Ice type code	NA	
Time at end (UTC)	1300		Ice concentration code	6	
Latitude at start / end	62° 19.1'N	620 15 1'N	True platform speed (knots)	11.2	kts_
Longitude at start / end	082° 11.2'W		True platform direction	22	23°T
Visibility (km)	llekm		Observation side	Starboard	Port Middle
Weather code *	1		Height of eye (m)	22	m
Glare conditions code	0		Outdoors or Indoors	Out	or £6
Platform Activity	TRAVELL	.ING	Notes	NO O	BSERVATION

[★]Refer to "Codes" datasheets

Observation Period Information:

Observation Period Inform		, [
Company/agency Platform name and type Observer (s) Date (DD/MMM/YYYY) Time at start (UTC) Time at end (UTC) Latitude at start / end Longitude at start / end	DESGAGNES ACADIA DESGAGNES STEPHEN BADCOCK 13/09/2018 1700 1230 62° 23.3'N 62° 19.2'N 082° 03.2'W 082° 11.0'N	Sea state code Wave height (m) True wind speed (knots) OR Beaufort code True wind direction (deg) Ice type code Ice concentration code True platform speed (knots) True platform direction (deg) Observation side	2 m 20 k+s 5 w MA 0 11.5 K+s 223°T Statboard Port
Platform activity Visibility (km) Weather code Glare conditions code	TRAVELLING 1 Le Km	Height of eye (m) Outdoors or Indoors Snapshot used?	Out or do

Γ	Notes:	
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Bird Inform	nation: *	this field <u>m</u>	ust be comple	ted for each re	cord						
Species GLGU UNGU DOVE	Count / 1 12	* Fly or Water? Fly Fly	In transect?	Distance ¹ A A	Assoc. NIA NIA NIA	Behav. 49 36 36	Flight Direc.²	Age³ A A	Plum. ⁴ NB NB	Sex M	Comments
		-			-			-		-	

 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m,
Observation Period Information:

		_	
0	DESGAGNES	Sea state code	4
Company/agency	JEJUNG-0E	Wave height (m)	2 m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	
Observer (s)	STEPHEN BADCOCK	Beaufort code	22 K+S
	12/09/2018	True wind direction (deg)	5 E
Date (DD/MMM/YYYY)		Ice type code	N/A
Time at start (UTC)	1736		
Time at end (UTC)	1300	Ice concentration code	11111
	62° 28.6'N 62° 31.0'N	True platform speed (knots)	11. 1 K+5
Latitude at start / end	(02 / 8.0 / 10 / 2 / 110 /	True platform direction (deg)	297°
Longitude at start / end	673° 07.5'W 073° 17.8'W	- ·	Startjoard Port
Platform activity	TRAVELING	Observation side	
	16 Km	Height of eye (m)	22 m
Visibility (km)	102	Outdoors or Indoors	Out or 160
Weather code	:	∤	Yes or No
Glare conditions code	0	Snapshot used?	163 0. 19

Notes:	Vessel	Changed	Course	to	270°T	before	1300 UTC	

Bird Inforn	nation: *	this field <u>m</u>	ust be comple	ted for each re	cord						
Species GLGU UNGU	Count 2	* Fly or Water? Fly Fly Fly	In transect? Y Y	Distance ³ A A	Assoc. N/A N/A N/A	Behav. 36 36 36	Flight Direc.² N E	Age³ A T A	Plum.4 NB NB NB	Sex M M	Comments
								1			

 $^{^{1}}$ A = 0.50m, B = 51.100m, C = 101.200m, D = 201.300m, E = > 300m, S = 0.50m,
Observation Period Information:

2 Sea state code DESGAGNES Company/agency Wave height (m) ACADIA DESGAGNES Platform name and type True wind speed (knots) OR 10K+5 Beaufort code STEPHEN BADCOCK Observer (s) True wind direction (deg) 11/04/2018 Date (DD/MMM/YYYY) N/AIce type code 2200 Time at start (UTC) 0 Ice concentration code 2230 Time at end (UTC) KtS 12.5 True platform speed (knots) 610 25.7'N Latitude at start / end 298° True platform direction (deg) 068° 35.6'W 068° 46.5'W Longitude at start / end Starboard Port Observation side TRAVELLING Platform activity 22 m Height of eye (m) lle km Visibility (km) 肾 Out Outdoors or Indoors Weather code MÓ Yes Oľ Snapshot used? Glare conditions code

WHITH WHO SHOW OF COURSE O Notes:

Species TBMU UNGU GIGU	Count (* Fly or Water? Water Water Fly Fly	ust be comple In transect? Y Y Y Y	Distance A	Assoc. N/A N/A N/A	Behav. (a O (a O 3 q 4 q	Flight Direc.2	Age³ A A A	Plum. ⁴ NB NB NB	Sex M M M	Comments

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 =within 300m but no distance recorded.

²Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction $^{3}J(\text{uvenile})$, I(mmature), or A(dult); $^{4}B(\text{reeding})$, NB(non-breeding), M(oult)

Observation Period Information:

Company/agency	DESGAGNES	Sea state code	2
Platform name and type	ACADIA DESGAGNES	Wave height (m)	2 m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR Beaufort code	6 Kts
Date (DD/MMM/YYYY)	11/09/2018	True wind direction (deg)	2350
Time at start (UTC)	1230	Ice type code	NA
Time at end (UTC)	1300	Ice concentration code	0
Latitude at start / end	60° 37.8'N 60° 40.1'N	True platform speed (knots)	12.6 KTS
Longitude at start / end	065° 125'W 065° 22.7'W	True platform direction (deg)	297°
Platform activity	TRAVELLING	Observation side	Starfboard Port
Visibility (km)	1 le Km	Height of eye (m)	22 m
Weather code		Outdoors or Indoors	Out or Or
Glare conditions code	0	Snapshot used?	Yes or 🕉

Notes:	.,		
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				1							<u></u>
*	*	* Fly or	* In	* Distance	Assos	Behav.	Flight Direc. ²	A 203	Plum. ⁴	Sex	Comments
Species	Count	Water?	transect?		Assoc.		Direc.	Age			Comments
NOFU	رو	Fly	7	Α	NA	39	280W	7	NB	Μ	
NOFU	-{	Fly	7	A	N/A	39	W	A	NB	n	
UNGU	2	Fly	Y	A	NA	39_	5	A.	NB	77	
UNGU	(FI4	4	A	N/4	36	N	A	NB	m	
NOFU	15	FIY	4	A	NA	39	W	A	NB	M	
UNGU	8	WATER	Ÿ	A	NA	60	_	A	NB	m	
		 			1						

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J (uvenile), J (mmature), or J (dult); 4 J (reeding), J (non-breeding), J J (uvenile)

Observation Period Information:

Object value = = =			
C-m-onvlagency	DESGAGNES	Sea state code	
Company/agency	DESCRIPTION OF STREET	Wave height (m)	< 1 m
Platform name and type	ACADIA DESGAGNES	True wind speed (knots) OR	
Observer (s)	STEPHEN BADCOCK	Beaufort code	6KTS
		True wind direction (deg)	N
Date (DD/MMM/YYYY)	11/09/2018	Ice type code	N/A
Time at start (UTC)	1730	Ice concentration code	0
Time at end (UTC)	1800		11.7 K+5
Latitude at start / end	61°03.2'N 61°05.4'N	-	2970
Longitude at start / end	066° 58.3'W 067°09.5'W		Starboard Port
Platform activity	TRAVELLING	Observation side	22 m
	16 km	Height of eye (m)	
Visibility (km)		Outdoors or Indoors	Out or dir
Weather code	1	Snapshot used?	Yes or No
Glare conditions code	0	J Strapshor asoa.	

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Bird Infor	nation: *	this field m	ust be comple	ted for each re	cord						
Species UNGU UNGU GLGU TRMU	Count Count Count L L L L L L L L L L L L L	* Fly or Water? Fly WATEL WATEL	in transect? Y Y	Distance! A A A A A	Assoc. N/A N/A ZO N/A N/A	Behav. 31 66 36 60	Flight Direc.²	Age ³ A A A A	Plum.4 NB NB NB NB NB	Sex M M M	Comments

 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)

Observation Period Information:

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Company/agency	DESGAGNES	Sea state code	
' I	A ARLA DESCALATES	Wave height (m)	m
Platform name and type	ACADIA DESGAGNES		
		True wind speed (knots) OR	7kts 1
Observer (s)	STEPHEN BADCOCK	Beaufort code	
- (DD 2 () () (() (V/V/V/V)	12/09/2018	True wind direction (deg)	5 E
Date (DD/MMM/YYYY)		Ice type code	N/A
Time at start (UTC)	700		
	1730	Ice concentration code	
Time at end (UTC)		True platform speed (knots)	14.3 k+5
Latitude at start / end	62° 328'N 62° 33.6'N	4	279° T
t Soude at start / and	075° 10.2'W 075° 24.2'W	True platform direction (deg)	
Longitude at start / end		Observation side	Starboard Port
Platform activity	TRAVELING	Height of eye (m)	22 m
Visibility (km)	16km	1	
-		Outdoors or Indoors	Out or to
Weather code	0	Snapshot used?	Yes or 160
Glare conditions code	U U	T Suabsnot asea:	

F	Notes:
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* Species	* Count	* Fly or Water?	In transect?	* Distance	Assoc.	Behav.	Flight Direc.2	Age ³	Plum.4	Sex	Comments
16U	2	Water	4	<u></u>	N/A	66			NB	M	
rLGU		Fly	4_	A	MA	36	W_	A-	1013	101	
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 $^{^{1}}$ A = 0.50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = 0.50m,
Observation Period Information:

Observation Period Information: Company/agency Platform name and type Observer (s) Date (DD/MMM/YYYY) Time at start (UTC) Time at end (UTC) Latitude at start / end Longitude at start / end Platform activity Visibility (km) Weather code Glare conditions code DESGAGNES ACADIA DESGAGNES STEPHEN BADCOCK 12/09/2018 2200 2230 62° 38.5'N 62° 39.1'N 077° 20.5'W 077° 29.2'W TRAVELLING 2 Clare conditions code	Sea state code Wave height (m) True wind speed (knots) OR Beaufort code True wind direction (deg) Ice type code Ice concentration code True platform speed (knots) True platform direction (deg) Observation side Height of eye (m) Outdoors or Indoors Snapshot used?	28 k+5 NW N/A 0 9,2 k+5 280° Staffboard Port 22 m Out or da Yes or 36
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cieared to 16 km visibility

Bird Inform	ation: *	this field m	ust be comple	ted for each re	cord						
* Species	Count	* Fly or Water?	in transect?	Distance	Assoc.	Behav.	Flight Direc. ²	Age ³	Plum.*	Sex	Comments
UNGU	1	FIY	Y	A	NA	71	N	A	NB	m	
GL.GU		FIY	Ч	A	MIA					 	
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		 						-		┼	
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 $^{^{1}}$ A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, S = Within 300m but no distance recorded. 2 Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction 3 J(uvenile), I(mmature), or A(dult); 4 B(reeding), NB(non-breeding), M(oult)



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