

## **Appendix 71**

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### **Whale Tail Marine Mammal and Seabird Observer Report 2019 Shipping Season**

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**NUQSANA GOLDER**  
ENGINEERING AND ENVIRONMENTAL INC.

**REPORT**

# Marine Mammal and Seabird Observer (MMSO) Report 2019 Shipping Season

*Amaruq - Whale Tail, Baker Lake, Nunavut*

Submitted to:

**Agnico Eagle Mines Limited**

Submitted by:

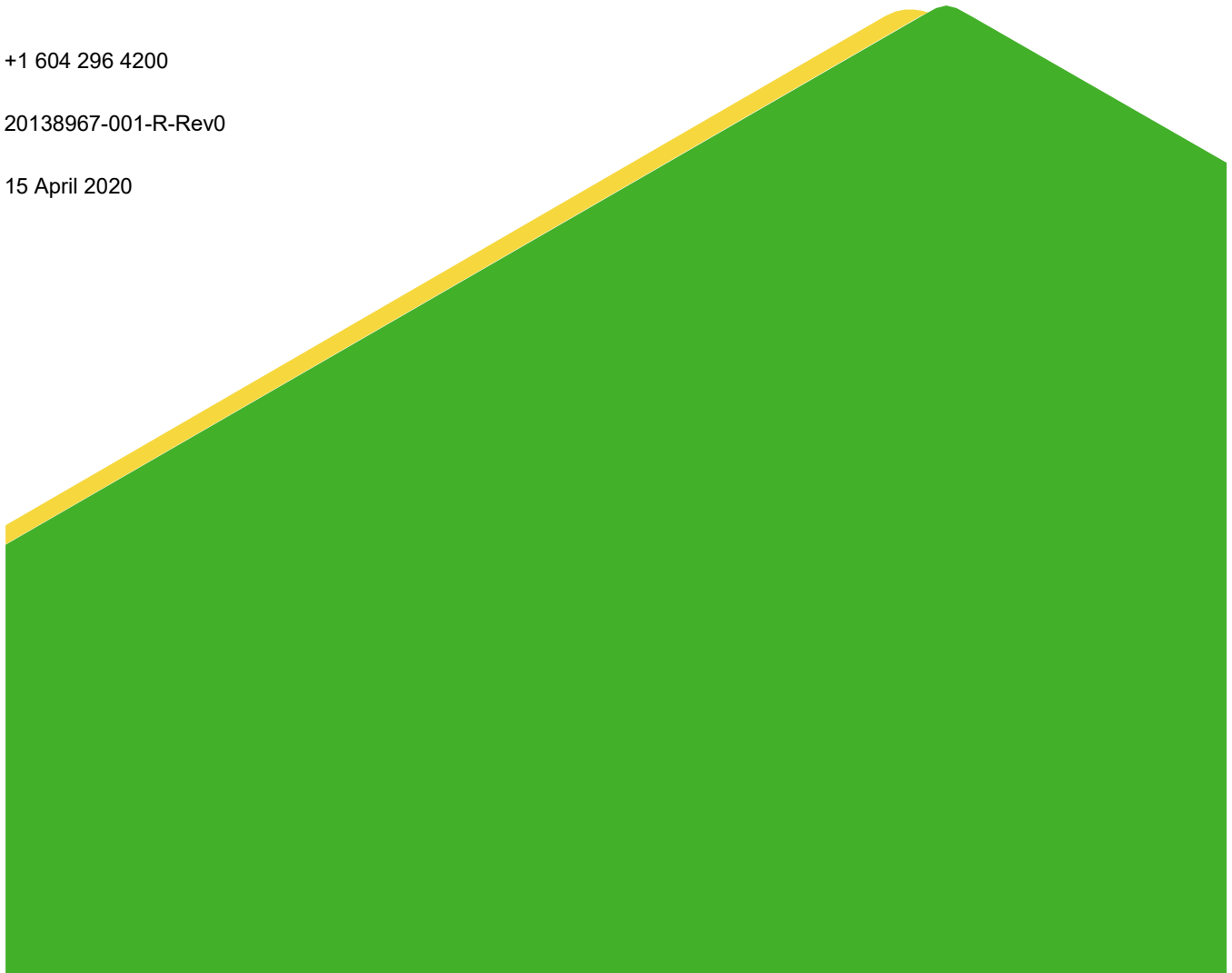
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20138967-001-R-Rev0

15 April 2020



## Distribution List

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## Executive Summary

Agnico Eagle Mines Limited (Agnico Eagle) – Meadowbank Division operates the Meadowbank Mine and Amaruq–Whale Tail Pit (the Project). A total of approximately 60,000 tonnes of dry cargo and 66.8 million litres of diesel fuel are required annually for the operations of the Project. To meet these needs, a total of seven vessels delivered dry goods, and two tankers delivered diesel fuel for the Project in 2019. Shipping is to be carried out during the open water season (typically from July to late October) and follow recommended shipping routes that are presently in use for the annual sea lift to Chesterfield Inlet, Baker Lake and other communities. The shipping route extends through Hudson Strait and across Hudson Bay to Chesterfield Inlet and the Hamlet of Baker Lake.

The Mine's Shipping Management Plan, as required by the NIRB Project Certificate No. 008 Condition 40, 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 develop a MMSO report to support Agnico's 2019 annual report to the Nunavut Impact Review Board (NIRB) for the 2019 shipping season. This report provides an interpretation and discussion of the MMSO data collected in 2018 and 2019 by the shipping contractor Transport Desgagnés. This report also addresses NIRB Project Certificate No. 004 Condition 36 and Project Certificate No. 008 Condition 38 and 39.

The 2019 MMSO program recorded five marine mammal species: killer whale (*Orcinus orca*), harp seal (*Pagophilus groenlandicus*), fin whale (*Balaenoptera physalus*), bowhead whale (*Balaena mysticetus*), and polar bear (*Ursus maritimus*). The total temporal (hr) and spatial (km) survey effort of the 2019 MMSO program was greater than 2018 and included six vessels, compared to two vessels in 2018. The 2019 MMSO Program was conducted over five months (July to November), while the program in 2018 was conducted over two months (June to July).

Seabird monitoring was conducted on 80 days from 26 June to 2 November 2019. Moving platform seabird monitoring effort was 2,136.5 km over 84.8 hours and stationary platform survey effort was 28.9 hours at 12 locations in 2019. A total of 953 individuals from 18 identified species and four unidentified species groups were observed during moving platform surveys in 2019. Stationary platform surveys recorded 364 individuals from 14 identified species and four unidentified species groups. The probability of detecting seabirds from moving platforms in 2019 was 0.24 (95% Confidence Interval: 0.17 to 0.36). Detection probabilities and density estimates could not be calculated for stationary platforms in 2019 (12 locations) or moving platforms in 2018 (35 transects) due to small sample sizes.

A total of nine Transport Desgagnés vessels serviced the Project via Baker Lake between July to early November during the 2019 shipping season. Two of the nine vessels serviced Baker Lake twice during the shipping season; *Acadia Desgagnés* and *Rosaire A. Desgagnés*. one of the nine vessels serviced Baker Lake every month of the 2019 shipping season: *Thorco Isadora*. One Transport Desgagnés vessels (*Acadia Desgagnés*) had a single passage north of Coats Island due to safety concerns for the vessel, crew and cargo due to weather and sea conditions (i.e. high winds) during the 2019 shipping season.

In Compliance with Whale Tail Pit Project Certificate No. 008, Term and Condition 39,, Project vessels must follow a setback distance of 500 m from colonies and aggregation of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet. Transport Desgagnés had three vessel tracks that intersected with setback polygons (Marble Island). However, in all cases no ship track point was located within a setback polygon. The closest ship track point were recorded by the *Rosaire A. Desgagnés* on 10 October 2019,

3.89 km south of the Marble Island setback polygon (Latitude: 62.6305; Longitude: -91.15333) and on 18 October 2019 5.1 km north of Digges Sound Important Bird Area (IBA) setback polygon (Latitude: 62.6217; Longitude: -77.5031). The limited ship track resolution resulted in a simplified shipping track that did not illustrate accurate locations of Transport Desgagnés vessels.

No marine mammal-vessel interactions or birds-vessel interactions (e.g., strikes) were recorded in 2019.

## 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 2019 Shipping Season for the Meadowbank Division in Baker Lake, Nunavut.

This report was prepared, based on information obtained from Transport Desgagnés and local community members through Agnico Eagle. 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 in this report have been prepared for the specific application to this Project and have been developed in a manner consistent with the 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.

# Table of Contents

<b>EXECUTIVE SUMMARY</b> .....	<b>ii</b>
<b>STUDY LIMITATIONS</b> .....	<b>iii</b>
<b>1.0 INTRODUCTION</b> .....	<b>1</b>
1.1 Objectives.....	1
<b>2.0 METHODS</b> .....	<b>4</b>
2.1 Shipping Activity.....	4
2.2 Marine Mammal Data Analysis.....	4
2.3 Seabirds.....	5
<b>3.0 RESULTS</b> .....	<b>6</b>
3.1 Shipping Activity.....	6
3.2 Marine Mammals.....	12
3.2.1 Survey Effort.....	12
3.2.2 Environmental Variables and Sighting Conditions Weather.....	13
3.2.3 Sightings.....	14
3.3 Seabirds.....	17
3.3.1 Surveys from Moving Platforms.....	17
3.3.1.1 Temporal and Spatial Observation Effort.....	17
3.3.1.2 Species Richness and Abundance.....	17
3.3.1.3 Detection Probability and Density Estimate.....	21
3.3.2 Surveys from Stationary Platforms.....	21
3.3.2.1 Temporal and Spatial Observation Effort.....	21
3.3.2.2 Species Richness and Abundance.....	21
3.3.2.3 Detection Probability and Density Estimate.....	24
<b>4.0 DISCUSSION</b> .....	<b>24</b>
<b>5.0 CLOSURE</b> .....	<b>26</b>
<b>6.0 REFERENCES</b> .....	<b>27</b>

## TABLES

Table 1: Sample Size Available for Distance Analyses.....	6
Table 2: Summary of Transport Desgagnés Shipping Season.....	7
Table 3:MMSO and WMO Transport Desgagnés Vessels.....	12
Table 4: Survey Effort.....	12
Table 5: Marine Mammal Observations During the 2019 MMSO Program.....	15
Table 6: Survey Effort for Moving Platform Seabird Surveys.....	17
Table 7: Seabirds Observed During Moving Platform Surveys in 2018 and 2019.....	17
Table 8: Density Estimate and 95% Confidence Intervals for Seabirds Observed Along Moving Platform Surveys in 2019 and 2018 and 2019, combined.....	21
Table 9: Seabirds Observed During Stationary Platform Surveys in 2019.....	22

## FIGURES

Figure 1: Project Location.....	2
Figure 2: Marine Local Study Area (LSA) and Regional Study Area (RSA) for the Amaruq–Whale Tail Project.....	3
Figure 3: Transport Desgagnés Shipping Tracks, July 2019.....	8
Figure 4: Transport Desgagnés Shipping Tracks, August 2019.....	9
Figure 5: Transport Desgagnés Shipping Tracks, September 2019.....	10
Figure 6: Transport Desgagnés Shipping Tracks, October 2019.....	11
Figure 7: Percent Weather Conditions – 2019 Marine Mammal Observation Program.....	13
Figure 8: Sea State Conditions – 2019 Marine Mammal Observation Program.....	14
Figure 9: Glare Conditions – 2019 Marine Mammal Observation Program.....	14
Figure 10: Marine Mammals Sightings – 2019.....	16
Figure 11: Distribution of Seabirds Observed During Moving Platform Surveys, 2019.....	19
Figure 12: Distribution of Seabirds Observed During Moving Platform Surveys, 2018 and 2019.....	20
Figure 13: Distribution of Seabirds Observed During Stationary Platform Surveys, 2019.....	23



## **APPENDICES**

### **APPENDIX A**

Summary of Marine Mammal Sightings and Environmental Variables Recorded by Transport Desgagnés for the 2019 Shipping Season

### **APPENDIX B**

Data Sheets Recorded by Transport Desgagnés and Provided by Agnico Eagle Mines for Marine Mammal and Seabird Observations for the 2019 Shipping Season

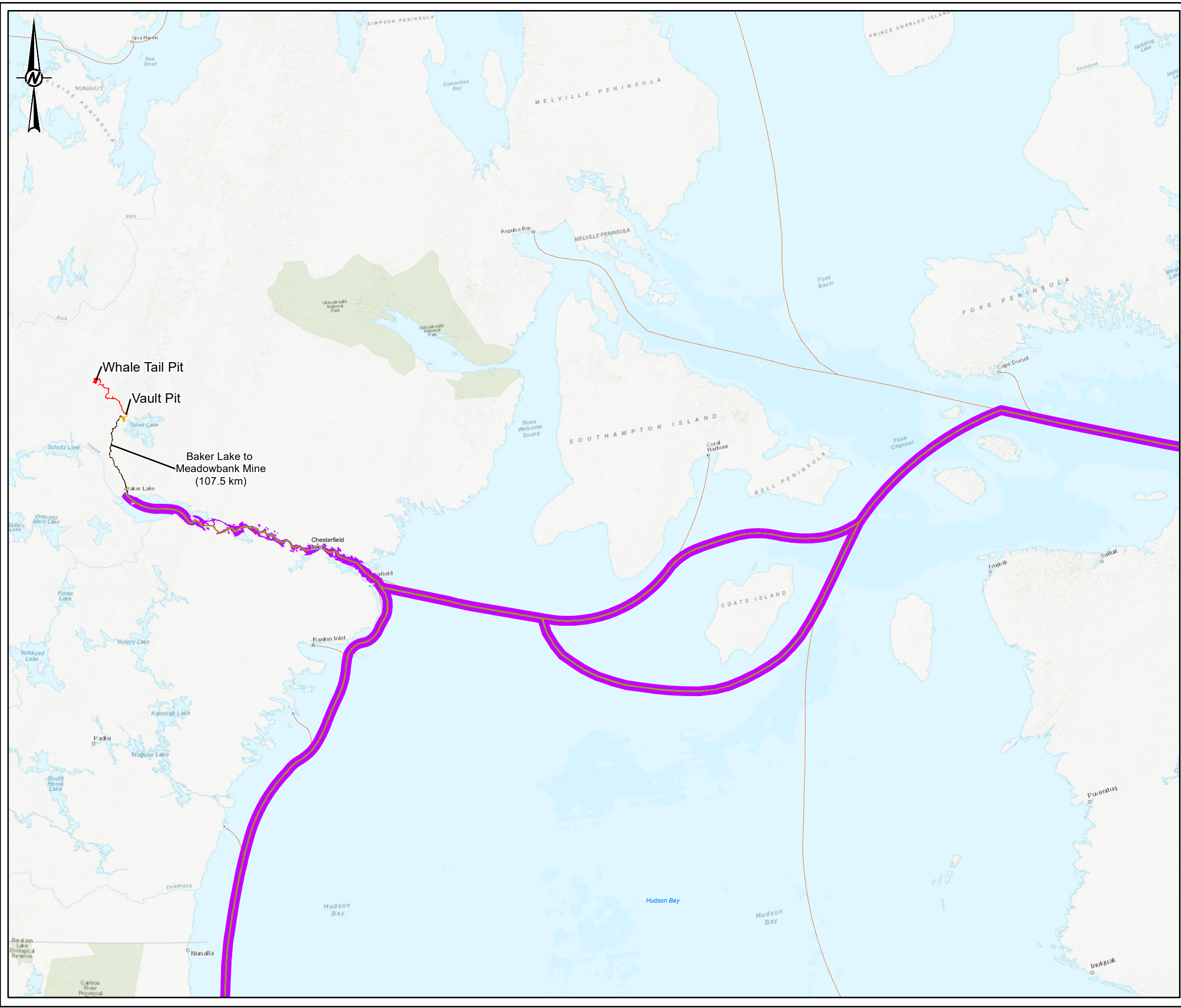
## 1.0 INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) – Meadowbank Division operates the Meadowbank Mine and Amaruq–Whale Tail Pit (the Project). A total of approximately 60,000 tonnes of dry cargo and 66.8 million litres of diesel fuel are required annually for the operations of the Project (Figure 1). To meet these needs, a total of seven vessels delivered dry goods and two tankers delivered diesel fuel for the Project in 2019. Shipping is to be carried out during the open water season (typically from July to late October) and follow recommended shipping routes that are presently in use for the annual sea lift to Chesterfield Inlet, Baker Lake and other communities. The shipping route extends through Hudson Strait and across Hudson Bay to Chesterfield Inlet and the Hamlet of Baker Lake (Figure 2).

The Mine's Shipping Management Plan (SMP), as required by the NIRB Project Certificate No. 008 Condition 40, outlines a Marine Mammal and Seabird Observer (MMSO) program that is to be implemented by Project shipping contractors to support the Terms and Conditions of the Mine's Nunavut Impact Review Board (NIRB) Project Certificate No.008 (Amendment 001), related to shipping activities and potential marine spills. Transport Desgagnés is required to implement a MMSO program during shipping activities in the marine Local and Regional Study Areas (LSA and RSA; Figure 2). 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 along the shipping route.

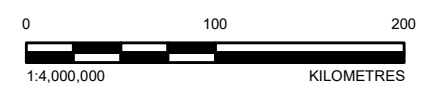
### 1.1 Objectives

The objective of this report is to present a summary of the MMSO data collected by Transport Desgagnés during the 2019 MMSO program to support Agnico's 2019 annual report to the NIRB. It is important to note that the primary objective of the MMSO program is to mitigate vessel strikes to marine mammals and seabirds and secondarily to collect information regarding wildlife presence. The annual MMSO report therefore provides information collected on wildlife presence including the location, behaviour, abundance, and species observed as well as any interactions with Project vessels during shipping activities in the RSA (Figure 2).



**LEGEND**

- COMMUNITY
- SHIPPING ROUTE
- ALL WEATHER ROAD
- WHALE TAIL PIT
- MEADOWBANK OPERATION AND INFRASTRUCTURE
- MARINE LOCAL STUDY AREA (LSA)
- MARINE REGIONAL STUDY AREA (RSA)
- WATERBODY



**REFERENCES**

- HAUL ROAD OBTAINED FROM AGNICO EAGLE MINES LIMITED.
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- INSET MAP DATA OBTAINED FROM ESRI.

COORDINATE SYSTEM: CANADA LAMBERT CONFORMAL CONIC

CLIENT **AGNICO EAGLE MINES LIMITED**

PROJECT **AMARUQ – WHALE TAIL NUNAVUT**

TITLE **PROJECT LOCATION**

CONSULTANT	YYYY-MM-DD	2020-04-14
	DESIGNED	KB
	PREPARED	CC/CDB
	REVIEWED	KB
	APPROVED	CDM

PROJECT NO.	CONTROL	REV.	FIGURE
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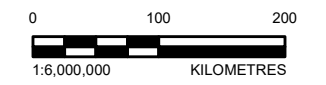
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**LEGEND**

- MELIADINE MINE
- SHIPPING ROUTE
- MARINE LOCAL STUDY AREA (LSA)
- MARINE REGIONAL STUDY AREA (RSA)



**REFERENCES**  
 1. BASE DATA FROM NATIONAL GEOGRAPHIC WORLD MAP - CONTENT MAY NOT REFLECT NATIONAL GEOGRAPHIC'S CURRENT MAP POLICY.  
 COORDINATE SYSTEM: NORTH AMERICA LAMBERT CONFORMAL CONIC

CLIENT **AGNICO EAGLE MINES LIMITED**

PROJECT **AMARUQ - WHALE TAIL NUNAVUT**

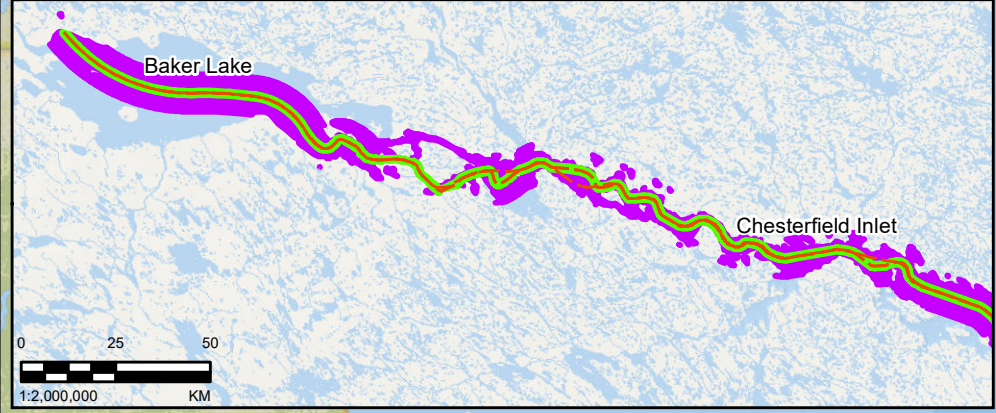
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CONSULTANT	DATE	REVISION
<b>GOLDER</b>	YYYY-MM-DD	2020-04-14
	DESIGNED	KB/DC
	PREPARED	CC
	REVIEWED	KB
	APPROVED	CDM

PROJECT NO. 20138967 CONTROL 1000 REV. 0 FIGURE 2

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**INSET: CHESTERFIELD INLET**



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## 2.0 METHODS

The 2019 MMSO program was conducted by Transport Desgagnés in accordance with the methods outlined in the SMP (Agnico Eagle 2018). Appendix A summarizes the MMSO data recorded by Transport Desgagnés and Chesterfield Inlet monitoring program data recorded by community hired wildlife monitor. Appendix B provides the raw datasheets used by Transport Desgagnés and Agnico Eagle. All marine mammal and seabird locations presented in this report are based on GPS locations provided by the observers on the vessels in the raw datasheets (see Appendix B). These locations may not be accurate representations of the actual location of the vessels or animals.

### 2.1 Shipping Activity

Shipping activity was defined by creating shipping tracks for all Project related vessels within the 2019 shipping season. Shipping tracks were created using the Transport Desgagnés' fleet location site, where location points were extracted based on one-month periods to create monthly individual vessel tracks (Transport Desgagnés 2020). The tracks were delineated based on the chronological order in which the point locations were recorded.

In addition, important bird areas and marine mammal aggregations were buffered by 500 m, as defined by the SMP (Agnico Eagle 2018) to establish setback polygons. GIS then performed an overlay and near analysis to identify which lines and points intersected or were in close proximity to these buffered areas.

### 2.2 Marine Mammal Data Analysis

This section outlines the methods used to summarize the environmental conditions, observer effort, and marine mammal sightings related to the information recorded by Transport Desgagnés. There were not enough marine mammal sightings recorded during the 2018 and 2019 MMSO programs to conduct a density analysis. Data provided by Agnico Eagle from the Chesterfield Inlet WMO cannot be used to assess observer effort but are presented as incidental observations.

#### 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 MMSO 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.

## 2.3 Seabirds

This section outlines the methods used to summarize the environmental conditions, observer effort, and density estimates for seabird sightings related to the seabird information recorded by Transport Desgagnés in 2019. Additionally, Agnico Eagle requested an opportunistic comparison of seabird monitoring results from 2018 and 2019 to determine if there were differences between years.

### Temporal and Spatial Observation Effort

Surveys from moving and stationary platforms are completed in five-minute intervals (Agnico Eagle 2018). Additionally, the number of survey hours and kilometres were recorded as indices of effort for seabird surveys. Seabird spatial effort was calculated as linear kilometres using GPS coordinates that were recorded by Transport Desgagnés at the start and end of each five-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 environmental variables of ice cover (percent), wind speed and direction, sea state (Beaufort scale), weather (e.g., precipitation and cloud conditions), visibility, and sun glare were recorded by Transport Desgagnés on the datasheets (Appendix B). Environmental conditions were not separately summarized for seabird monitoring. These variables are anticipated to be similar to those recorded during the marine mammal observation program as the seabird and marine mammal programs are alternated numerous times throughout daily monitoring (Agnico Eagle 2018).

### Data Analysis

The monitoring records prepared by Transport Desgagnés included observations of seabird counts at varying distances from moving ships (Appendix B). Sightings data from a moving vessel are analogous to line-transect sampling and 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 (Buckland et al. 2001) and inclusion of additional model variables would decrease the precision of estimates.

Analysis of moving platform seabird data was performed using the Conventional Distance Sampling analysis engine of the Distance 7.3 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). The detection functions all assumed 100% detection on the trackline ( $g[0]=1$ ). The detection distributions with the lowest AIC scores are the most appropriate to use.

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 1.

**Table 1: Sample Size Available for Distance Analyses**

Year	Survey Type	Number of Transects / Stationary Plots for Calculating Detection Function and Density Estimates
2018 – all species	Moving Platform	35 <sup>(a,b)</sup>
2019 – all species	Moving Platform	51 <sup>(b)</sup>

<sup>(a)</sup> sample size indicate that accurate regional-level densities cannot be estimated.

<sup>(b)</sup> sample sizes indicate that accurate species-level densities cannot be estimated.

## 3.0 RESULTS

### 3.1 Shipping Activity

The Project was serviced by Transport Desgagnés vessels between the months of July to early November and a total of nine Transport Desgagnés vessels serviced Baker Lake during the 2019 shipping season (Table 2). In July and August, five and three Transport Desgagnés vessels serviced Baker Lake, respectively (Figure 3; Figure 4). Four Transport Desgagnés vessels serviced Baker Lake in September and then three vessels serviced Baker Lake in October (Figure 5; Figure 6). The following Transport Desgagnés vessels serviced the Project twice during the 2019 shipping season; *Acadia Desgagnés* and *Thorco Isadora*. The *Dara Desgagnés* serviced Baker Lake during all months of the 2019 shipping season. Only, one Transport Desgagnés vessel (*Acadia Desgagnés*) traveled north of Coats Island during one passage of the 2019 shipping season. *Acadia Desgagnés'* passage north was made due to safety concerns for the vessel, crew and cargo due to weather and sea conditions (i.e. high winds).

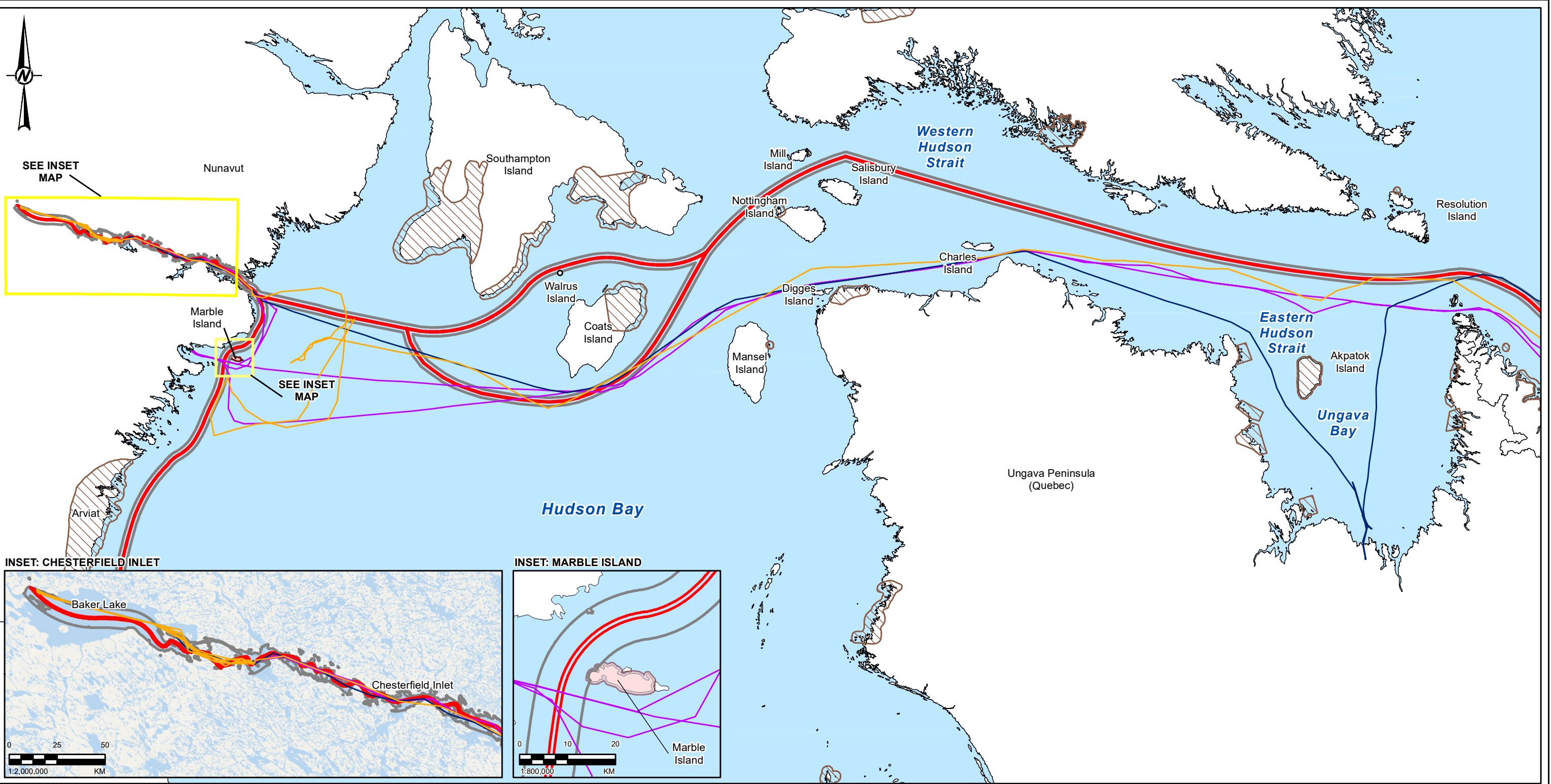
**Table 2: Summary of Transport Desgagnés Shipping Season.**

Vessel/ Platform Name	Month of Shipping Season			
	July	August	September	October
<i>Zelada Desgagnés</i>	✓	-	-	-
<i>Rosaire A. Desgagnés</i>	-	-	-	✓
<i>Acadia Desgagnés</i>	-	✓	✓	-
<i>Thorco Isadora</i>	-	✓	✓	-
<i>Jana Desgagnés</i>	✓	-	✓	-
<i>Dara Desgagnés</i>	✓	✓	✓	✓
<i>Atlantic Marlin*</i>	✓	-	-	-
<i>Atlantic Sea Lion*</i>	✓	-	-	-
<i>ATL Larch and Swordfish*</i>	-	-	-	✓

- = no data available, \* = no ship tracks available for vessels not represented in Figure 3 to Figure 6.









Setback polygons were created to support the compliance of the Whale Tail Pit Project Certificate No. 008, Term and Condition 39. Project vessels must follow a setback distance of 500 m from colonies and aggregation of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet. Two Transport Desgagnés vessels tracks cross through 500 m setback polygons (Figure 5; Figure 6). In September, *Thorco Isadora* tracks crossed through the Marble Island setback polygon (Figure 5). In October, *Rosaire A. Desgagnés* tracks crossed through the Marble Island setback polygon (Figure 6). However, in all cases no shiptrack points were located in the 500 m setback polygons. The two closest ship track points were recorded by the *Rosaire A. Desgagnés* on 10 October 2019 3.89 km south of the Marble Island setback polygon (Latitude: 62.6305; Longitude: -91.15333) and on 18 October 2019 5.1 km north of Digges Sound Important Bird Area (IBA) setback polygon (Latitude: 62.6217; Longitude: -77.5031). All, ship track intersections occurred due to lack of ship track resolution and the intersection of existing points to create a continuous shipping track (i.e., the shipping track points don't have the resolution to illustrate ship location at a fine temporal scale, and are only used to demonstrate coarse-scale straight line shipping tracks). In July and August, no shipping tracks or ship track points intersected setback polygons (Figure 3; Figure 4).

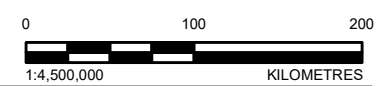




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**LEGEND**

 DARA DESGAGNES	 MARBLE ISLAND (500 m BUFFER)	 MARINE LOCAL STUDY AREA (LSA)
 JANA DESGAGNES	 IMPORTANT BIRD AREA (500 m BUFFER)	 MARINE REGIONAL STUDY AREA (RSA)
 ZELADA DESGAGNES	 WATERBODY	



**REFERENCES**  
 1. CANVEC DATA OBTAINED FROM © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
 COORDINATE SYSTEM: NORTH AMERICA LAMBERT CONFORMAL CONIC

CLIENT  
 AGNICO EAGLE MINES LIMITED

PROJECT  
 AMARUQ – WHALE TAIL NUNAVUT

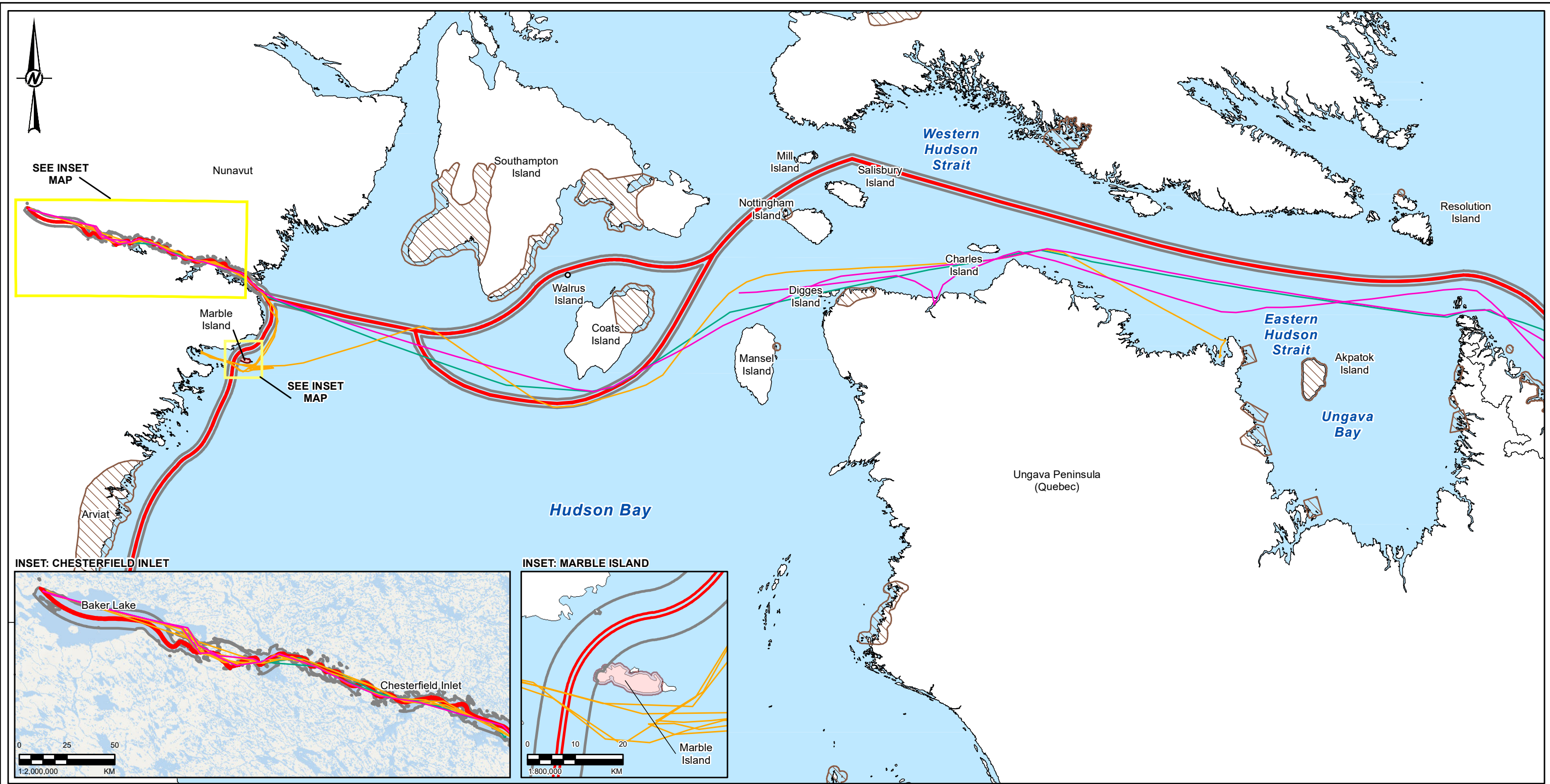
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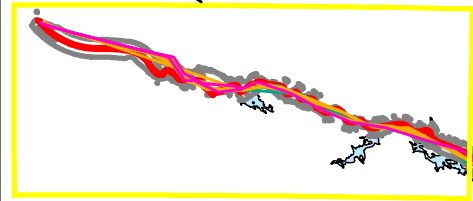
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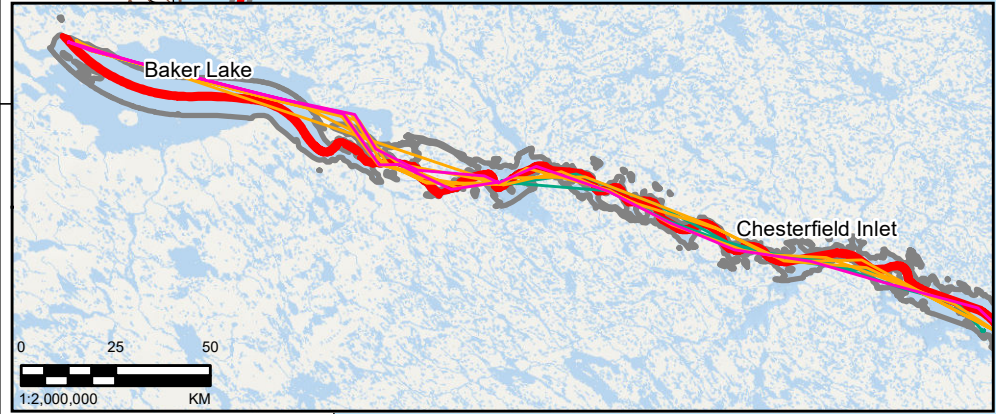


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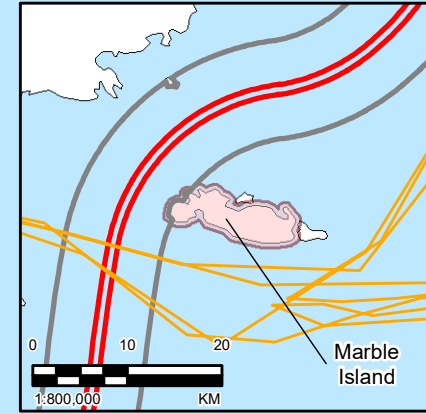


SEE INSET MAP

INSET: CHESTERFIELD INLET

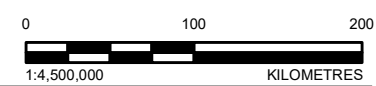


INSET: MARBLE ISLAND



**LEGEND**

<span style="color: magenta;">—</span> ACADIA DESGAGNES	<span style="border: 1px solid red; padding: 2px;"> </span> MARBLE ISLAND (500 m BUFFER)	<span style="border: 2px solid red; padding: 2px;"> </span> MARINE LOCAL STUDY AREA (LSA)
<span style="color: orange;">—</span> DARA DESGAGNES	<span style="border: 1px dashed orange; padding: 2px;"> </span> IMPORTANT BIRD AREA (500 m BUFFER)	<span style="border: 1px solid grey; padding: 2px;"> </span> MARINE REGIONAL STUDY AREA (RSA)
<span style="color: green;">—</span> THORCO ISADORA	<span style="background-color: lightblue; width: 15px; height: 10px; display: inline-block;"></span> WATERBODY	



**REFERENCES**  
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 COORDINATE SYSTEM: NORTH AMERICA LAMBERT CONFORMAL CONIC

CLIENT  
 AGNICO EAGLE MINES LIMITED

PROJECT  
 AMARUQ – WHALE TAIL NUNAVUT

CONSULTANT

YYYY-MM-DD 2020-04-14

TITLE

**SHIPPING TRACKS, AUGUST 2019**

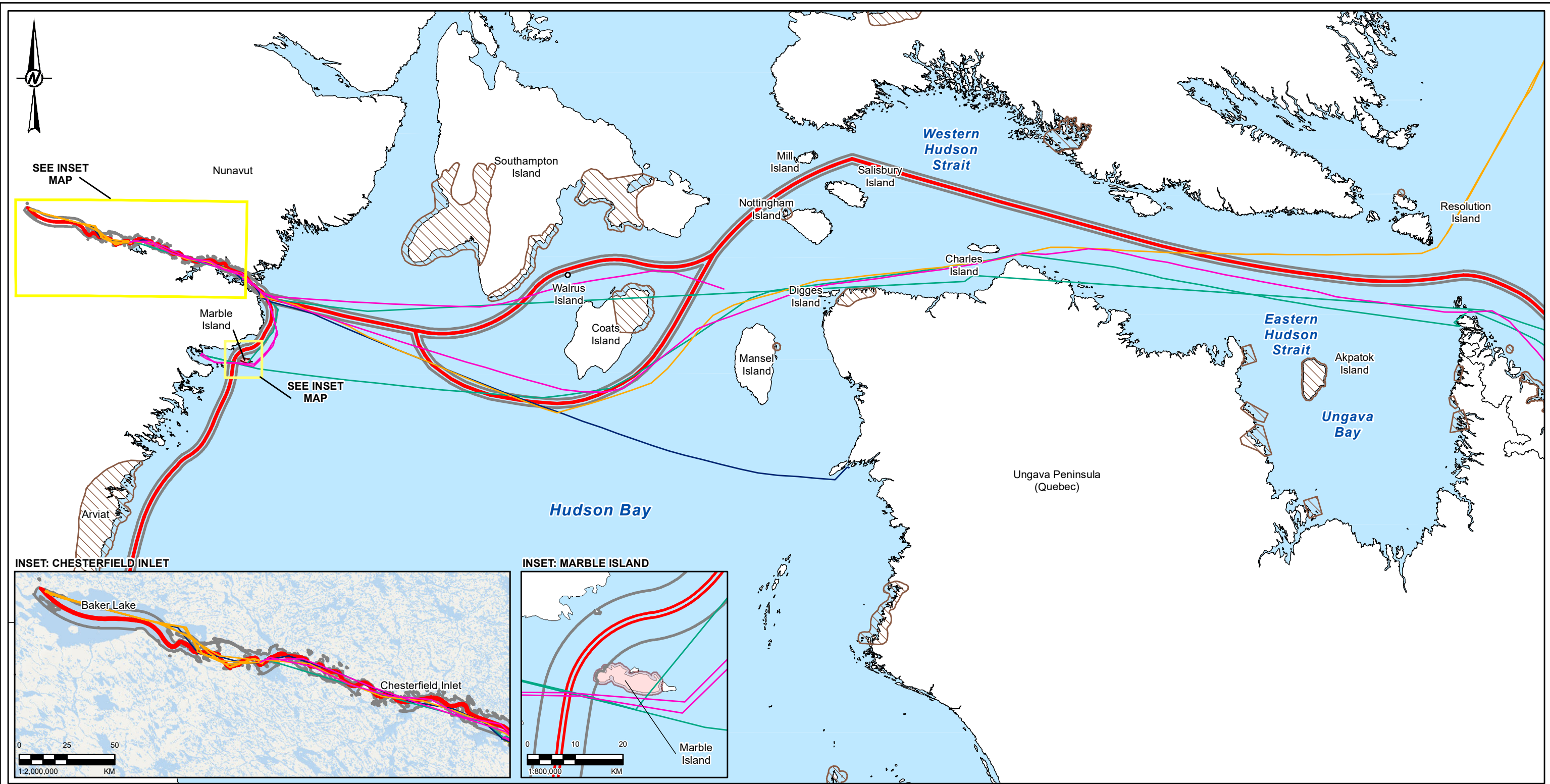


DESIGNED	KB/DC
PREPARED	CC/CDB
REVIEWED	KB
APPROVED	CDM

PROJECT NO.	CONTROL	REV.	FIGURE
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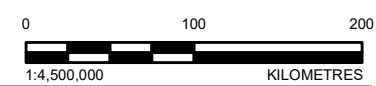
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**LEGEND**

<span style="color: pink;">—</span> ACADIA DESGAGNES	<span style="border: 1px solid red; padding: 2px;"> </span> MARBLE ISLAND (500 m BUFFER)	<span style="border: 2px solid red; padding: 2px;"> </span> MARINE LOCAL STUDY AREA (LSA)
<span style="color: orange;">—</span> DARA DESGAGNES	<span style="border: 1px dashed orange; padding: 2px;"> </span> IMPORTANT BIRD AREA (500 m BUFFER)	<span style="border: 2px solid grey; padding: 2px;"> </span> MARINE REGIONAL STUDY AREA (RSA)
<span style="color: blue;">—</span> JANA DESGAGNES	<span style="background-color: lightblue; border: 1px solid blue; padding: 2px;"> </span> WATERBODY	
<span style="color: green;">—</span> THORCO ISADORA		



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CLIENT  
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 AMARUQ – WHALE TAIL NUNAVUT

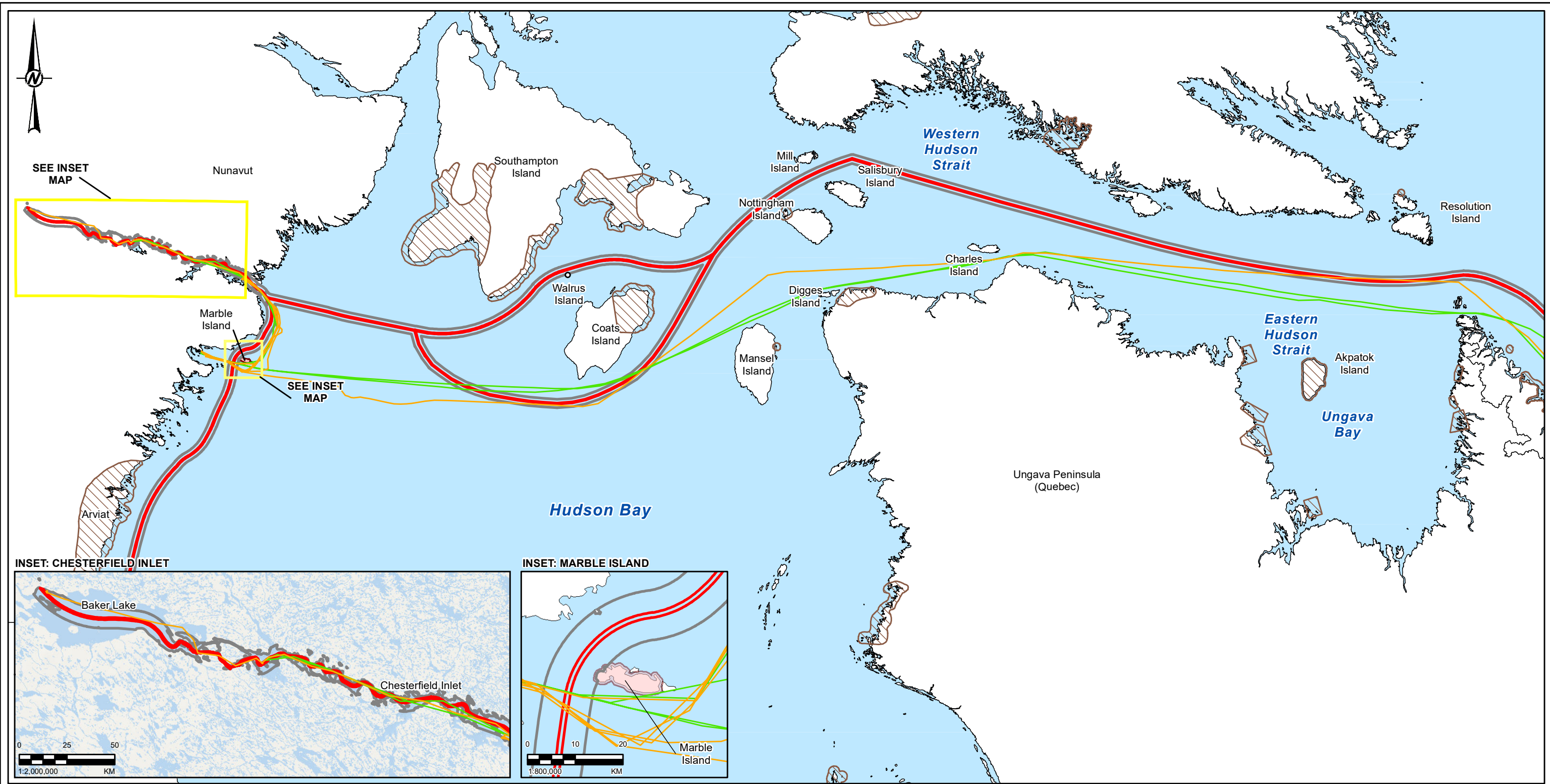
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	REVIEWED	KB
	APPROVED	CDM



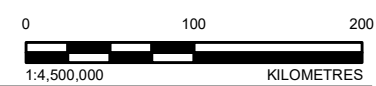
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PROJECT NO.	CONTROL	REV.	FIGURE
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- LEGEND**
- DARA DESGAGNES
  - ROSAIRE DESGAGNES (OCTOBER)
  - MARBLE ISLAND (500 m BUFFER)
  - IMPORTANT BIRD AREA (500 m BUFFER)
  - MARINE LOCAL STUDY AREA (LSA)
  - MARINE REGIONAL STUDY AREA (RSA)
  - WATERBODY



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PROJECT  
 AMARUQ – WHALE TAIL NUNAVUT

<b>CONSULTANT</b> 	YYYY-MM-DD	2020-04-14
	DESIGNED	KB/DC
	PREPARED	CC/CDB
	REVIEWED	KB
	APPROVED	CDM

<b>TITLE</b> SHIPPING TRACKS, OCTOBER 2019			
PROJECT NO.	CONTROL	REV.	FIGURE
20138967	1000	0	6

25mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

## 3.2 Marine Mammals

Marine mammal observations were recorded by Transport Desgagnés during the 2019 and 2018 shipping seasons. No observations were recorded during the 2018 shipping season. In 2019, six Transport Desgagnés vessels recorded MMSO data and incidental observations compared with two vessels in 2018 (Table 3). In 2019, MMSO datasheets were received for observations recorded from July to November, whereas 2018 observation datasheets were only provided for June and July. No record of marine mammal-vessel interactions (e.g., strikes) were recorded by Transport Desgagnés in any years.

**Table 3: MMSO and WMO Transport Desgagnés Vessels**

Vessel/ Platform Name	Year of MMSO	
	2018	2019
Acadia Desgagnés	✓	✓
Nordika Desgagnés	-	✓
Rosaire A. Desgagnés	-	✓
Thorco Isadora	-	✓
Zelada Desgagnés	-	✓
Dara Desgagnés	✓ *	✓ *

\*Vessel performed solely incidental wildlife monitoring observations (WMO).

A summary of the environmental variables and marine mammal sightings recorded by Transport Desgagnés is provided in Appendix A. Datasheets for the 2018 to 2019 programs are also provided in Appendix B for reference.

### 3.2.1 Survey Effort

According to the observation datasheets completed by Transport Desgagnés, marine mammal observer effort in 2019 was greater than previous years. In 2019, observer effort during transit was 62.82 hours and 1,898.30 km. A total of 59.25 hours of effort was conducted while anchored and WMO incidental observation effort was 30.51 hours and 572.18 km in 2019. In 2018, observer effort during transit was 29 hours and 1,155.70 km. There was no stationary effort and WMO incidental observation effort was 153 hours in 2018 (Table 4). Datasheets with missing survey times, dates and/or GPS coordinates were not incorporated into the effort analysis.

**Table 4: Survey Effort**

Year of Survey	Total Temporal Effort (hr)	Total Spatial Effort (km)	Total Stationary Effort (hr)	Total Incidental Observations Effort (hr)	Total Incidental Observations Effort (km)
2018	29	1,155.70	-	153	-
2019	62.82	1,898.30	59.25	30.51	572.18

### 3.2.2 Environmental Variables and Sighting Conditions Weather

Predominant weather conditions recorded by Transport Desgagnés during the 2019 marine mammal observation program were >50% cloud cover (with no fog, rain, or snow) (43% of survey effort) followed by <50% cloud cover (with no fog, rain, or snow) (19% of survey effort), and patchy fog (7% of survey effort). No weather conditions were recorded during 22% of survey effort (not available; Figure 7).

Visibility recorded by Transport Desgagnés during the 2019 marine mammal observation program ranged from 2 km to 55 km, and, on average, was 22.4 km. Sea state ranged from 0 (calm, glassy) to 5 (rough). The majority of sea state conditions were recorded as 1 (calm; 38% of survey effort), followed by 3 (slight; 24% of survey effort), and 2 (smooth wavelets; 14% of survey effort). Six percent of survey effort had no recorded sea state conditions (not available; Figure 8). During the marine mammal observation program in 2019, 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; 25% of survey effort), followed by 1 (slight/grey; 20%), and 3 (bright and forward of vessel; 3%). No glare conditions were recorded for 52% of survey effort (not available; Figure 9). In 2019, ice conditions recorded by Transport Desgagnés were 0 (less than one tenth coverage) for the entire MMSO program, however, for 39% of survey effort no ice concentration conditions data was recorded.

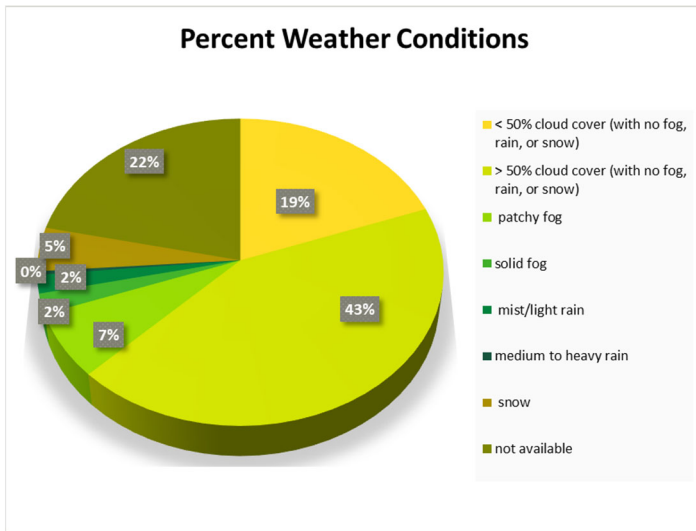


Figure 7: Percent Weather Conditions – 2019 Marine Mammal Observation Program

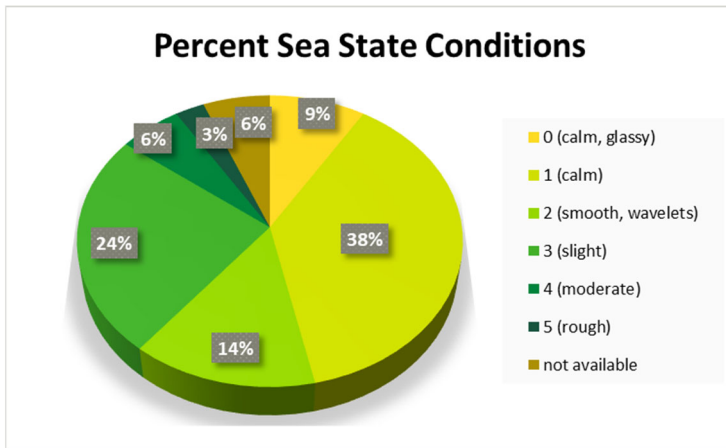


Figure 8: Sea State Conditions – 2019 Marine Mammal Observation Program

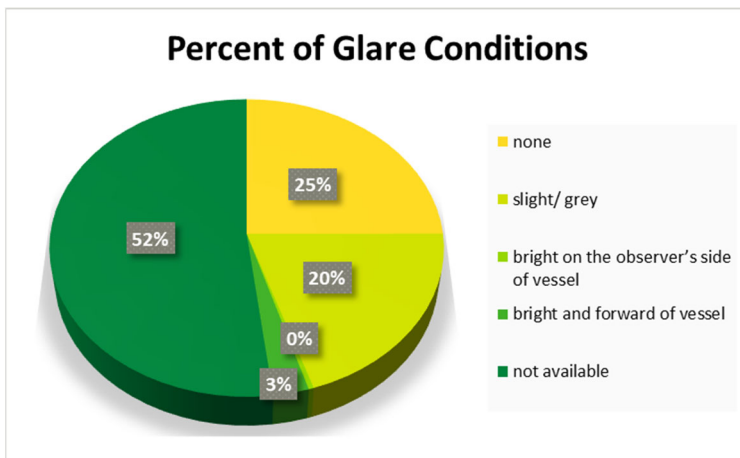


Figure 9: Glare Conditions – 2019 Marine Mammal Observation Program

### 3.2.3 Sightings

Five species of marine mammals were recorded by Transport Desgagnés during the MMSO Program in 2019 compared to no recorded marine mammals in 2018. Species observed in 2019 included bowhead whale (*Balaena mysticetus*), fin whale (*Balaenoptera physalus*), harp seal (*Pagophilus groenlandicus*), killer whale (*Orcinus orca*), and polar bear (*Ursus maritimus*). No unidentified marine mammals were recorded during the 2019 MMSO program. Table 5 summarizes the number of marine mammal sightings and number of individuals recorded by Transport Desgagnés during the 2019 MMSO program. A total of seven sightings of ~17 individual marine mammals were recorded in 2019. Sightings were recorded in July, August and October. The most commonly identified species in 2019 was the killer whale (three sightings totalling eight individuals), followed by harp seal (one sighting of four individuals), bowhead whale (one sighting of three to four individuals), fin whale (one sighting of one individual) and polar bear (one sighting of one individual). In 2019, incidental wildlife monitoring recorded no sightings of marine mammals, which was similar to the 2018 incidental wildlife monitoring.

**Table 5: Marine Mammal Observations During the 2019 MMSO Program**

Species	Number of Sightings	Number of Individuals
	2019	2019
Bowhead Whale	1	3–4
Fin Whale	1	1
Harp Seal	1	4
Killer Whale	3	8
Polar Bear	1	1
Total	7	17–18

### Bowhead Whale

Bowhead whales were recorded by Transport Desgagnés in the Eastern Hudson Strait in 2019 (Figure 10). A single sighting of three to four individual Bowhead whales was recorded (Table 5).

### Fin Whale

A single fin whale was recorded by Transport Desgagnés in the Eastern Hudson Strait in 2019 (Table 5; Figure 10).

### Harp Seal

Harp seal were recorded by Transport Desgagnés in between Coats Island and Mansel Island in 2019 (Figure 10). A single sighting of four individual harp seal was recorded (Table 5).

### Killer Whale

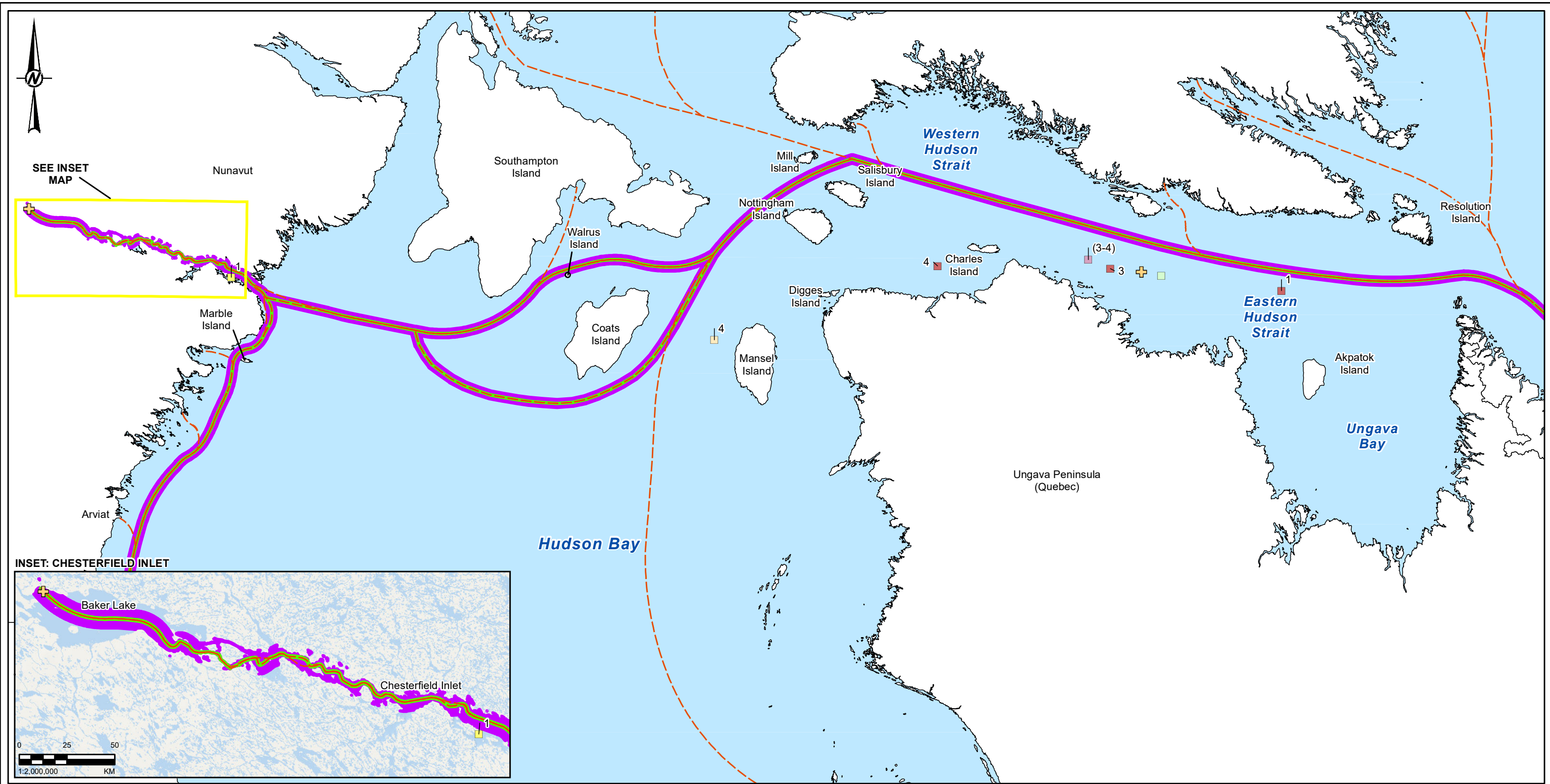
Killer whales were recorded by Transport Desgagnés in the Eastern Hudson Strait and near Charles Island in the Western Hudson Strait in 2019 (Figure 10). Three sightings totalling eight killer whales were recorded (Table 5). Group sizes ranged from a single animal to a group of four individuals.

### Polar Bear

A single polar bear was recorded by Transport Desgagnés in the Chesterman inlet between Centre Island and Ragged Island in 2019 (Table 5; Figure 10).



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**LEGEND**

<span style="color: purple;">■</span> SPECIES (2019)	<span style="color: purple;">+</span> ANCHOR LOCATION (2019)
<span style="color: purple;">■</span> BOWHEAD WHALE	<span style="color: orange;">—</span> SHIPPING ROUTE
<span style="color: green;">■</span> FIN WHALE	<span style="color: green;">■</span> MARINE LOCAL STUDY AREA (LSA)
<span style="color: orange;">■</span> HARP SEAL	<span style="color: purple;">■</span> MARINE REGIONAL STUDY AREA (RSA)
<span style="color: red;">■</span> KILLER WHALE	<span style="color: lightblue;">■</span> WATERBODY
<span style="color: yellow;">■</span> POLAR BEAR	

**NOTES**

1. THE FIGURE DOES NOT SHOW THE ACTUAL LOCATIONS WHERE THE VESSELS TRAVELED BUT RATHER THE GENERAL SHIPPING ROUTE VESSELS FOLLOW.
2. SPECIES SIGHTINGS ANNOTATED WITH SURVEY COUNT.

<p>CLIENT <b>AGNICO EAGLE MINES LIMITED</b></p> <p>CONSULTANT <b>GOLDER</b></p>	<p>YYYY-MM-DD 2020-04-14</p> <p>DESIGNED KB/DC</p> <p>PREPARED CC/CDB</p> <p>REVIEWED KB</p> <p>APPROVED CDM</p>	<p><b>AGNICO EAGLE</b></p> <p>PROJECT <b>AMARUQ – WHALE TAIL NUNAVUT</b></p> <p>TITLE <b>MARINE MAMMALS SIGHTINGS – 2019</b></p> <table border="0" style="width: 100%;"> <tr> <td>PROJECT NO. 20138967</td> <td>CONTROL 1000</td> <td>REV. 0</td> <td>FIGURE <b>10</b></td> </tr> </table>	PROJECT NO. 20138967	CONTROL 1000	REV. 0	FIGURE <b>10</b>
PROJECT NO. 20138967	CONTROL 1000	REV. 0	FIGURE <b>10</b>			

REFERENCES  
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 2. MARINE MAMMAL SIGHTINGS DATA COLLECTED BY TRANSPORT DESGAGNÉS AND PROVIDED BY AGNICO EAGLE; M. THERIAULT. 2019. PERSONAL COMMUNICATION – EMAIL FROM M. THERIAULT OF AGNICO EAGLE DATED AUGUST TO DECEMBER 2019 TO KATELYN ZOTTENBERG OF NUQSANA GOLDER.  
 COORDINATE SYSTEM: NORTH AMERICA LAMBERT CONFORMAL CONIC

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### 3.3 Seabirds

#### 3.3.1 Surveys from Moving Platforms

##### 3.3.1.1 Temporal and Spatial Observation Effort

Temporal and spatial effort for moving platform surveys in 2018 and 2019 is presented in Table 6. Several moving platform survey datasheets from 2018 and 2019 lacked GPS coordinates, therefore spatial and temporal effort may be greater than presented in this report.

**Table 6: Survey Effort for Moving Platform Seabird Surveys**

Year of Survey	Total Temporal Effort (hr)	Total Spatial Effort (km)
2018	102.5	1,833.6
2019	84.8	2,136.5

hr = hour; km = kilometre

##### 3.3.1.2 Species Richness and Abundance

A total of 18 seabird species were identified during moving platform surveys in 2019. Herring gull (*Larus argentatus*) was the most numerous species observed followed by thick-billed murre (*Uria lomvia*) and northern fulmar (*Fulmarus glacialis*) (Table 7). An additional 104 individuals from five unidentified species groups were also observed during moving platform surveys in 2019.

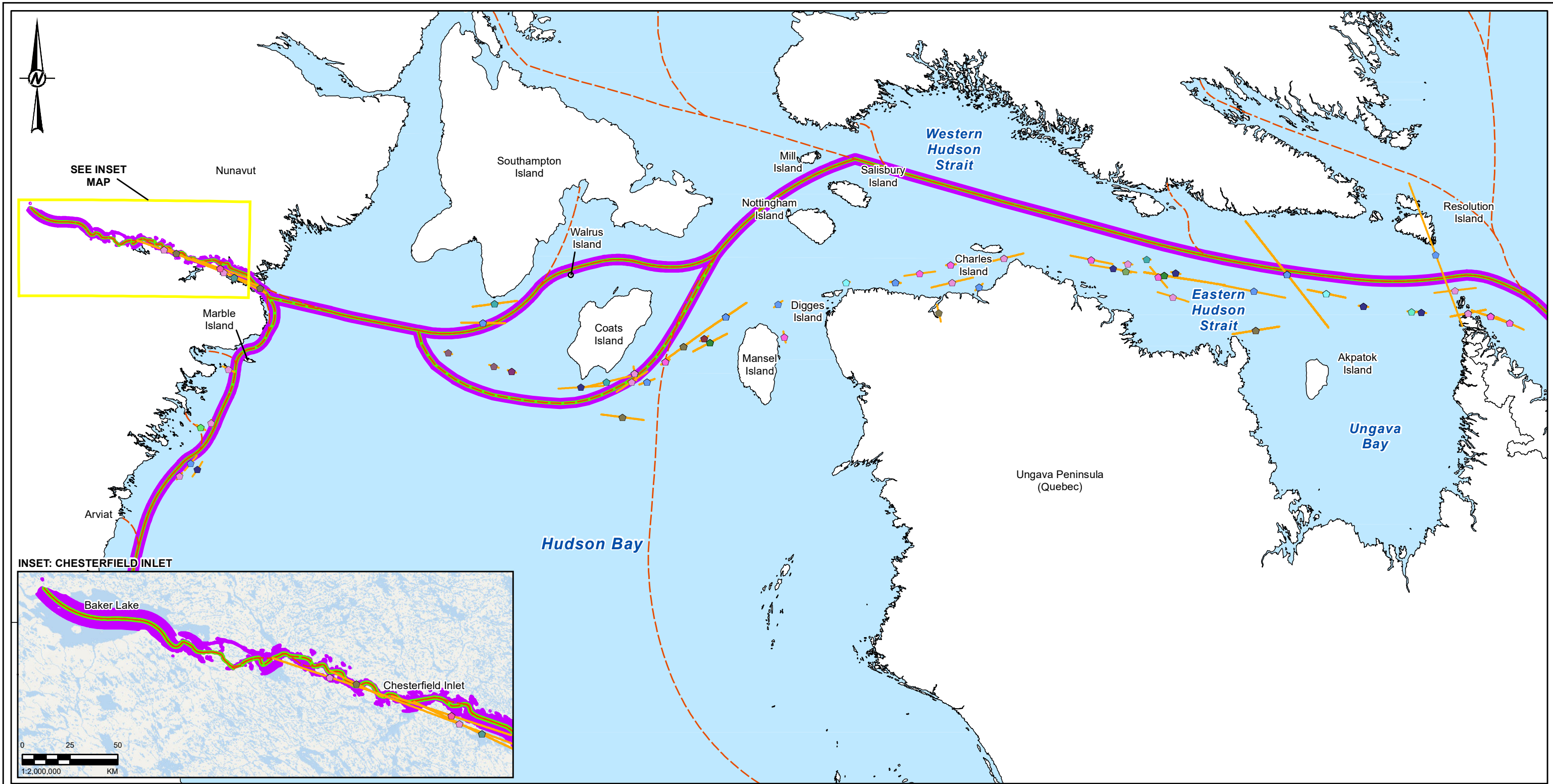
A total of 1,468 individuals from 20 identified species were observed during all moving platform surveys in 2018 and 2019 (Table 7). Eleven seabird species were recorded in all survey years (Table 7). Thick-billed murre and northern fulmar were commonly observed during both survey years (Table 7). Ivory gull (*Pagophila eburnea*), which is an endangered species in Nunavut (SARA 2020), was only observed in 2018 (Table 7). In 2018 and 2019, seabirds were recorded throughout the shipping routes with no apparent areas of concentration (Figure 11; Figure 12). No seabird interactions (e.g., strikes) with vessels were recorded in 2018 or 2019.

**Table 7: Seabirds Observed During Moving Platform Surveys in 2018 and 2019**

Common Name	Scientific Name	Number of Individuals Observed in 2018	Number of Individuals Observed in 2019
Black guillemot	<i>Cephus grylle</i>	137	13
Black-legged kittiwake	<i>Rissa tridactyla</i>	0	12
Black scoter	<i>Melanitta Americana</i>	0	4
Common eider	<i>Somateria mollissima</i>	4	9
Common loon	<i>Gavia immer</i>	1	31
Common murre	<i>Uria aalge</i>	0	40
Dovekie	<i>Alle</i>	76	27
Glaucous gull	<i>Larus hyperboreus</i>	91	83
Harlequin duck	<i>Histrionicus</i>	10	0
Herring gull	<i>Larus argentatus</i>	0	279

Common Name	Scientific Name	Number of Individuals Observed in 2018	Number of Individuals Observed in 2019
Iceland gull	<i>Larus glaucoides</i>	78	5
Ivory gull	<i>Pagophila eburnea</i>	2	0
Long-tailed duck	<i>Clangula hyemalis</i>	3	4
Long-tailed jaeger	<i>Stercorarius longicaudus</i>	1	6
Manx shearwater	<i>Puffinus puffinus</i>	0	3
Northern fulmar	<i>Fulmarus glacialis</i>	43	151
Pomarine jaeger	<i>Stercorarius pomarinus</i>	1	7
Sabine's gull	<i>Xema sabini</i>	3	0
Thick-billed murre	<i>Uria lomvia</i>	141	172
Wilson's storm-petrel	<i>Oceanites oceanicus</i>	23	8
<i>Subtotal (identified species)</i>		<b>614</b>	<b>854</b>
Unidentified duck species	n/a	27	73
Unidentified gull species	n/a	34	5
Unidentified sandpiper species	n/a	6	0
Unidentified bird species	n/a	57	21
<b>TOTAL</b>		<b>738</b>	<b>953</b>

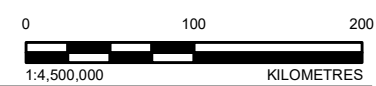
n/a = not applicable



**LEGEND**

SPECIES (2019)			SEABIRD TRANSECT
	ARCTIC TERN		
	BLACK GUILLEMOT		
	BLACK SCOTER		
	BLACK-LEGGED KITTIWAKE		
	COMMON EIDER		
	COMMON LOON		
	COMMON MURRE		
	DOVEKIE		
	GLAUCOUS GULL		
	GULL SP.		
	HERRING GULL		
	LEACH'S STORM-PETREL		
	LONG-TAILED DUCK		
	LONG-TAILED JAEGER		
	MANX SHEARWATER		
	NORTHERN FULMAR		
	POMARINE JAEGER		
	THAYER'S GULL		
	THICK-BILLED MURRE		
	WILSON'S STORM-PETREL		
	UNIDENTIFIED DUCK SP.		
	UNIDENTIFIED FALCON		
	UNIDENTIFIED GULL SP.		
	UNIDENTIFIED SEABIRD		

**NOTES**  
 1. THE FIGURE DOES NOT SHOW THE ACTUAL LOCATIONS WHERE THE VESSELS TRAVELED BUT RATHER THE GENERAL SHIPPING ROUTE VESSELS FOLLOW.



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CONSULTANT	YYYY-MM-DD	2020-04-14
	DESIGNED	KB/DC
	PREPARED	CC/CDB
	REVIEWED	KB
	APPROVED	CDM



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PROJECT  
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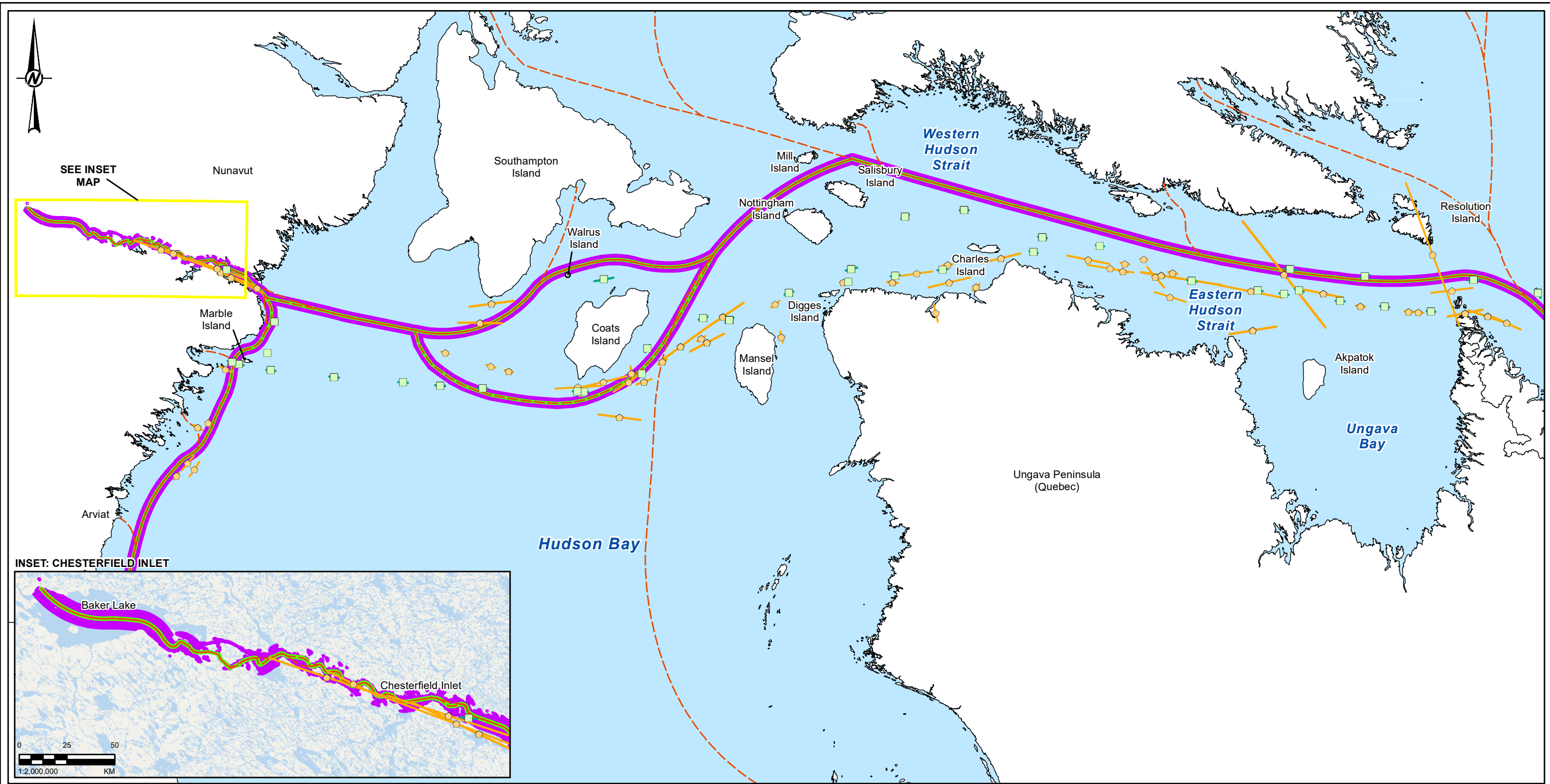
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 DISTRIBUTION OF SEABIRDS OBSERVED DURING MOVING PLATFORM SURVEYS, 2019

PROJECT NO.	CONTROL	REV.	FIGURE
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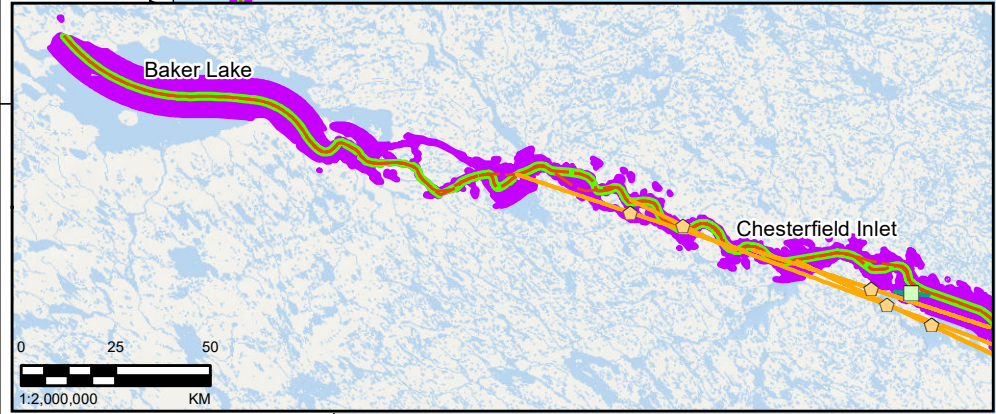
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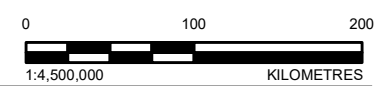
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**INSET: CHESTERFIELD INLET**



LEGEND			
<span style="color: green;">■</span>	SEABIRDS OBSERVED IN 2018	<span style="color: green;">—</span>	SEABIRD TRANSECT (2018)
<span style="color: orange;">■</span>	SEABIRDS OBSERVED IN 2019	<span style="color: orange;">—</span>	SEABIRD TRANSECT (2019)
<span style="color: red;">—</span>	SHIPPING ROUTE	<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	MARINE LOCAL STUDY AREA (LSA)
<span style="background-color: purple; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	MARINE REGIONAL STUDY AREA (RSA)	<span style="background-color: lightblue; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	WATERBODY



**REFERENCES**  
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PROJECT  
**AMARUQ – WHALE TAIL NUNAVUT**



CONSULTANT		AGNICO EAGLE	
YYYY-MM-DD	2020-04-14	TITLE	<b>DISTRIBUTION OF SEABIRDS OBSERVED DURING MOVING PLATFORM SURVEYS, 2018 AND 2019</b>
DESIGNED	KB/DC	PROJECT NO.	20138967
PREPARED	CC/CDB	CONTROL	1000
REVIEWED	KB	REV.	0
APPROVED	CDM	FIGURE	<b>12</b>

**NOTES**  
 1. THE FIGURE DOES NOT SHOW THE ACTUAL LOCATIONS WHERE THE VESSELS TRAVELED BUT RATHER THE GENERAL SHIPPING ROUTE VESSELS FOLLOW.

25mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

### 3.3.1.3 Detection Probability and Density Estimate

A detection probability and density estimate could not be generated for 2018 moving platform data due to limited sample size (Buckland et al. 2001). Detection probabilities and density estimates were calculated for the 2019 moving platform data and the combined data from 2018 and 2019 moving platforms.

The hazard rate model with hermite polynomial expansion had the lowest AIC score for the 2019 and combined 2018 and 2019 moving platform datasets (Table 8). Based on this detection function, the overall probability of detecting seabirds during moving platform surveys in 2019 was estimated to be 0.24 (95% Confidence Interval [CI]: 0.17 to 0.36) (Table 8). The density of individuals was estimated to be 0.83 birds/km<sup>2</sup> (95% CI: 0.53 to 1.29 birds/km<sup>2</sup>) in 2019 (Table 8).

The detection probability for the combined 2018 and 2019 data was similar to that calculated to 2019 at 0.22 (CI: 0.15 to 0.32) (Table 8). The estimated density of seabirds using the combined dataset was greater than that estimated for the 2019 data alone at 1.49 birds/km<sup>2</sup> (CI: 0.98 to 2.26 birds/km<sup>2</sup>) (Table 8).

**Table 8: Density Estimate and 95% Confidence Intervals for Seabirds Observed Along Moving Platform Surveys in 2019 and 2018 and 2019, combined**

Year	Model, Score	AIC	Sample Size	Detection Probability		Density (individuals/km <sup>2</sup> )	
				Estimate	95% Confidence Interval	Estimate	95% Confidence Interval
2019	Hazard-rate, 347.74		172	0.24	0.17 to 0.36	0.83	0.53 to 1.29
2018 and 2019	Hazard-rate, 587.12		208	0.22	0.15 to 0.32	1.49	0.98 to 2.26

AIC = Akaike's Information Criteria.

## 3.3.2 Surveys from Stationary Platforms

### 3.3.2.1 Temporal and Spatial Observation Effort

In 2019, a total of 28.9 hours were surveyed at 12 stationary platform locations.

Several stationary platform survey datasheets lacked survey end times, therefore temporal effort may be greater than presented in this report.

### 3.3.2.2 Species Richness and Abundance

Stationary platform surveys were only completed in 2019; no stationary platform surveys were completed in 2018.

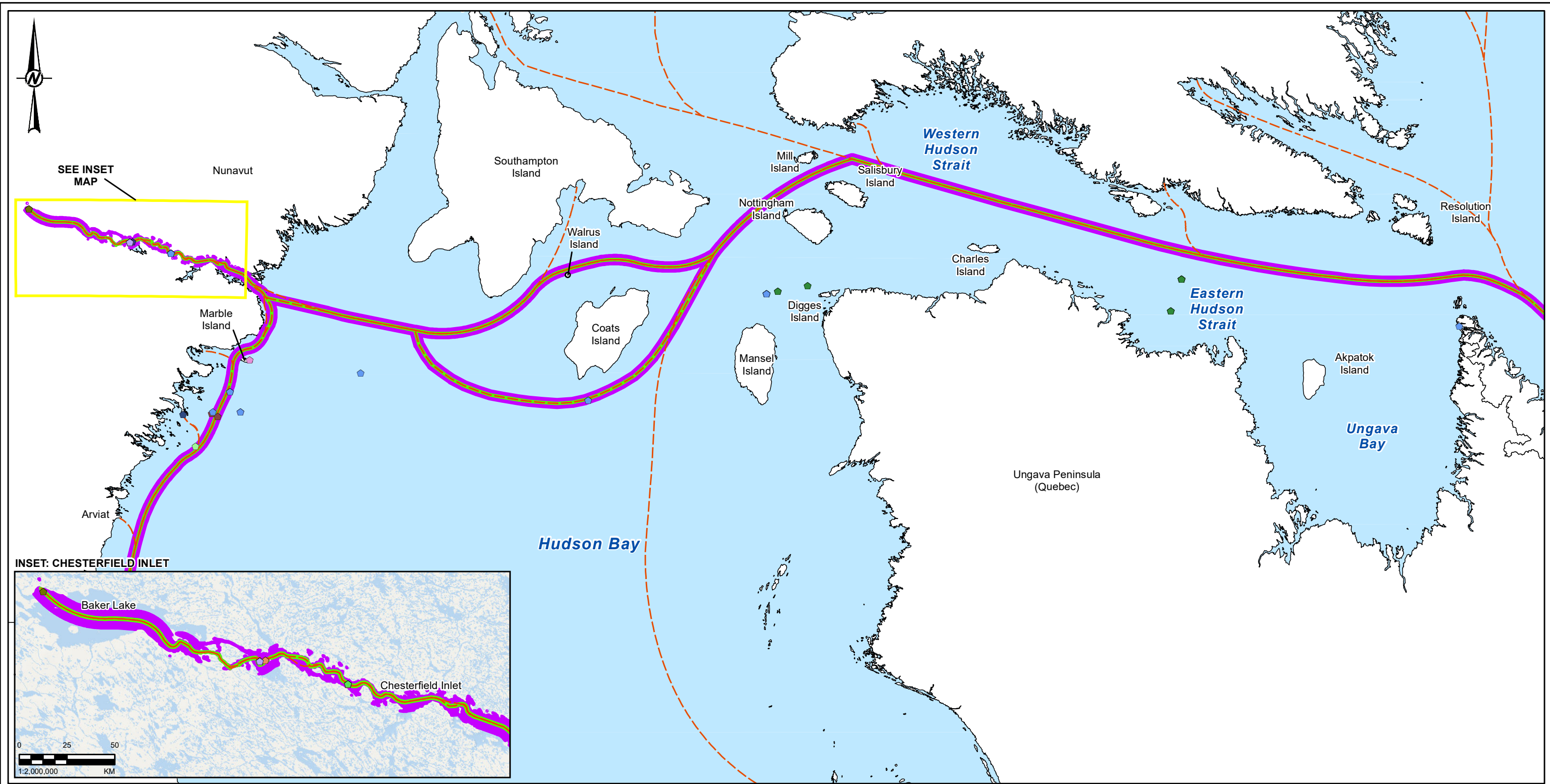
A total of 312 individuals composed of 14 identified seabird species were recorded during stationary platform surveys in 2019, with an additional 52 individuals from four unidentified species groups also observed (Table 9; Figure 13). Glaucous gull (*Larus hyperboreus*) was the most commonly observed species, followed by northern fulmar.

**Table 9: Seabirds Observed During Stationary Platform Surveys in 2019**

Common Name	Scientific Name	Number of Individuals Observed in 2019
Black guillemot	<i>Cephus grylle</i>	3
Black scoter	<i>Melanitta americana</i>	12
Common eider	<i>Somateria mollissima</i>	4
Common goldeneye	<i>Bucephalus clangula</i>	3
Common loon	<i>Gavia immer</i>	2
Common murre	<i>Uria aalge</i>	2
Dovekie	<i>Alle</i>	3
Glaucous gull	<i>Larus hyperboreus</i>	131
Herring gull	<i>Larus argentatus</i>	19
Iceland gull	<i>Larus glaucoides</i>	5
Long-tailed duck	<i>Clangula hyemalis</i>	4
Northern fulmar	<i>Fulmarus glacialis</i>	90
Pomarine jaeger	<i>Stercorarius pomarinus</i>	1
Thick-billed murre	<i>Uria lomvia</i>	33
<i>Subtotal (identified species)</i>		312
Unidentified duck species	n/a	12
Unidentified gull species	n/a	10
Unidentified bird species	n/a	30
<b>TOTAL</b>		<b>364</b>

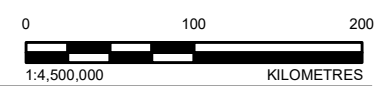
n/a – not applicable

PATH: Y:\Burmby\CAD-GIS\Client\Agnico\_Eagle\_Mines\_Ltd\Mapdata\Map\_Gold\_Project09\_PROJECTS\20138967\02\_PRODUCT\CONMAP\Project1000\20138967\_1000\_FIG\_13\_Distribution\_of\_Seabirds\_Observed\_During\_Stationary\_Survey\_2019.mxd PRINTED ON: 2020-04-14 AT: 12:51:41 PM



LEGEND			
SPECIES (2019)			
	ATLANTIC BRANT		COMMON MURRE
	BLACK GUILLEMOT		DOVEKIE
	BLACK SCOTER		GLAUCOUS GULL
	COMMON EIDER		HERRING GULL
	COMMON GOLDENEYE		LONG-TAILED DUCK
	COMMON LOON		LONG-TAILED JAEGER
			NORTHERN FULMAR
	POMARINE JAEGER		SABINE'S GULL
	THICK-BILLED MURRE		UNIDENTIFIED DUCK SP.
	UNIDENTIFIED GOOSE		UNIDENTIFIED GULL SP.
	UNIDENTIFIED SEABIRD		
	SHIPPING ROUTE		MARINE LOCAL STUDY AREA (LSA)
	MARINE REGIONAL STUDY AREA (RSA)		WATERBODY

**NOTES**  
 1. THE FIGURE DOES NOT SHOW THE ACTUAL LOCATIONS WHERE THE VESSELS TRAVELED BUT RATHER THE GENERAL SHIPPING ROUTE VESSELS FOLLOW.



CLIENT  
 AGNICO EAGLE MINES LIMITED

CONSULTANT



YYYY-MM-DD	2020-04-14
DESIGNED	KB/DC
PREPARED	CC/CDB
REVIEWED	KB
APPROVED	CDM



**REFERENCES**  
 1. CANVEC DATA OBTAINED FROM © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
 COORDINATE SYSTEM: NORTH AMERICA LAMBERT CONFORMAL CONIC

PROJECT  
 AMARUQ – WHALE TAIL NUNAVUT

**TITLE**  
**DISTRIBUTION OF SEABIRDS OBSERVED DURING STATIONARY PLATFORM SURVEYS, 2019**

PROJECT NO.	CONTROL	REV.	FIGURE
20138967	1000	0	13

25mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



### 3.3.2.3 *Detection Probability and Density Estimate*

A detection probability and density estimate could not be generated for stationary platform data due to limited sample size (Buckland et al. 2001).

## 4.0 DISCUSSION

The objective of this report is to present a summary of the MMSO data collected by Transport Desgagnés during the 2019 MMSO program to support Agnico's 2019 annual report to NIRB. Results from the 2018 program are also provided as a comparison between years.

A total of nine Transport Desgagnés vessels serviced the Project via Baker Lake between July to early November during the 2019 shipping season. Two of the nine vessels serviced Baker Lake twice during the shipping season (*Acadia Desgagnés* and *Rosaire A. Desgagnés*) and one of the nine vessels serviced Baker Lake every month of the 2019 shipping season (*Thorco Isadora*). One Transport Desgagnés vessels (*Acadia Desgagnés*) had single passage north of Coats Island due to safety concerns for the vessel, crew and cargo due to weather and sea conditions (i.e. high winds) during the 2019 shipping season.

The 2019 MMSO program was conducted by Transport Desgagnés. Observations were recorded over a longer period in 2019 (July to November) compared to 2018 (June to July). Overall, a greater total survey effort was completed during the 2019 program than in 2018; total of 62.82 hours and 1,898.30 km, 59.25 hours of effort while anchored and an additional 30.51 hours and 572.18 km of WMO incidental observations in 2019 compared with a total of 29 hours, 1,155.70 km and an additional 153 hours of WMO incidental observation in 2018. In addition, datasheets were obtained from six participating vessels in 2019 which was greater than in 2018 which had only two participating vessels. In 2019, there were a greater number of marine mammal sightings compared with 2018 where no sightings were recorded. Five marine mammal species were recorded in 2019 including bowhead whale, fin whale, harp seal, killer whale, and polar bear. The marine mammal sightings were primarily recorded in the Eastern Hudson Strait. There were not enough marine mammal sightings recorded to conduct a density analysis. In addition, incidental wildlife monitoring observations were also undertaken in 2019, however no marine mammal sightings were recorded, which was equivalent to 2018 incidental monitoring efforts. No marine mammal-vessel interactions (e.g., strikes) were recorded by Transport Desgagnés in 2019 or 2018.

Environmental variables during the 2019 program were recorded for weather conditions, visibility, sea state, glare and ice conditions. Summaries of the environmental conditions recorded during the marine mammal monitoring indicated relatively consistent conditions for each of the variables recorded. Environmental conditions were not separately summarized for seabird monitoring but are anticipated to be similar since the MMSO protocol is to alternate between seabird surveys and marine mammal monitoring throughout daily monitoring activities (Agnico Eagle 2018).

A total of 20 seabird species have been recorded by Transport Desgagnés on moving platform transects in 2018 and 2019. Eleven species have been reported in all survey years, with thick-billed murre and northern fulmar being commonly recorded in both survey years. The detection probability (0.24) and density estimate (0.83 birds/km<sup>2</sup>) for seabirds in 2019 were generally low. A total of 14 seabird species were recorded during stationary platform surveys in 2019. Glaucous gull was the most commonly recorded species during stationary platform surveys. No interactions between vessels and seabirds were recorded during the MMSO in 2018 and 2019.

In Compliance with Whale Tail Pit Project Certificate No. 008, Term and Condition 39T, Project vessels must follow a setback distance of 500 m from colonies and aggregation of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet. Transport Desgagnés had two vessel tracks that intersected with 500 m setback polygons. However, in all cases no ship track point was located within a setback polygon. The closest ship track points were recorded by the *Rosaire A. Desgagnés* on 10 October 2019 3.89 km (Latitude: 62.6305; Longitude: -91.15333) and on 18 October 2019 5.1 km north of Digges Sound Important Bird Area (IBA) setback polygon (Latitude: 62.6217; Longitude: -77.5031). The polygon intersection occurred due to the limited available ship track resolution which resulted in a simplified shipping track that did not represent accurate and actual vessel locations.

Agnico Eagle has created a 2020 action plan to improve the effectiveness of the MMSO Program in compliance with Whale Tail Pit Project Certificate No. 008 Term and Conditions 38, 39, 40 and Meadowbank Project Certificate No. 004, Term and Condition 36 (Marcil 2020). The action plan includes the hiring of a third-party to summarize and simplify both the Marine Mammal Management and Monitoring Plan (MMMMP) and Shipping Management Plan (SMP), as well as update and facilitate in-person MMSO program training for Groupe Desgagnés, Inuit environmental monitors, and vessel crew.

## 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.

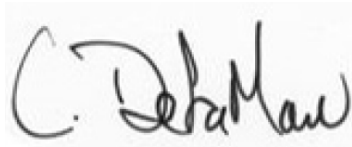


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Reviewed by:



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*Principal, Senior Ecologist*

LD/KB/CDLM/asd

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## 6.0 REFERENCES

Agnico Eagle (Agnico Eagle Mines Limited). 2018. Meadowbank Division – Whale Tail Pit Shipping Management Plan. Version 2, April 2018.

SARA (Species at Risk Registry). 2020. Species at Risk Public Registry. Available at: <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html#summary-details0>. Accessed on 24 March 2020.

**APPENDIX A**

Summary of Marine Mammal  
Sightings and Environmental  
Variables Recorded by Transport  
Desgagnés for the 2019 Shipping  
Season

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	13-Aug-19	Stationary	12:00	14:00	2:00	62°46.6' N	92°05.7' W	62°46.6' N	92°05.7' W	Anchored	1	1	> 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	13-Aug-19	Stationary	12:00	14:00	2:00	62°46.6' N	92°05.7' W	62°46.6' N	92°05.7' W	Anchored	20	0	< 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	14-Aug-19	Stationary	12:00	14:00	2:00	62°46.6' N	92°05.7' W	62°46.6' N	92°05.7' W	Anchored	15	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Desmond Inaksajak	29-Sep-19	Stationary	14:00	16:00	2:00	63°31.1' N	91°04.5' W	63°31.1' N	91°04.5' W	Anchored	20	7	snow
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	30-Sep-19	Stationary	16:00	n/a	n/a	62°46.0' N	92°03.8' W	62°46.0' N	92°03.8' W	Anchored	40	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	01-Oct-19	Stationary	16:00	n/a	n/a	62°46.0' N	92°04.0' W	62°46.0' N	92°04.0' W	Anchored	35	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	01-Oct-19	Stationary	23:30	n/a	n/a	63°57.2' N	93°35.4' W	63°57.2' N	93°35.4' W	Anchored	25	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	02-Oct-19	Stationary	16:00	n/a	n/a	62°46.9' N	92°04.1' W	62°46.9' N	92°04.1' W	Anchored	40	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	02-Oct-19	Stationary	17:00	n/a	n/a	63°57.2' N	93°35.1' W	63°57.2' N	93°35.1' W	Anchored	15-20	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	03-Oct-19	Stationary	17:00	n/a	n/a	63°57.36' N	93°35.12' W	63°57.36' N	93°35.12' W	Anchored	30-40	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	03-Oct-19	Stationary	17:00	n/a	n/a	63°57.36' N	93°35.14' W	63°57.36' N	93°35.14' W	Anchored	30-40	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	04-Oct-19	Stationary	17:00	n/a	n/a	63°57.36' N	93°35.14' W	63°57.36' N	93°35.14' W	Anchored	30-40	(0-1)	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	05-Oct-19	Stationary	17:00	n/a	n/a	63°57.36' N	93°35.14' W	63°57.36' N	93°35.14' W	Anchored	(2-3)	(2-3)	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	06-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.16' W	63°57.4' N	93°35.16' W	Anchored	30-40	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	07-Oct-19	Stationary	17:00	n/a	n/a	63°57.36' N	93°35.2' W	63°57.36' N	93°35.2' W	Anchored	30-40	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	08-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W	Anchored	20-30	4	mist/light rain
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	09-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W	Anchored	15-20	7	snow

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	10-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W	Anchored	15-20	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	11-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W	Anchored	20-30	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	12-Oct-19	Stationary	17:00	n/a	n/a	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W	Anchored	30	(0-1)	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	12-Oct-19	Stationary	16:00	n/a	n/a	62°46.0' N	92°03.8' W	62°46.0' N	92°03.8' W	Anchored	40	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	13-Oct-19	Stationary	17:00	n/a	n/a	63°57.3' N	93°35.1' W	63°57.3' N	93°35.1' W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	13-Oct-19	Stationary	16:00	n/a	n/a	62°46.0' N	92°04.0' W	62°46.0' N	92°04.0' W	Anchored	35	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	14-Oct-19	Stationary	13:00	18:00	5:00	62°46.5' N	92°05.5' W	62°46.6' N	92°05.6' W	Anchored	3	2	patchy fog
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	14-Oct-19	Stationary	17:00	n/a	n/a	63°57.1' N	93°35.3' W	63°57.1' N	93°35.3' W	Anchored	10	7	snow
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	14-Oct-19	Stationary	16:00	n/a	n/a	62°46.9' N	92°04.01 W	62°46.9' N	92°04.01 W	Anchored	40	1	> 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Melina Jobin	15-Oct-19	Stationary	8:00	n/a	n/a	62°46.1' N	92°04.0' W	62°46.1' N	92°04.0' W	Anchored	40	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	15-Oct-19	Stationary	17:00	n/a	n/a	63°57.2' N	93°35.1' W	63°57.2' N	93°35.1' W	Anchored	20-30	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	Nicolas Brunelle	16-Oct-19	Stationary	17:00	n/a	n/a	63°57.1' N	93°35.1' W	63°57.1' N	93°35.1' W	Anchored	20-30	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	28-Oct-19	Stationary	14:00	n/a	n/a	62°46.5' N	92°06.0' W	62°46.5' N	92°06.0' W	Anchored	2	7	snow
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	18-Jul-19	Stationary	14:00	15:00	1:00	62°46' N	92°06'W	62°46' N	92°06'W	Anchored	>10	1	> 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	I. Oxford	20-Jul-19	Stationary	18:30	n/a	n/a	62°46' N	92°06'W	62°46' N	92°06'W	Anchored	>10	1	> 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	15-Aug-19	Stationary	12:00	14:00	2:00	63°57.1' N	93°35.1' W	63°57.1' N	93°35.1' W	Anchored	15	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	30-Oct-19	Stationary	13:00	n/a	n/a	62°46.5' N	92°05.5' W	62°46.5' N	92°05.5' W	Anchored	3	2	patchy fog

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	30-Oct-19	Stationary	13:00	n/a	n/a	62°46.5' N	92°05.5' W	62°46.5' N	92°05.5' W	Anchored	3	2	patchy fog
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	10-Jul-19	Stationary	16:00	17:00	1:00	62°09.0' N	91°17.3' W	62°09.0' N	91°17.3' W	Anchored	5	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Stationary	23:30	24:00:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	01-Aug-19	Stationary	13:30	14:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	01-Aug-19	Stationary	13:30	14:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	01-Aug-19	Stationary	13:30	14:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	06-Aug-19	Stationary	13:30	14:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	06-Aug-19	Stationary	1:30	2:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	06-Aug-19	Stationary	13:30	14:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	13:30	14:00	0:30	63°56.6' N	93°38.6'W	63°56.6' N	93°38.6'W	Anchored	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	1:30	2:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	1:30	2:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	1:30	2:00	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W	Anchored	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	08-Aug-19	Stationary	1:30	2:00	0:30	64°17.9' N	95°59.6'W	64°17.9' N	95°59.6'W	Anchored	30	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	30-Oct-19	Stationary	13:00	n/a	n/a	62°46.5' N	92°05.5' W	62°46.5' N	92°05.5' W	Anchored	3	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	31-Oct-19	Stationary	14:00	n/a	n/a	62°46.7' N	92°05.4' W	62°46.7' N	92°05.4' W	Anchored	8	n/a	n/a
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	16-Oct-19	Transect	17:00	18:00	1:00	62°00.2' N	82°29.1' W	62°02.1' N	82°07.9' W	Travelling	4	n/a	n/a



Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	12-Jul-19	Transect	14:10	14:40	0:30	61°48.90' N	92°19.2' W	n/a	n/a	Travelling	15	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	04-Jul-19	Transect	23:45	0:15	0:50	62°41.9' N	79°00.5' W	n/a	n/a	Travelling	5	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Ann Martin	05-Jul-19	Transect	12:40	n/a	n/a	61°54.9' N	83°35.2' W	n/a	n/a	Travelling	5	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	02-Jul-19	Transect	12:00	12:30	0:30	62°80' N	91°18.6'W	62°00' N	91°38.1'W	Travelling	25	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	13-Jul-19	Transect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Travelling	15	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	n/a	01-Sep-19	Transect	16:00	18:02	2:02	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	11-Oct-19	Transect	13:00	16:00	3:00	61°37.8' N	82°30.7' W	61°45.2' N	83°24.9' W	Travelling	n/a	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	11-Oct-19	Transect	13:00	16:00	3:00	61°37.8' N	82°30.7' W	61°45.2' N	83°24.9' W	Travelling	n/a	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	27-Sep-19	Transect	10:00	12:00	2:00	62°24.41' N	74°43.86' W	62°24.47' N	75°41.28' W	Travelling	40-50	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	27-Sep-19	Transect	10:00	12:00	2:00	62°24.41' N	74°43.86' W	62°24.47' N	75°41.28' W	Travelling	40-50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	29-Aug-19	Transect	16:15	18:15	2:00	60°43.6' N	64°16.3'W	60°49.9' N	65°08.9'W	Travelling	2	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	12-Sep-19	Transect	17:00	19:00	2:00	62°31.4' N	74°24.0'W	62°31.1' N	73°30.1'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctik Desgagnes	Nordika Desgagnes	Kyle Gaudet	09-Oct-19	Transect	18:30	20:06	1:36	62°33.64' N	75°31.4' W	62°35.4' N	76°13.3' W	Travelling	55	1	> 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	17-Oct-19	Transect	18:42	21:42	3:00	62°01.8' N	70°52.0' W	61°46.3' N	70°37.9' W	Travelling	45	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	01-Nov-19	Transect	14:00	16:00	2:00	62°03.2' N	82°32.4' W	62°11.8' N	82°33.3' W	Travelling	30	c/bc	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	01-Nov-19	Transect	14:00	16:00	2:00	62°03.2' N	82°32.4' W	62°11.8' N	82°33.3' W	Travelling	30	c/bc	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall/ Kyle Gaudet	10-Oct-19	Transect	12:00	16:00	4:00	62°17.3' N	79°07.8' W	62°10.1' N	79°07.6' W	Travelling	27	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	01-Jul-19	Transect	12:58	13:35	0:37	62°13' N	84°51.6'W	62°10' N	85°05.6'W	Travelling	30	4	mist/light rain
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	29-Jun-19	Transect	16:07	16:41	0:34	62°36' N	79°01'W	62°33' N	79°14'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:00	0:30	0:30	62°31.5' N	76°20.0'W	62°33.7' N	76°33.7'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:00	0:30	0:30	62°31.5' N	76°20.0'W	62°33.7' N	76°33.7'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	13-Aug-19	Transect	13:30	14:00	0:30	62°25.0' N	85°44.5'W	62°22.5' N	85°32.0'W	Travelling	2	3	solid fog
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	13-Aug-19	Transect	13:30	14:00	0:30	62°25.0' N	85°44.5'W	62°22.5' N	85°32.0'W	Travelling	2	3	solid fog
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	11-Jul-19	Transect	16:26	17:00	0:34	62°02.2' N	92°20.6'W	61°58.8' N	92°09.5'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:30	13:00	0:30	62°12.6' N	81°44.1'W	62°10.3' N	81°56.2'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:30	13:00	0:30	62°12.6' N	81°44.1'W	62°10.3' N	81°56.2'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:30	13:00	0:30	62°12.6' N	81°44.1'W	62°10.3' N	81°56.2'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:30	13:00	0:30	62°12.6' N	81°44.1'W	62°10.3' N	81°56.2'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	07-Jul-19	Transect	17:51	18:20	0:29	61°28.6' N	92°49.7'W	61°32.6' N	92°42.2'W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	21:30	22:00	0:30	62°18.3' N	85°10.0'W	62°20.4' N	85°20.4'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	28-Jun-19	Transect	12:05	12:40	0:35	62°05.9' N	70°48.2'W	62°07.9' N	70°57.9'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	15-Jul-19	Transect	4:32	5:00	0:28	62°01' N	92°01'W	62°05' N	92°01'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	31-Aug-19	Transect	20:00	20:40	0:40	62°39.1' N	77°27.1'W	62°39.4' N	77°35.7'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	30-Jun-19	Transect	22:30	23:00	0:30	62°24.3' N	86°44.9'W	62°24.2' N	86°49.9'W	Travelling	10	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.69' N	91°01.32' W	63°45.11' N	92°16.42' W	Travelling	25-30	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.69' N	91°01.32' W	63°45.11' N	92°16.42' W	Travelling	25-30	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.69' N	91°01.32' W	63°45.11' N	92°16.42' W	Travelling	25-30	1	> 50% cloud cover (with no fog, rain, or snow)

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.69' N	91°01.32' W	63°45.11' N	92°16.42' W	Travelling	25-30	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Simon Peter	30-Sep-19	Transect	20:00	23:05	3:05	63°45.1' N	92°19.5' W	63°57.6' N	93°32.4' W	Travelling	10	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Simon Peter	30-Sep-19	Transect	20:00	23:05	3:05	63°45.1' N	92°19.5' W	63°57.6' N	93°32.4' W	Travelling	10	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	17-Oct-19	Transect	16:00	20:09	4:09	63°45.1' N	92°20.42' W	63°26.54' N	90°47.88' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	17-Oct-19	Transect	16:00	20:09	4:09	63°45.1' N	92°20.42' W	63°26.54' N	90°47.88' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	17-Oct-19	Transect	14:26	15:58	1:32	63°53.2' N	92°55.4' W	63°45.1' N	92°22.3' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	17-Oct-19	Transect	14:26	15:58	1:32	63°53.2' N	92°55.4' W	63°45.1' N	92°22.3' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.69' N	91°01.32' W	63°45.11' N	92°16.42' W	Travelling	25-30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	16-Oct-19	Transect	17:00	18:00	1:00	62°00.2' N	82°29.1' W	62°02.1' N	82°07.9' W	Travelling	4	n/a	n/a



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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	n/a	01-Sep-19	Transect	16:00	18:02	2:02	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	13-Aug-19	Transect	14:00	16:00	2:00	62°13.3' N	72°07.6' W	62°00.8' N	71°11.3' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Transarctic	Thoreo Isadora	Desmond Inaksajak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.58' N	85°16.50' W	62°53.15' N	86°15.50' W	Travelling	4-5	2-4	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	12-Aug-19	Transect	16:00	18:00	2:00	62°10.1' N	71°39.0' W	62°22.2' N	72°30.0' W	Travelling	>25	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	12-Sep-19	Transect	17:00	19:00	2:00	62°31.4' N	74°24.0' W	62°31.1' N	73°30.1' W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1' W	61°05.9' N	66°59.3' W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	10-Jul-19	Transect	17:27	18:00	0:33	61°30' N	92°29' W	61°39' N	92°15' W	Travelling	25	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	01-Nov-19	Transect	14:00	16:00	2:00	62°03.2' N	82°32.4' W	62°11.8' N	82°33.3' W	Travelling	30	c/bc	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	01-Nov-19	Transect	14:00	16:00	2:00	62°03.2' N	82°32.4' W	62°11.8' N	82°33.3' W	Travelling	30	c/bc	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	27-Oct-19	Transect	14:00	16:00	2:00	62°43.5' N	91°49.5' W	62°46.6' N	92°05.6' W	Travelling	10	2	patchy fog
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:00	0:30	0:30	62°31.5' N	76°20.0' W	62°33.7' N	76°33.7' W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	20:30	21:00	0:30	62°19.2' N	74°33.1'W	62°16.2' N	74°45.1'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	12:30	13:00	0:30	60°42.7' N	65°39.0'W	60°39.7' N	65°27.7'W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	12:30	13:00	0:30	60°42.7' N	65°39.0'W	60°39.7' N	65°27.7'W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	11-Jul-19	Transect	16:26	17:00	0:34	62°02.2' N	92°20.6'W	61°58.8' N	92°09.5'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	0:00	0:30	0:30	60°55.6' N	66°35.4'W	60°58.4' N	66°46.6'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	0:00	0:30	0:30	61°54.9' N	70°27.1'W	61°52.0' N	70°16.0'W	Travelling	15	2	patchy fog
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	21:30	22:00	0:30	62°08.9' N	71°24.4'W	62°06.2' N	71°13.4'W	Travelling	30	5	medium to heavy rain
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	21:30	22:00	0:30	62°18.3' N	85°10.0'W	62°20.4' N	85°20.4'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	Simon Peter	30-Sep-19	Transect	20:00	23:05	3:05	63°45.1' N	92°19.5' W	63°57.6' N	93°32.4' W	Travelling	10	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Transect	13:30	14:00	0:30	63°23.5' N	90°42.0' W	63°26.7' N	90°48.3' W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	08-Jul-19	Transect	12:29	13:00	0:31	62°09' N	91°56' W	62°09' N	91°56' W	Travelling	25	4	mist/light rain
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Ann Martin/ Melina Jobin	05-Jul-19	Transect	1:10	n/a	n/a	62°27.8' N	88°33.09' W	n/a	n/a	Travelling	5	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	16-Oct-19	Transect	17:00	18:00	1:00	62°00.2' N	82°29.1' W	62°02.1' N	82°07.9' W	Travelling	4	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	13-Aug-19	Transect	16:00	18:00	2:00	62°10.1' N	71°39.0' W	62°22.2' N	72°30.0' W	Travelling	>25	1	> 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon lachance	13-Aug-19	Transect	16:00	18:00	2:00	62°03.4' N	83°44.0' W	62°06.2' N	82°39.7' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	17-Oct-19	Transect	18:42	21:42	3:00	62°01.8' N	70°52.0' W	61°46.3' N	70°37.9' W	Travelling	45	n/a	n/a
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	07-Jul-19	Transect	13:30	14:02	0:32	61°34' N	92°39'W	61°43' N	92°22'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	01-Nov-19	Transect	14:00	16:00	2:00	62°03.2' N	82°32.4' W	62°11.8' N	82°33.3' W	Travelling	30	c/bc	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:00	0:30	0:30	62°31.5' N	76°20.0'W	62°33.7' N	76°33.7'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	12:00	12:30	0:30	62°01.7' N	71°18.2'W	62°04.7' N	71°30.3'W	Travelling	3	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	12:30	13:00	0:30	62°35.8' N	75°15.5'W	62°35.0' N	75°02.1'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:30	13:00	0:30	62°12.6' N	81°44.1'W	62°10.3' N	81°56.2'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	0:00	0:30	0:30	61°54.9' N	70°27.1'W	61°52.0' N	70°16.0'W	Travelling	15	2	patchy fog
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	27-Jul-19	Transect	21:30	22:00	0:30	60°42.4' N	65°39.7'W	60°44.8' N	65°49.9'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Transect	1:30	2:00	0:30	62°34.2' N	86°32.1'W	62°36.2' N	86°42.4'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Transect	13:30	14:00	0:30	63°23.5' N	90°42.0'W	63°26.7' N	90°48.3'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.5' W	Travelling	30	0/ 5	< 50% cloud cover (with no fog, rain, or snow)/ medium to heavy rain
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall/ Kyle Gaudet	10-Oct-19	Transect	12:00	16:00	4:00	62°17.3' N	79°07.8' W	62°10.1' N	79°07.6' W	Travelling	27	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	20:30	21:00	0:30	62°19.2' N	74°33.1'W	62°16.2' N	74°45.1'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	0:30	1:00	0:30	62°20.7' N	81°00.0'W	62°22.9' N	80°47.5'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	0:00	0:30	0:30	60°55.6' N	66°35.4'W	60°58.4' N	66°46.6'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a

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Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	12-Sep-19	Transect	17:00	19:00	2:00	62°31.4' N	74°24.0' W	62°31.1' N	73°30.1' W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W	Travelling	5	2	patchy fog
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	17-Jul-19	Transect	15:57	16:27	0:30	62°34' N	91°27'W	62°38' N	91°42'W	Travelling	10	3	solid fog
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	27-Jul-19	Transect	21:30	22:00	0:30	60°42.4' N	65°39.7'W	60°44.8' N	65°49.9'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	19-Oct-19	Transect	16:00	18:00	2:00	61°71.09' N	68°32.09' W	60°51.64' N	67°32.91' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Luke Gatherall	04-Jul-19	Transect	21:31	n/a	n/a	62°41.9' N	79°15.9' W	n/a	n/a	Travelling	10	7	snow
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	13-Aug-19	Transect	16:00	18:00	2:00	62°02.7' N	83°16.7' W	62°04.9' N	84°16.5' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	11-Aug-19	Transect	19:00	21:00	2:00	60°08.1' N	63°38.5' W	60°22.0' N	64°05.4' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	12:00	12:30	0:30	62°01.7' N	71°18.2'W	62°04.7' N	71°30.3'W	Travelling	3	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	12:30	13:00	0:30	62°35.8' N	75°15.5'W	62°35.0' N	75°02.1'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	11-Jul-19	Transect	16:26	17:00	0:34	62°02.2' N	92°20.6'W	61°58.8' N	92°09.5'W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	0:30	1:00	0:30	62°20.7' N	81°00.0'W	62°22.9' N	80°47.5'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	0:00	0:30	0:30	60°55.6' N	66°35.4'W	60°58.4' N	66°46.6'W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Simon Peter	19-Oct-19	Transect	13:59	15:59	2:00	61°06.3' N	69°33.7' W	61°01.9' N	68°33.1' W	n/a	n/a	n/a	n/a
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	Charles- Andre Landrin	16-Jul-19	Transect	18:02	18:37	0:35	62°41' N	91°01'W	n/a	n/a	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon lachance	13-Aug-19	Transect	14:00	16:00	2:00	62°13.3' N	72°07.6' W	62°00.8' N	71°11.3' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	12-Aug-19	Transect	16:00	18:00	2:00	62°10.1' N	71°39.0' W	62°22.2' N	72°30.0' W	Travelling	>25	1	> 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	11-Sep-19	Transect	21:30	23:30	2:00	61°57.7' N	83°00.8' W	62°07.5' N	82°15.9' W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Ann Martin	05-Jul-19	Transect	12:40	n/a	#####	61°54.9' N	83°35.2' W	n/a	n/a	Travelling	5	n/a	n/a
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:00	0:30	0:30	62°31.5' N	76°20.0' W	62°33.7' N	76°33.7' W	Travelling	30	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	21:30	22:00	0:30	62°18.3' N	85°10.0' W	62°20.4' N	85°20.4' W	Travelling	30	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Simon Peter	18-Oct-19	Transect	13:59	16:00	2:01	62°11.9' N	81°53.5' W	62°26.2' N	80°51.7' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	27-Jul-19	Transect	10:50	11:15	0:25	62°41.9' N	78°19.5' W	n/a	n/a	Travelling	5	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	31-Aug-19	Transect	20:00	20:40	0:40	62°39.1' N	77°27.1' W	62°39.4' N	77°35.7' W	Travelling	4	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Etienne Blanchette	12-Aug-19	Transect	19:00	21:00	2:00	60°08.1' N	63°38.5' W	60°22.0' N	64°05.4' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)
Desgagnes	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°37.1' N	69°24.3' W	Travelling	20	0	< 50% cloud cover (with no fog, rain, or snow)
Groupe Desgagnes	Rosaire A. Desgagnes	Simon Iachance	13-Aug-19	Transect	16:00	18:00	2:00	62°03.4' N	83°44.0' W	62°06.2' N	82°39.7' W	Travelling	20	1	> 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	18-Oct-19	Transect	16:00	18:00	2:00	62°26.54' N	80°50.40' W	62°39.03' N	79°49.37' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	04-Jul-19	Transect	23:45	0:15	0:50	62°41.9' N	79°00.5' W	n/a	n/a	Travelling	5	n/a	n/a



**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	Luke Gatherall	11-Oct-19	Transect	13:00	16:00	3:00	61°37.8' N	82°30.7' W	61°45.2' N	83°24.9' W	Travelling	n/a	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	04-Jul-19	Transect	23:45	0:15	0:50	62°41.9' N	79°00.5' W	n/a	n/a	Travelling	5	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	30-Aug-19	Transect	9:30	11:30	2:00	61°33.9' N	70°16.3' W	61°45.3' N	70°51.8' W	Travelling	3	2	patchy fog
Agnico Eagle - Meadow Bank	Nordika Desgagnes	Melina Jobin	27-Jul-19	Transect	10:50	11:15	0:25	62°41.9' N	78°19.5' W	n/a	n/a	Travelling	5	0	< 50% cloud cover (with no fog, rain, or snow)
n/a	n/a	Desmond Inaksajak	n.d.	Transect	16:07	18:07	2:00	60°31.24' N	64°31.61' W	60°15.21' N	63°52.11' W	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Zelada Desgagnes	AB	08-Aug-19	Transect	17:00	20:00	3:00	61°18.0' N	68°14.1' W	61°37.4' N	69°26.8' W	Travelling	50	0	< 50% cloud cover (with no fog, rain, or snow)

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Visibility (km)	Weather Code	Weather
								Latitude	Longitude	Latitude	Longitude				
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Desgagnes Marine Cargo	Thoreo Isadora	Desmond Inaksajak	26-Oct-19	Transect	10:00	12:00	2:00	60°28.49' N	64°14.59' W	60°32.31' N	64°59.87' W	Travelling	55	0	< 50% cloud cover (with no fog, rain, or snow)
Agnico Eagle - Meadow Bank	Acadia Desgagnes	Charlotte Fafrd-Morrisette	31-Aug-19	Transect	10:30	11:00	0:30	62°13.4' N	75°39.5' W	62°02.4' N	75°39.5' W	Travelling	3	0	< 50% cloud cover (with no fog, rain, or snow)

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometres, n/a = data not available; Weather Conditions: 0 (<50% cloud cover, with no fog, rain, or snow), 1 (> 50% cloud cover, with no fog, rain, or snow), 2 (patchy fog), 3 (solid fog), 4 (mist/light rain), 5 (medium to heavy rain), 7 (snow); Glare Conditions: 0 (none), 1 (slight/grey), 2 =(bright on the observer's side of vessel), 3 (bright and forward of vessel); Sea Ice Type: 0 (new, small, thin, newly formed, dinner plate sized pieces), 1 (pancake), 5 = (medium floe), 8 (giant floe), 10 (belt), 11 (beach ice or stamakhias); Sea Ice Concentration: 0 (one tenth), 1 (two-three tenths), 5 (seven to eight tenths), 6 (nine tenths), 7 (ten tenths); Sea State: 0 (calm-glassy), 1 (calm-rippled), 2 (smooth), 3 (slight), 4 (moderate), 5 (rough); Distance code: A (0-50 m), B (51-100 m), C (101-200 m), D (201-300 m), E (>300 m); Behaviour: 30 (holding or carrying fish), 33

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	4	1.5	7	135	n/a	n/a	n/a	n/a	n/a	n/a	n/a	26.5	Outdoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	7	225	n/a	n/a	n/a	n/a	n/a	n/a	n/a	26.5	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	(8-9)	300	n/a	n/a	n/a	n/a	n/a	n/a	n/a	26.5	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	2	1	(30-40)	330	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	1	0	6.5	49	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	24	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	2	<1m	7	5	n/a	n/a	0	one tenth	n/a	n/a	n/a	24	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	0	0	2	300	n/a	None	n/a	None	n/a	n/a	n/a	32	Both
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	2	<1m	9	45	n/a	n/a	0	one tenth	n/a	n/a	n/a	24	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	1	slight/ grey	0	0	n/a	n/a	n/a	None	n/a	None	n/a	n/a	n/a	31	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	n/a	Variable	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	5	0	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	(0-1)	0.5	3	270	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	4	135	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	5	0	n/a	none	n/a	None	n/a	n/a	n/a	30	indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	2	135	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	2	1	8	135	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	2	1	6	180	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	2	1	6	315	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	4	315	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	3	225	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	1	0	6.5	49	n/a	n/a	0	n/a	n/a	n/a	n/a	24	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	1	4	240	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	2	<1m	7	5	n/a	n/a	0	n/a	n/a	n/a	n/a	24	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	1	0.05	(0-2)	0	n/a	n/a	n/a	n/a	0	280	Middle	25	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	4	270	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	2	<1m	9	211	n/a	n/a	0	n/a	n/a	n/a	n/a	24	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	3	1	18	45	n/a	n/a	0	one tenth	n/a	n/a	n/a	24	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	3	0	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	n/a	n/a	1	0.5	n/a	Varied	n/a	None	n/a	None	n/a	n/a	n/a	30	Indoors
Desgagnes	Zelada Desgagnes	0	none	3	0.5	(30-45)	(45-60)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25	Indoors
Transport Desgagnes	Miena Desgagnes	n/a	n/a	2	>1	5	325	11	Beach Ice or Stamakhas	0	one tenth	n/a	315	Starboard	25	Indoors
Transport Desgagnes	Miena Desgagnes	n/a	n/a	2	>1	B-4	0	11	Beach Ice or Stamakhas	n/a	n/a	n/a	n/a	n/a	25	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	5	192	n/a	n/a	n/a	n/a	n/a	n/a	n/a	26.5	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	1	0.5	(0-2)	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	1	0.5	(0-2)	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	0	none	1	0	3	45	n/a	n/a	1	two-three tenths	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	1	15	135	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	0	<1m	5	270	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	0	<1m	5	270	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	0	<1m	5	270	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	0	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	2	1	23	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	4	2	22	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	2	1	23	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	<1m	7	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	18	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	18	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	18	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	n/a	0	2	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	1	0.5	(0-2)	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	1	0.05	0	230	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25	Indoors
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	5	2	8	23	n/a	n/a	n/a	n/a	11.5	80	Starboard	27	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	1	0.5	21	210	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13	221	Port	25	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	3	1	7.6	n/a	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.5	n/a	Starboard	n/a	Outdoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	2	0.5	6	25	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.2	n/a	Starboard	n/a	Outdoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	0	none	3	1	4	92	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	9	264	Starboard	25	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	2	1	20	206	n/a	n/a	n/a	n/a	13	222	Port	25	Outdoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	4	2	11	325	n/a	n/a	n/a	n/a	13	265	Starboard	24	Indoors
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	4	2	11	325	n/a	n/a	n/a	n/a	13	265	Starboard	24	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	3	1	7-8	180	n/a	n/a	n/a	n/a	14	284	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	3	1	7-8	180	n/a	n/a	n/a	n/a	14	284	Both	30	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	5	2	24	320	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors



Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	"2-3"	<1	12	275	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
TransarctiK Desgagnes	Nordika Desgagnes	0	none	3	n/a	5	162	n/a	n/a	n/a	n/a	12	250	n/a	n/a	Indoors
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	3	0.2	4	305	n/a	n/a	n/a	n/a	15	118	Starboard	27	Indoors
Desgagnes	Zelada Desgagnes	(1/2)	slight/ grey/ bright on the observer's side of vessel	3	1	5	225	n/a	n/a	n/a	n/a	14.5	73	n/a	25	Indoors
Desgagnes	Zelada Desgagnes	(1/2)	slight/ grey/ bright on the observer's side of vessel	3	1	5	225	n/a	n/a	n/a	n/a	14.5	73	n/a	25	Indoors
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	3	1	7	235	n/a	n/a	n/a	n/a	11	183/003	Starboard	24	Indoors
Transport Desgagnes	Miena Desgagnes	0	none	3	1	4	110	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	9	240	Port	25	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	1	0.1	10	290	n/a	n/a	n/a	n/a	10.4	260	Port	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	1	14	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13.8	287	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	1	14	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13.8	287	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	1	9	70	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	1	9	70	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	0	0.2	12	240	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	11.7	98	Port	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	15	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.8	247	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	15	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.8	247	Starboard	22	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	15	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.8	247	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	15	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.8	247	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	1	0.5	12	232	n/a	n/a	n/a	n/a	12	41	Port	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	11	0	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	10.2	295	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	1	0.5	5	300	8	Giant Floe	5	seven to eight tenths	6	n/a	Port	25	Indoors
Transport Desgagnes	Miena Desgagnes	0	none	1	0.1	17	241	n/a	n/a	n/a	n/a	8.2	36.4	n/a	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	5	1	25	240	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	2	0.5	7	130	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	5.6	246	n/a	25	n/a
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	1	0	3	300	n/a	n/a	n/a	n/a	12	n/a	Both	30	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	1	0	3	300	n/a	n/a	n/a	n/a	12	n/a	Both	30	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	1	0	3	300	n/a	n/a	n/a	n/a	12	n/a	Both	30	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	1	0	3	300	n/a	n/a	n/a	n/a	12	n/a	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	slight/ grey	1	0	3	320	n/a	n/a	None	None	10	n/a	Both	30	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	slight/ grey	1	0	3	320	n/a	n/a	None	None	10	n/a	Both	30	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	1	0	3	300	n/a	n/a	n/a	n/a	12	n/a	Both	30	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	5	2	8	23	n/a	n/a	n/a	n/a	11.5	80	Starboard	27	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	4	335	n/a	n/a	n/a	n/a	15	116	Both	26.5	Indoors
Desgagnes Transarctic	Thoreo Isadora	n/a	n/a	2	1	3	110	n/a	n/a	n/a	n/a	13.5	248-282	Both	30	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	2	<1m	3	200	n/a	n/a	n/a	n/a	14	295	Both	26.5	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	"2-3"	<1	12	275	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	3	1	4	254	n/a	n/a	n/a	n/a	13	39	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	(1/2)	slight/ grey/ bright on the observer's side of vessel	3	1	5	225	n/a	n/a	n/a	n/a	14.5	73	n/a	25	Indoors
Desgagnes	Zelada Desgagnes	(1/2)	slight/ grey/ bright on the observer's side of vessel	3	1	5	225	n/a	n/a	n/a	n/a	14.5	73	n/a	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	(0.25-0.5)	6	30	n/a	n/a	n/a	n/a	12.5	287	Middle	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	1	14	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13.8	287	Starboard	22	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	3	1.5	24	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.4	243	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	0	1	6	135	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	0	1	6	135	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	0	0.2	12	240	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	11.7	98	Port	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	3	13	315	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13	294	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	2	21	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	2	18	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	11	0	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	10.2	295	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	n/a	slight/ grey	1	0	3	320	n/a	n/a	None	None	10	n/a	Both	30	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors

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Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	0	<1m	8	180	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	9.1	321	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	1	slight/grey	4	1.5	6	137	1	Pancake	1	two-three tenths	0.3	variable	Starboard	25	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	3	0.5	6.5	n/a	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	7.9	n/a	Port	n/a	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	5	2	8	23	n/a	n/a	n/a	n/a	11.5	80	Starboard	27	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	2	<1m	3	200	n/a	n/a	n/a	n/a	14	295	Both	26.5	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	4	15	n/a	n/a	n/a	n/a	13	76	Both	26.5	Indoors



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Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	0	none	3	0.2	4	305	n/a	n/a	n/a	n/a	15	118	Starboard	27	Indoors
Transport Desgagnes	Miena Desgagnes	0	none	3	1	4	127	n/a	n/a	n/a	n/a	10	104	Port	n/a	Indoors
Desgagnes	Zelada Desgagnes	(1/2)	slight/ grey/ bright on the observer's side of vessel	3	1	5	225	n/a	n/a	n/a	n/a	14.5	73	n/a	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	1	14	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13.8	287	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	none	1	1	11	315	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.5	298	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	0	0	8	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	15	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.8	247	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	2	21	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	2	16	270	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	11.2	301	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	1	<1m	8	0	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	10.4	294	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	0	<1m	8	180	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	9.1	321	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	0	1	15	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	3	1	10	240	n/a	n/a	0	one tenth	"12-13"	296	Starboard	40	Outdoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	13	220	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	3	1	7	235	n/a	n/a	n/a	n/a	11	183/003	Starboard	24	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	3	1.5	24	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.4	243	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	<1m	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	3	13	315	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13	294	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	"2-3"	<1	12	275	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	4	(1-2)	10	(0-5)	n/a	n/a	0	one tenth	12	255	Port	25	Outdoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	2	0.3	10	281	n/a	n/a	6	nine tenths	6	93	Middle	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	2	16	270	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	11.2	301	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	1	0.25	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	5	0	n/a	n/a	n/a	n/a	14	279	Both	26.5	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	(2-4)	1	5.6	280	n/a	n/a	n/a	n/a	13	337	Both	26.5	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	1	11	315	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.5	298	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	0	0	8	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	0	0.2	12	240	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	11.7	98	Port	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	1	<1m	6	45	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	3	13	315	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13	294	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	2	bright on the observer's side of vessel	0	0	3	280	10	Belt	7	ten tenths	5.3	94	Middle	25	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	4	335	n/a	n/a	n/a	n/a	15	116	Both	26.5	Indoors

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	2	<1m	3	200	n/a	n/a	n/a	n/a	14	295	Both	26.5	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	3	<1	14	330	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	2	0.5	6	25	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.2	n/a	Starboard	n/a	Outdoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	3	bright and forward of vessel	2	1	14	90	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	13.8	287	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	2	1	11	0	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	10.2	295	Starboard	22	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	0	none	1	0.5	6	225	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	14.1	n/a	Starboard	n/a	Outdoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	5	1	25	240	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	(2-4)	1	5.6	280	n/a	n/a	n/a	n/a	13	337	Both	26.5	Indoors
Desgagnes	Zelada Desgagnes	1	slight/ grey	2	0.5	6	240	n/a	n/a	n/a	n/a	15	116	Starboard	25	Indoors
Groupe Desgagnes	Rosaire A. Desgagnes	1	slight/ grey	3	1	4	15	n/a	n/a	n/a	n/a	13	76	Both	26.5	Indoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	3	1	7.6	n/a	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.5	n/a	Starboard	n/a	Outdoors

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	n/a	4	2	11	325	n/a	n/a	n/a	n/a	13	265	Starboard	24	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	n/a	n/a	3	1	7.6	n/a	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	12.5	n/a	Starboard	n/a	Outdoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	1	slight/ grey	3	<1	16	155	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors
Agnico Eagle - Meadow Bank	Nordika Desgagnes	0	none	1	0.5	6	225	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	14.1	n/a	Starboard	n/a	Outdoors
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both
Agnico Eagle - Meadow Bank	Zelada Desgagnes	2	bright on the observer's side of vessel	2	0.6	2	n/a	5	Medium	0	one tenth	13.4	295	Both	30	Both

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Glare Code	Glare Condition	Sea State Code	Wave Height (m)	True wind speed knots	True Wind Direction	Ice Type Code	Ice Type	Ice Concentration Code	Ice Concentration	True Platform Speed Knots	True Platform Direction deg	Observation Side	Height of Eye (m)	Outdoors or Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Desgagnes Marine Cargo	Thoreo Isadora	n/a	n/a	3	1	4-5	130	n/a	n/a	n/a	n/a	12	280	Both	30	Indoors
Agnico Eagle - Meadow Bank	Acadia Desgagnes	0	none	0	0	0	n/a	0	New small, thin, newly formed, dinner plate-sized pieces	0	one tenth	n/a	n/a	Starboard	22	Indoors

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometer (patchy fog), 3 (solid fog), 4 (mist/light rain), 5 (medium to heavy rain), 7 (snow newly formed, dinner plate sized pieces), 1 (pancake), 5 = (medium floe), 8 (giant floes); Sea State: 0 (calm-glassy), 1 (calm-rippled), 2 (smooth), 3 (slight), 4

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Groupe Desgagnes	Rosaire A. Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	n/a	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora/ General Cargo	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	No Observations	0	n/a	n/a	0-50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	No Observations	0	n/a	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	No Observations	0	n/a	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	PEFA	1	n/a	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLCU	1	water	Yes	201-300	250	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes	Zelada Desgagnes	UNBI	1	fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	NOFU	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	ND	A	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	51-100	50	B	Associated with cetaceans	11	Deep plunging	45	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Aerial pursuit	36	0	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Aerial pursuit	36	0	I	NB	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	NOFU	1	water	Yes	51-100	50	B	Associated with cetaceans	11	Holding or carrying fish	30	n/a	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	BLGU	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	90	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	0	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	0	I	NB	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Aerial pursuit	36	180	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	270	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	270	I	NB	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	POJA	1	Fly	Yes	0-50	50	A	Approaching observation platform	19	Aerial pursuit	36	90	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Aerial pursuit	36	90	A	B	Male
Desgagnes	Zelada Desgagnes	BLSC	1	fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	BLSC	1	fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	NOFU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	NOFU	1	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	SAGU	1	Fly	n/a	51-100	50	B	n/a	n/a	n/a	n/a	40	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	BLGU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	180	A	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Agnico Eagle - Meadow Bank	Nordika Desgagnes	NOFU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	PEFA	1	n/a	n/a	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	1	Water	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	1	Water	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	UNGO	1	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	220	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	1	Fly	Yes	>300	350	E	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	NOFU	1	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	NOFU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	225	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	POJA	1	Water	Yes	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	POJA	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	THGU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	>300	350	E	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	>300	350	E	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	>300	350	E	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	51-102	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	TBMU	1	water	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	NOFU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Transarctic/ marine Cargo Desgagnes	Nordika Desgagnes	TBMU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	>300	350	E	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Both	n/a	101-200	150	C	n/a	n/a	Observing	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Aerial pursuit	36	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNGU	1	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes	Zelada Desgagnes	UNGU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNGU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	NOFU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNGU	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	315	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	POJA	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNBI	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNGU	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	1	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	HERG	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	315	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	HERG	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	SNOW	1	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	1	Fly	Yes	>300	350	E	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes Marine Cargo	Thoreo Isadora	HERG	1	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	307	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	35	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	1	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
TransarctiK Desgagnes	Nordika Desgagnes	NOFU	1	Fly	NO	0-50	50	A	n/a	n/a	n/a	n/a	270	I	NB	n/a
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	NOFU	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	270	J	NB	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	>300	350	E	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	315	n/a	n/a	n/a
TransarctiK/ marine Cargo Desgagnes	Nordika Desgagnes	NOFU	1	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	PEFA	1	n/a	n/a	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	TBMU	1	water	n/a	51-100	50	B	n/a	n/a	n/a	n/a	120	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	180	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	LTDU	1	Fly	Yes	0-50	50	A	Associated with observation platform	18	Aerial pursuit	36	45	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	BLGU	1	Fly	Yes	0-50	50	A	Associated with cetaceans	11	Feeding	33	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	LESA	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	0	A	B	Male
Transport Desgagnes	Miena Desgagnes	COEI	1	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	150	n/a	n/a	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	1	Fly	Yes	51-100	50	B	Approaching observation platform	20	Pattering	39	45	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	0	A	B	Female

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Agnico Eagle - Meadow Bank	Acadia Desgagnes	NOFU	1	Fly	Yes	0-50	50	A	Associated with observation platform	18	Actively searching	49	180	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	NOFU	1	Fly	Yes	0-50	50	A	Associated with observation platform	18	Actively searching	49	180	I	NB	Male
Transport Desgagnes	Miena Desgagnes	HERG	1	Fly	n/a	0-50	50	A	n/a	n/a	Preening or bathing	66	180	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	1	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	180	A	B	Female
Transport Desgagnes	Miena Desgagnes	THGU	1	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	260	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	HERG	1	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	280	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNGU	1	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	PEFA	1	n/a	n/a	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	COLO	1	Fly	n/a	200	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	COLO	1	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	GLGU	1	Fly	n/a	200	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Water	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	1	Fly	n/a	30	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNGU	1	Fly	Yes	n/a	50	n/a	n/a	n/a	n/a	n/a	315	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	400	350	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a



Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	300	250	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	300	250	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	200	150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	200	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	500	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	1	Fly	n/a	300	250	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	70	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	50	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	NOFU	1	Fly	n/a	400	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	1	Fly	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	POJA	1	water	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	POJA	1	Fly	n/a	250	250	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	RUTU	1	Deck	n/a	0	50	n/a	n/a	n/a	On Board	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	1	Fly	n/a	150	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	1	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	1	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	1	Both	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	1	Fly	n/a	130	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	UNDU	1	Fly	n/a	50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	UNDU	1	Fly	n/a	400	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	UNFA	1	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	2	Water	Yes	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	2	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	2	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	TBMU	2	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	NOFU	2	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	2	Fly	Yes	>300	350	E	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	2	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	2	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	2	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	225	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	LESA	2	Fly	NO	0-50	50	A	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	2	Fly	n/a	51-101	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	LESA	2	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	Varied	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	2	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNBI	2	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	2	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	2	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	GLGU	2	water	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	2	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	225	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	2	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	POJA	2	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	TBMU	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	225	A	B	Male

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Agnico Eagle - Meadow Bank	Acadia Desgagnes	TBMU	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	45	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	270	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	270	I	NB	Male
Transport Desgagnes	Miena Desgagnes	COEI	2	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	150	n/a	n/a	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	2	Fly	Yes	51-100	50	B	Associated with cetaceans	11	Surface pecking	44	0	I	NB	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	315	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	2	Fly	Yes	51-100	50	B	Approaching observation platform	20	Pattering	39	270	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	2	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	315	A	B	Male
n/a	n/a	BLKI	2	Fly	n/a	200	150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	COLO	2	Fly	n/a	300	250	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	2	Fly	n/a	50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Transarctic	Thoreo Isadora	HERG	2	Water	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	2	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	2	Fly	n/a	130	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	2	Fly	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	2	Fly	n/a	50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	LTJA	2	Fly	n/a	100	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	NOFU	2	Water	n/a	150	150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	2	Water	n/a	100	50	n/a	n/a	n/a	Hunting	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	2	Fly	n/a	150	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	UNDU	2	Fly	n/a	400	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	3	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	3	Water	Yes	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	GLGU	3	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	3	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNDU	3	water	Yes	51-100	50	B	Associated with fish shoal	10	Feeding	33	n/a	A	B	Male
Transport Desgagnes	Miena Desgagnes	COEI	3	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	67	n/a	n/a	Female
n/a	n/a	NOFU	3	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	3	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	180	A	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	3	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	TBMU	3	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	3	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	GLGU	3	water	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	THGU	3	Fly	NO	51-100	50	B	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNJA	3	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	3	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	3	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	3	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	3	Fly	n/a	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	NOFU	3	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	180	J	NB	n/a
Transport Desgagnes	Miena Desgagnes	TBMU	3	water	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	HERG	3	Both	Yes	101-200	150	C	n/a	n/a	n/a	n/a	Varied	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	NOFU	3	Water	Yes	51-100	50	B	Associated with sea weed	17	Feed	33	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	LTDU	3	Water	Yes	51-100	50	B	Associated with sea weed	17	Preening or bathing	66	n/a	A	B	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	3	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	270	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	BLGU	3	water	Yes	0-50	50	A	Associated with fish shoal	10	Feed	33	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	3	Fly	Yes	51-100	50	B	Approaching observation platform	20	Pattering	39	270	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	MASH	3	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	180	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	BLGU	3	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	315	A	B	Male
n/a	n/a	COLO	3	Fly	n/a	150	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	COLO	3	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	HERG	3	Water	n/a	200	150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	3	Fly	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	3	Fly	n/a	200	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	4	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
n/a	n/a	NOFU	4	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	4	Fly	Yes	0-50	50	A	Approaching observation platform	20	Aerial pursuit	36	270	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	TBMU	4	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	4	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	225	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	4	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	4	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	4	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	4	Fly	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	BLSC	4	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	TBMU	4	water	Yes	51-100	50	B	Associated with cetaceans	11	Preening or bathing	66	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	4	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	205	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	4	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	180	A	B	Male
n/a	n/a	BLKI	4	Fly	n/a	50	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
n/a	n/a	GLGU	4	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	HERG	4	Fly	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	LTJA	4	Fly	n/a	200	150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	4	Fly	n/a	150	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	4	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	4	Fly	n/a	150	150	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	4	Fly	n/a	50	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	5	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	5	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	5	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	5	Fly	Yes	201-300	250	D	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	GLGU	5	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	5	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	5	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	5	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	5	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	5	Fly	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes Marine Cargo	Thoreo Isadora	HERG	5	Fly	n/a	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	HERG	5	both	n/a	0-50	50	A	n/a	n/a	Feed	33	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	GLGU	5	Fly	Yes	0-50	50	A	Associated with observation platform	18	Pattering	39	270	A	B	Male
n/a	n/a	TBMU	5	Fly	n/a	150	150	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	5	Fly	n/a	100	50	n/a	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	6	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	90	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	GLGU	6	water	Yes	201-300	250	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	GLGU	6	water	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	6	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	0	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	NOFU	6	Fly	Yes	0-50	50	A	Associated with observation platform	18	Pattering	39	90	A	B	Male
Transport Desgagnes	Miena Desgagnes	COEI	6	Fly	n/a	0-50	50	A	n/a	n/a	n/a	n/a	150	n/a	n/a	Female
Agnico Eagle - Meadow Bank	Acadia Desgagnes	BLGU	6	water	Yes	51-100	50	B	Associated with cetaceans	11	Feeding	33	n/a	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	DOVE	6	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	315	A	B	Male
n/a	n/a	BLKI	6	Fly	n/a	300	250	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	NOFU	7	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Transport Desgagnes	Miena Desgagnes	HERG	7	both	n/a	0-50	50	A	n/a	n/a	Scavenging	40	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	GLGU	7	water	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Groupe Desgagnes	Rosaire A. Desgagnes	NOFU	7	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	7	both	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	TBMU	7	Fly	n/a	300	250	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	TBMU	8	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	UNBI	8	Fly	Yes	>300	350	E	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	LESP	8	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	180	A	B	Male
Agnico Eagle - Meadow Bank	Acadia Desgagnes	WISP	8	Fly	Yes	0-50	50	A	Approaching observation platform	20	Pattering	39	0	A	B	Male
n/a	n/a	COLO	8	Fly	n/a	400	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	UNBI	9	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	0	A	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	9	Fly	n/a	51-100	50	B	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	TBMU	9	both	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	10	Fly	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	NOFU	10	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Desgagnes	Zelada Desgagnes	COMU	12	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	180	n/a	n/a	n/a
Groupe Desgagnes	Rosaire A. Desgagnes	GLGU	12	Fly	Yes	51-100	50	B	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
n/a	n/a	COLO	14	Fly	n/a	100	50	n/a	n/a	n/a	Travelling	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	UNBI	15	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Transarctik/ marine Cargo Desgagnes	Nordika Desgagnes	UNDU	16	Fly	Yes	101-200	150	C	n/a	n/a	n/a	n/a	135	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	UNBI	20	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	270	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	HERG	20	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Nordika Desgagnes	UNBI	22	Fly	Yes	0-50	50	A	n/a	n/a	n/a	n/a	0	A	n/a	n/a
n/a	n/a	NOFU	23	Both	n/a	101-200	150	C	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	NOFU	25	both	Yes	201-300	250	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	TBMU	25	both	Yes	201-300	250	D	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	NOFU	25	both	Yes	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	TBMU	25	both	Yes	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	NOFU	25	both	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	TBMU	25	both	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	NOFU	25	both	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	A	M	n/a
Agnico Eagle - Meadow Bank	Zelada Desgagnes	TBMU	25	both	Yes	0-50	50	A	n/a	n/a	n/a	n/a	n/a	A	M	n/a

**Table A-1: Seabird Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company Agency	Platform Name	Species	Count	Fly or Water	In Transect	Distance (m)	Midpoint	Distance Code	Association	Association Code	Behaviour	Behaviour Code	Flight Direction	Age	Plumage	Sex
Desgagnes Marine Cargo	Thoreo Isadora	HERG	40	Fly	n/a	101-200	150	C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	40	Fly	n/a	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Desgagnes Marine Cargo	Thoreo Isadora	HERG	40	Fly	n/a	0-50	50	A	n/a	n/a	Scavenging	n/a	n/a	n/a	n/a	n/a
Agnico Eagle - Meadow Bank	Acadia Desgagnes	UNDU	50	both	Yes	51-100	50	B	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometer (patchy fog), 3 (solid fog), 4 (mist/light rain), 5 (medium to heavy rain), 7 (snow newly formed, dinner plate sized pieces), 1 (pancake), 5 = (medium floe), 8 (giant floe); Sea State: 0 (calm-glassy), 1 (calm-rippled), 2 (smooth), 3 (slight), 4

Table A-2: Marine Mammal Sightings and Environmental Variables Recorded during 2019 MMSO Program

Company/Agency	Platform Name and Type	Observer(s)	Date	Survey Type	Time at Start	Time at End	Effort	Survey Start		Survey End	
								Latitude	Longitude	Latitude	Longitude
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	27-Jul-19	Transect	14:00	14:30	0:30	60°00.0' N	63°03.9'W	60°02.6' N	63°12.0'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	27-Jul-19	Transect	22:00	22:30	0:30	60°44.9' N	63°50.1'W	60°47.4' N	66°00.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	0:30	1:00	0:30	60°58.4' N	66°46.6'W	61°01.2' N	66°58.9'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	12:30	13:00	0:30	62°04.7' N	71°30.3'W	62°07.4' N	71°30.3'W
Desgagnes/ Transartik	Nordika Desgagnes	Melina Jobin	28-Jul-19	Transect	13:05	13:35	0:30	61°22.3' N	68°12.1'W	n/a	n/a
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	28-Jul-19	Transect	20:00	20:30	0:30	62°21.9' N	74°20.8'W	62°19.3' N	74°32.4'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	0:30	1:00	0:30	62°33.7' N	76°34.0'W	62°35.9' N	76°42.3'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	12:00	12:30	0:30	62°15.0' N	81°30.8'W	62°12.6' N	81°43.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	30-Jul-19	Transect	22:00	22:30	0:30	62°20.4' N	85°20.5'W	62°22.4' N	85°30.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Transect	1:00	1:30	0:30	62°22.5' N	86°22.5'W	62°34.2' N	86°32.0'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Transect	13:00	13:30	0:30	63°20.1' N	90°35.5'W	63°23.4' N	90°42.0'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	31-Jul-19	Stationary	23:00	23:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	01-Aug-19	Stationary	1:00	1:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	01-Aug-19	Stationary	13:00	13:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	02-Aug-19	Stationary	1:00	1:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	02-Aug-19	Stationary	13:00	13:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	05-Aug-19	Stationary	13:00	13:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	06-Aug-19	Stationary	1:00	1:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	06-Aug-19	Stationary	13:00	13:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	1:00	1:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	07-Aug-19	Stationary	13:00	13:30	0:30	63°56.7' N	93°38.7'W	63°56.7' N	93°38.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	08-Aug-19	Stationary	1:00	1:30	0:30	64°17.9' N	95°59.6'W	64°17.9' N	95°59.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	08-Aug-19	Stationary	13:00	13:30	0:30	64°17.9' N	95°59.7'W	64°17.9' N	95°59.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	13-Aug-19	Transect	13:00	13:30	0:30	64°27.6' N	95°57.9'W	64°25.0' N	85°44.7'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	0:00	0:30	0:30	62°18.4' N	81°13.2'W	62°20.7.4' N	80°00.0'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	12:00	12:30	0:30	62°36.6' N	75°29.6'W	62°35.8' N	75°15.8'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	14-Aug-19	Transect	22:00	22:30	0:30	62°06.1' N	71°13.2'W	62°03.0' N	71°00.4'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	0:30	1:00	0:30	61°51.9' N	70°15.6'W	61°49.3' N	70°05.0'W
Desgagnes/ Transartik	Acadia Desgagnes	Stephen Badcock	15-Aug-19	Transect	12:00	12:30	0:30	60°45.8' N	65°51.0'W	60°42.7' N	65°39.2'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	29-Aug-19	Transect	16:15	18:15	2:00	60°43.6' N	64°16.3'W	60°49.9' N	65°08.9'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	30-Aug-19	Transect	9:30	11:30	2:00	61°33.9' N	70°15.6'W	61°45.3' N	70°51.8'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	01-Sep-19	Transect	16:30	18:30	2:00	63°02.4' N	84°56.6'W	63°02.1' N	85°57.6'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	11-Sep-19	Transect	21:30	23:30	2:00	61°57.7' N	83°00.8'W	62°07.5' N	83°15.9'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	12-Sep-19	Transect	17:00	19:00	2:00	62°31.4' N	74°24.0'W	62°31.1' N	73°30.1'W
Desgagnes/ Transartik	Acadia Desgagnes	Charlotte Fafard-Morrisette	13-Sep-19	Transect	9:30	11:30	2:00	61°18.4' N	67°43.1'W	61°05.9' N	66°59.3'W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Desmond Inaksojak	26-Sep-19	Transect	14:00	16:00	2:00	60°28.3' N	64°14.4'W	60°32.4' N	65°00.2'W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Desmond Inaksojak	27-Sep-19	Transect	14:00	16:00	2:00	62°24.41' N	74°43.86' W	62°24.47' N	75°41.28' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Desmond Inaksojak	28-Sep-19	Transect	14:00	16:00	2:00	62°49.6' N	85°16.5' W	n/a	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Desmond Inaksojak	30-Sep-19	Transect	16:00	20:00	4:00	63°31.7' N	91°01.32' W	63°45.1' N	92°16.4' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Simon Peter	30-Sep-19	Transect	20:00	23:05	3:05	63°45.1' N	92°19.5' W	63°57.4' N	93°35.1' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	01-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	n/a	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	02-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	n/a	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	03-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	n/a	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	04-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	n/a	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Etienne Blanchette	05-Oct-19	Transect	19:00	21:00	2:00	60°03.1' N	63°38.5'W	60°22.0' N	64°05.4'W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	05-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	63°57.4' N	93°35.1' W
Desgagnes/ Transartik	Rosaire A Desgagnes	Etienne Blanchette	06-Oct-19	Transect	16:00	18:00	2:00	62°10.1' N	71°39.0'W	62°22.2' N	72°30.0'W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	06-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Rosaire A Desgagnes	Etienne Blanchette	07-Oct-19	Transect	16:00	18:00	2:00	62°02.7' N	83°16.7'W	62°04.9' N	84°16.5'W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	07-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	08-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	09-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Nordika Desgagnes	Kyle Gardet	09-Oct-19	Transect	14:30	18:30	4:00	62°33.64' N	75°31.4' W	62°35.7' N	76°23.1' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	10-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Nordika Desgagnes	Kyle Gardet/ Luke Gatherall	10-Oct-19	Transect	12:00	14:00	2:00	62°17.3' N	79°07.8' W	62°10.1' N	79°07.6' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	11-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.1' W	63°57.4' N	93°35.1' W

**Table A-2: Marine Mammal Sightings and Environmental Variables Recorded during 2019 MMSO Program**

Company/Agency	Platform Name and Type	Observer(s)	Date	Survey Type	Time at Start	Time at End	Effort	Survey Start		Survey End	
								Latitude	Longitude	Latitude	Longitude
Desgagnes/ Transartik	Nordika Desgagnes	Luke Gatherall	11-Oct-19	Transect	13:30	16:00	2:30	61°37.8' N	82°30.7' W	61°44.9' N	83°31.7' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	12-Oct-19	Stationary	17:00	19:00	2:00	63°57.4' N	93°35.2' W	63°57.4' N	93°35.2' W
Desgagnes/ Transartik	Nordika Desgagnes	Melina Jobin	12-Oct-19	Stationary	16:00	18:00	2:00	62°46.0' N	92°03.8' W	62°46.0' N	92°03.8' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	13-Oct-19	Stationary	17:00	19:00	2:00	63°57.3' N	93°35.1' W	63°57.3' N	93°35.1' W
Desgagnes/ Transartik	Nordika Desgagnes	Melina Jobin	13-Oct-19	Stationary	16:00	18:00	2:00	62°49.0' N	92°04.0' W	62°49.0' N	92°04.0' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	14-Oct-19	Stationary	17:00	19:00	2:00	63°57.1' N	93°35.3' W	63°57.1' N	93°35.3' W
Desgagnes/ Transartik	Nordika Desgagnes	Melina Jobin	14-Oct-19	Stationary	16:00	18:00	2:00	62°45.9' N	92°04.1' W	62°45.9' N	92°04.1' W
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	15-Oct-19	Stationary	17:00	19:00	2:00	63°57.2' N	93°35.1' W	63°57.2' N	93°35.1' W
Desgagnes/ Transartik	Nordika Desgagnes	Melina Jobin	15-Oct-19	Stationary	8:00	10:00	2:00	62°46.1' N	92°04.0' W	n/a	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Nicolas Brunelle	16-Oct-19	Stationary	17:00	19:00	2:00	63°57.2' N	93°35.1' W	63°57.2' N	93°35.1' W
Desgagnes/ Transartik	Nordika Desgagnes	Luke Gatherall	16-Oct-19	Transect	17:00	18:00	1:00	62°00.2' N	82°29.1' W	n/a	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Simon Lachance	17-Oct-19	Transect	16:00	18:00	2:00	62°03.4' N	83°16.7' W	62°06.2' N	82°39.7' W
Desgagnes/ Transartik	Nordika Desgagnes	Kyle Gaudet	17-Oct-19	Transect	19:42	21:42	2:00	62°01.8' N	70°52.0' W	61°46.3' N	70°37.1' W
Desgagnes/ Transartik	Rosaire A Desgagnes	Simon Lachance	18-Oct-19	Transect	14:00	16:00	2:00	62°13.3' N	72°07.6' W	62°00.8' N	71°11.3' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	25-Oct-19	Transect	14:00	16:00	2:00	61°48.3' N	70°12.6' W	61°59.6' N	71°01.6' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney/ Maxime Cormier	26-Oct-19	Transect	14:00	16:00	2:00	62°22.3' N	80°22.5' W	62°15.1' N	81°11.4' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	27-Oct-19	Transect	14:00	16:00	2:00	62°43.5' N	91°49.5' W	62°46.6' N	92°05.6' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	28-Oct-19	Stationary	14:00	16:00	2:00	62°46.5' N	92°06.0' W	62°46.5' N	92°06.0' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	29-Oct-19	Stationary	19:45	22:00	2:15	62°46.5' N	92°06.0' W	62°46.5' N	92°06.0' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	30-Oct-19	Stationary	13:00	18:00	5:00	62°46.5' N	92°05.5' W	62°46.6' N	92°05.6' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	31-Oct-19	Stationary	14:00	16:00	2:00	62°46.7' N	92°05.4' W	62°46.7' N	92°05.4' W
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	01-Nov-19	Stationary	14:00	16:00	2:00	n/a	n/a	n/a	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Emmie Penney	02-Nov-19	Transect	12:00	15:45	3:45	61°59.5' N	71°01.2' W	61°59.5' N	71°01.2' W
n/a	n/a	Desmond Inaksojak	n/a	n/a	4:00	8:00	4:00	63°21.9' N	90°38.7' W	63°43.06' N	92°02.14' W
n/a	n/a	Desmond Inaksojak	n/a	n/a	4:00	8:00	4:00	63°21.9' N	90°38.7' W	63°43.06' N	92°02.14' W

Notes:

hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometres, n/a = data not available, Weather code: 0 (< 50% cloud cover with no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow), 2 (pathy fog), 3 (solid fog), 4 ( mist/light rain), 5 (medium to heavy rain), 6 (fog and rain), 7 ( snow); 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), 3 (level piece 2 to 20 m across); Ice concentration; 0 (less than one tenth cover, open water), 2 (four tenths, open drift); deg = degrees

Table A-2: Marine Mammal Sightings and Environmental Variables

Company/Agency	Platform Name and Type	Platform Activity	Visibility (km)	Weather Code	Glare Conditions Code	Sea State Code	Wave Height (m)	True wind speed (knots)	True Wind Direction (deg)	Ice Type Code
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	1	5	2	28	270	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	3	2	3	21	270	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	3	3	3	12	315	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	0	1	1	10	315	0
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	6	1	0	1	<1	3	315	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	3	3	1	20	315	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	3	2	1	12	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	0	2	1	15	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	0	1	1	10	0	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	3	1	<1	9	0	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	0	0	<1	6	180	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	0	1	1	15	135	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	0	1	1	17	135	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	1	0	1	5	270	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	0	0	0	<1	11	0	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	0	3	0	<1	2	135	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	5	1	4	2	27	135	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	0	4	2	23	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	1	2	1	22	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	0	2	1	17	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	0	0	1	<1	7	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	0	0	0	0	5	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Anchored	30	1	2	1	<1	14	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	2	3	0	1	1	9	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	0	0	1	<1	8	45	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	1	3	0	0	9	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	30	4	0	3	2	16	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	20	2	0	3	2	23	90	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	15	2	3	0	1	4	135	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	2	2	1	5	2	24	320	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	3	2	1	3	<1	16	155	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	4	1	0	1	0	1	15	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	4	1	0	3	<1	14	330	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	4	1	0	2.5	<1	12	275	0
Desgagnes/ Transartik	Acadia Desgagnes	Traveling	4	1	0	3	<1	13	220	0
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Traveling	55	0	n/a	3	1	4-5	135	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Traveling	40-50	0-1	n/a	3	1	7-8	185	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Traveling	4-5	2-4	n/a	2	1	3	110	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Traveling	25-30	1	n/a	1	0	3	300	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Traveling	10	1	n/a	1	0	3	320	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	25	0	n/a	0	0	2	335	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	15-20	1	n/a	0	0	n/a	Variant	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30-40	1	n/a	1	0.5	n/a	Variant	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30-40	0-1	n/a	0-1	0.5	3	225	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Traveling	20	1	1	(3-4)	1	(5-6)	280	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	(2-3)	(2-3)	n/a	1	0.5	4	135	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Traveling	<25	1	1	2	<1	3	200	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30-40	0	n/a	0	-1	5	0	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Traveling	20	1	1	3	1	5	0	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30-40	1	n/a	1	0.5	2	135	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	20-30	4	n/a	2	1	8	135	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	15-20	7	n/a	2	1	6	180	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	40	1	0	3	n/a	5	162	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	15-20	1	n/a	2	1	6	315	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	27	0	n/a	3	1	7	235	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	20-30	1	n/a	1	0.5	4	315	n/a

**Table A-2: Marine Mammal Sightings and Environmental Variables**

Company/Agency	Platform Name and Type	Platform Activity	Visibility (km)	Weather Code	Glare Conditions Code	Sea State Code	Wave Height (m)	True wind speed (knots)	True Wind Direction (deg)	Ice Type Code
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	n/a	0	n/a	4	2	11	325	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30	(0-1)	n/a	1	0.5	3	225	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Anchored	40	0	0	1	<0.5	n/a	180	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	30	1	n/a	1	1	4	240	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Anchored	40	1	0	2	<1	9	211	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	15	7	n/a	1	0.5	4	0	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Anchored	40	1	0	2	<1	9	211	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	20-30	0	n/a	1	0.5	3	0	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Anchored	40	1	0	3	1	18	199	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	Anchored	20-30	2	n/a	1	0.5	n/a	Variant	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	4	n/a	n/a	5	2-2.5	8	23	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Traveling	20	1	1	3	1	4	15	n/a
Desgagnes/ Transartik	Nordika Desgagnes	Traveling	45	n/a	0	3	0.2	4	305	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	Traveling	20	1	1	3	1	4	335	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Traveling	30	0/ 5	1	3	1	10	240	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Traveling	5	2	1	4	(1-2)	10	0	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Traveling	10	2	1	2	(0.25-0.5)	6	30	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	(1-2)	7	0	3	(0.25-0.5)	(30-45)	45	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	8	3	1	1	0.1	3	180	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	3	2	1	1	0.05	0-2	0	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	8	1	n/a	1	0.05	6	230	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a
Desgagnes/ Transartik	Zelada Desgagnes	Anchored	20	0	1	1	0.5	6	240	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilon  
 no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow),  
 6 (fog and rain), 7 ( snow); glare code; 0 (none), 1 (slight/grey), 2 (brigh  
 sea state code: 0 (calm, mirror-like, glassy), 1 (small wavelets, short bu  
 break; foam of glassy appearance; perhaps scattered white caps), 3 (s  
 waves with more pronounced form; many white caps; chance of some :  
 pieces), 3 (level piece 2 to 20 m across); Ice concentration; 0 (less thar



**Table A-2: Marine Mammal Sightings and Environmental Variables**

Company/Agency	Platform Name and Type	Ice Concentration Code	Platform Speed (Knots)	True Platform Direction (deg)	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count
Desgagnes/ Transartik	Acadia Desgagnes	0	11.5	320	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	11.6	298	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.9	294	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.8	298	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	0	13.8	n/a	Starboard	33.1	Indoors	Killer whale	1
Desgagnes/ Transartik	Acadia Desgagnes	0	12.2	245	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	13.2	290	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.3	249	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	10.4	295	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	10.2	294	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	9	318	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	133	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	124	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	110	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	20	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	80	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	110	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	88	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	82	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	78	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	15	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	15	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	0	18	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	13	113	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	13.4	73	Starboard	22	Indoors	Harp Seal	4
Desgagnes/ Transartik	Acadia Desgagnes	0	12.9	97	Starboard	22	Indoors	Killer whale	4
Desgagnes/ Transartik	Acadia Desgagnes	0	12.8	117	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	11.8	117	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.4	117	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	11.3	327	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	9.5	303	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.5	261	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	12.8	95	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	13.6	95	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Acadia Desgagnes	0	13	120	Starboard	22	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	12	280	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	14	280	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	13.5	248-282	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	12	pilotage	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	10	pilotage	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	n/a	13	227	Both	26.5	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	n/a	14	295	Both	26.5	Indoors	Bowhead whale	(3-4)
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	n/a	14	279	Both	26.5	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	n/a	12	280	Middle	n/a	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	n/a	11	183/003	Starboard	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a

**Table A-2: Marine Mammal Sightings and Environmental Variables**

Company/Agency	Platform Name and Type	Ice Concentration Code	Platform Speed (Knots)	True Platform Direction (deg)	Observation Side	Height of Eye (m)	Outdoors or Indoors	Species	Count
Desgagnes/ Transartik	Nordika Desgagnes	n/a	13	265	Starboard	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	0	0	158	Middle	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	0	n/a	2	Middle	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	0	2	n/a	Middle	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	0	n/a	n/a	Middle	24	Indoors	No Observations	n/a
Desgagnes/ Transartik	Thoreo Isadora/ General Cargo	n/a	n/a	n/a	Middle	30	Indoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	n/a	11.5	80	Starboard	27	Indoors	No Observations	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	n/a	13	76	Both	26.5	Outdoors	No Observations	n/a
Desgagnes/ Transartik	Nordika Desgagnes	n/a	15	118	Starboard	27	Indoors	No Observations	n/a
Desgagnes/ Transartik	Rosaire A Desgagnes	n/a	15	116	Both	26.5	Indoors	Killer whale	3
Desgagnes/ Transartik	Zelada Desgagnes	0	"12n/a13"	296	Starboard	40	Outdoors	Fin whale	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	12	255	Port	25	Outdoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	12.5	287	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	0	n/a	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	n/a	n/a	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	0	280	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	0	218	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	n/a	n/a	Middle	25	Indoors	No Observations	n/a
Desgagnes/ Transartik	Zelada Desgagnes	n/a	15	116	Middle	25	Indoors	No Observations	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Polar Bear	1
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Unidentified Land animal	2

Notes:

hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilon  
 no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow),  
 6 (fog and rain), 7 ( snow); glare code; 0 (none), 1 (slight/grey), 2 (brigh  
 sea state code: 0 (calm, mirror-like, glassy), 1 (small wavelets, short bu  
 break; foam of glassy appearance; perhaps scattered white caps), 3 (s  
 waves with more pronounced form; many white caps; chance of some :  
 pieces), 3 (level piece 2 to 20 m across); Ice concentration; 0 (less thar

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Weather	Species	Count
								Latitude	Longitude	Latitude	Longitude				
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	4:43	4:50	0:07	64.27523' N	95.8310' W	n/a	n/a	Traveling	Cloudy and Wind	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	19-Sep-19	Transect	20:30	0:30	4:00	65.01665'N	96.0669' W	64.27523' N	95.8310' W	Traveling	Cloudy and Windy (32 km)	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	9:19	10:40	1:21	64.29365'N	95.9519' W	64.27523'N	95.8310' W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	9:19	10:40	1:21	64.29365'N	95.9519' W	64.27523'N	95.8310' W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	9:19	10:40	1:21	64.29365'N	95.9519' W	64.27523'N	95.8310' W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	11:22	13:19	1:57	64.27523'N	95.8310' W	64.16149'N	94.9059' W	Traveling	Cloudy	SNGO	50
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	13:37	14:55	1:18	64.14579'N	94.7677' W	64.06137'N	94.3728' W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	13:37	14:55	1:18	64.14579'N	94.7677' W	64.06137'N	94.3728' W	Traveling	Cloudy	SNGO	10
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	13:37	14:55	1:18	64.14579'N	94.7677' W	64.06137'N	94.3728' W	Traveling	Cloudy	SNGO	15
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	13:37	14:55	1:18	64.14579'N	94.7677' W	64.06137'N	94.3728' W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	14:57	15:46	0:49	64.14092'N	94.4878' W	64.02216'N	94.3106' W	Traveling	Cloudy/Sunny	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	14:57	15:46	0:49	64.14092'N	94.4878' W	64.02216'N	94.3106' W	Traveling	Cloudy/Sunny	UNGU	3
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	14:57	15:46	0:49	64.14092'N	94.4878' W	64.02216'N	94.3106' W	Traveling	Cloudy/Sunny	Wolf	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	14:57	15:46	0:49	64.14092'N	94.4878' W	64.02216'N	94.3106' W	Traveling	Cloudy/Sunny	BAEA	1

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Weather	Species	Count
								Latitude	Longitude	Latitude	Longitude				
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	15:52	16:44	0:52	63.99508°N	94.1758° W	63.89815°N	93.8765° W	Traveling	Cloudy	CCGO	100
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	15:52	16:44	0:52	63.99508°N	94.1758° W	63.89815°N	93.8765° W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Transect	15:52	16:44	0:52	63.99508°N	94.1758° W	63.89815°N	93.8765° W	Traveling	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	20-Sep-19	Stationary	16:46	17:07	0:21	63.95809°N	93.7857° W	63.95809°N	93.7857° W	Anchored	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Stationary	7:56	8:57	1:01	63.93573°N	93.6254° W	63.93573°N	93.6254° W	Anchored	Cloudy/Rain/Windy	No Observations	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	BAEA	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	Fox	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	14:26	15:10	0:44	63.92356°N	93.9309°W	63.96582°N	94.0683°W	Traveling	Cloudy/Rain/Windy	UNHA	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	12:08	14:19	2:11	63.95983°N	93.7200° W	63.92667°N	93.9079° W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	12:08	14:19	2:11	63.95983°N	93.7200° W	63.92667°N	93.9079° W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:12	15:56	0:44	63.97460°N	94.0753° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:58	16:32	0:34	64.02211°N	94.3106° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	SNGO	60
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:58	16:32	0:34	64.02211°N	94.3106° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	UNHA	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:58	16:32	0:34	64.02211°N	94.3106° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	Muskox	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:58	16:32	0:34	64.02211°N	94.3106° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	UNDU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	15:58	16:32	0:34	64.02211°N	94.3106° W	64.02216°N	94.3106° W	Traveling	Cloudy/Windy	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	16:34	17:06	0:32	64.02216°N	94.3106° W	64.14092°N	94.4878° W	Traveling	Cloudy/Windy	SNGO	60
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	21-Sep-19	Transect	16:34	17:06	0:32	64.02216°N	94.3106° W	64.14092°N	94.4878° W	Traveling	Cloudy/Windy	SNGO	110
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Stationary	23:58	0:55	0:57	64.27523°N	95.8310° W	64.27523°N	95.8310° W	Anchored	Cloudy	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Stationary	23:58	0:55	0:57	64.27523°N	95.8310° W	64.27523°N	95.8310° W	Anchored	Cloudy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Transect	0:57	2:10	1:13	64.24140°N	95.5803° W	64.20480°N	95.2770° W	Traveling	Cloudy/Windy	No Observations	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Transect	2:12	4:01	1:49	64.19647°N	95.2086° W	64.14092°N	94.4818° W	Traveling	Cloudy/Windy	UNGU	1

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Weather	Species	Count
								Latitude	Longitude	Latitude	Longitude				
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Transect	2:12	4:01	1:49	64.19647°N	95.2086° W	64.14092°N	94.4818° W	Traveling	Cloudy/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Transect	2:12	4:01	1:49	64.19647°N	95.2086° W	64.14092°N	94.4818° W	Traveling	Cloudy/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	22-Sep-19	Transect	4:03	5:28	1:25	64.14092°N	94.4878° W	64.01850°N	94.3231° W	Traveling	Cloudy/Rain/Windy	No Observations	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	17:28	18:15	0:47	64.2602°N	94.3110° W	64.99352°N	94.3045° W	Traveling	Cloudy/light wind	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	17:28	18:15	0:47	64.2602°N	94.3110° W	64.99352°N	94.3045° W	Traveling	Cloudy/light wind	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	17:28	18:15	0:47	64.2602°N	94.3110° W	64.99352°N	94.3045° W	Traveling	Cloudy/light wind	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	17:28	18:15	0:47	64.2602°N	94.3110° W	64.99352°N	94.3045° W	Traveling	Cloudy/light wind	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	17:28	18:15	0:47	64.2602°N	94.3110° W	64.99352°N	94.3045° W	Traveling	Cloudy/light wind	Fox	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	18:16	19:01	0:45	63.99354°N	94.2679° W	63.94064°N	94.0227° W	Traveling	Cloudy/light wind	SNGO	100
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	18:16	19:01	0:45	63.99354°N	94.2679° W	63.94064°N	94.0227° W	Traveling	Cloudy/light wind	SNGO	40
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	18:16	19:01	0:45	63.99354°N	94.2679° W	63.94064°N	94.0227° W	Traveling	Cloudy/light wind	UNGO	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	18:16	19:01	0:45	63.99354°N	94.2679° W	63.94064°N	94.0227° W	Traveling	Cloudy/light wind	Rabbit	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	18:16	19:01	0:45	63.99354°N	94.2679° W	63.94064°N	94.0227° W	Traveling	Cloudy/light wind	SNGO	50
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	19:02	19:24	0:22	63.92788°N	93.9916° W	63.93515°N	93.8533° W	Traveling	Cloudy/light wind	SNGO	47
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	23-Sep-19	Transect	19:02	19:24	0:22	63.92788°N	93.9916° W	63.93515°N	93.8533° W	Traveling	Cloudy/light wind	Rabbit	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	24-Sep-19	Transect	16:10	17:18	1:08	63.93573°N	93.6254° W	63.95272°N	93.7945° W	Traveling	Cloudy/Rain/Windy	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	n/a	n/a	n/a	63.55.3°N	93.58.6° W	n/a	n/a	n/a	n/a	UNSW	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	CCGO	45
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNBI	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250°N	93.59.2258° W	64.07.9893°N	94.40.6292° W	Traveling	n/a	CORA	1

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Observers	Date	Survey Type	Time at Start	Time at End	Effort	Start		End		Platform Activity	Weather	Species	Count
								Latitude	Longitude	Latitude	Longitude				
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNGU	22
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNBI	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:40	14:31	2:51	63.55.5250'N	93.59.2258' W	64.07.9893'N	94.40.6292' W	Traveling	n/a	UNGO	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNGO	12
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	CCGO	35
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNDU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNGO	6
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	CCGO	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	UNDU	18
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	12:57	15:13	2:16	63.59.7763'N	94.12.7665' W	63.56.3544'N	93.37.0996' W	Traveling	n/a	CCGO	10
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	8:30	n/a	n/a	64.15.1000'N	95.39.1000' W	n/a	n/a	n/a	n/a	UNGO	30
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	21:28	21:40	0:12	64.12.524'N	95.17.1060' W	64.11.6213'N	95.10.2399' W	Travelling	n/a	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	21:28	21:40	0:12	64.12.524'N	95.17.1060' W	64.11.6213'N	95.10.2399' W	Travelling	n/a	UNGU	1
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:48	12:55	1:07	64.06.090'N	94.23.8322' W	63.59.7105090' N	94.13.7917' W	Travelling	n/a	UNDU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:48	12:55	1:07	64.06.090'N	94.23.8322' W	63.59.7105090' N	94.13.7917' W	Travelling	n/a	UNGU	6
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:48	12:55	1:07	64.06.090'N	94.23.8322' W	63.59.7105090' N	94.13.7917' W	Travelling	n/a	UNGO	5
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:48	12:55	1:07	64.06.090'N	94.23.8322' W	63.59.7105090' N	94.13.7917' W	Travelling	n/a	UNGU	2
Agnico-Eagle Meadowbank	Dara Desgagnes	David Turner	n/a	Transect	11:48	12:55	1:07	64.06.090'N	94.23.8322' W	63.59.7105090' N	94.13.7917' W	Travelling	n/a	UNGO	2

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator, km = kilometres, n/a = data not available; Distance code: B (51-100 m), D (201-300 m), E (>300 m); Behaviour code: 36 (aerial); Species: BAEA = Bald Eagle, CCGO = Cackling/Canada Goose, CORA = Common Raven, SNGO = Snow Goose, UNBI = Unidentified Bird, UNDU = Unidentified Duck, UNHA = Unidentified Hawk, UNSW = Unidentified Swan

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Sighting Coordinates (Lat/Long)		Fly or Water	Angle	Distance	Distance Code	Behaviour	Behaviour Code
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523' N	95.8310' W	Fly	0	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	65.01665'N	96.0669' W	Fly	45	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.30164'N	95.9538' W	Fly	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.30164'N	95.9538' W	Fly	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.29327'N	95.9534' W	Fly	135	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.30164'N	95.9538' W	Fly	45	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	Fly	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	Fly	0	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	Fly	0	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	Fly	0	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	Fly	0	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.28355'N	95.9141' W	water	325	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.26906'N	95.8217' W	Fly	325	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.18286'N	95.0813' W	n/a	270	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.12632'N	94.6161' W	n/a	225	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.11897'N	94.4882' W	n/a	305	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.11861'N	94.4437' W	n/a	225	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.11264'N	94.4089' W	n/a	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.14092'N	94.4878' W	n/a	45	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	n/a	115	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	n/a	90	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	n/a	155	>300	E	Aerial	36

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Sighting Coordinates (Lat/Long)		Fly or Water	Angle	Distance	Distance Code	Behaviour	Behaviour Code
Agnico-Eagle Meadowbank	Dara Desgagnes	63.99508'N	94.1758' W	Fly	25	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	Fly	25	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95279'N	94.0232' W	Fly	25	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95809'N	93.7857' W	Fly	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.9220'N	93.9872' W	n/a	90	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.93031'N	93.9989' W	Fly	135	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.93763'N	93.0160' W	Fly	325	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.94161'N	94.0243' W	Fly	45	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95188'N	94.0535' W	n/a	245	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95815'N	94.0639' W	Fly	155	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95983'N	93.7200' W	n/a	115	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95943'N	93.7310' W	n/a	155	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95279'N	94.0232' W	Fly	295	200-300	D	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02211'N	94.3106' W	n/a	90	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	Fly	270	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	n/a	180	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	Fly	245	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106' W	n/a	155	200-300	D	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.08917'N	94.38634'W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.02216'N	94.3106'W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	n/a	295	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.27523'N	95.8310' W	n/a	335	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.14577'N	94.7677' W	n/a	245	>300	E	Aerial	36



**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Sighting Coordinates (Lat/Long)		Fly or Water	Angle	Distance	Distance Code	Behaviour	Behaviour Code
Agnico-Eagle Meadowbank	Dara Desgagnes	64.14577'N	94.7677' W	n/a	155	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.14092'N	94.4878' W	n/a	205	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.01367'N	94.342' W	n/a	90	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.00218'N	94.3249' W	n/a	180	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.99554'N	94.3196' W	n/a	270	>300	E	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	64.99321'N	94.3130' W	n/a	0	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.99352'N	94.3045' W	n/a	0	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.99354'N	94.2679' W	n/a	245	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.99464'N	94.2411' W	n/a	115	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.98449'N	94.1039' W	n/a	65	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.96546'N	94.0672' W	n/a	205	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.95407'N	94.0570' W	n/a	0	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.92788'N	93.9916' W	n/a	270	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.92480'N	93.9205' W	n/a	295	>300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.93573'N	93.6254' W	n/a	335	51-100	B	Aerial	36
Agnico-Eagle Meadowbank	Dara Desgagnes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.55.5250'N	93.59.2258' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.3147'N	94.07.7283' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.4073'N	94.08.7071' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.4698'N	94.09.3345' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5054'N	94.10.1260' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5654'N	94.16.7032' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5306'N	94.17.1691' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5759'N	94.17.4710' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.6243'N	94.17.9435' W	n/a	n/a	n/a	n/a	n/a	n/a

**Table A-3: Incidental Wildlife Sightings Recorded during 2019 MMSO Program**

Company Agency	Platform Name and Type	Sighting Coordinates (Lat/Long)		Fly or Water	Angle	Distance	Distance Code	Behaviour	Behaviour Code
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5884'N	94.18.4358' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5667'N	94.18.8282' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.00.11551' N	94.19.4295' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.03.1652'N	94.20.0186' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.07.2180'N	94.33.8432' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.07.7032'N	94.38.2916' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.7763'N	94.12.7665' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.7906'N	94.11.4328' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.3949'N	94.08.3186' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.58.2149'N	94.04.1167' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.55.9318'N	94.00.0218' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.55.4811'N	93.58.9345' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.55.3899'N	93.55.6793' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.57.2609'N	93.46.7780' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.56.7316'N	93.39.2444' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.56.3364'N	93.38.9806' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.15.1000'N	95.39.1000' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.12.0716'N	95.13.8093' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.11.8333'N	95.11.9619' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	64.00.0619'N	94.19.4559' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.7098'N	94.19.0582' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5692'N	94.18.7105' W	n/a	n/a	n/a	n/a	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.6008'N	94.17.4575' W	n/a	n/a	<300	E	n/a	n/a
Agnico-Eagle Meadowbank	Dara Desgagnes	63.59.5916'N	94.16.3033' W	n/a	n/a	<300	E	n/a	n/a

Notes: hrs = hours of effort, UTM = Universal Transverse Mercator (aerial); Species: BAEA = Bald Eagle, CCGO = Cackling/Ca Unidentified Hawk, UNSW = Unidentified Swan

**APPENDIX B**

Data Sheets Recorded by  
Transport Desgagnés and Provided  
by Agnico Eagle Mines for Marine  
Mammal and Seabird Observations  
for the 2019 Shipping Season

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	1
Platform name and type	M/V Miena Desgagnés	Wave height (m)	0.2
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	5
Date (DD/MMM/YYYY)	26/06/2019	True wind direction (deg)	039
Time at start (UTC)	1342	Ice type code ★	2
Time at end (UTC)	1417	Ice concentration code ★	2/10
Latitude at start / end	60°24.0' N   60°24.0' N	True platform speed (knots)	0
Longitude at start / end	064°50' W   064°50' W	True platform direction (deg)	0
Platform activity	At Anchor	Observation side	Starboard Port
Visibility (km)	0.5	Height of eye (m)	25
Weather code	F	Outdoors or Indoors	Out or In
Glare conditions code ★	1	Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
Thick-billed Murre	12	water		50 m		Feed	-	-	-	-	

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➔ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	3
Platform name and type	M/V Miens Desgagnés	Wave height (m)	2.5
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	5
Date (DD/MMM/YYYY)	27/06/2019	True wind direction (deg)	130
Time at start (UTC)	1440	Ice type code ★	0
Time at end (UTC)	1517	Ice concentration code ★	0
Latitude at start / end	60° 24.1' N   60° 24.1' N	True platform speed (knots)	0
Longitude at start / end	064° 50.0' W   064° 50.0' W	True platform direction (deg)	0
Platform activity	at anchor	Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/>
Visibility (km)	30	Height of eye (m)	25
Weather code	5	Outdoors or Indoors	Out <input type="radio"/> or In <input checked="" type="radio"/>
Glare conditions code ★	1	Snapshot used?	Yes <input type="radio"/> or No <input checked="" type="radio"/>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Thick Billed Murre	9	water		100		Feed	-				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	1
Platform name and type	M/V Miens Desgagnés	Wave height (m)	0.5
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	5
Date (DD/MMM/YYYY)	28 10 2019	True wind direction (deg)	300
Time at start (UTC)	1205	Ice type code ★	8
Time at end (UTC)	1240	Ice concentration code ★	8
Latitude at start / end	62 05,9 N   62 07,9 N	True platform speed (knots)	6
Longitude at start / end	070 48,2 W   070 57,9 W	True platform direction (deg)	Variable
Platform activity	Sailing	Observation side	Starboard <input type="radio"/> Port <input checked="" type="radio"/>
Visibility (km)	30	Height of eye (m)	25
Weather code	b	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	1	Snapshot used?	Yes or <input checked="" type="radio"/> No

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
TRAVERS GULL	1	Fly		50			260	-	-		

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	1
Platform name and type			Wave height (m)	0,1
Observer (s)	A/B Charles-André Landrin		True wind speed (knots) OR Beaufort code ★	10
Date (DD/MMM/YYYY)	29/06/2019		True wind direction (deg)	270
Time at start (UTC)	16:07		Ice type code ★	0
Time at end (UTC)	16:41		Ice concentration code ★	0
Latitude at start / end	62° 36'	62° 33'	True platform speed (knots)	10,4
Longitude at start / end	079° 01'	079° 14'	True platform direction (deg)	260
Platform activity	Sailing		Observation side	Starboard Port <input checked="" type="checkbox"/>
Visibility (km)	30		Height of eye (m)	25 m
Weather code	b		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	1		Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Thick Billed Murre	1	Water		100 m		Happy	120				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés inc		Sea state code ★	2
Platform name and type	Miens Desgagnés moving vessel		Wave height (m)	0.5
Observer (s)	AB dandin Charles-André		True wind speed (knots) OR Beaufort code ★	7
Date (DD/MMM/YYYY)	June 30 2019		True wind direction (deg)	130
Time at start (UTC)	2230		Ice type code ★	0
Time at end (UTC)	2300		Ice concentration code ★	1/10
Latitude at start / end	62° 24.3' W	62° 24.2' W	True platform speed (knots)	5.6
Longitude at start / end	086° 44.9' W	086° 49.9' W	True platform direction (deg)	246
Platform activity	Sailing		Observation side	Starboard Port on the ship
Visibility (km)	10		Height of eye (m)	25
Weather code	bc		Outdoors or Indoors	Out or In
Glare conditions code ★	1		Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Petrel	1	ship		20m			-				
Falco											

★Refer to "Codes" datasheets



# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	3
Platform name and type	M/V Miens Desgagnés	Wave height (m)	1
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	4
Date (DD/MMM/YYYY)	01/10/2019	True wind direction (deg)	110
Time at start (UTC)	12 58	Ice type code ★	0
Time at end (UTC)	13 35	Ice concentration code ★	0
Latitude at start / end	62° 13' N   62° 10' N	True platform speed (knots)	9
Longitude at start / end	84° 51,6 W   85 05,6 W	True platform direction (deg)	240
Platform activity	Sailing	Observation side	Starboard <del>Port</del>
Visibility (km)	30	Height of eye (m)	25
Weather code	01r	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code ★	D	Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
Perigrin falcon	1	Ship		20							

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➔ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	3
Platform name and type	M/V Miens Desgagnés		Wave height (m)	1
Observer (s)	dandrin Charles-André		True wind speed (knots) OR Beaufort code ★	4
Date (DD/MM/YYYY)	02/07/2019		True wind direction (deg)	092°
Time at start (UTC)	1200		Ice type code ★	0
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	6220.00' N	6200.00' N	True platform speed (knots)	9
Longitude at start / end	091 18.6 W	091 38.1 W	True platform direction (deg)	264
Platform activity	Sailing		Observation side	Starboard Port
Visibility (km)	25		Height of eye (m)	25
Weather code	0		Outdoors or Indoors	Out or In
Glare conditions code ★	0		Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Peregrine Falcon	1	Shp		5°			-				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	3
Platform name and type	M/V Miena Desgagnés	Wave height (m)	1
Observer (s)	Landrin Charles-André	True wind speed (knots) OR Beaufort code ★	5
Date (DD/MMM/YYYY)	03/07/2019	True wind direction (deg)	096°
Time at start (UTC)	1345	Ice type code ★	1
Time at end (UTC)	1430	Ice concentration code ★	1
Latitude at start / end	62 22 N   62 22 N	True platform speed (knots)	0
Longitude at start / end	091 30 W   091 30 W	True platform direction (deg)	0
Platform activity	At Anchor	Observation side	Starboard (Port)
Visibility (km)	25	Height of eye (m)	25
Weather code	0.5	Outdoors or Indoors	Out or (In)
Glare conditions code ★	0	Snapshot used?	Yes or (No)

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
herring gull	2	fly		50			250				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	2
Platform name and type	MV Michel Desgagnés	Wave height (m)	0.5
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	3
Date (DD/MM/YYYY)	04/07/2019	True wind direction (deg)	049°
Time at start (UTC)	1503	Ice type code ★	1
Time at end (UTC)	1533	Ice concentration code ★	1
Latitude at start / end	62 22 N   62 22 N	True platform speed (knots)	0
Longitude at start / end	091 30 W   091 30 W	True platform direction (deg)	0
Platform activity	At Anchor	Observation side	Starboard Port
Visibility (km)	25	Height of eye (m)	25
Weather code	0	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	1	Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Thick-billed Murre	5	water		20			-				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	2
Platform name and type	MV Miana Desgagnés		Wave height (m)	0.5
Observer (s)	Dendrin Charles-André		True wind speed (knots) OR Beaufort code ★	4
Date (DD/MMM/YYYY)	05/07/2019		True wind direction (deg)	210
Time at start (UTC)	1227		Ice type code ★	1
Time at end (UTC)	1300		Ice concentration code ★	1
Latitude at start / end	6222 N	6222 N	True platform speed (knots)	0
Longitude at start / end	09130 W	09130 W	True platform direction (deg)	0
Platform activity	at anchor		Observation side	Starboard <u>Port</u>
Visibility (km)	25		Height of eye (m)	25
Weather code	bc		Outdoors or Indoors	Out or <u>In</u>
Glare conditions code ★	0		Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Black-crowned Gull	2	water		700			-				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transpère Desgagnés		Sea state code ★	3
Platform name and type	M/V Miena Desgagnés		Wave height (m)	1
Observer (s)	Xandrin Charles-André		True wind speed (knots) OR Beaufort code ★	4
Date (DD/MMM/YYYY)	06/07/2019		True wind direction (deg)	270
Time at start (UTC)	14 40		Ice type code ★	0
Time at end (UTC)	15 10		Ice concentration code ★	0
Latitude at start / end	62° 07' N	62° 07' N	True platform speed (knots)	0
Longitude at start / end	091° 48' W	091° 48' W	True platform direction (deg)	0
Platform activity	At anchor		Observation side	Starboard Port
Visibility (km)	25		Height of eye (m)	25
Weather code	C		Outdoors or Indoors	Out or In
Glare conditions code ★	1		Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
Common Eider	4	Fly		50			045			1 Mal 3 Fem	

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés inc	Sea state code ★	1
Platform name and type	Miena Desgagnés	Wave height (m)	0.5
Observer (s)	Charles-André Landrin	True wind speed (knots) OR Beaufort code ★	12
Date (DD/MMM/YYYY)	07/07/2009	True wind direction (deg)	232
Time at start (UTC)	1751	Ice type code ★	<del>010</del> CA <del>0</del>
Time at end (UTC)	1820	Ice concentration code ★	%
Latitude at start / end	61° 28.6' N   61° 32.6' N	True platform speed (knots)	12
Longitude at start / end	092° 49.7' W   092° 42.4' W	True platform direction (deg)	041°
Platform activity	Sailing vessel	Observation side	Starboard (Port)
Visibility (km)	10 km	Height of eye (m)	25
Weather code	0	Outdoors or Indoors	Out or (In)
Glare conditions code ★	1	Snapshot used?	Yes or (No)

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Herring Gull	1	Fly		50 m		66	180°				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➔ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	3
Platform name and type	M/V Miens Desgagnés		Wave height (m)	1
Observer (s)	dandrin Charles-André		True wind speed (knots) OR Beaufort code ★	4
Date (DD/MM/YYYY)	07/07/2019		True wind direction (deg)	277 127
Time at start (UTC)	1330		Ice type code ★	-
Time at end (UTC)	1402		Ice concentration code ★	-
Latitude at start / end	61 34 N	61 43 N	True platform speed (knots)	10
Longitude at start / end	092 39 W	092 22 W	True platform direction (deg)	104
Platform activity	Sailing		Observation side	Starboard <input checked="" type="radio"/> Port
Visibility (km)	30		Height of eye (m)	
Weather code	b		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	0		Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Thick Billed Murre	3	Water		100			-				

★Refer to "Codes" datasheets



# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➤ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	4
Platform name and type	M/V Miema Desgagnés		Wave height (m)	1.5
Observer (s)	dandrin Charles-André		True wind speed (knots) OR Beaufort code ★	6
Date (DD/MMM/YYYY)	08/07/2019		True wind direction (deg)	137
Time at start (UTC)	1229		Ice type code ★	1
Time at end (UTC)	1300		Ice concentration code ★	1
Latitude at start / end	62° 09' N	62° 09' N	True platform speed (knots)	0.3
Longitude at start / end	091° 56' W	091° 56' W	True platform direction (deg)	variable
Platform activity	Dredging		Observation side	Starboard Port
Visibility (km)	25		Height of eye (m)	25
Weather code	C		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	1		Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Common Frigate	3	Fly		30			067			Fem	

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	3
Platform name and type	M/V Miens Desgagnés	Wave height (m)	1
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	3
Date (DD/MM/YYYY)	09/07/2019	True wind direction (deg)	050
Time at start (UTC)	1820	Ice type code ★	—
Time at end (UTC)	1934	Ice concentration code ★	—
Latitude at start / end	62°10' N   62°10' N	True platform speed (knots)	—
Longitude at start / end	091°54' W   091°54' W	True platform direction (deg)	—
Platform activity	4E Anchor	Observation side	Starboard <u>Port</u>
Visibility (km)	05	Height of eye (m)	25
Weather code	F	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code ★	1	Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Thick Billed Murre	4	water		50			—				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➔ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	3
Platform name and type	M/V Miena Desgagnés	Wave height (m)	1
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	4
Date (DD/MMM/YYYY)	10 / 07 / 2019	True wind direction (deg)	254
Time at start (UTC)	1727	Ice type code ★	-
Time at end (UTC)	1800	Ice concentration code ★	-
Latitude at start / end	61 30 N   61 39 N	True platform speed (knots)	13
Longitude at start / end	092 29 W   092 15 W	True platform direction (deg)	079
Platform activity	Sailing	Observation side	<input checked="" type="radio"/> Starboard <input type="radio"/> Port
Visibility (km)	25	Height of eye (m)	25
Weather code	C	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	1	Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Glaucois Gull	2	water		100			-				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	transport Desgagnés	Sea state code ★	0
Platform name and type	Miena Desgagnés M/V	Wave height (m)	0,2
Observer (s)	Landrin Charles-André	True wind speed (knots) OR Beaufort code ★	12 knots
Date (DD/MM/YYYY)	11/07/2019	True wind direction (deg)	240
Time at start (UTC)	1826	Ice type code ★	0
Time at end (UTC)	1900	Ice concentration code ★	0
Latitude at start / end	62° 02,2' N   61° 58,8' N	True platform speed (knots)	11,7
Longitude at start / end	092° 20,6' W   092° 09,5' W	True platform direction (deg)	090
Platform activity	Sailing	Observation side	Starboard / <u>Port</u>
Visibility (km)	30	Height of eye (m)	25
Weather code	bc	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code ★	2	Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
COMMON EIDER	6	FLY		50			150	-	-	F	
COMMON EIDER	1	FLY		50			150			M	
COMMON EIDER	2	FLY		80			100			F	

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	1
Platform name and type	M/V Miens Desgagnés	Wave height (m)	0.5
Observer (s)	Dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	21.0 knots
Date (DD/MM/YYYY)	12/07/2019	True wind direction (deg)	210
Time at start (UTC)	1410	Ice type code ★	0
Time at end (UTC)		Ice concentration code ★	0
Latitude at start / end	61° 48.90' N	True platform speed (knots)	13
Longitude at start / end	092° 19.2' W	True platform direction (deg)	221
Platform activity	Sailing	Observation side	Starboard <u>Port</u>
Visibility (km)	15	Height of eye (m)	25
Weather code	C	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code ★	2	Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
Sabines Gull	1	FLY		100			040				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➤ Fill out one sheet per 30 min observation period

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	2
Platform name and type	M/V Miena Desgagnés	Wave height (m)	1
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	20 KTS
Date (DD/MMM/YYYY)	13 / 07 / 2017	True wind direction (deg)	206°
Time at start (UTC)		Ice type code ★	-
Time at end (UTC)		Ice concentration code ★	-
Latitude at start / end		True platform speed (knots)	13 KTS
Longitude at start / end		True platform direction (deg)	222°
Platform activity	SAILING	Observation side	Starboard <input checked="" type="radio"/> Port
Visibility (km)	15	Height of eye (m)	25
Weather code	bc	Outdoors or Indoors	<input checked="" type="radio"/> Out or In
Glare conditions code ★	2	Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
GOOSE	1	FLY		50			290				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	2
Platform name and type	M/V Miena Desgagnés	Wave height (m)	0.2
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	3
Date (DD/MMM/YYYY)	14 10 2019	True wind direction (deg)	221
Time at start (UTC)	1700	Ice type code ★	—
Time at end (UTC)	1730	Ice concentration code ★	—
Latitude at start / end	68 09 N   68 09 N	True platform speed (knots)	—
Longitude at start / end	092 34 W   092 34 W	True platform direction (deg)	—
Platform activity	at anchor	Observation side	Starboard Port
Visibility (km)	30	Height of eye (m)	25
Weather code	C	Outdoors or Indoors	Out or In
Glare conditions code ★	1	Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Canada Goose	3	Fly		100			030				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	1
Platform name and type	M/V Miens Desgagnés	Wave height (m)	0.1
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	17
Date (DD/MM/YYYY)	15 / 07 / 2019	True wind direction (deg)	241
Time at start (UTC)	0432	Ice type code ★	-
Time at end (UTC)	0500	Ice concentration code ★	-
Latitude at start / end	62 01   62 05	True platform speed (knots)	8.2
Longitude at start / end	092 09   091 54	True platform direction (deg)	036.4
Platform activity	Sailing	Observation side	Starboard Port <i>(initials)</i>
Visibility (km)	30	Height of eye (m)	25
Weather code	bc	Outdoors or Indoors	Out or <i>In</i>
Glare conditions code ★	0	Snapshot used?	Yes or <i>No</i>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Herring Gull	1	FLY		10			280				

★Refer to "Codes" datasheets



# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés	Sea state code ★	0
Platform name and type	M/V Miens Desgagnés	Wave height (m)	0
Observer (s)	dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	3
Date (DD/MMM/YYYY)	16 10 7 2019	True wind direction (deg)	280
Time at start ( UTC )	1802	Ice type code★	1910
Time at end (UTC )	1837	Ice concentration code ★	1910
Latitude at start / end	62 41	True platform speed (knots)	5.3
Longitude at start / end	091 35	True platform direction (deg)	094
Platform activity	Sailing	Observation side	Starboard Port <i>Middle</i>
Visibility (km)	30	Height of eye (m)	25
Weather code	bc	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code★	2	Snapshot used?	Yes or <u>No</u>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
Herring Gulls	7	both		20		fishing	↖				

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

Company/agency	Transport Desgagnés		Sea state code ★	2
Platform name and type	M/V Miens Desgagnés		Wave height (m)	0.3
Observer (s)	dandrin Charles-André		True wind speed (knots) OR Beaufort code ★	10
Date (DD/MM/YYYY)	17 10 2019		True wind direction (deg)	081
Time at start (UTC)	15 57		Ice type code ★	9/10
Time at end (UTC)	16 27		Ice concentration code ★	9/10
Latitude at start / end	62 34	62 38	True platform speed (knots)	6
Longitude at start / end	091 27	091 42	True platform direction (deg)	093
Platform activity	Sailing		Observation side	Starboard Port Middle
Visibility (km)	10		Height of eye (m)	25
Weather code	Fog		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code ★	2		Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
Herring Gull	5	both		20		Feed	-				

★Refer to "Codes" datasheets

STATIONARY

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

AGNICO EAGLE

➤ Fill out one sheet per 30 min observation period

**Observation Period Information:**

Company/agency	Transport Desgagnés		Sea state code ★	2
Platform name and type	M/V Miens Desgagnés		Wave height (m)	>1m.
Observer (s)	dandrin Charles-André		True wind speed (knots) OR Beaufort code ★	B-5
Date (DD/MMM/YYYY)	18 / 07 / 2019.		True wind direction (deg)	325
Time at start (UTC)	1400		Ice type code ★	11
Time at end (UTC)	1500		Ice concentration code ★	0
Latitude at start / end	62 46 N	62 46 N	True platform speed (knots)	∅
Longitude at start / end	092 06 W	092 06 W	True platform direction (deg)	315
Platform activity	ANCHORED - CARBO DIS.		Observation side	Starboard Port
Visibility (km)	>10M.		Height of eye (m)	25m.
Weather code	bc		Outdoors or Indoors	Out or In
Glare conditions code ★	∅		Snapshot used?	Yes or No

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	★ Distance <sup>1</sup>	Assoc.	Behav.	★ Flight Direc. <sup>2</sup>	★ Age <sup>3</sup>	★ Plum. <sup>4</sup>	Sex	Comments
<del>_____</del>											
<del>_____</del>											
<del>_____</del>											
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★Refer to "Codes" datasheets

STATIONARY

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➤ Fill out one sheet per 30 min observation period

AGNICO EAGLE

**Observation Period Information:**

Company/agency	Transport Desgagnés	Sea state code ★	2
Platform name and type	ULV Miens Desgagnés	Wave height (m)	<1m
Observer (s)	Dandrin Charles-André	True wind speed (knots) OR Beaufort code ★	B-4
Date (DD/MMM/YYYY)	19 / 07 / 2019	True wind direction (deg)	320
Time at start (UTC)	1800	Ice type code ★	11
Time at end (UTC)	1900	Ice concentration code ★	0
Latitude at start / end	62°46' W   62°46' W	True platform speed (knots)	0
Longitude at start / end	092°06' W   092°06' W	True platform direction (deg)	312
Platform activity	Networked - canals ops	Observation side	Starboard Port
Visibility (km)	>10	Height of eye (m)	25m
Weather code	bc	Outdoors or Indoors	Out or In
Glare conditions code ★	0	Snapshot used?	Yes or No

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	* Flight Direc. <sup>2</sup>	* Age <sup>3</sup>	* Plum. <sup>4</sup>	Sex	Comments
HEBt	4	BOTH	NO	/	/	27	090	/	/	F/M	

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – STATIONARY VESSEL

AGNICO EAGLE

➔ Fill out one sheet per observation period

Company/agency	TRANSPORT DESEALWERS.	Weather code★	C
Platform name and type	MIRVA OPERATIONS.	Glare conditions code ★	Ø
Observer (s)	J. OXFORD.	Sea state code ★	2
Date (DD/MMM/YYYY)	20 - 07 - 2019.	Wave height (m)	21m.
Time at start (UTC)	1830	True wind speed (knots) OR Beaufort code ★	B-4
Latitude	6246N	True wind direction (deg)	000.
Longitude	09206W.	Ice type code ★	11.
Platform activity	ASCTOL - CARBO OPS.	Ice concentration code★	Ø.
Scan type	180° or other (specify: )	Height of eye (m)	25m
Scan direction	NORTH.	Outdoors or Indoors	Out or <u>In</u>
Visibility (km)	>10.		

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<del>NIL</del>											

★Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DES GAGNES	Sea state code	2
Platform name and type	ZELADA DESGAGNES	Wave height (m)	0.6
Observer (s)	AB, cadet and officer (2)	True wind speed (knots) OR	2
Date (DD/MM/YYYY)	12/07/2014	Beaufort code	VAR
Time at start (UTC)	1700	True wind direction (deg)	VAR 5
Time at end (UTC)	2000	Ice type code	5 0
Latitude at start / end	61°18.0'N   61°37.4'N	Ice concentration code	0 13.4
Longitude at start / end	068°14.1'W   069°26.3'W	True platform speed (knots)	13.4 295
Platform activity	TRANSIT TO RANKIN INLET	True platform direction (deg)	Starboard (Port) Both
Visibility (km)	50 km	Observation side	~30m
Weather code	0	Height of eye (m)	(Out) or (In) Both
Glare conditions code	2	Outdoors or Indoors	Yes or (No)
		Snapshot used?	

*Notes:* Birds mostly rest on small bergy and Iceberg. Few only were seen flying (variable direction)

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
NOFU	00+	Fly/w	YES	A-D			N/A	A	M	F/M		
TBMU	00+	Fly/w	YES	A-D			N/A	R	M	F/M		

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



**MMSO training attendance sheet**

**Topic: MMSO procedures**

**Date:**

**Compagny: Desgagnés**

**Boat :**

**Signature**

**Name (Print)**

Emmanuel Maubert

Valérie Caron

Nicolas Brunelle

Desmond Inaksajak

Simon Kodlerkolerk

Emmanuel Maubert

Valérie Caron

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

Simon Peter

*[Handwritten signature]*

*[Handwritten signature]*

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Desgagnés Marine Corp.	Sea state code	3
Platform name and type	THORCO ISADORA	Wave height (m)	1m
Observer (s)	Desmond Inaksajak	True wind speed (knots) OR Beaufort code	4-5
Date (DD/MM/YY)	26/09/2019	True wind direction (deg)	SE (130°)
Time at start (UTC)	10:00 Hour	Ice type code	None
Time at end (UTC)	12:00 Hour	Ice concentration code	—
Latitude at start / end	60° 28.49    60° 32.31	True platform speed (knots)	12 knots
Longitude at start / end	064° 14.59    064° 59.87	True platform direction (deg)	280°
Platform activity		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/>
Visibility (km)	55 KM	Height of eye (m)	30
Weather code	0	Outdoors or Indoors	Out <input type="radio"/> In <input checked="" type="radio"/>
Glare conditions code		Snapshot used?	Yes <input type="radio"/> No <input checked="" type="radio"/>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Herring Gull	1	fly		5 m		scavenging	035° head	—	—		Appears to be following
Herring Gull	1	fly		70 m		Scavenging	307° head	—	—		Appears to be following
Herring Gull	1	fly		10 m		Scavenging	—	—	—		Appears to be following
Herring Gull	5	fly		90 m		Scavenging	—	—	—		Following as a Group
Herring Gull	9	fly		90 m		Scavenging	—	—	—		Following as a Group
Herring Gull	3	fly		100 m		Scavenging	—	—	—		Following as a Group
Herring Gull	11	fly		50 to 150 m		Scavenging	—	—	—		Scattered Group following
Herring Gull	15	fly		30 to 150 m		Scavenging	—	—	—		Scattered Group following
Herring Gull	120+	water		50 to 120 m		Swimming	—	—	—		Same Group
Herring Gull	2	fly		150 m		Scavenging	—	—	—		
Herring Gull	10	fly		150 m		Scavenging	—	—	—		Multiplying Group following
Herring Gull	3	fly		100 m		Scavenging	—	—	—		Following

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)



## Record sheet for a moving platform survey

**Observation Period Information:**

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

Desgagnis Transarctic	
Thorco Isadora / General cargo	
Desmond Inaksajak	
27/09/2014	
10:00 h → 1400 z	
12:00 h → 1600 z	
62° 24.41	62° 24.47
074° 43.86	075° 41.28
Underway	
40 ~ 50 km	
0-1	

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?

3
1 m
7-8
180°
None
None
14 knts
284°
<input checked="" type="radio"/> Starboard <input checked="" type="radio"/> Port
30
<input type="radio"/> Out <input checked="" type="radio"/> In
<input type="radio"/> Yes <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Herring Gull	1	fly		400m		Scavenging					
Herring Gull	1	fly over water?		200m		Observing					

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Deeppani's Transcortile	Sea state code	2
Platform name and type	Therda Isadora / gantung pasang	Wave height (m)	1
Observer (s)	Desmond Inaksajak	True wind speed (knots) OR Beaufort code	3
Date (DD/MMM/YYYY)	28/09/2019	True wind direction (deg)	110°
Time at start ( UTC )	<del>10:00</del> 14:00 UTC	Ice type code	None
Time at end (UTC )	16:00 UTC	Ice concentration code	None
Latitude at start / end	62°49.58      62°53.95	True platform speed (knots)	13.5
Longitude at start / end	085°16.50      086°15.50	True platform direction (deg)	248 - 282
Platform activity	Underway	Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/>
Visibility (km)	4~5	Height of eye (m)	30
Weather code	2-4	Outdoors or Indoors	Out <input type="radio"/> or In <input checked="" type="radio"/>
Glare conditions code		Snapshot used?	Yes <input type="radio"/> or No <input checked="" type="radio"/>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HerringGull	1	fly		300 m		Scavenging					
HerringGull	1	fly		200 m		Scavenging					
HerringGull	1	fly		400 m		Scavenging					
TBMU	1	water		100 m		Swimming					
HERG	2	fly		100 m		Scavenging					
HERG	1	fly		100 m		Scavenging					
HERG	1	fly		400 m		Scavenging					

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Desguines Transarctica	Sea state code	1
Platform name and type	Thores Isabore	Wave height (m)	0
Observer (s)	Desmond Inaksajak	True wind speed (knots) OR Beaufort code	3
Date (DD/MM/YYYY)	30/09/2019	True wind direction (deg)	300°
Time at start (UTC)	16:00 UTC	Ice type code	None
Time at end (UTC)	20:00 UTC	Ice concentration code	None
Latitude at start / end	63° 31.69   63° 45.11	True platform speed (knots)	12 Knot
Longitude at start / end	091° 01.32   092° 16.42	True platform direction (deg)	Piloting
Platform activity	Underway	Observation side	Starboard <u>Port</u>
Visibility (km)	25-30	Height of eye (m)	30m.
Weather code	1	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code		Snapshot used?	Yes or <u>No</u>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Herringgull	1	fly		300m		Scavenging					
COLO	1	fly		200m		Scavenging					
Falcon	1	fly		100m		Scavenging					
HERG	1	fly		400m		Scavenging					
GIGU	1	fly		200m		Scavenging					
<del>HERG</del>	<del>1</del>	<del>fly</del>									

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Desmond Inaksajak	True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	18/10/2019	True wind direction (deg)	
Time at start (UTC)	16:00 UTC	Ice type code	
Time at end (UTC)	18:00 UTC	Ice concentration code	
Latitude at start / end	62° 26.54    62° 39.03	True platform speed (knots)	
Longitude at start / end	080° 50.40    079° 49.37	True platform direction (deg)	
Platform activity		Observation side	Starboard    Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out    or    In
Glare conditions code		Snapshot used?	Yes    or    No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Common loon	3	fly		100m		Travelling					
Thick billed murre	4	fly		100m		Travelling					
Thick billed murre	5	fly		150m		Scavenging					
HERG	1	fly		150m		Scavenging					
Thick billed murre	1	fly		150m		Travelling					
HERG	4	fly		150m		Scavenging					
Common loon	14	fly		100m		Travelling					Seems to be following
HERG	2	fly		100m		Travelling					
Thick billed murre	1	fly		100m		Travelling					looks like searching for the pack
Thick billed murre	2	water		100m		Hunting					birds dive down to hunt
Northern fulmar	1	fly		70m		Travelling					
Thick billed murre	7	fly		300m		Travelling					
HERG	1	fly		100m		Scavenging					
Thick billed murre	1	fly		100m		Scavenging					
common loon	3	fly		150m		Travelling					
Thick billed murre	4	fly		150m		Travelling					
Northern fulmar	3	fly		150m		Scavenging					
HERG	1	fly		100m		Travelling					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	<i>Desgagnis Transarctic</i>	Sea state code	<i>1</i>
Platform name and type	<i>Therion Isabela</i>	Wave height (m)	<i>0</i>
Observer (s)	<i>Simon Peter</i>	True wind speed (knots) OR Beaufort code	<i>3</i>
Date (DD/MM/YY)	<i>30/09/2019</i>	True wind direction (deg)	<i>320°</i>
Time at start (UTC)	<i>20:00 UTC</i>	Ice type code	<i>None</i>
Time at end (UTC)	<i>23:05 UTC</i>	Ice concentration code	<i>None</i>
Latitude at start / end	<i>63° 45.1    63° 57.6</i>	True platform speed (knots)	<i>10 Knot</i>
Longitude at start / end	<i>092° 19.5    093° 32.4</i>	True platform direction (deg)	<i>Pilgrage</i>
Platform activity	<i>Underway</i>	Observation side	<u>Starboard</u> Port
Visibility (km)	<i>10 km</i>	Height of eye (m)	<i>30m</i>
Weather code	<i>1</i>	Outdoors or Indoors	Out or <u>In</u>
Glare conditions code		Snapshot used?	Yes or <u>No</u>

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<i>HERG</i>	<i>1</i>	<i>FLY</i>		<i>100m</i>		<i>scavenging</i>					
<i>HERG</i>	<i>1</i>	<i>FLY</i>		<i>50m</i>		<i>scavenging</i>					
<i>HERG</i>	<i>2</i>	<i>water</i>		<i>100m</i>		<i>scavenging</i>					

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Simon Peter	True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	17/0ct/2019	True wind direction (deg)	
Time at start (UTC)	14:26	Ice type code	
Time at end (UTC)	15:58	Ice concentration code	
Latitude at start / end	63° 53.2   63° 45.1	True platform speed (knots)	
Longitude at start / end	092° 55.4   092° 22.3	True platform direction (deg)	
Platform activity		Observation side	Starboard Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code		Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
DUCK	1	Fly		50m							
HERG	1	Fly		200m							

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

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Desmond Inaksajak	True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	17/10/2019	True wind direction (deg)	
Time at start ( UTC )	16:00 UTC	Ice type code	
Time at end (UTC )	20:09 UTC	Ice concentration code	
Latitude at start / end	63° 45.10   63° 26.54	True platform speed (knots)	
Longitude at start / end	092° 20.42   090° 47.88	True platform direction (deg)	
Platform activity		Observation side	Starboard   Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out   or   In
Glare conditions code		Snapshot used?	Yes   or   No

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	1	fly		300m		Scavenging					
HERG	1	fly		50m		Scavenging					Followed for 10m then flew away

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Simon Peter	True wind speed (knots) OR Beaufort code	
Date (DD/MMM/YYYY)	18/Oct/2019	True wind direction (deg)	
Time at start (UTC)	13:59	Ice type code	
Time at end (UTC)	16:00	Ice concentration code	
Latitude at start / end	62° 11.4      62° 26.2	True platform speed (knots)	
Longitude at start / end	081° 53.5      080° 51.7	True platform direction (deg)	
Platform activity		Observation side	Starboard    Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out    or <input checked="" type="radio"/>
Glare conditions code		Snapshot used?	Yes    or <input checked="" type="radio"/>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
LTJA	4	<del>FLY</del>		200m							
COLO	8	FLY		400m							
POJA	1	FLY		250m							
PALO	1	water		100m							
COLO	2	FLY		300m							
DUCK	2	FLY		400m							
HERG	3	water		200m							
LTJA	2	FLY		100m							
HERG	1	FLY		100m							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)



## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Simon Peter	True wind speed (knots) OR Beaufort code	
Date (DD/MM/YYYY)	19/Oct/2019	True wind direction (deg)	
Time at start (UTC)	13:59	Ice type code	
Time at end (UTC)	15:59	Ice concentration code	
Latitude at start / end	61°06.3    61°01.9	True platform speed (knots)	
Longitude at start / end	069°33.7    068°33.1	True platform direction (deg)	
Platform activity		Observation side	Starboard    Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out    or    In
Glare conditions code		Snapshot used?	Yes    or    No

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	1	Fly		300m							
HERG	1	Fly		500m							
NOFU	1	Fly		100m							
NOFU	1	Fly		400m							
BLIS	2	Fly		200m							
GLAU	2	Fly		50m							
HERG	2	Fly		100m							
BLIS	4	Fly		500m							
GLGU	1	Fly		30m							
HERG	2	Fly		50m							
BLIS	6	Fly		300m							
GLGU	2	Water		100m							
NOFU	2	Water		150m							
DUCK	2	Fly		400m							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)	Desmond Inuksajak	True wind speed (knots) OR Beaufort code	
Date (DD/MM/YYYY)	19/10/2019	True wind direction (deg)	
Time at start (UTC)	16:00 UTC	Ice type code	
Time at end (UTC)	18:02 UTC	Ice concentration code	
Latitude at start / end	61° 71.09   60° 51.64	True platform speed (knots)	
Longitude at start / end	068° 32.09   067° 32.91	True platform direction (deg)	
Platform activity		Observation side	Starboard   Port
Visibility (km)		Height of eye (m)	
Weather code		Outdoors or Indoors	Out   or   In
Glare conditions code		Snapshot used?	Yes   or   No

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
COLO	1	Fly		100m		Travelling					
TBMU	4	Fly		150m		Travelling					
TBMU	5	Fly		100m		Scavenging					
NOFU	1	Fly		50m		Scavenging					
TBMU	2	Fly		150m		Travelling					
TBMU	1	Fly from water		150m		Scavenging					
NOFU	1	Fly		50m		Scavenging					
HERG	1	Fly		150m		Scavenging					
GLGU	1	Fly		50m		Scavenging					
Ruddy Turnstone	1	Deck		0m		on board					Bird appears to be on board
TBMU	3	Fly		200m		Travelling					
TBMU	4	Fly		50m		Travelling					
GLGU	4	Fly		100m		Scavenging					
HERG	2	Fly		150m		Scavenging					
TBMU	1	Fly		150m		Travelling					
GLGU	1	Fly		50m		Scavenging					
HERG	1	Fly		200m		Scavenging					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(out)

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctik		Sea state code ★	3
Platform name and type	Thorco Isadore / General Cargo		Wave height (m)	1m
Observer (s)	Desmond Inaksojak		True wind speed (knots) OR ★ Beaufort code	4-5
Date (DD/MMM/YYYY)	26/09/2019		True wind direction	135°
Time at start (UTC)	1400		Ice type code ★	None
Time at end (UTC)	1600		Ice concentration code ★	None
Latitude at start / end	60° 28.3' N	60° 32.4' N <del>66°</del>	True platform speed (knots)	12 knts
Longitude at start / end	064° 14.4' W	065° 00.2' W	True platform direction	280°
Visibility (km)	55 km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0		Height of eye (m)	30
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Underway		Notes	No observations

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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:	<i>No observations</i>										

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnis Transarctik		Sea state code ★	3
Platform name and type	Three Isidor / general Cargo.		Wave height (m)	1m
Observer (s)	Desmond Inaksajak		True wind speed (knots) OR ★ Beaufort code	7-8
Date (DD/MMM/YYYY)	27/09/2019		True wind direction	185°
Time at start (UTC)	1400 Z		Ice type code ★	None
Time at end (UTC)	1600 Z		Ice concentration code ★	None
Latitude at start / end	62° 24.41	62° 24.47	True platform speed (knots)	14 Knt
Longitude at start / end	074° 43.86	075° 41.28	True platform direction	280°
Visibility (km)	40-50 Km.		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0-1		Height of eye (m)	30 m.
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Underway		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No Observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Dergagnis Transarctic		Sea state code ★	2
Platform name and type	None / general cargo		Wave height (m)	1
Observer (s)	Desmond Inuksojak		True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	28/09/2019		True wind direction	110°
Time at start (UTC)	1400 utc		Ice type code ★	None
Time at end (UTC)	1600 utc		Ice concentration code ★	None
Latitude at start / end	62°49.6'N		True platform speed (knots)	13.5
Longitude at start / end	085°16.8'W		True platform direction	248 - 282
Visibility (km)	4.5 km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	2-4		Height of eye (m)	30
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Underway		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnis Transarctic		Sea state code ★	1
Platform name and type	Thoro Isadora / General Cargo		Wave height (m)	0
Observer (s)	Desmond Inaksogak		True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	30/09/2019		True wind direction	300°
Time at start (UTC)	16:00		Ice type code ★	None
Time at end (UTC)	20:00		Ice concentration code ★	None
Latitude at start / end	63° 31.7'N	63° 45.1'N	True platform speed (knots)	~ 12 knt
Longitude at start / end	091° 01.32'W	092° 16.4'W	True platform direction	Pilotage
Visibility (km)	25-30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out            or <u>In</u>
Platform Activity	Pilotage		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State ★	Re-sighting? (Y or N)	Sighting Method 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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnis / Transarctik		Sea state code ★	1
Platform name and type	Thores Isadorus / General Cargo		Wave height (m)	0
Observer (s)	Simon Peter		True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MM/YYYY)	30 / 09 / 2019		True wind direction	320°
Time at start (UTC)	20 00		Ice type code ★	None
Time at end (UTC)	23:05		Ice concentration code ★	None
Latitude at start / end	63°45.1'N	63°57.4'N	True platform speed (knots)	~ 10 knot
Longitude at start / end	092° 19.5'W	093° 35.1'W	True platform direction	Pilotage
Visibility (km)	10 km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30 m
Glare conditions code ★			Outdoors or Indoors	Out            or <u>In</u>
Platform Activity	Pilotage		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel/Travel Direction and Speed	Weather: Sea State ★	No. Sighting (Y or N)	Sighting Equipment or LIDAR/Photogrammetry (GPS)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Behavior/Travel Direction ★	Age/Sex	Biopsy Required?	Photo Number (if any)
Notes: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnés Transarctik	Sea state code ★	0
Platform name and type	Thoro Isadore / General cargo	Wave height (m)	0
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	2
Date (DD/MMM/YYYY)	01 / 10 / 2019	True wind direction	WNW
Time at start (UTC)	17 00	Ice type code ★	None
Time at end (UTC)	19 00	Ice concentration code ★	None
Latitude at start / end	63° 57.4' W	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	25 km	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0	Height of eye (m)	30m
Glare conditions code ★		Outdoors or indoors	Out            or <u>In</u>
Platform Activity	Anchor unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel/Travel Direction and Speed	Weather / Sea State ★	Re-Sighting? (Y or N)	Sighting Equipment or LID/Lone/Gemma GPS	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Behavior/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➔ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnis Transarctique	Sea state code ★	0
Platform name and type	Thoreo Isabelairei / General cargo	Wave height (m)	0
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	Lt airs
Date (DD/MMM/YYYY)	02 / 10 / 2019	True wind direction	VAR
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4'N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1'W	True platform direction	
Visibility (km)	15-20	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1	Height of eye (m)	30m
Glare conditions code ★		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnis Transarctique	Sea state code ★	1
Platform name and type	Thoro Isabella / Generell Carage	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	LT airs
Date (DD/MMM/YYYY)	03 / 10 / 2019	True wind direction	VAR
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	30 - 40	Observation side	Starboard    Port    Middle
Weather code ★	1	Height of eye (m)	30m
Glare conditions code ★		Outdoors or indoors	Out                      or                      In
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather * Sea State	Re-Sighting? (Y or N)	Sighting Trips/Point or Lat/Long (Datum 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: No observations

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnis Transarctic	Sea state code ★	0-1
Platform name and type	Thorice Isadora / General cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	04 / 10 / 2019	True wind direction	SW
Time of start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.8' W	True platform direction	
Visibility (km)	30-40	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0-1	Height of eye (m)	30 m.
Glare conditions code ★		Outdoors or indoors	Out                    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Visual Travel Direction and Speed	Weather* Star	No. Sightings (2 or 3)	Sighting Distance or Underwater Depth (m)	Species, Number of Individuals, Star	Distance to Animal (m) or Size	Angle to Sighting	Behavior/Travel Direction, Star	Age/Sex	Observation Required?	Photo Number (if any)
Notes: <i>No observations.</i>											

\* Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dergagnis Transatlantic	Sea state code ★	1
Platform name and type	Thor / General Fsubore / cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	05 / 10 / 2019	True wind direction	SE
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	2-3	Observation side	Starboard      Port <u>Middle</u>
Weather code ★	2-3	Height of eye (m)	30
Glare conditions code ★		Outdoors or indoors	Out      or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Transit Direction and Speed	Weather/Sea State ★	Re Sighting? (Y or N)	Starting Stop/End or Lat/Long/Depth (GPS)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Observer/Vessel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnés Transarctik	Sea state code ★	0
Platform name and type	Truco Isalora / General cargo	Wave height (m)	-1
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	5
Date (DD/MMM/YYYY)	06 / 10 / 2019	True wind direction	N
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W	True platform direction	
Visibility (km)	30-40	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0	Height of eye (m)	30m
Glare conditions code ★		Outdoors or indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➔ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather * Sea State *	Re-Sighting? (Y or N)	Sighting Type and/or Last Observed in GPS	Species, Number of Individuals *	Distance to Animal (m or km)	Angle to Sighting	Behavior/Terrace Direction *	Age/Sex	Migration Required?	Photo Number (if any)

Notes: *No observations*

\* Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnés Transatlantique	Sea state code ★	1
Platform name and type	Thorco / General cargo Isabereu / cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	2
Date (DD/MM/YY)	07 / 10 / 2019	True wind direction	SE
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W	True platform direction	
Visibility (km)	30 - 40	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1	Height of eye (m)	30 m
Glare conditions code ★		Outdoors or indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Name, Direction and Speed	Weather & Sea State ★	No. Sighting (Y or N)	Sighting Equipment or LUL (Laser/Thermal GPS)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Observation/Travel Direction ★	Age/Sex	Biopsy Required?	Photo Number (if any)
Notes: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dorsgagnus Transarctic	Sea state code ★	2
Platform name and type	Thorco / Isalora / Camwell / Cerigo	Wave height (m)	1m
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	8
Date (DD/MM/YYYY)	08/10/2019	True wind direction	SE
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.8' W	True platform direction	
Visibility (km)	20-30	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	4	Height of eye (m)	30m
Glare conditions code ★		Outdoors or indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather & Sea State ★	Re-sighting? (Y or N)	Sighting Waypoint or Lat/Long/Guarin 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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctik		Sea state code ★	2
Platform name and type	Thores Isabela / General cargo		Wave height (m)	1m
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	6
Date (DD/MMM/YYYY)	09 / 10 / 2019		True wind direction	South
Time at start (UTC)	1700		Ice type code ★	None
Time at end (UTC)	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W		True platform direction	
Visibility (km)	15-20		Observation side	Starboard <input type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/>
Weather code ★	7		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out <input type="checkbox"/> or <input type="checkbox"/> In <input type="checkbox"/>
Platform Activity	No operations		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

\* Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	<i>Dergaignes Transantique</i>	Sea state code ★	<i>2</i>
Platform name and type	<i>Thorce Isabelle / General Cargo</i>	Wave height (m)	<i>1</i>
Observer (s)	<i>Nicolas Brunelle</i>	True wind speed (knots) OR ★ Beaufort code	<i>6</i>
Date (DD/MMM/YYYY)	<i>10 / 10 / 2019</i>	True wind direction	<i>Nw</i>
Time at start ( UTC )	<i>1700</i>	Ice type code ★	<i>None</i>
Time at end (UTC )	<i>1900</i>	Ice concentration code ★	<i>None</i>
Latitude at start / end	<i>63° 57.4'N</i>	True platform speed (knots)	<i>Anchor</i>
Longitude at start / end	<i>093° 35.2'W</i>	True platform direction	
Visibility (km)	<i>15-20</i>	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	<i>1</i>	Height of eye (m)	<i>30m</i>
Glare conditions code ★		Outdoors or Indoors	Out                      or <u>In</u>
Platform Activity	<i>No operations</i>	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Transit 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/Transit Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: <i>No observations.</i>											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dergagnus Transarctite	Sea state code ★	1
Platform name and type	Thorco Isadora / General cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MM/YY)	11/10/2019	True wind direction	NW
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	20-30	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1	Height of eye (m)	30m
Glare conditions code ★		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	No operations	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State ★	Re-Sighting? (Y or N)	Sighting Method or LULL (Longitude/Latitude 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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dorogues Transarctic	Sea state code ★	1
Platform name and type	Thores Isadore / General Curge	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	12 / 10 / 2019	True wind direction	See
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	693° 35.2' W	True platform direction	
Visibility (km)	30	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0 - 1	Height of eye (m)	30m
Glare conditions code ★		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctik		Sea state code ★	1
Platform name and type	Thorco Isadora / General cargo		Wave height (m)	1
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	13 / 10 / 2019		True wind direction	SW (240)
Time at start (UTC)	1700		Ice type code ★	None
Time at end (UTC)	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.3'N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1'W		True platform direction	
Visibility (km)	30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnis Transarctic	Sea state code ★	1
Platform name and type	Thoro ISADORA / General Cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	14 / 10 / 2019	True wind direction	W
Time at start ( UTC )	17 00	Ice type code ★	None
Time at end (UTC )	19 00	Ice concentration code ★	None
Latitude at start / end	63° 57.1' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.3' W	True platform direction	
Visibility (km)	~ 15	Observation side	Starboard      Port      Middle
Weather code ★	7	Height of eye (m)	30
Glare conditions code ★		Outdoors or Indoors	Out      or      In
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnés Transarctik	Sea state code ★	1
Platform name and type	Thorco Isadore / General cargo	Wave height (m)	0.5m
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	15/10/2019	True wind direction	N
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63°57.2'N	True platform speed (knots)	—
Longitude at start / end	093°35.1'W	True platform direction	—
Visibility (km)	20 - 30	Observation side	Starboard    Port <u>  Middle  </u>
Weather code ★	0	Height of eye (m)	30
Glare conditions code ★		Outdoors or Indoors	Out            or <u>  In  </u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnus Transarctique		Sea state code ★	1
Platform name and type	Thorco ISADORA / General catge		Wave height (m)	0.5m
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	LT aines
Date (DD/MM/YYYY)	16 / 10 / 2019		True wind direction	VAR
Time at start (UTC)	63° 57, 2' W		Ice type code ★	None
Time at end (UTC)	093° 35, 1' W		Ice concentration code ★	None
Latitude at start / end	17 00 Z		True platform speed (knots)	
Longitude at start / end	19 00 Z		True platform direction	
Visibility (km)	20 - 30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	2		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out            or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

\* Refer to "Codes" datasheets

## 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)

Desgagnés Marine Cargo
THORCO ISADORA
Desmond Iraksajak
29/09/2019
1400 UTC
1600 UTC
63°31,1'N 091°04,5'W
Stationary
180° or other (specify: 360° )
20 km

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

7
2
1
30-40
330°
None
None
30m
Out or <u>In</u>

Notes:

No observation.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Desgagnés Transarctik	Weather code	0
Platform name and type	Thores Isabela	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	0
Date (DD/MM/YYYY)	01/10/2019	Wave height (m)	0
Time at start (UTC)	23 30 Z	True wind speed (knots) OR Beaufort code	2
Latitude	63° 57.2' N	True wind direction (deg)	WNW
Longitude	093° 35.4' W	Ice type code	None
Platform activity	At anchor, unloading	Ice concentration code	None
Scan type	180° or other (specify: )	Height of eye (m)	32 m
Scan direction	W	Outdoors or Indoors	(Out) or (In)
Visibility (km)	25 km		

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(molt)

### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	<i>Drogagnis Transantik</i>	Weather code	<i>1</i>
Platform name and type	<i>Thorco Esabore</i>	Glare conditions code	<i>1</i>
Observer (s)	<i>Nicolas Brunelle</i>	Sea state code	<i>0</i>
Date (DD/MMM/YYYY)	<i>02/10/2019</i>	Wave height (m)	<i>0</i>
Time at start (UTC)	<i>17h00</i>	True wind speed (knots) OR Beaufort code	<i>Lt airs</i>
Latitude	<i>63° 57.2' N</i>	True wind direction (deg)	<i>2t airs.</i>
Longitude	<i>093° 35.1' W</i>	Ice type code	<i>None</i>
Platform activity	<i>Anchor</i>	Ice concentration code	<i>None</i>
Scan type	<i>180° or other (specify: )</i>	Height of eye (m)	<i>31m</i>
Scan direction	<i>West</i>	Outdoors or Indoors	<i>Out or In</i>
Visibility (km)	<i>15-20 Km</i>		

**Notes:**

No observations

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

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

## 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)

Desgagnés Transarctique
Thorco-Isadora / General cargo
Nicolas Brunelle
03/10/2019
1700
63° 57.36' N
093° 35.12' W
Unloading
180° or other (specify: Ahead)
320° (NW)
30 - 40

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

1
1
0.5
Lt air
Variable
None
None
30m
Out or In

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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



## 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)

Desgagnis Transarctic
Thoro Isadora / cargo
Nicolas Brunelle
04/10/2019
1700
63° 57.36' N
093° 35.14' W
Unloading.
180° or other (specify: Ahead)
SW
30-40

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
0-1
0.5
3
SW
None
None
30m
Out or In

**Notes:**

No observations.

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

*	*	*	*	*								
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex		Comments

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

## 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)

Desgaigne's Transatile
Thores Isabela / cargo
Nicolas Brunelle
05/10/2019
17 00
63° 57, 36' N
093° 35, 14' W
Unloading
180° or other (specify: ahead)
SE
2-3

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

2-3
1
0.5m
4
SE
None
None
30m
Out or <u>In</u>

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## 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)

Desgagnis Transarctic	
Thoro Isabela / General cargo	
Nicolas Brunelle	
06 / 10 / 2019	
1700	
63° 57.4' N	
093° 35.16' W	
Unloading	
180° or other (specify: ahead)	
N	
30-40 km	

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
0.5m
5
N
None
None
30m
Out or In

**Notes:**

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E => 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mmature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## 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)

Despagnis Transcortik
Thoro Isadora / General cargo
Nicolas Brunelle
07 / 10 / 2019
1700
63° 57.36' N
093° 35.2' W
Unloading
180° or other (specify: ahead)
ESE
30 - 40

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

1
1
0.5m
2
SE
None
None
30m
Out or In

**Notes:**

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

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

### 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)

Desgagnis Transarctic
Therco Isadora / General cargo
Nicolas Brunelle
08/10/2019
1700
63° 57.4' N
093° 35.2' W
Unloading
180° or other (specify: ahead)
SE
20 - 30

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

4
7
1m
8
SE
None
None
30m
Out or In

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J(juveniles), I(immature), or A(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(molt)

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Desgagnis Transarctik	Weather code	7
Platform name and type	Thorob Isabella / <sup>General</sup> Congo	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	2
Date (DD/MM/YYYY)	09/10/2019	Wave height (m)	1m
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	6
Latitude	63° 57.4' N	True wind direction (deg)	South
Longitude	093° 35.2' W	Ice type code	None
Platform activity	No operations	Ice concentration code	None
Scan type	180° or other (specify ahead)	Height of eye (m)	30m
Scan direction	South	Outdoors or Indoors	Out or In
Visibility (km)	15-20		

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## 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)

Desgones Transactile
Thoren Isabela / General coverage
Nicolas Brunelle
10 / 10 / 2019
1700
63° 57.4' N
093° 35.2' W
No operations
180° or other (specify: <u>Axial</u> .)
NW
15-20

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

1
2
1
6
NW
None
None
30m
Out or <u>In</u>

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## 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)

<i>Dagagne's Transarctic</i>
<i>Imma Isabre / General cargo</i>
<i>Nicolas Brunelle</i>
<i>11 / 10 / 2019</i>
<i>1700</i>
<i>63° 57.4' N</i>
<i>093° 35.2' W</i>
<i>No operations</i>
<i>180° or other (specify: <i>ahead</i>)</i>
<i>W</i>
<i>20-30</i>

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

<i>1</i>
<i>1</i>
<i>0.5m</i>
<i>4</i>
<i>NW</i>
<i>None</i>
<i>None</i>
<i>30m</i>
Out or In

**Notes:**

*No observations.*

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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



## 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)

Desgagnis Transarctic	Weather code
Thorp Isabella / General Camp 0	Glare conditions code
Nicolas Brunelle	Sea state code
12/10/2019	Wave height (m)
1700	True wind speed (knots) OR Beaufort code
63° 57.4' N	True wind direction (deg)
093° 35.2' W	Ice type code
Unloading	Ice concentration code
180° or other (specify: ahead)	Height of eye (m)
SW	Outdoors or Indoors
30	Out or In

0-1
1
0.5
3
SW
None
None
30 m
Out or In

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## 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)

Desaguais Transartic
Three Isalora / <sup>General</sup> cargo
Nicolau Brumida
13 / 10 / 2019
1700
63° 57.3' N
093° 35.1' W
Unloading
180° or other (specify: Ahead)
South-west
30

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

1
1
1
4
SW (240)
None
None
30
Out or In

### Notes:

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

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

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Desgaignes Transport <i>Thora Isabella general cargo</i>	Weather code	7
Platform name and type		Glare conditions code	
Observer (s)	Nicolas Bouruelle	Sea state code	1
Date (DD/MMM/YYYY)	14/10/2019	Wave height (m)	0.5
Time at start (UTC)	17 00	True wind speed (knots) OR Beaufort code	4
Latitude	63° 57.1' N	True wind direction (deg)	W
Longitude	093° 35.3' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: ahead)	Height of eye (m)	30
Scan direction	N	Outdoors or Indoors	Out or <u>In</u>
Visibility (km)	~ 10		

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Dergagne Transarctique	Weather code	0
Platform name and type	Thors Isadora / seasonal camp	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	1
Date (DD/MMM/YYYY)	15/10/2019	Wave height (m)	0.5
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	3
Latitude	63° 57.2' N	True wind direction (deg)	N
Longitude	093° 35.1' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: about)	Height of eye (m)	30 m
Scan direction	N	Outdoors or Indoors	Out or In
Visibility (km)	20-30		

**Notes:**

No observations.

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

*	*	*	*	*	*	*	*	*	*	*	*	*
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments	

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

## 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)

*Dergagnis Transatlantique*  
*Thom's Island / research*  
*Nicolas Brunelle*  
*16 / 10 / 2019*  
  
*1700*  
*63° 57.1' N*  
*083° 35.1' W*  
*unloading*  
 180° or other (specify: *around*)  
*NW*  
*20-30*

Weather code  
 Cloud 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*  
  
*1*  
*0.5*  
*LE winds*  
*VAR*  
*None*  
*None*  
*30*  
 Out or In

### Notes:

*No observations.*

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency		Weather code	
Platform name and type		Glare conditions code	
Observer (s)		Sea state code	
Date (DD/MM/YYYY)	19/10/2019	Wave height (m)	
Time at start (UTC)	16:00 UTC / 19:02 UTC	True wind speed (knots) OR Beaufort code	
Latitude	61° 21.09 / 60° 51.64	True wind direction (deg)	
Longitude	068° 32.09 / 067° 32.91	Ice type code	
Platform activity		Ice concentration code	
Scan type	180° or other (specify: )	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or In
Visibility (km)			

*Notes:*

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	1	Fly		100m		Scavenging					
NOFU	2	Fly		50m		Scavenging					

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency		Weather code	
Platform name and type		Glare conditions code	
Observer (s)	Desmond Inaksajak	Sea state code	
Date (DD/MMM/YYYY)		Wave height (m)	
Time at start (UTC)	16:07 UTC / <sup>PMH at</sup> 1807 UTC	True wind speed (knots) OR Beaufort code	
Latitude	60° 31.74 / 60° 15.21	True wind direction (deg)	
Longitude	064° 31.61 / 063° 52.11	Ice type code	
Platform activity		Ice concentration code	
Scan type	180° or other (specify: )	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or In
Visibility (km)			

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	1	fly		100m		Scavenging					
HERG	1	fly		100m		Scavenging					
NOFU	2	fly		100m		Scavenging					
NOFU	4	fly		100m		Scavenging					
NOFU	7	fly		150m		Scavenging					
NOFU	23	water fly		150m		Scavenging					Most are following the vessel
GIGU	1	fly		100m		Scavenging					another GIGU appeared with the other
NOFU	1	fly		100m		Scavenging					
HERG	3	fly		150m		Scavenging					
NOFU	1	fly		100m		Scavenging					
NOFU	1	fly		150m		Scavenging					
GIGU	3	fly		100m		Scavenging					
NOFU	1	fly		150m		Scavenging					
NOFU	3	fly		50m		Scavenging					
GIGU	1	fly		50m		Scavenging					
HERG	1	fly		100m		Scavenging					
GIGU	1	fly		50m		Scavenging					
NOFU	1	fly		100m		Scavenging					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

GIGU 1 fly 50m Scavenging  
 NOFU 1 fly 50m Scavenging  
 GIGU 1 fly 100m Scavenging  
 HERG 1 fly 100m Scavenging  
 NOFU 1 fly 50m Scavenging  
 NOFU 2 fly 50m Scavenging

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dergagnis Transatlantic	Sea state code ★	1
Platform name and type	Thorco / General Fsubore / Cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	05 / 10 / 2019	True wind direction	SE
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	2-3	Observation side	Starboard      Port <u>Middle</u>
Weather code ★	2-3	Height of eye (m)	30
Glare conditions code ★		Outdoors or indoors	Out      or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather/Sea State ★	No. Sightings (I or II)	Sighting Reported or Log Location (Lat/Long)	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: *No observations*

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctik		Sea state code ★	0
Platform name and type	Thorco Isabelle / General cargo		Wave height (m)	-1
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	5
Date (DD/MMM/YYYY)	06 / 10 / 2019		True wind direction	N
Time at start (UTC)	1700		Ice type code ★	None
Time at end (UTC)	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W		True platform direction	
Visibility (km)	30-40		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out            or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel/Travel Direction and Speed	Weather/Sea State ★	No. Sightings? (Y or N)	Sighting Duration or Lat/Long/Altitude (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: *No observations*

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transatlantique		Sea state code ★	1
Platform name and type	Thoreo / General cargo Isadora / cargo		Wave height (m)	0.5
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	2
Date (DD/MMM/YYYY)	07 / 10 / 2019		True wind direction	SE
Time at start ( UTC )	1700		Ice type code ★	None
Time at end (UTC )	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W		True platform direction	
Visibility (km)	30 - 40		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30 m
Glare conditions code ★			Outdoors or indoors	Out    or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	No. Sighting (1 or 2)	Sighting Group/Pair or Litter (Approximate 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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transatlantique		Sea state code ★	2
Platform name and type	Thoro Isalora / Canavel Cerge		Wave height (m)	1m
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	8
Date (DD/MMM/YYYY)	08/10/2019		True wind direction	SE
Time at start (UTC)	1700		Ice type code ★	None
Time at end (UTC)	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' W		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W		True platform direction	
Visibility (km)	20-30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	4		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Dergagnes Transantike		Sea state code ★	2
Platform name and type	Thores Isabela / General cargo		Wave height (m)	1m
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	6
Date (DD/MMM/YYYY)	09 / 10 / 2019		True wind direction	South
Time at start ( UTC )	1700		Ice type code ★	None
Time at end (UTC )	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2' W		True platform direction	
Visibility (km)	15-20		Observation side	Starboard <input type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/>
Weather code ★	7		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out <input type="checkbox"/> or <input type="checkbox"/> In <input type="checkbox"/>
Platform Activity	No operations		Notes	

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctique		Sea state code ★	2
Platform name and type	Thorco / General Isabrou / Cargo		Wave height (m)	1
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	6
Date (DD/MMM/YYYY)	10 / 10 / 2019		True wind direction	NW
Time at start ( UTC )	1700		Ice type code★	None
Time at end (UTC )	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4'N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.2'W		True platform direction	
Visibility (km)	15-20		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out                      or <u>In</u>
Platform Activity	No operations		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Dorignes Transarctik	Sea state code ★	1
Platform name and type	Thorvald Fealora / General cargo	Wave height (m)	0.5
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	11/10/2019	True wind direction	NW
Time at start (UTC)	1700	Ice type code ★	None
Time at end (UTC)	1900	Ice concentration code ★	None
Latitude at start / end	63° 57.4' N	True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1' W	True platform direction	
Visibility (km)	20-30	Observation side	Starboard      Port      Middle
Weather code ★	1	Height of eye (m)	30m
Glare conditions code ★		Outdoors or Indoors	Out      or      In
Platform Activity	No operations	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Year(s) Travel Direction and Speed	Weather * Sea State	No. 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: <i>No observations</i>											

\* Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desjardins Transarctik		Sea state code ★	1
Platform name and type	Thores / General Isadore / cargo		Wave height (m)	0.5
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	12 / 10 / 2019		True wind direction	See
Time at start ( UTC )	1700		Ice type code ★	None
Time at end (UTC )	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.4' N		True platform speed (knots)	Anchor
Longitude at start / end	693° 35.2' W		True platform direction	
Visibility (km)	30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0 - 1		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés Transarctik		Sea state code ★	1
Platform name and type	Thorco Isadora / General cargo		Wave height (m)	1
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	13 / 10 / 2019		True wind direction	SW (240)
Time at start ( UTC )	1700		Ice type code ★	None
Time at end (UTC )	1900		Ice concentration code ★	None
Latitude at start / end	63° 57.3'N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.1'W		True platform direction	
Visibility (km)	30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	30
Glare conditions code ★			Outdoors or Indoors	Out            or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnis Transarctic		Sea state code ★	1
Platform name and type	Thovco ISADORA / General cargo		Wave height (m)	0.5
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	14 / 10 / 2019		True wind direction	N
Time at start ( UTC )	17 00		Ice type code★	None
Time at end (UTC )	19 00		Ice concentration code ★	None
Latitude at start / end	63° 57.1' N		True platform speed (knots)	Anchor
Longitude at start / end	093° 35.3' W		True platform direction	
Visibility (km)	~ 15		Observation side	Starboard      Port      Middle
Weather code ★	7		Height of eye (m)	3e
Glare conditions code ★			Outdoors or Indoors	Out                  or                  In
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	Desgagnés Transarctik	Sea state code ★	1
Platform name and type	Thorco Isadore / General cargo	Wave height (m)	0.5m
Observer (s)	Nicolas Brunelle	True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	15/10/2019	True wind direction	N
Time at start (UTC)	17 00	Ice type code ★	None
Time at end (UTC)	19 00	Ice concentration code ★	None
Latitude at start / end	63° 57,2' N	True platform speed (knots)	—
Longitude at start / end	093° 35,1' W	True platform direction	—
Visibility (km)	20 - 30	Observation side	Starboard    Port <u>Middle</u>
Weather code ★	0	Height of eye (m)	30
Glare conditions code ★		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations</i>											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnus Transarctik		Sea state code ★	1
Platform name and type	Thorne ISADORA / General catge		Wave height (m)	0.5m
Observer (s)	Nicolas Brunelle		True wind speed (knots) OR ★ Beaufort code	LT aines
Date (DD/MMM/YYYY)	16 / 10 / 2019		True wind direction	VAR
Time at start ( UTC )	63° 57, 2' N		Ice type code ★	None
Time at end (UTC )	093° 35, 1' W		Ice concentration code ★	None
Latitude at start / end	17 00 Z		True platform speed (knots)	
Longitude at start / end	19 00 Z		True platform direction	
Visibility (km)	20 - 30		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	2		Height of eye (m)	30m
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Unloading		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <i>No observations.</i>											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnés Marine Cargo	Weather code	7
Platform name and type	THORCO ISADORA	Glare conditions code	
Observer (s)	Desmond Imaksajak	Sea state code	2
Date (DD/MM/YYYY)	29/09/2019	Wave height (m)	1
Time at start (UTC)	1400 UTC	True wind speed (knots) OR Beaufort code	30-40
Latitude	1600 UTC	True wind direction (deg)	330°
Longitude	63°31,1'N 091°04,5'W	Ice type code	None
Platform activity	Stationary	Ice concentration code	None
Scan type	180° or other (specify: 360° )	Height of eye (m)	30m
Scan direction		Outdoors or Indoors	Out or <u>In</u>
Visibility (km)	20 km		

**Notes:**

No observation.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)



## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Desjardins Transarctic	Weather code	0
Platform name and type	Thores Isabella	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	0
Date (DD/MMM/YYYY)	01/10/2019	Wave height (m)	0
Time at start (UTC)	23 30 z	True wind speed (knots) <b>OR</b> Beaufort code	2
Latitude	63°57.2'N <del>01 00 z 02/10</del>	True wind direction (deg)	WNW
Longitude	093°35.4'W	Ice type code	None
Platform activity	At anchor, unloading	Ice concentration code	None
Scan type	180° or other (specify: )	Height of eye (m)	32 m
Scan direction	W	Outdoors or Indoors	Out or In
Visibility (km)	25 km		

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mmature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Drogagnis Transantik	Weather code	1
Platform name and type	Thorco Esabona	Glare conditions code	1
Observer (s)	Nicolas Brunelle	Sea state code	0
Date (DD/MMM/YYYY)	02/10/2019	Wave height (m)	0
Time at start (UTC)	17h00	True wind speed (knots) OR Beaufort code	Lt airs
Latitude	63° 57.2' N	True wind direction (deg)	2t airs
Longitude	093° 35.1' W	Ice type code	None
Platform activity	Anchor	Ice concentration code	None
Scan type	180° or other (specify: )	Height of eye (m)	31m
Scan direction	West	Outdoors or Indoors	Out or In
Visibility (km)	15-20 km		

### Notes:

No observations

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

*	*	*	*	*	*	*	*	*	*	*	*	*
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(molt)

## 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)

Desgaigne's Transatlantic
Thorica Isadora / General cargo
Nicolas Brunelle
03/10/2019
1700
63° 57.36' N
093° 35.12' W
Unloading
180° or other (specify: Ahead)
320° (NW)
30 - 40

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

1
1
0.5
Lt airs
Variable
None
None
30m
Out or In

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

### 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)

Desgagnis Transarctic
Thoro Isadore / cargo
Nicolas Brunelle
04/10/2019
1700
63° 57.36' N
093° 35.14' W
Unloading
180° or other (specify: Ahead)
SW
30-40

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
0-1
0.5
3
SW
None
None
30m
Out or In

**Notes:**

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E => 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mmature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnés Transarctique	Weather code	2-3
Platform name and type	Thorco Isabela / <sup>camp</sup> general	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	1
Date (DD/MMM/YYYY)	05/10/2019	Wave height (m)	0.5 m
Time at start (UTC)	17 00	True wind speed (knots) OR Beaufort code	4
Latitude	63° 57.36' N	True wind direction (deg)	SE
Longitude	093° 35.14' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: <i>ahead</i> )	Height of eye (m)	30 m
Scan direction	SE	Outdoors or Indoors	Out or <u>In</u>
Visibility (km)	2-3		

**Notes:**

No observations.

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

*	*	*	*	*								
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnis Transarctik	Weather code	0
Platform name and type	Thorne Isadora / General cargo	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	1
Date (DD/MMM/YYYY)	06 / 10 / 2019	Wave height (m)	0.5m
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	5
Latitude	63° 57.4' N	True wind direction (deg)	N
Longitude	093° 35.16' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: ahead)	Height of eye (m)	30m
Scan direction	N	Outdoors or Indoors	Out or In
Visibility (km)	30-40 Km		

### Notes:

No observations.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mmature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(out)

## 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)

Desgagne's Transarctic
Thoro Isadore / General cargo
Nicolas Brunelle
07 / 10 / 2019
1700
63° 57.36' N
093° 35.2' W
Unloading
180° or other (specify: ahead)
ESE
30 - 40

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

1
1
0.5m
2
SE
None
None
30m
Out or In

### Notes:

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	<u>Desgaignis Transarctik</u>	Weather code	<u>4</u>
Platform name and type	<u>Therap Teadon / General cargo</u>	Glare conditions code	
Observer (s)	<u>Nicolas Brunelle</u>	Sea state code	<u>2</u>
Date (DD/MMM/YYYY)	<u>08/10/2019</u>	Wave height (m)	<u>1m</u>
Time at start (UTC)	<u>1700</u>	True wind speed (knots) OR Beaufort code	<u>8</u>
Latitude	<u>63° 57.4' N</u>	True wind direction (deg)	<u>SE</u>
Longitude	<u>093° 35.2' W</u>	Ice type code	<u>None</u>
Platform activity	<u>Unloading</u>	Ice concentration code	<u>None</u>
Scan type	<u>180° or other (specify: <u>about</u>)</u>	Height of eye (m)	<u>30m</u>
Scan direction	<u>SE</u>	Outdoors or Indoors	Out or <u>In</u>
Visibility (km)	<u>20-30</u>		

**Notes:**

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(out)



## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnis Transarctic	Weather code	7
Platform name and type	Three Isabella / General cargo	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	2
Date (DD/MMM/YYYY)	09/10/2019	Wave height (m)	1m
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	6
Latitude	63° 57.4' N	True wind direction (deg)	South
Longitude	093° 35.2' W	Ice type code	None
Platform activity	No operations	Ice concentration code	None
Scan type	180° or other (specify: ahead)	Height of eye (m)	30m
Scan direction	South	Outdoors or Indoors	Out or In
Visibility (km)	15-20		

**Notes:**  
No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## 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)

*Desgagnés Transartik*  
~~Thorco Isadora~~ / *Common*  
*Nicolas Brunelle*  
*10 / 10 / 2019*  
*1700*  
*63° 57.4' N*  
*093° 35.2' W*  
*No operations*  
 180° or other (specify: *Ahead.*)  
*NW*  
*15-20*

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

1
2
1
6
<i>NW</i>
<i>None</i>
<i>None</i>
<i>30m</i>
Out or <u>In</u>

**Notes:**

*No observations.*

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

*	*	*	*	*	*	*	*	*	*	*	*	*
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments	

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

## 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)

Daguan's Transarctic	Weather code
Imira Isabela / General cargo	Glare conditions code
Nicolas Brunelle	Sea state code
11 / 10 / 2019	Wave height (m)
1700	True wind speed (knots) OR Beaufort code
63° 57.4' N	True wind direction (deg)
093° 35.2' W	Ice type code
No operations	Ice concentration code
180° or other (specify: ahead)	Height of eye (m)
W	Outdoors or Indoors
20-30	

1	
1	
0.5m	
4	
NW	
None	
None	
30m	
Out or In	

**Notes:**

No observations.

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

*	*	*	*	*			Flight	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>	Assoc.	Behav.	Direc. <sup>2</sup>				

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnés Transarctik	Weather code	0-1
Platform name and type	Thores Isabella / General Cargo	Glare conditions code	
Observer(s)	Nicolas Brunelle	Sea state code	1
Date (DD/MM/YYYY)	12/10/2019	Wave height (m)	0.5
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	3
Latitude	63° 57.4' N	True wind direction (deg)	SW
Longitude	093° 35.2' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: ahead)	Height of eye (m)	30 m
Scan direction	SW	Outdoors or Indoors	Out or In
Visibility (km)	30		

### Notes:

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Deaguanis Transarctic	Weather code	1
Platform name and type	Thorb Isabela / <sup>Ground</sup> cargo	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	1
Date (DD/MMM/YYYY)	13 / 10 / 2019	Wave height (m)	1
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	4
Latitude	63° 57.3' N	True wind direction (deg)	SW (240)
Longitude	093° 35.1' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: Ahead)	Height of eye (m)	30
Scan direction	South-west	Outdoors or Indoors	Out or In
Visibility (km)	30		

### Notes:

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(out)

## 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)

Derguies Transurbik
<del>Thora Esabara</del> general cargo
Nicolas Bouruelle
14 / 10 / 2019
17 00
63° 57.1' N
093° 35.3' W
Unloading
180° or other (specify: ahead)
N
~ 10

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

7
1
0.5
4
W
None
None
30
Out or In

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Dergagne Transatlite	Weather code	0
Platform name and type	Thors Isabore / general cargo	Glare conditions code	
Observer (s)	Nicolas Brunelle	Sea state code	1
Date (DD/MM/YY)	15/10/2019	Wave height (m)	0.5
Time at start (UTC)	1700	True wind speed (knots) OR Beaufort code	3
Latitude	63° 57.2' N	True wind direction (deg)	N
Longitude	093° 35.1' W	Ice type code	None
Platform activity	Unloading	Ice concentration code	None
Scan type	180° or other (specify: about)	Height of eye (m)	30m
Scan direction	N	Outdoors or Indoors	Out or In
Visibility (km)	20-30		

**Notes:**

No observations.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Dergagnis Transatlantique	Weather code	
Platform name and type	Thomas Isabella Peronne	Sea state code	2
Observer (s)	Nicolas Brunelle	Wave height (m)	1
Date (DD/MMM/YYYY)	16/10/2019	True wind speed (knots) OR Beaufort code	0.5
Time at start (UTC)	1700	True wind direction (deg)	LE winds
Latitude	63°57.1'N	Ice type code	VAR
Longitude	093°35.1'W	Ice concentration code	None
Platform activity	unloading	Height of eye (m)	None
Scan type	180° or other (specify)	Out or In	30
Scan direction	NW		
Visibility (km)	20-30		

**Notes:**

No observations.

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In semi-circle?	Distance <sup>1</sup>							

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



## Record sheet for a stationary platform survey

### Scan Information:

Company/agency		Weather code	
Platform name and type		Glare conditions code	
Observer (s)		Sea state code	
Date (DD/MMM/YYYY)	19/10/2019	Wave height (m)	
Time at start (UTC)	16:00 UTC / 18:02 UTC	True wind speed (knots) OR Beaufort code	
Latitude	61° 71.09 / 60° 51.64	True wind direction (deg)	
Longitude	068° 32.09 / 067° 32.91	Ice type code	
Platform activity		Ice concentration code	
Scan type	180° or other (specify: )	Height of eye (m)	
Scan direction		Outdoors or Indoors	Out or In
Visibility (km)			

*Notes:*

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	1	Fly		100m		Scavenging					
NOFU	2	Fly		50m		Scavenging					

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

## 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)

Desmond Inaksajak
16:07 UTC / <sup>FINISH AT</sup> 1807 UTC
60° 31.24' / 60° 15.2'
064°, 31.61' / 063°, 52.1'
180° or 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

Out or In

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	1	fly		100m		Scavenging					
HERG	1	fly		100m		Scavenging					
NOFU	2	fly		100m		Scavenging					
NOFU	4	fly		100m		Scavenging					
NOFU	7	fly		150m		Scavenging					
NOFU	23	water then fly		150m		Scavenging					Most are following the vessel
GIGU	1	fly		100m		Scavenging					another GIGU appeared within the other
NOFU	1	fly		100m		Scavenging					
HERG	3	fly		150m		Scavenging					
NOFU	1	fly		100m		Scavenging					
NOFU	1	fly		150m		Scavenging					
GIGU	3	fly		100m		Scavenging					
NOFU	1	fly		150m		Scavenging					
NOFU	3	fly		50m		Scavenging					
GIGU	1	fly		50m		Scavenging					
HERG	1	fly		100m		Scavenging					
GIGU	1	fly		50m		Scavenging					
NOFU	1	fly		100m		Scavenging					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

GIGU	1	fly		50m		Scavenging					
GIGU	1	fly		100m		Scavenging					
HERG	1	fly		100m		Scavenging					
NOFU	1	fly		50m		Scavenging					
NOFU	2	fly		50m		Scavenging					

GIGU	1	fly	50m	Scavenging
NOFU	1	fly	50m	Scavenging

OCT 4th 2014

### Record sheet for a moving platform survey

#### Observation Period Information:

Company/agency	TRANSARCTIK DESGAGNES	Sea state code	3
Platform name and type	NORDITA Desgagnes	Wave height (m)	
Observer (s)	Jyk Gaudet	True wind speed (knots) OR Beaufort code	BC: 5
Date (DD/MMM/YYYY)	09-10-2014	True wind direction (deg)	162° T
Time at start (UTC)	1830 UTC	Ice type code	N/A
Time at end (UTC)	2006 UTC	Ice concentration code	N/A
Latitude at start / end	62° 33.04' N   62° 35.4' N	True platform speed (knots)	12 kts
Longitude at start / end	075° 31.4' W   076° 13.3' W	True platform direction (deg)	280° S
Platform activity		Observation side	Starboard Port
Visibility (km)	55km	Height of eye (m)	
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	1	FLY	N	0.3'E			W	I	NB		

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

## Record sheet for a moving platform survey

### 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

TRANSARCTIK/MARINE CARGO DESGAGNES	
NORDIKA DESGAGNES	
LUKE GATHERALL / Kyle Gaudet	
10/10/2019	
1200 UTC	
1600 UTC	
62° 17.3' N	62° 10.1' N
079° 07.8' W	079° 07.6' W
27 km	
0	

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?

3
1m
BC 7
235° T
N/A
N/A
11 KTS
183° T / 003° T
Starboard Port
24m
Out or <input checked="" type="radio"/> In
Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
BLSC	4	FLY	YES	100m			E				
NOFU	1	FLY	YES	200m			S				

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	TRANSARCTIK/CARGO DESGAGNES	Sea state code	4
Platform name and type	NORDIKA DESGAGNES	Wave height (m)	2 m
Observer (s)	LUKE GATHERALL	True wind speed (knots) OR Beaufort code	11 KTS
Date (DD/MMM/YYYY)	11/10/2019	True wind direction (deg)	325° T
Time at start (UTC)	1330	Ice type code	NA
Time at end (UTC)	<del>85-140</del> 1600	Ice concentration code	N/A
Latitude at start / end	61° 37.8'N   61° 45.2'N	True platform speed (knots)	13 KTS
Longitude at start / end	082° 30.7'W   083° 24.9'W	True platform direction (deg)	265° T
Platform activity		Observation side	Starboard Port
Visibility (km)		Height of eye (m)	2.4 m
Weather code	0	Outdoors or Indoors	Out or (In)
Glare conditions code		Snapshot used?	Yes or (No)

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	1	FLY	YES	C			W				
UNDU	16	FLY	YES	C			SE				Scouters of EIDERS
TBMU	1	FLY	YES	C			SE				

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

Record sheet for a stationary platform survey

## Scan Information:

Company/agency	TRANSARTIK / marine Carbo DESBAGNÉS	Weather code	0
Platform name and type	NORDIKA DESBAGNÉS	Glare conditions code	0
Observer (s)	MELINA JOBIN	Sea state code	1
Date (DD/MMM/YYYY)	12 / 10 / 2019	Wave height (m)	⊖ Calm
Time at start (UTC)	1600 UTC	True wind speed (knots) OR Beaufort code	6.5 KNTS
Latitude	62° 46.0' N	True wind direction (deg)	SW ↗ 049°
Longitude	092° 03.8' W	Ice type code	N/A
Platform activity	Anchorage Rankin Ship	Ice concentration code	0 (Open water)
Scan type	180° or other (specify: )	Height of eye (m)	24 m
Scan direction	90°	Outdoors or Indoors	Out or (In)
Visibility (km)	40 Km		

## Notes:

NO BIRD OBSERVATION has been done.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

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

13-10-2019

## 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)

TRANSARCTIK IMARINE CAREO DESGAGNE
NORDIKA Desgagnés
MELINA JOBIN
13/10/2019
1600 UTC
62° 46.0' N
092° 04.0' W
ANCHORAGE RANKIN SHIP
180° or other (specify: )
90°
35 km

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

1
0
2
Less than 1m
7 kmrs
S + 005°
N/A
0 (open water)
24 m
Out or (In)

## Notes:

NO BIRD OBSERVATIONS HAS BEEN DONE

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

14-10-2019

## 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)

TRANSARCTIK / MARINE CARE-O DESHABNES
NORDIKA DESHABNES
Melina Jobin
14/10/2019
1600 UTC
62° 45.9' N
092° 09.1' W
Anchorage Rankin Ship
180° or other (specify: )
90°
40 km

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

1
0
2
less than 1m
9 knts
NE <del>██</del> 210°
N/A
0 (open water)
29 m
Out or (In)

## Notes:

NO BIRD OBSERVATION HAS BEEN DONE

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(imature), or A(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(molt)



18-10-2019

## 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)

TRANSARCTIK / MARINE CARGO DESGAGNÉS
NORDIKA DESGAGNÉS
Melina Jobin
15/10/2019
0800 UTC
62° 46.1' N
092° 09.0' W
Anchorage Rankin ship
180° or other (specify: )
90°
40km

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

1
0
3
1m
18 KNOTS
NE @ 199°
N/A
0 (OPEN WATER)
24m
Out or (In)

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

## Record sheet for a moving platform survey

### 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

TRANS ARCTIC / MARINE CARGO DESGAGNES	
NORDIKA DESGAGNES	
LUKE GATHERALL	
16/10/2019	
1700	
1800	
62° 00.2' N / 62° 02.1' N	
082° 29.1' W / 082° 07.9' W	
EAST HUDSON BAY	
4 KM	
F	

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?

5
2m
8
083° T
N/A
N/A
11.5 KTS
080° T
Starboard Port
27m
Out or In
Yes or No

Notes:

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

*	*	*	*	*	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Species	Count	Fly or Water?	In transect?	Distance <sup>1</sup>							
TBMU	3	FLY	YES	A			NE				
NOFU	1	FLY	YES	C			E	3			
TBMU	2	FLY	YES	A			S				Possibly same flock

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	TRANSARCTIC / <i>MARINE LABS Desgagnés</i>	Sea state code	3
Platform name and type	MV NORLIKA Desgagnés	Wave height (m)	0.2m
Observer (s)	Kyle Gaudet	True wind speed (knots) OR Beaufort code	BC: 4
Date (DD/MMM/YYYY)	17/10/2019	True wind direction (deg)	305° T
Time at start (UTC)	19:42 UTC	Ice type code	N/A
Time at end (UTC)	21:42 UTC	Ice concentration code	N/A
Latitude at start / end	62° 01.8' N / 61° 46.3' N	True platform speed (knots)	15 KTS
Longitude at start / end	070° 52.0' W / 070° 37.9' W	True platform direction (deg)	118° T
Platform activity	Hudsons STRAIT	Observation side	Starboard Port
Visibility (km)	4S	Height of eye (m)	27m
Weather code	C	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<del>NORRIKA</del>											
NORFU	3	FLY	Yes	B			South	J	NB		
No FU	1	FLY	Yes	B			WEST	J	NB		

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Transarctic/Marine Casp Desgagnés		Sea state code ★	3
Platform name and type	Nordika Desgagnés		Wave height (m)	
Observer (s)	Kyla Gardet		True wind speed (knots) OR ★ Beaufort code	BC: 5
Date (DD/MMM/YYYY)	09-10-2019		True wind direction	SSE 162° T
Time at start (UTC)	1430 (ST) / 1830 (UTC)		Ice type code ★	N/A
Time at end (UTC)	2030 UTC		Ice concentration code ★	N/A
Latitude at start / end	62° 33.64' N	62° 35.7' N	True platform speed (knots)	12
Longitude at start / end	075° 31.4' W	076° 23.1' W	True platform direction	280° T
Visibility (km)	40 Km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	
Glare conditions code ★	0		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity			Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
No Observed											
Notes:											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	TRANSARCTIK/MARINE CARGO DESGAGNES		Sea state code ★	3
Platform name and type	NORDIKA DESGAGNES		Wave height (m)	1m
Observer (s)	LUKE GATHERALL / Kyle Gaudet		True wind speed (knots) OR ★ Beaufort code	BC 7
Date (DD/MMM/YYYY)	10/10/2019		True wind direction	235° T
Time at start (UTC)	1200 UTC		Ice type code ★	N/A
Time at end (UTC)	1600 UTC		Ice concentration code ★	N/A
Latitude at start / end	62° 17.3' N	62° 10.1' N	True platform speed (knots)	11 KTS
Longitude at start / end	079° 07.8' W	079° 07.6' W	True platform direction	183° T / 003° T
Visibility (km)	27 km		Observation side	Starboard Port Middle
Weather code ★	0		Height of eye (m)	24m
Glare conditions code ★	J		Outdoors or Indoors	Out or In
Platform Activity			Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➔ Fill out one sheet per observation period, if no observation, write "No observation"

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:											
NO OBSERVATIONS											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	TRANSARCTIK/MARINE CARGO DESGAGNES		Sea state code ★	4
Platform name and type	NORDIKA DESGAGNES		Wave height (m)	2m
Observer (s)	LUKE GATHEBALL		True wind speed (knots) OR ★ Beaufort code	11 KTS
Date (DD/MMM/YYYY)	11/10/2014		True wind direction	325° T
Time at start (UTC)	1330		Ice type code ★	N/A
Time at end (UTC)	<del>1530</del> 1600		Ice concentration code ★	N/A
Latitude at start / end	61° 37.6' N	61° 44.4' N	True platform speed (knots)	13 KTS
Longitude at start / end	082° 30.7' W	083° 31.7' W	True platform direction	265° T
Visibility (km)			Observation side	Starboard Port Middle
Weather code ★	0		Height of eye (m)	24m
Glare conditions code ★			Outdoors or Indoors	Out or In
Platform Activity			Notes	

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

12-10-2019

## MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	TRANSARCTIK / marine cargo DESBAGNÉS		Sea state code ★	1
Platform name and type	Ship / NORDIKA DESBAGNÉS		Wave height (m)	⊖ calm Less Than 0.5m
Observer (s)	MÉLINA JOBIN 3 <sup>e</sup> OFF		True wind speed (knots) OR ★ Beaufort code	6.5 Knts
Date (DD/MMM/YYYY)	12/10/2019		True wind direction	SW ➤ 049°
Time at start ( UTC )	1600 UTC		Ice type code ★	N/A
Time at end (UTC )	1800 UTC		Ice concentration code ★	0 (open water)
Latitude at start / end	62° 46.0' N	(Stationary) AT ⚓	True platform speed (knots)	⊖ At ⚓
Longitude at start / end	092° 03.8' W	LAT/LONG Fixe	True platform direction	Heading 230°
Visibility (km)	40 km		Observation side	Starboard Port (Middle)
Weather code ★	0		Height of eye (m)	24 m
Glare conditions code ★	0		Outdoors or Indoors	Out or (In)
Platform Activity	Stationary   Ship   Rankin		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATIONS HAS BEEN DONE											

★ Refer to "Codes" datasheets

13-10-2019



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	TRANSARCTIK IMARINE CARBO DESGAGNÉS		Sea state code ★	2
Platform name and type	Ship / NOROIKA DESGAGNÉS		Wave height (m)	less than 1m
Observer (s)	Melina Jobin 3 <sup>rd</sup> OFF		True wind speed (knots) OR ★ Beaufort code	7 Knts
Date (DD/MMM/YYYY)	13/10/2019		True wind direction	S 005.4°
Time at start (UTC)	1600 UTC		Ice type code ★	N/A
Time at end (UTC)	1800 UTC		Ice concentration code ★	0 (open water)
Latitude at start / end	62° 46.0' N	} STATIONARY AT ±  } LAT/LONG Fixe	True platform speed (knots)	± AT ±
Longitude at start / end	092° 04.0' W		True platform direction	Heading 158°
Visibility (km)	35 km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	24m
Glare conditions code ★	0		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Stationary / ship ± Rankin		Notes	

★ Refer to "Codes" datasheets



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State	No. Sightings? (V or H)	Sighting Viewed by (Lat/Long/Ground GPS)	Species, Number of Individuals	Distance to Animal (m or km)	Angle to Sighting	Behavior/Travel Direction	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATIONS HAS BEEN DONE											

★ Refer to "Codes" datasheets

14-10-2019



AGNICO EAGLE

## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	TRANSARCTIC / MARINE CARBO DESGAGNES		Sea state code ★	2
Platform name and type	Ship / NORDIKA DESGAGNES		Wave height (m)	less than 1m
Observer (s)	MELINA JOBIN 3 OFF		True wind speed (knots) OR ★ Beaufort code	9 KNTS
Date (DD/MMM/YYYY)	14/10/2019		True wind direction	NE ↘ <del>002</del> 211°
Time at start (UTC)	1600 UTC		Ice type code ★	N/A
Time at end (UTC)	1800 UTC		Ice concentration code ★	0 (open water)
Latitude at start / end	62° 45.9' N	} Stationary At ± Lat/Long Fixe	True platform speed (knots)	0 AT ±
Longitude at start / end	092° 04.1' W		True platform direction	Heading 002°
Visibility (km)	40 km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	1		Height of eye (m)	24 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	Stationary / Ship / Rankin		Notes	

★ Refer to "Codes" datasheets



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State ★	WV-System? (Y or N)	Station (Latitude and Longitude or GPS)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Behavior? Travel Direction ★	Age/sex	Mitigation Required?	Photo Number (if any)

Notes: NO BIRD OBSERVATION HAS BEEN DONE

★ Refer to "Codes" datasheets

15-10-2019



AGNICO EAGLE

## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	Transarctic / marine cargo Desgagnés		Sea state code ★	3
Platform name and type	Ship / NOROIKA Desgagnés		Wave height (m)	1m
Observer (s)	MELINA JOBIN 3 <sup>rd</sup> OFF		True wind speed (knots) OR ★ Beaufort code	10 KNTS
Date (DD/MMM/YYYY)	15/10/2019		True wind direction	NE ↙ 199°
Time at start (UTC)	0800 UTC		Ice type code ★	N/A
Time at end (UTC)	1000 UTC		Ice concentration code ★	0 (open water)
Latitude at start / end	62° 46.1' N	} Stationary At ± } LAR/LONG FIXE	True platform speed (knots)	0 AT ±
Longitude at start / end	092° 04.0' W		True platform direction	Heading:
Visibility (km)	40 km		Observation side	Starboard    Port    (Middle)
Weather code ★	1		Height of eye (m)	24m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    (In)
Platform Activity	Stationary / Ship / Rankin		Notes	

★ Refer to "Codes" datasheets





AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State ★	IR Sighting? (Y or N)	Sighting Reported by (Last Name/Service Code)	Species, Number of Individuals ★	Distance to Animal on Sighting	Angle to Sighting	Behavior/Travel Direction ★	Age/Sex	Impaction Required?	Photo Number (if any)
Notes:											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information				
Company/agency	TRANSARCTIK / MARINE CARGO DESGAGNES		Sea state code ★	5
Platform name and type	NORDIKA DESGAGNES		Wave height (m)	2-2.5m
Observer (s)	LUKE GATHERALL		True wind speed (knots) OR ★ Beaufort code	8
Date (DD/MMM/YYYY)	16/10/2019		True wind direction	023°T
Time at start (UTC)	1700		Ice type code ★	N/A
Time at end (UTC)	1800		Ice concentration code ★	N/A
Latitude at start / end	62° 00.2'N		True platform speed (knots)	11.5 KTS
Longitude at start / end	082° 29.1'W		True platform direction	080°T
Visibility (km)	4km		Observation side	Starboard    Port    Middle
Weather code ★	F		Height of eye (m)	27m
Glare conditions code ★			Outdoors or Indoors	Out    or    In
Platform Activity	EAST HUDSON BAY		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Whaler / Sea State ★	No. Sighting? (Y or N)	Species (Whale and/or Cald. Longfin Mammal spp.)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Observation/Travel Direction ★	Age/sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information				
Company/agency	TRANSARCTIK / MARINE CABOO DESGAGNES		Sea state code ★	3
Platform name and type	MV NORDIKA DESGAGNES		Wave height (m)	0.2m
Observer (s)	KYLE GAUDET		True wind speed (knots) OR ★ Beaufort code	BC: 4
Date (DD/MMM/YYYY)	17/10/2014		True wind direction	305°T
Time at start (UTC)	1442 UTC		Ice type code ★	N/A
Time at end (UTC)	2142 UTC		Ice concentration code ★	N/A
Latitude at start / end	62° 01.8' N	61° 46.3' N	True platform speed (knots)	<del>15 kts</del> 15 kts
Longitude at start / end	070° 52.0' W	070° 37.9' W	True platform direction	119°T
Visibility (km)	45		Observation side	Starboard    Port    Middle
Weather code ★	C		Height of eye (m)	27m
Glare conditions code ★	No glare / 0		Outdoors or Indoors	Out    or    (In)
Platform Activity	HUDSON STRAIT		Notes	

★ Refer to "Codes" datasheets



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea ★	No. Sighting? (V or H) ★	Sighting Reported by (Lat./Longitude GPS)	Species, Number of Individuals ★	Distance to Animal (m or km)	Angle to Sighting	Behavior/Travel Direction ★	Age/sex	Mitigation Required?	Photo Number (if any)

Notes: *No Observations*

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGNES	Sea state code	3
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	1m
Observer (s)	EMMIE PENNEY Maxime Cormier	True wind speed (knots) OR Beaufort code	10 Kts
Date (DD/MM/YY)	25/10/2019	True wind direction (deg)	240°(CT)
Time at start (UTC)	1400	Ice type code	N/A
Time at end (UTC)	1600	Ice concentration code	0
Latitude at start / end	61° 48.3 N   61° 59.6 N	True platform speed (knots)	12-13
Longitude at start / end	070° 17.6 W   071° 01.5 W	True platform direction (deg)	296°(CT)
Platform activity	MAKING WAY	Observation side	Starboard Port
Visibility (km)	30	Height of eye (m)	40m
Weather code	0/5	Outdoors or Indoors	<input checked="" type="radio"/> Out or <input type="radio"/> In
Glare conditions code	1	Snapshot used?	Yes or <input checked="" type="radio"/> No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
UNK	4	F	Y	C			N				Black
COMU	4	F	Y	C			SW				Black top
GLGU	1	F	Y	D			SE				Gull
COMU	1	F	Y	C			J				
NOFU	1	F	Y	C			SE				Gray
Gull	1	F	Y	C			NE				UNK
Gull	1	F	Y	B			NW				UNK
Gull	1	F	Y				NW				UNK white
GLGU	1	F	Y	C			N				
Gull	1	F	Y	D			N				
Gull	1	F	Y	C			SE				Gray Fly high

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESCAGNES		Sea state code ★	3
Platform name and type	ZELADA DESCAGNES - CARGO		Wave height (m)	1
Observer (s)	EMMIE PENNEY MAXIME CORMIER		True wind speed (knots) OR ★ Beaufort code	10
Date (DD/MMM/YYYY)	25 / 10 / 2019		True wind direction	240°(T)
Time at start (UTC)	1400		Ice type code ★	N/A
Time at end (UTC)	1600		Ice concentration code ★	0
Latitude at start / end	61° 48.3 N	61° 59.6 N	True platform speed (knots)	12 - 13
Longitude at start / end	070° 12.6 W	071° 01.5 W	True platform direction	296°(T)
Visibility (km)	30		Observation side	<u>Starboard</u> Port    Middle
Weather code ★	0/5		Height of eye (m)	
Glare conditions code ★	1		Outdoors or Indoors	<u>Out</u> or    In
Platform Activity	MAKING WAY		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Mingation Required?	Photo Number (if any)
1000 LT <i>Fin whale</i>	296 ~13kt	3	Y	—	1	800m	000 ship's head	N	—	—	—
Notes:											

★ Refer to "Codes" datasheets



## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGNES	Sea state code	4
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	1-2 m
Observer (s)	EMMIE PENNEY MAXIME CORMIER	True wind speed (knots) OR Beaufort code	10 KTS
Date (DD/MM/YYYY)	26/10/2019	True wind direction (deg)	000° - 005° (T)
Time at start (UTC)	1400	Ice type code	N/A
Time at end (UTC)	1600	Ice concentration code	0
Latitude at start / end	62° 22.3 N      062° 15.1 N	True platform speed (knots)	12 KTS
Longitude at start / end	080° 22.5 W      081° 11.4 W	True platform direction (deg)	255° (T)
Platform activity	MAKING WAY	Observation side	Starboard (Port)
Visibility (km)	5 Km	Height of eye (m)	25 m
Weather code	2	Outdoors or Indoors	(Out) or In
Glare conditions code	1	Snapshot used?	Yes or (No)

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
Procyon Owl	1	F	Y	A			S		NB	F	Circled ship
UNK	1	F	Y	C			NW				All white
UNK	1	F	Y	D			S				White
UNK	1	F	Y	E			S				Dark brown
COMU	5	F	Y	C			S				
COMU	3	F	Y	C			N				
COMU	1	F	Y	C			S				
COMU	2	-	-	-	-	-	-	-	-	-	-
GLGU	2	F	Y	C			W				
GLGU	1	F	Y	C			W				FISHING & DIVING
HERG	1	F	Y	C			S				
HERG	1	F	Y	A			W				

HERG

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	4
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	1-2
Observer (s)	EMMIE PENNEY MAXIME CORMIER		True wind speed (knots) OR ★ Beaufort code	10
Date (DD/MMM/YYYY)	26 / 10 / 2019		True wind direction	000°
Time at start (UTC)	1400		Ice type code ★	N/A
Time at end (UTC)	1600		Ice concentration code ★	N/A
Latitude at start / end	62° 22.3 N	62° 15.1 N	True platform speed (knots)	12
Longitude at start / end	080° 22.5 W	081° 11.4 W	True platform direction	255° (T)
Visibility (km)	5		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/>
Weather code ★	2		Height of eye (m)	25 m
Glare conditions code ★	1		Outdoors or Indoors	<input checked="" type="radio"/> Out <input type="radio"/> or <input type="radio"/> In
Platform Activity	MAKING WAY		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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 hrs)	Angle to Sighting	Behaviour/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATIONS											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	3
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	0.25 - 0.5m
Observer (s)	EMMIE PENNEY		True wind speed (knots) OR ★ Beaufort code	30 - 45 kts
Date (DD/MMM/YYYY)	28 / 10 / 2019		True wind direction	045° (T)
Time at start (UTC)	1400		Ice type code ★	N/A
Time at end (UTC)	1600		Ice concentration code ★	N/A
Latitude at start / end	62° 46.5 N		True platform speed (knots)	0 kts
Longitude at start / end	092° 06.0 W		True platform direction	—
Visibility (km)	1 - 2		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	7		Height of eye (m)	25m
Glare conditions code ★	0		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	ⓐ ANCHOR		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior/Travel Direction ★	Age-Sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATIONS.											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	1
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	0.1
Observer (s)	EMMIE PENNEY		True wind speed (knots) OR ★ Beaufort code	3 Kts
Date (DD/MMM/YYYY)	29/10/2019		True wind direction	180° (T)
Time at start (UTC)	1945		Ice type code ★	N/A
Time at end (UTC)	2200		Ice concentration code ★	N/A
Latitude at start / end	62°46.5 N	62°46.6 W	True platform speed (knots)	∅
Longitude at start / end	092°06.0 W	092°05.9 W	True platform direction	∅
Visibility (km)	8 Km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	3		Height of eye (m)	25m
Glare conditions code ★	1		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	@ ANCHOR		Notes	

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

### 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 Desgagnes
Zelada Desgagnes
Emmie Penney
30/10/2019
1300
62°46.5 N
092°05.5 W
ⓐ ANCHOR
180° or other (specify: )
3 Km

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
1
1
0.05 m
0 - 2 KTS
000° (T)
N/A
N/A
25 m
Out or <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">In</span>

Notes:

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLCU	1	W	Y	D	-	-	-	-	-	-	Dark brown / black
UNK	1	F	Y	D	-	-	-	-	-	-	
<b>BLSC</b> <del>NOFU</del>	1	F	Y	A	-	-	-	-	-	-	
NOFU	5	F	Y	C	-	-	-	-	-	-	

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	1
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	0.05 m
Observer (s)	EMMIE PENNEY		True wind speed (knots) OR ★ Beaufort code	0-2 Kts
Date (DD/MMM/YYYY)	30/10/2019		True wind direction	000°(T)
Time at start (UTC)	1300		Ice type code ★	N/A
Time at end (UTC)	1800		Ice concentration code ★	N/A
Latitude at start / end	62° 46.5 N	62° 46.6 N	True platform speed (knots)	0
Longitude at start / end	092° 05.5 W	092° 05.6 W	True platform direction	280°(T)
Visibility (km)	3 Km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	2		Height of eye (m)	25 m
Glare conditions code ★	1		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	@ anchor		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: <b>NO OBSERVATIONS</b>											

★ Refer to "Codes" datasheets

## 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 Desgagnes
Zelada Desgagnes
Emmie Penney
31/10/2019
1400
62°46.7 N
092°05.4 W
@ anchor
180° or other (specify: )
8 km

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

	1
	1
	0.05m
	0 Kts
	230 Kts
	N/A
	N/A
	25m
	Out or <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">In</span>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
BISC	1	F	Y	A	-	-	-	-	-	-	—
HERG	3	F	Y	B	-	-	-	-	-	-	—

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

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

Fill out one sheet per observation period

Observation Period Information:			
Company/agency	DESGAGNES	Sea state code ★	1
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	0.05m
Observer (s)	EMMIE PENNEY	True wind speed (knots) OR ★ Beaufort code	6 Kts
Date (DD/MMM/YYYY)	31/10/2019	True wind direction	230° (T)
Time at start (UTC)	1400	Ice type code ★	N/A
Time at end (UTC)	1600	Ice concentration code ★	N/A
Latitude at start / end	62°46.7N 62°46.6N	True platform speed (knots)	0
Longitude at start / end	092°05.4W 092°05.4W	True platform direction	218° (T)
Visibility (km)	8 Km	Observation side	Starboard Port <u>Middle</u>
Weather code ★		Height of eye (m)	25 m
Glare conditions code ★	1	Outdoors or Indoors	Out or <u>In</u>
Platform Activity	@ anchor	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior / Travel Direction ★	Age: Sex	Sighting Required?	Photo Number (if any)
Notes: <b>NO OBSERVATIONS</b>											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGNES	Sea state code	3
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	1m
Observer (s)	EMMIE PENNEY MAXIME CORMIER	True wind speed (knots) OR Beaufort code	5
Date (DD/MM/YY)	01/11/2019	True wind direction (deg)	SW
Time at start ( UTC )	1400	Ice type code	N/A
Time at end (UTC )	1600	Ice concentration code	N/A
Latitude at start / end	62°05.2'N   62°11.8'N	True platform speed (knots)	~14.5
Longitude at start / end	082°52.4'W   082°33.3'W	True platform direction (deg)	073°
Platform activity	UNDERWAY MAKINGWAY	Observation side	Starboard Port
Visibility (km)	~30 km	Height of eye (m)	25m
Weather code	C/BL	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	1-2	Snapshot used?	Yes or <input checked="" type="radio"/> No

**Notes:**

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

Species	Count	Fly or Water?	In transect?	Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG Gull?	3	Water	Yes	C	—	—	Var.	—	—	—	Gray wings with black tips
GLGU	2	Fly	Yes	C	—	—	N	—	—	—	
GLGU	1	Fly	Yes	F	—	—	N	—	—	—	Sighted twice
GLGU	2	Fly	Yes	D	—	—	SE	—	—	—	
GLGU	1	Fly	Yes	C	—	—	NW	—	—	—	

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



# MARINE MAMMAL PROGRAM

AGNICO EAGLE

Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	1
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	3
Observer (s)	EMMIE PENNEY		True wind speed (knots) OR ★ Beaufort code	13
Date (DD/MMM/YYYY)	01/11/2019		True wind direction	(T)
Time at start (UTC)	1400		Ice type code ★	N/A
Time at end (UTC)	1600		Ice concentration code ★	N/A
Latitude at start / end	N	N	True platform speed (knots)	0
Longitude at start / end	W	W	True platform direction	(T)
Visibility (km)	, Km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★			Height of eye (m)	25 m
Glare conditions code ★			Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	UNDERWAY, MAKING WAY		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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/Leaves Direction	Age:Sex	Mitigation Required?	Photo Number (if any)
Notes: No OBSERVATIONS											

★ Refer to "Codes" datasheets

# Record sheet for a moving platform survey

U

## Observation Period Information:

Company/agency  
 Platform name and type  
 Observer (s)  
 Date (DD/MM/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	
ZELADA DESGAGNES - CARGO	
EMMIE PENNEY	
02/11/2019	
1200	
<del>0/1600</del> 1545	
61°59.5N	61°37.1N
071°01.2W	069°24.3W
UNDERWAY, MAKING WAY	
20 Km	
0	
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?

2
0.5m
6kts
240°(T)
NA
NA
15 Kts
116°(T)
Starboard Port
25m
Out or In
Yes or No

**Notes:**

61° 49.9 N 070° 19.5 W @ 1342 UTC line wrapped in kelp drifting (white) (brown/green)

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	1	F	Y	C	—	—	SW	—	—	—	
NOFU	1	F	Y	D	—	—	SE	—	—	—	
PAVA	1	W	Y	C	—	—	—	—	—	—	
COMU	2	F	Y	C	—	—	S	—	—	—	
COMU	12	F	Y	B	—	—	S	—	—	—	Not 100% sure on species
COMU	2	F	Y	C	—	—	N	—	—	—	
UNK	1	F	Y	E	—	—	S	—	—	—	Dark
COMU	5	F	Y	D	—	—	S	—	—	—	
UNK	8	F	Y	F	—	—	S	—	—	—	dark
COMU	2	F	Y	C	—	—	SE	—	—	—	
GLGU	1	F	Y	B	—	—	NE	—	—	—	
COMU	3	F	Y	C	—	—	E	—	—	—	
UNK	2	F	Y	E	—	—	E	—	—	—	GREY
GLGU	5	F	Y	C	—	—	E	—	—	—	

in 5 min

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

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

Fill out one sheet per observation period

Observation Period Information:			
Company/agency	DESGAGNES	Sea state code ★	1
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	0.5 m or less
Observer (s)	EMMIE PENNEY	True wind speed (knots) OR ★ Beaufort code	6 Kts
Date (DD/MMM/YYYY)	02/11/2019	True wind direction	240 °(T)
Time at start (UTC)	1200	Ice type code★	N/A
Time at end (UTC)	1600 1545	Ice concentration code ★	N/A
Latitude at start / end	61°59.5N	True platform speed (knots)	15.0
Longitude at start / end	071°01.2W	True platform direction	116 °(T)
Visibility (km)	20 km	Observation side	Starboard Port <u>Middle</u>
Weather code ★	0	Height of eye (m)	25 m
Glare conditions code ★	1	Outdoors or Indoors	Out or <u>In</u>
Platform Activity	UNDER WAY MAKING WAY	Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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	Behavior / Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: <b>NO OBSERVATIONS</b>											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGNES	Sea state code	2
Platform name and type	ZELADA DESGAGNES - CARGO	Wave height (m)	0.25 - 0.5m
Observer (s)	EMMIE PENNEY	True wind speed (knots) OR Beaufort code	6
Date (DD/MM/YYYY)	27/10/2019	True wind direction (deg)	030°(T)
Time at start (UTC)	1400	Ice type code	N/A
Time at end (UTC)	1600	Ice concentration code	N/A
Latitude at start / end	62°43.5N   62°46.6N	True platform speed (knots)	12.5 kts
Longitude at start / end	091°49.5W   092°05.6W	True platform direction (deg)	287°(T)
Platform activity	APPROACH ANCHORAGE	Observation side	Starboard Port MID
Visibility (km)	10 km	Height of eye (m)	25 m
Weather code	2	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	1	Snapshot used?	Yes or <input checked="" type="radio"/> No

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
POJA	2	F	Y	3			N				

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	DESGAGNES		Sea state code ★	2
Platform name and type	ZELADA DESGAGNES - CARGO		Wave height (m)	0.25 - 0.5m
Observer (s)	EMMIE PENNEY		True wind speed (knots) OR ★ Beaufort code	2 Beaufort
Date (DD/MMM/YYYY)	27/10/2019		True wind direction	030° (T)
Time at start (UTC)	1400		Ice type code ★	N/A
Time at end (UTC)	1600		Ice concentration code ★	N/A
Latitude at start / end	62° 43.5 N	62° 46.6 N	True platform speed (knots)	12.5 kts
Longitude at start / end	091° 49.5 W	092° 05.6 W	True platform direction	287° (T)
Visibility (km)	10 Km		Observation side	Starboard    Port <u>Middle</u>
Weather code ★	2		Height of eye (m)	25m
Glare conditions code ★	1		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity	APPROACH ANCHORAGE		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATION											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Desgagnés / TRANSARTIK		Sea state code ★	1
Platform name and type	NORDIKA Desgagnés.		Wave height (m)	LESS THAN 1m
Observer (s)	MELINA JOBIN		True wind speed (knots) OR ★ Beaufort code	beaufort 3
Date (DD/MMM/YYYY)	28/07/2019		True wind direction	NW
Time at start (UTC)	1305 UTC		Ice type code ★	Ø
Time at end (UTC)	1335 UTC		Ice concentration code ★	NO ICE
Latitude at start / end	61° 22.3' N		True platform speed (knots)	13.8 knots
Longitude at start / end	068° 12.1' W		True platform direction	
Visibility (km)	6 km		Observation side	Starboard Port Middle
Weather code ★	1		Height of eye (m)	33.1 m
Glare conditions code ★	0		Outdoors or Indoors	Out or In
Platform Activity	UNDERWAY		Notes	

★ Refer to "Codes" datasheets



## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
28-07-2014 1305 LT	13.8	0/1	N	61° 22.3' N 068° 12.1' W	Killer Whale (1)	75m	15° STBD	Approaching observation platform	?	NO	NO
Notes:											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnés	Weather code	1 (APPENDIX)
Platform name and type	NORDIKA Desgagnés (G.L.)	Glare conditions code	3 (APPENDIX)
Observer (s)	ANN MARTIN / melina Jobin	Sea state code	1 (APPENDIX)
Date (DD/MMM/YYYY)	03/07/2019	Wave height (m)	1m
Time at start (UTC)	1300	True wind speed (knots) OR	≈ 5KTS
Latitude	61° 31.1' N	Beaufort code	2
Longitude	076° 38.1' W	True wind direction (deg)	ENE
Platform activity	Sea passage	Ice type code	Première année
Scan type	180° or other (specify: )	Ice concentration code	2/10
Scan direction	4 km	Height of eye (m)	Out or <u>In</u>
Visibility (km)		Outdoors or Indoors	33.1m

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
UNKN	20	FLY	YES	B			ND	A				
UNKN	10	FLY	YES	B			ND	A				
BLSC	4	WATER	YES	A			N/A	A+J				
BLGU	2	FLY	YES	A			ND	A				
BLSC	6	WATER	YES	A			N/A	A+J				

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	DESGAGNES	Weather code	1 (Appendix 7)
Platform name and type	NORDIKA Desgagnés	Glare conditions code	0
Observer (s)	MÉLINA JOBIN	Sea state code	1
Date (DD/MMM/YYYY)	10-07-2019	Wave height (m)	calm 0 Beaufort
Time at start (UTC)	1600 UTC TO 1700 UTC	True wind speed (knots) OR Beaufort code	3
Latitude	62° 09.0' N	True wind direction (deg)	NE
Longitude	091° 47.3' W	Ice type code	Première Année
Platform activity	180° or other (specify: )	Ice concentration code	2 / 10, variable
Scan type	AT $\downarrow$	Height of eye (m)	(Out) or In
Scan direction	5 km	Outdoors or Indoors	33.1 m
Visibility (km)			

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sub>3</sub>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
TBLU	3	Fly	Yes	A			N	A				
NOFU	1	Fly	Yes	B			ND	A				

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Desgagnés	Weather code	1
Platform name and type	NORBICA Desgagnés	Glare conditions code	0
Observer (s)	MELINA JOBIN	Sea state code	0
Date (DD/MMM/YYYY)	17/07/2019	Wave height (m)	LESS THAN 1m
Time at start (UTC)	1700 UTC	True wind speed (knots) OR	
Latitude	62° 45.6' N	Beaufort code	2
Longitude	092° 09.9' W	True wind direction (deg)	SSW
Platform activity	180° or other (specify: )	Ice type code	2/10
Scan type	AT ±	Ice concentration code	
Scan direction	7km	Height of eye (m)	Out or In
Visibility (km)		Outdoors or Indoors	33.1m

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
BLGU	8	Fly	YES	A			ND	A				
BLSC	6	Water	YES	A			N/A	A				

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	DESAGNÉS	Weather code	1
Platform name and type	NORDIKA Desgagnés	Glare conditions code	0
Observer (s)	MELINA JOBIN	Sea state code	0
Date (DD/MMM/YYYY)	24-07-2019	Wave height (m)	less than 1m
Time at start (UTC)	1800 UTC	True wind speed (knots) OR	3
Latitude	62° 46.6' N	Beaufort code	
Longitude	092° 05.7' W	True wind direction (deg)	NW
Platform activity	180° or other (specify: )	Ice type code	
Scan type	SHIP AT ⚓	Ice concentration code	1/10
Scan direction	5 km	Height of eye (m)	(Out) or In
Visibility (km)		Outdoors or Indoors	33.1 m

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
UNKN	12	Fly	Yes	A			SE	A				
UNKN	8	Fly	Yes	A			SE	'				
BLSC	2	Water	Yes	A			N/A.					

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGNES	Sea state code	1
Platform name and type	NORDIKA DESGAGNES	Wave height (m)	0.25 m
Observer (s)	LUKE GATHERALL	True wind speed (knots) OR	6 knots
Date (DD/MM/YYYY)	04-07-2019	Beaufort code	
Time at start (UTC)	2131 (74)	True wind direction (deg)	045° T
Time at end (UTC)		Ice type code	
Latitude at start / end	62° 41.9'N	Ice concentration code	
Longitude at start / end	079° 13.9'W	True platform speed (knots)	12
Platform activity	Underway	True platform direction (deg)	Starboard Port
Visibility (km)	10 km	Observation side	
Weather code	7	Height of eye (m)	Out or In
Glare conditions code		Outdoors or Indoors	Yes or No
		Snapshot used?	

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
TBMU	5	FLY	Yes	C			E					
TBMU	3	FLY	Yes	A			E					
TBMU	3	FLY	Yes	B			E					
TBMU	2	FLY	Yes	C			E					
TBMU	5	FLY	Yes	A			W					
TBMU	1	Water	Yes	A								
TBMU	6	FLY	Yes	B			E					
TBMU	5	FLY	Yes	A			W					
TBMU	1	Water	Yes	A								
TBMU	2	Water	Yes	A								
TBMU	1	FLY	Yes	A			W					
TBMU	3	Water	Yes	C								
TBMU	1	FLY	Yes	A			E					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DESGAGINÉS	Sea state code	Beaufort 3
Platform name and type	NORDIKA DESGAGINÉS	Wave height (m)	1m
Observer (s)	MELINA JOBIN (3OFF)	True wind speed (knots) OR	7.6 KNTS ENE
Date (DD/MMM/YYYY)	04/07/2019	Beaufort code	
Time at start (UTC)	2345	True wind direction (deg)	
Time at end (UTC)	0015	Ice type code	0
Latitude at start / end	62°41.9'N	Ice concentration code	0
Longitude at start / end	079°00.5'W	True platform speed (knots)	12.5 KNTS
Platform activity	NORDIKA / UNDERWAY	True platform direction (deg)	(Starboard) Port
Visibility (km)	5 km	Observation side	
Weather code		Height of eye (m)	(Out) or In
Glare conditions code		Outdoors or Indoors	Yes or (No)
		Snapshot used?	

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
UNKN	15	FLY	YES	A			W					
UNKN	20	FLY	YES	A			W					
BLGU	1	FLY	YES	A			S	A				

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(uvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)



## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	DPS OAGNIS	Sea state code	Beaufort 2
Platform name and type	NACONNA D OAGNIS	Wave height (m)	0.5m
Observer (s)	Ann Martin (AS) / BOFF MJ	True wind speed (knots) OR	6kts NNE
Date (DD/MM/YYYY)	05/07/2019	Beaufort code	
Time at start (UTC)	1240	True wind direction (deg)	
Time at end (UTC)		Ice type code	⊕
Latitude at start / end	61° 54.976' N	Ice concentration code	⊕
Longitude at start / end	033° 45.203' W	True platform speed (knots)	12.2 KTS
Platform activity	Intercept	True platform direction (deg)	Starboard Port
Visibility (km)	5km	Observation side	
Weather code		Height of eye (m)	<input checked="" type="radio"/> Out or <input type="radio"/> In
Glare conditions code		Outdoors or Indoors	Yes or <input checked="" type="radio"/> No
		Snapshot used?	

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
TBLU	8	FLY	YES	A			ND					
NOFU	1	FLY	YES	A			E					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(uvenile), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Desgagnis	Sea state code	Beaufort 3
Platform name and type	Nordika Desgagnis	Wave height (m)	0.5m
Observer (s)	Melina, Robin & Ann MARTA	True wind speed (knots) OR	6.5 KTS NNE
Date (DD/MM/YY)	05/07/19	Beaufort code	
Time at start (UTC)	0110	True wind direction (deg)	
Time at end (UTC)		Ice type code	0
Latitude at start / end	62° 27.8' N	Ice concentration code	0
Longitude at start / end	088° 33.09' W	True platform speed (knots)	7.9 KTS
Platform activity	Nordika underway	True platform direction (deg)	Starboard <input type="radio"/> Port <input checked="" type="radio"/>
Visibility (km)	5 km	Observation side	
Weather code		Height of eye (m)	Out <input type="radio"/> or In <input checked="" type="radio"/>
Glare conditions code		Outdoors or Indoors	Yes <input type="radio"/> or No <input checked="" type="radio"/>
		Snapshot used?	

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
TBLU	3	FLY	YES	A			S	A				

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(out)

## Record sheet for a **moving platform survey**

### Observation Period Information:

Company/agency	DESIGNÉS	Sea state code	Beaufort 1
Platform name and type	NORDIKA DESIGNÉS	Wave height (m)	0.5 m
Observer (s)	MÉLINA JOBIN (BOFF)	True wind speed (knots) OR Beaufort code	6 SW
Date (DD/MM/YY)	27/07/2019	True wind direction (deg)	
Time at start (UTC)	10H50	Ice type code	<input checked="" type="radio"/> NO ICE
Time at end (UTC)	11H15	Ice concentration code	<input checked="" type="radio"/>
Latitude at start / end	62° 41.9' N	True platform speed (knots)	14.1 KNTS
Longitude at start / end	078° 19.5' W	True platform direction (deg)	Starboard Port
Platform activity	HUDSON BAY / UNDERWAY	Observation side	
Visibility (km)	5 km	Height of eye (m)	<input checked="" type="radio"/> Out or In
Weather code	blue sky	Outdoors or Indoors	Yes or No
Glare conditions code		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
UNKN	9	FLY	Yes	A			N					
UNKN	22	FLY	Yes	A			N					

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)



AGNICO EAGLE

**MMSO training attendance sheet**

**Topic: MMSO procedures**

**Date:**






**Compagny: Desgagnés**

**Boat : Acadia**

**Signature**

**Name (Print)**

EMMANUEL MAUGER  
Jeremie L. Dumond  
Antoine Hérot  
Charlotte Fafard-Morrisette  
Emmanuel MAUGER

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency		Sea state code	5
Platform name and type	M/V Acadia Desgagnés	Wave height (m)	2 m
Observer (s)	Charlotte Fafard-Marrissette	True wind speed (knots) OR Beaufort code	24 Kn
Date (DD/MMM/YYYY)	29/08/2019	True wind direction (deg)	320°
Time at start (UTC)	11:15	Ice type code	0
Time at end (UTC)	18:15	Ice concentration code	0
Latitude at start / end	60°43.6'N   60°49.9'N	True platform speed (knots)	11.3 Kn
Longitude at start / end	064°16.3'W   065°08.9'W	True platform direction (deg)	327°
Platform activity		Observation side	Starboard Port
Visibility (km)	2 Km	Height of eye (m)	22 m
Weather code	2	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	1	Snapshot used?	Yes or No

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HEBG	1	Fly	A	B	20	36	NE	-	-	-	

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

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency			Sea state code ★	5
Platform name and type	M/V Acadia Desgagnés		Wave height (m)	2
Observer (s)	Charlotte Fafard-Morrisette		True wind speed (knots) OR ★ Beaufort code	24 Kn
Date (DD/MMM/YYYY)	29-08-2019		True wind direction	320°
Time at start (UTC)	1615		Ice type code★	0
Time at end (UTC)	1815		Ice concentration code ★	0
Latitude at start / end	60°43,6' N	60°49,9' N	True platform speed (knots)	11,3
Longitude at start / end	064°16,3' W	065°08,9' W	True platform direction	327°
Visibility (km)	2 Km		Observation side	<u>Starboard</u> Port Middle
Weather code ★	2		Height of eye (m)	22 m
Glare conditions code ★	1		Outdoors or Indoors	Out or <u>In</u>
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATION

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency		Sea state code	3
Platform name and type	M/V Acadia Desgagnés	Wave height (m)	* < 1m
Observer (s)	Charlotte Falarde-Morrisette	True wind speed (knots) OR Beaufort code	16 Kn
Date (DD/MMM/YYYY)	30-08-2019	True wind direction (deg)	155°
Time at start (UTC)	0930	Ice type code	0
Time at end (UTC)	1130	Ice concentration code	0
Latitude at start / end	61°33,9'N   61°45,3'N	True platform speed (knots)	9,5 Kn
Longitude at start / end	070°15,6'W   070°51,8'W	True platform direction (deg)	303°
Platform activity		Observation side	<input checked="" type="checkbox"/> Starboard <input type="checkbox"/> Port
Visibility (km)	3	Height of eye (m)	22 m
Weather code	2	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	1	Snapshot used?	Yes or No

Notes: \* 2056 UTC → 62°31,2'N / 074°11,7'W

NO OBSERVATION

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

*	* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
*	HEG	20	Fly	A	30m							

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)



# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency			Sea state code ★	3
Platform name and type	M/v Acadia Desgagnés		Wave height (m)	< 1m
Observer (s)	Charlotte Fafard-Morrisette		True wind speed (knots) OR ★ Beaufort code	16 Kn
Date (DD/MMM/YYYY)	30-08-2019		True wind direction	155°
Time at start (UTC)	0930		Ice type code ★	0
Time at end (UTC)	1130		Ice concentration code ★	0
Latitude at start / end	61°33,9'N	61°45,3'N	True platform speed (knots)	9,5 Kn
Longitude at start / end	070°15,6'W	070°51,8'W	True platform direction	303°
Visibility (km)	3		Observation side	<u>Starboard</u> Port    Middle
Weather code ★	2		Height of eye (m)	22m
Glare conditions code ★	1		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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/Sea	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATION											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	5
Platform name and type	MN Acadia Desgagnés	Wave height (m)	1
Observer (s)	Charlotte Fafard-Marrissette	True wind speed (knots) OR Beaufort code	25 Kn
Date (DD/MM/YYYY)	31-08-2019	True wind direction (deg)	240°
Time at start (UTC)	2000	Ice type code	0
Time at end (UTC)	2040	Ice concentration code	0
Latitude at start / end	62°39.1'N      62°39.4'N	True platform speed (knots)	8.7
Longitude at start / end	077°27.1'W      077°35.7'W	True platform direction (deg)	275°
Platform activity		Observation side	<input checked="" type="checkbox"/> Starboard <input type="checkbox"/> Port
Visibility (km)	4	Height of eye (m)	22 m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
TBMU	9	both	A	30 to 60m							Swimming, flying, playing around
UNGU	1	Fly	B	60m							SAGU? white with black tips on wings

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	1
Platform name and type	MN Acadia Desgagnés	Wave height (m)	0
Observer (s)	Charlotte Fafard-Morrisette	True wind speed (knots) OR Beaufort code	1kn
Date (DD/MMM/YYYY)	01-09-2019	True wind direction (deg)	015°
Time at start (UTC)	1630	Ice type code	0
Time at end (UTC)	1830	Ice concentration code	0
Latitude at start / end	63°02.4' N   63°02.1' N	True platform speed (knots)	12.5
Longitude at start / end	084°56.6' W   085°57.6' W	True platform direction (deg)	261°
Platform activity		Observation side	<input checked="" type="checkbox"/> Starboard <input type="checkbox"/> Port
Visibility (km)	4	Height of eye (m)	22m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

**Notes:**

→ 3 geese / 2 male + 1 fem / Flying North 1400 UTC  
 → 2 GLGL Flying West

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
PGJA	1	Fly	B	90m			NE				
Thayer's Gull	1	Fly	A	10m			ENE				Dirty grey all over with spot
UNJA	3	Fly	B	80m			W				Small, black & white
TBMW	4	Fly	B	95m			W				
GLGL	1	Fly	A	150m			E				
GLGL	1	Fly	A	40m			NE				Huge, bigger than normal

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, J = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency		Sea state code ★	1	
Platform name and type	M/V Acadia Desgagnés		Wave height (m)	0
Observer (s)	Charlotte Fafard-Morrisette		True wind speed (knots) OR ★ Beaufort code	1
Date (DD/MMM/YYYY)	01-09-2019		True wind direction	015°
Time at start (UTC)	1630		Ice type code★	12.5
Time at end (UTC)	1830		Ice concentration code ★	0
Latitude at start / end	63°02,4'N	63°02,1'N	True platform speed (knots)	0
Longitude at start / end	084°56,6'W	085°57,6'W	True platform direction	261°
Visibility (km)	4		Observation side	<u>Starboard</u> Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out            or <u>In</u>
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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/Sea	Mitigation Required?	Photo Number (if any)
<b>Notes:</b> NO OBSERVATION											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency		Weather code	0
Platform name and type	M/V Acadia Desgagnis	Glare conditions code	0
Observer (s)	Charlotte Fafard, M	Sea state code	0
Date (DD/MMM/YYYY)	31-08-2019	Wave height (m)	0
Time at start (UTC)	1030	True wind speed (knots) OR Beaufort code	
Latitude	62°13.4'N	True wind direction (deg)	
Longitude	075°39.5'W	Ice type code	0
Platform activity	anchor	Ice concentration code	0
Scan type	180° or other (specify: )	Height of eye (m)	22m
Scan direction		Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Visibility (km)	3		

*Notes:*

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
WADU	50	both	B	50 to 100							in black duck

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

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency		Sea state code	3
Platform name and type	M/V Acadia Desgagnés	Wave height (m)	>1m
Observer (s)	Charlotte Fafard M	True wind speed (knots) OR Beaufort code	14 Kn
Date (DD/MMM/YYYY)	11-09-2019	True wind direction (deg)	330°
Time at start (UTC)	2130	Ice type code	0
Time at end (UTC)	2330	Ice concentration code	0
Latitude at start / end	61° 57.7' N   62° 07.5' N	True platform speed (knots)	12.8 Kn
Longitude at start / end	083° 00.8' W   082° 15.9' W	True platform direction (deg)	095°
Platform activity		Observation side	<input checked="" type="radio"/> Starboard <input type="radio"/> Port
Visibility (km)	4 Km	Height of eye (m)	22 m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

*Notes:*

~~NO OBSERVATION~~

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	7	both	A	20-25m							

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



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency		Sea state code ★	3	
Platform name and type	MN Acadia Desgagnés		Wave height (m)	>1m
Observer (s)	Charlotte Fafard, M		True wind speed (knots) OR ★ Beaufort code	14 kn
Date (DD/MMM/YYYY)	11-09-2019		True wind direction	330°
Time at start (UTC)	2130		Ice type code ★	0
Time at end (UTC)	2330		Ice concentration code ★	0
Latitude at start / end	61° 57.7' N	62° 07.5' N	True platform speed (knots)	12.8 kn
Longitude at start / end	083° 00.8' W	082° 15.9' W	True platform direction	095°
Visibility (km)	4 km		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATION											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	2-3
Platform name and type	M/V Acadia Desgagnés	Wave height (m)	>1m
Observer (s)	Charlotte Fafard, M	True wind speed (knots) OR Beaufort code	12 kn
Date (DD/MM/YYYY)	12-09-2019	True wind direction (deg)	275°
Time at start (UTC)	1700	Ice type code	0
Time at end (UTC)	1900	Ice concentration code	0
Latitude at start / end	62°31.4'N   62°31.1'N	True platform speed (knots)	13.6 kn
Longitude at start / end	074°24.0'W   073°30.1'W	True platform direction (deg)	095°
Platform activity		Observation side	Starboard Port
Visibility (km)	4	Height of eye (m)	22 m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
HERG	2	Fly	A	30m							
HERG	5	Fly	B	50m							
HERG	1	Fly	A	15m							

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency		Sea state code ★	2-3	
Platform name and type	MIV Acadia Desgagnés		Wave height (m)	>1m
Observer (s)	Charlotte Fafard.M		True wind speed (knots) OR ★ Beaufort code	12 kn
Date (DD/MMM/YYYY)	12-09-2019		True wind direction	275°
Time at start (UTC)	1700		Ice type code ★	0
Time at end (UTC)	1900		Ice concentration code ★	0
Latitude at start / end	62° 31,4' N	62° 31,1' N	True platform speed (knots)	13,6 kn
Longitude at start / end	074° 24,0' W	073° 30,1' W	True platform direction	095°
Visibility (km)	4		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: NO OBSERVATION

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	3
Platform name and type	M/V Acadia Desgagnés	Wave height (m)	71m
Observer (s)	Charlotte Fafard, M	True wind speed (knots) <b>OR</b> Beaufort code	13 kn
Date (DD/MMM/YYYY)	13/09/2019	True wind direction (deg)	220°
Time at start (UTC)	0930	Ice type code	0
Time at end (UTC)	1130	Ice concentration code	0
Latitude at start / end	61° 18, 4' N   61° 05, 9' N	True platform speed (knots)	13 kn
Longitude at start / end	067° 43, 1' W   066° 59, 3' W	True platform direction (deg)	120°
Platform activity		Observation side	Starboard Port
Visibility (km)	4 km	Height of eye (m)	22 m
Weather code	1	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Glare conditions code	0	Snapshot used?	Yes or No

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
UNKN NE	1	Fly	A	2m							plover, small fast + + light in window
HERG	1	Fly	A	30m							
POJA	1	Fly	A	30m							wings & colours
HERG	4	Fly	A	20m							3 male + 1 female
UNKN	2	Fly	A	10m							plover, small, fast + +
UNGN	1	Fly	A	40m							too fast to see.

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

# MARINE MAMMAL PROGRAM



➔ Fill out one sheet per observation period

Observation Period Information:				
Company/agency		Sea state code ★	3	
Platform name and type	M/V Acadia Desgagnés		Wave height (m)	>1m
Observer (s)	Charlotte Fafard, M		True wind speed (knots) OR ★ Beaufort code	13
Date (DD/MMM/YYYY)	13/09/1994		True wind direction	220°
Time at start (UTC)	0930		Ice type code ★	0
Time at end (UTC)	1130		Ice concentration code ★	0
Latitude at start / end	61° 18.4' N	61° 05.9' N	True platform speed (knots)	13
Longitude at start / end	067° 43.1' W	066° 59.3' W	True platform direction	120°
Visibility (km)	4		Observation side	<u>Starboard</u> Port    Middle
Weather code ★	1		Height of eye (m)	22m
Glare conditions code ★	0		Outdoors or Indoors	Out    or <u>In</u>
Platform Activity			Notes	NO OBSERVATION

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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 kms)	Angle to Sighting	Behaviour/Travel Direction ★	Age:Sex	Mitigation Required?	Photo Number (if any)
Notes: NO OBSERVATION											

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM

Fill out one sheet per observation period, if no observation, write "No observation"

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: 27/07/2019: NO OBSERVATIONS

★ Refer to "Codes" datasheets  
1400-1430

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	5
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	2
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	28 kts
Date (DD/MMM/YYYY)	27/07/2019		True wind direction	W
Time at start (UTC)	1400		Ice type code ★	0
Time at end (UTC)	1430		Ice concentration code ★	0
Latitude at start / end	60°00.0'N	60°02.6'N	True platform speed (knots)	11.5
Longitude at start / end	063°03.9'W	063°12.0'W	True platform direction	320°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	1		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	2
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	2
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	16
Date (DD/MMM/YYYY)	27-07-2019	Beaufort code	W
Time at start (UTC)	2130	True wind direction (deg)	0
Time at end (UTC)	2200	Ice type code	0
Latitude at start / end	60° 42.4'N   60° 44.8'N	Ice concentration code	11.2
Longitude at start / end	065° 39.7'W   065° 49.9'W	True platform speed (knots)	301
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30 km	Observation side	22m
Weather code	0	Height of eye (m)	Out or <del>in</del>
Glare conditions code	3	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comme:
<del>GLGU</del>												
GLGU	5	FLY	Y	A	18	39	W	A	B	M		
MASH	3	FLY	Y	A	20	39	S	A	B	M		

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

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 27/07/2019 2200-2230 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE		Sea state code ★	2
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	3m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	21
Date (DD/MMM/YYYY)	27/07/2019		True wind direction	W
Time at start ( UTC )	2200		Ice type code ★	0
Time at end (UTC )	2230		Ice concentration code ★	0
Latitude at start / end	60° 44.4' N	60° 47.4' N	True platform speed (knots)	11.6
Longitude at start / end	063° 50.1' W	066° 00.7' W	True platform direction	298°
Visibility (km)	30 km		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or Indoors	Out            or            In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

### Observation Period Information:

Company/agency	AGNICO EAGLE MEADOWBANK		Sea state code ★	3
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	3
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	12 Kts
Date (DD/MMM/YYYY)	28/07/2019		True wind direction	NW
Time at start (UTC)	0030		Ice type code ★	0
Time at end (UTC)	0100		Ice concentration code ★	<del>0</del> 0
Latitude at start / end	60° 58.4' N	61° 01.2' N	True platform speed (knots)	12.9
Longitude at start / end	066° 46.6' W	066° 58.9' W	True platform direction	294
Visibility (km)	30 Km		Observation side	Starboard      Port      Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or Indoors	Out      or      In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 28/07/2019 0030-0100: NO OBSERVATIONS

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 28/07/2019 1230-1300: NO OBSERVATIONS											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	10
Date (DD/MMM/YYYY)	28/07/2019		True wind direction	NW
Time at start (UTC)	1230		Ice type code ★	0
Time at end (UTC)	1300		Ice concentration code ★	0
Latitude at start / end	62° 04.7' N	62° 07.4' N	True platform speed (knots)	12.8
Longitude at start / end	071° 30.3' W	071° 42.1' W	True platform direction	298
Visibility (km)	30 km		Observation side	Starboard      Port      Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out      or      In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	11
Date (DD/MM/YYYY)	28/07/2019	Beaufort code	NW
Time at start (UTC)	1200	True wind direction (deg)	0
Time at end (UTC)	1230	Ice type code	0
Latitude at start / end	62° 01.7'N / 62° 04.7'N	Ice concentration code	12.5
Longitude at start / end	071° 18.2'W / 071° 30.2'W	True platform speed (knots)	298
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30 Km	Observation side	22m
Weather code	0	Height of eye (m)	Out or <del>In</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
DOVE	6	FLY	Y	A	20	39	N	A	B	M		
LTDU	3	WAT	Y	B	17	66	-	A	B	F		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 28/07/2014 2000-2030 : NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE		Sea state code ★	3
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	20
Date (DD/MMM/YYYY)	28/07/2019		True wind direction	NE
Time at start (UTC)	2000		Ice type code ★	0
Time at end (UTC)	2030		Ice concentration code ★	0
Latitude at start / end	62° 21.9' N	62° 19.3' N	True platform speed (knots)	12.2
Longitude at start / end	074° 20.8' W	074° 32.4' W	True platform direction	245°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AG NICO EAGLE - MEADOW BANK	Sea state code	3
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1-2
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	24
Date (DD/MMM/YYYY)	28/07/2019	Beaufort code	NE
Time at start (UTC)	2030	True wind direction (deg)	0
Time at end (UTC)	2100	Ice type code	0
Latitude at start / end	62° 19.2' N   62° 16.2' N	Ice concentration code	12.4
Longitude at start / end	074° 33.1' W   074° 45.1' W	True platform speed (knots)	243
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30	Observation side	22m
Weather code	0	Height of eye (m)	Out or <del>In</del>
Glare conditions code	3	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
TBMV	4	WAT	Y	B	11	106	-	A	B	M		
TBMV	2	FLY	Y	A	20	39	NE	A	B	F		

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

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	2
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	14
Date (DD/MMM/YYYY)	30-07-2019	Beaufort code	E
Time at start (UTC)	0000	True wind direction (deg)	0
Time at end (UTC)	0030	Ice type code	0
Latitude at start / end	62° 31.5'N   62° 33.7'N	Ice concentration code	138
Longitude at start / end	076° 20.0'W   076° 33.7'W	True platform speed (knots)	28.7
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30 km	Observation side	22m
Weather code	0	Height of eye (m)	Out or <input checked="" type="checkbox"/> In
Glare conditions code	3	Outdoors or Indoors	Yes or <input checked="" type="checkbox"/> No
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comment
NOFY	3	WAT	Y	B	17	33	-	A	B	M		
DOVE	1	FLY	Y	A	20	39	S	A	B	M		
LESP	8	FLY	Y	A	20	39	S	A	B	M		
LTDV	1	FLY	Y	A	18	36	NE	A	B	M		
TBMU	2	FLY	Y	A	20	39	SW	A	B	M		

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



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 30-07-2014 0030 - 0100 : NO OBSERVATIONS

★ Refer to "Codes" datasheets





## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE MEADOW BANK		Sea state code ★	2
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	12
Date (DD/MMM/YYYY)	30-07-2019		True wind direction	E
Time at start (UTC)	0030		Ice type code ★	0
Time at end (UTC)	0100		Ice concentration code ★	0
Latitude at start / end	62° 33.7'N	62° 35.9'N	True platform speed (knots)	13.2
Longitude at start / end	076° 34.0'W	076° 42.3'W	True platform direction	290
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	2
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	15
Date (DD/MMM/YYYY)	30/07/2019		True wind direction	NE
Time at start (UTC)	1200		Ice type code ★	0
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	62° 15.0' N	62° 12.6' N	True platform speed (knots)	12.5
Longitude at start / end	081° 30.8' W	081° 43.7' W	True platform direction	249
Visibility (km)	30 km		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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 Requested?	Photo Number (if any)
Notes: 30/07/2019 1200-1230 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE MEADOWS BANK	Sea state code	2
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	15
Date (DD/MM/YYYY)	30/07/2019	Beaufort code	NE
Time at start (UTC)	1230	True wind direction (deg)	0
Time at end (UTC)	1300	Ice type code	0
Latitude at start / end	62° 12.6'N    62° 10.3'N	Ice concentration code	12.8
Longitude at start / end	081° 44.1'W    081° 56.2'W	True platform speed (knots)	24.7
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30	Observation side	22m
Weather code	1	Height of eye (m)	Out or <input checked="" type="checkbox"/> In
Glare conditions code	0	Outdoors or Indoors	Yes or <input checked="" type="checkbox"/> No
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
DOVE	10	FLY	Y	B	20	39	NE	A	B	M		
GLGU	1	FLY	Y	A	20	39	N	A	B	F		
BLGU	3	WAT	Y	A	10	33	-	A	B	M		
NOFU	1	FLY	Y	A	18	44	S	A	B	F		
NOFU	1	FLY	Y	A	18	44	S	I	NB	M		

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	2
Platform name and type	ACADIA DESGAGNES - CARCO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	11
Date (DD/MM/YY)	30/07/2018	Beaufort code	N
Time at start (UTC)	2130	True wind direction (deg)	0
Time at end (UTC)	2200	Ice type code	0
Latitude at start / end	62° 18.3' N   62° 20.4' N	Ice concentration code	10.2
Longitude at start / end	085° 10.0' W   085° 20.4' W	True platform speed (knots)	295
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30 km	Observation side	22 m
Weather code	0	Height of eye (m)	Out or <del>In</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
DOVE	1	FLY	Y	A	20	39	S	A	B	F		
DOVE	2	FLY	Y	A	20	29	NW	A	B	M		
WISP	8	FLY	Y	A	20	39	N	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 30/07/2019 2200-2230 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	10
Date (DD/MMM/YYYY)	30/07/2018		True wind direction	N
Time at start (UTC)	2200		Ice type code ★	0
Time at end (UTC)	2230		Ice concentration code ★	0
Latitude at start / end	62° 20.4' N	62° 22.4' N	True platform speed (knots)	10.4
Longitude at start / end	085° 20.5' W	085° 30.7' W	True platform direction	295
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	9
Date (DD/MMM/YYYY)	31/07/2019		True wind direction	N
Time at start (UTC)	0100		Ice type code ★	0
Time at end (UTC)	0130		Ice concentration code ★	0
Latitude at start / end	62° 32.2'N	62° 34.2'N	True platform speed (knots)	10.2
Longitude at start / end	086° 22.5'W	086° 32.0'W	True platform direction	294
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22m
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
<b>Notes:</b> 3/107/2019 0100-0130: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EABLE - MEADOW BANK	Sea state code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	8
Date (DD/MM/YYYY)	31/07/2019	Beaufort code	N
Time at start (UTC)	0130	True wind direction (deg)	0
Time at end (UTC)	0200	Ice type code	0
Latitude at start / end	62° 34.2'N / 62° 36.2'N	Ice concentration code	0
Longitude at start / end	086° 32.1'W / 086° 42.4'W	True platform speed (knots)	10.4
Platform activity	TRAVELLING	True platform direction (deg)	294
Visibility (km)	30	Observation side	Starboard Port
Weather code	1	Height of eye (m)	22m
Glare conditions code	3	Outdoors or Indoors	Out or <del>In</del>
		Snapshot used?	Yes or <del>No</del>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comm
BLG-u	3	FLY	Y	A	20	39	NW	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
<b>Notes:</b> 31/07/2019 1300-1330 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:			
Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code ★	0
Platform name and type	ACADIA DESGAGNES / CARGO	Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR ★ Beaufort code	6
Date (DD/MMM/YYYY)	31/07/2019	True wind direction	S
Time at start (UTC)	1300	Ice type code ★	0
Time at end (UTC)	<del>00</del> 1330	Ice concentration code ★	0
Latitude at start / end	63° 20.1'N    63° 23.4'N	True platform speed (knots)	9
Longitude at start / end	090° 35.5'W    090° 42.0'W	True platform direction	318
Visibility (km)	30	Observation side	Starboard    Port    Middle
Weather code ★	1	Height of eye (m)	22 m
Glare conditions code ★	0	Outdoors or Indoors	Out    or <input checked="" type="radio"/>
Platform Activity	TRAVELLING	Notes	NB OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	8
Date (DD/MM/YYYY)	31/07/2014	Beaufort code	5
Time at start (UTC)	1330	True wind direction (deg)	0
Time at end (UTC)	1400	Ice type code	0
Latitude at start / end	63° 23.5'N 63° 26.7'N	Ice concentration code	9.1
Longitude at start / end	090° 42.0'W 090° 48.3'W	True platform speed (knots)	3.21
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30	Observation side	22m
Weather code	1	Height of eye (m)	Out or <del>In</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comm
HERG	4	FLY	Y	A	20	36	W	A	B	M		
UNDU	3	WAT	Y	B	10	33	-	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
<b>Notes:</b> 31/07/2018 2300-2330 ! NO OBSERVATIONS											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	15
Date (DD/MMM/YYYY)	31/07/2018		True wind direction	SE
Time at start (UTC)	2300		Ice type code ★	0
Time at end (UTC)	2330		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.7' W	093° 38.7' W	True platform direction	133°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	<del>RAVELETTE</del> ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	17
Date (DD/MMM/YYYY)	01/08/2018		True wind direction	SE
Time at start (UTC)	0100		Ice type code ★	0
Time at end (UTC)	0130		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.7' W	093° 38.7' W	True platform direction	124
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	<del>ANCHOR</del> ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 01/08/2018 0100-0130 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN BADCOCK	Sea state code	1
Date (DD/MM/YYYY)	01/08/2017	Wave height (m)	1m
Time at start (UTC)	0130	True wind speed (knots) OR Beaufort code	19
Latitude	<del>63° 56.7' N</del> 63° 56.7' N	True wind direction (deg)	SE
Longitude	093° 38.7' W	Ice type code	0
Platform activity	ANCHOR	Ice concentration code	0
Scan type	180° or other (specify: <del>180°</del> )	Height of eye (m)	<del>22m</del> 22m
Scan direction	SOUTH	Outdoors or Indoors	IN
Scan direction	30		
Visibility (km)			

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
GLGU	8	WAT	Y	B	10	33	-	A	B	M		
COMV	2	FLY	Y	A	20	36	S	A	B	M		
DOVE	3	FLY	Y	A	20	36	S	A	B	M		

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J(juvenile), I(immature), or A(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGIGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN BADCOCK	Sea state code	1
Date (DD/MMM/YYYY)	31/07/2018	Wave height (m)	1
Time at start (UTC)	2330	True wind speed (knots) OR	15
Latitude	<del>63° 56.7' N</del>	Beaufort code	SE
Longitude	63° 56.7' N	True wind direction (deg)	
Platform activity	180° or other (specify: ANCHOR)	Ice type code	0
Scan type	FORWARD STBD	Ice concentration code	0
Scan direction	30 km	Height of eye (m)	<del>22m</del> 22m
Visibility (km)		Outdoors or Indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
UNDU	2	WAT	Y	B	20	60	-	A	B	F		2 ducks swimming
UNDU	10	WAT	Y	B	20	60	-	J	NB	M		with 10 ducklings
HERG	1	FLY	Y	B	11	45	S	A	B	M		
GLGH	8	WAT	Y	B	11	33	-	A	B	M		

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

# MARINE MAMMAL PROGRAM



✎ Fill out one sheet per observation period, if no observation, write "No observation"

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: 01/08/2017 1300-1330 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	<del>0</del> 1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	<del>0</del> 5
Date (DD/MMM/YYYY)	01/08/2017		True wind direction	W
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.7' W	093° 38.7' W	True platform direction	110
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22
Glare conditions code ★	1		Outdoors or Indoors	Out    or <input checked="" type="radio"/> In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	1
Observer (s)	STEPHEN BADCOCK	Sea state code	0
Date (DD/MM/YYYY)	01/08/2019	Wave height (m)	< 1m
Time at start (UTC)	1330	True wind speed (knots) OR	5 kts
Latitude	63° 56.7' N	Beaufort code	
Longitude	093° 38.7' W	True wind direction (deg)	W
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: ANCHOR)	Ice concentration code	0
Scan direction	FWD → STBD	Height of eye (m)	<del>22m</del> 22m
Visibility (km)	30	Outdoors or Indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
HERG	2	FLY	Y	C	21	36	S	A	B	M		
GLGU	1	FLY	Y	B	20	36	N	A	B	F		
GIGU	1	FLY	Y	B	20	36	N	I	NB	M		
COLD	2	FLY	Y	B	20	36	N	A	B	M		
NOEY	1	WAT	Y	B	11	30	-	A	B	F		

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



# MARINE MAMMAL PROGRAM

✎ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	11
Date (DD/MMM/YYYY)	02/08/2019		True wind direction	N
Time at start (UTC)	0100		Ice type code ★	0
Time at end (UTC)	0130		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.6' W	093° 38.6' W	True platform direction	020°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets





### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN BADCOCK	Sea state code	0
Date (DD/MM/YY)	02/08/2019	Wave height (m)	< 1m
Time at start (UTC)	0130	True wind speed (knots) OR	10
Latitude	63° 56.7' N	Beaufort code	N
Longitude	093° 38.6' W	True wind direction (deg)	
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: ANCHOR)	Ice concentration code	0
Scan direction	FWD - STBD	Height of eye (m)	<del>22m</del> 22m
Visibility (km)	30	Outdoors or Indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
NOFU	40-50	WAT	Y	C	Z8	60	~	A	B	M		* MANY BIRDS
NOFU	30	WAT	Y	C	Z8	60	-	I	NB	M		A ROCK FORMAT RESTING, FLYING BACK & FORTH
BLSC	2	FLY	Y	A	Z0	39	<	A	B	F		

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

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	3
Observer (s)	STEPHEN RADCOCK	Sea state code	0
Date (DD/MMM/YYYY)	02/08/2019	Wave height (m)	< 1m
Time at start (UTC)	1330	True wind speed (knots) OR Beaufort code	3
Latitude	63° 56.7' N	True wind direction (deg)	SE
Longitude	093° 38.6' W	Ice type code	0
Platform activity	ANCHOR	Ice concentration code	0
Scan type	180° or other (specify: ANCHOR)	Height of eye (m)	<del>22m</del> 22m
Scan direction	FWD - STBD	Outdoors or Indoors	IN
Visibility (km)	30		

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
NOFU	8	FLY	Y	A	20	36	N	A	B	M		
ARFU	3	FLY	Y	A	70	36	N	I	NB	M		
LTDU	4	WAT	Y	C	10	33	-	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	2
Date (DD/MMM/YYYY)	02/08/2019		True wind direction	SE
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.6' W	093° 38.6' W	True platform direction	080°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 02/08/2019 1300-1330 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets



## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	4
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	27
Date (DD/MMM/YYYY)	05/08/2019		True wind direction	SE
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	63° 56.7' N	63° 56.7' N	True platform speed (knots)	0
Longitude at start / end	093° 38.7' W	093° 38.7' W	True platform direction	110°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	5		Height of eye (m)	22
Glare conditions code ★	1		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 05/08/2019 1300-1330 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	5
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	1
Observer (s)	STEPHEN RADCOCK	Sea state code	4
Date (DD/MMM/YYYY)	05/08/2019	Wave height (m)	2m
Time at start (UTC)	1330	True wind speed (knots) OR	26
Latitude	63° 56.7' N	Beaufort code	SE
Longitude	093° 38.7' W	True wind direction (deg)	
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: <del>ANCHOR</del> )	Ice concentration code	0
Scan direction	FWD → STBD	Height of eye (m)	<del>22m</del> 22m
Visibility (km)	30	Outdoors or Indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
HERG	3	FLY	Y	A	20	36	N	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	4
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	2m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	23
Date (DD/MMM/YYYY)	06/08/2019		True wind direction	E
Time at start (UTC)	0100		Ice type code ★	0
Time at end (UTC)	0130		Ice concentration code ★	0
Latitude at start / end	63° 56.7'N	63° 56.7'N	True platform speed (knots)	0
Longitude at start / end	093° 38.7'W	093° 38.7'W	True platform direction	088
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets





# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travl 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: 06/08/2019 0100-0130 : NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN RADCOCK	Sea state code	4
Date (DD/MMM/YYYY)	06/08/2019	Wave height (m)	2
Time at start (UTC)	0130	True wind speed (knots) OR	22
Latitude	63° 56.7' N	Beaufort code	
Longitude	093° 38.7' W	True wind direction (deg)	E
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: <del>180</del> )	Ice concentration code	0
Scan direction	FWD - STBP	Height of eye (m)	<del>22</del> 22m
Visibility (km)	30	Outdoors or Indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
HERIG	1	FLY	Y	A	Z0	36	N	A	B	F		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	2
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	22
Date (DD/MMM/YYYY)	06/08/2019		True wind direction	E
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	63° 56.7'N	63° 56.7'N.	True platform speed (knots)	0
Longitude at start / end	093° 38.7'W	093° 38.7'W	True platform direction	082
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22
Glare conditions code ★	1		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 06/08/2019 1300-1330: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	1
Observer (s)	STEPHEN RADCOCK	Sea state code	2
Date (DD/MM/YYYY)	06/08/2019	Wave height (m)	1
Time at start (UTC)	1330	True wind speed (knots) OR	23
Latitude	63° 56.7' N	Beaufort code	
Longitude	093° 38.7' W	True wind direction (deg)	E
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: <del>180</del> )	Ice concentration code	0
Scan direction	FWD - STRD	Height of eye (m)	<del>22m</del> 22m
Visibility (km)	30	Outdoors or indoors	IN

**Notes:**

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
BLGU	1	FLY	Y	A	20	36	E	A	B	M		
HERG	1	FLY	Y	A	20	36	N	I	NB	M		
NOFU	2	FLY	Y	A	20	39	E	I	NB	M		

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

✎ Fill out one sheet per observation period

Observation Period Information:

Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	2
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	17
Date (DD/MM/YYYY)	07/08/2019		True wind direction	E
Time at start (UTC)	0100		Ice type code ★	0
Time at end (UTC)	0130		Ice concentration code ★	0
Latitude at start / end	63° 56.7'N	63° 56.7'N	True platform speed (knots)	0
Longitude at start / end	093° 38.7'W	093° 38.7'W	True platform direction	078°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out    or <input checked="" type="radio"/>
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travl 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	Behavior/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes: 07/08/2019 0100-0130: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN RADCOCK	Sea state code	2
Date (DD/MM/YY)	07/08/2019	Wave height (m)	1
Time at start (UTC)	0130	True wind speed (knots) OR	18
Latitude	63° 56.7' N	Beaufort code	
Longitude	093° 38.7' W	True wind direction (deg)	E
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: <del>180</del> )	Ice concentration code	0
Scan direction	FWD → STBD	Height of eye (m)	<del>22m</del> 22m
Visibility (km)	30	Outdoors or Indoors	IN

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
HERG	1	FLY	Y	A	20	36	W	A	B	F		
HERG	1	FLY	Y	A	20	36	W	I	NB	M		
POJA	1	FLY	Y	A	19	36	E	A	B	M		* Came to ship rested on our crane

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





# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 07/08/2019 1300-1330: NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

✈ Fill out one sheet per observation period

### Observation Period Information:

Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	< 1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	7
Date (DD/MMM/YYYY)	07/08/2019		True wind direction	NE
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	63° 56.6' N	63° 56.6' N	True platform speed (knots)	0
Longitude at start / end	093° 38.6' W	093° 38.6' W	True platform direction	015°
Visibility (km)	30		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/>
Weather code ★	0		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out <input type="radio"/> or <input checked="" type="radio"/>
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN RADCOCK	Sea state code	1
Date (DD/MMM/YYYY)	07/08/2019	Wave height (m)	< 1
Time at start (UTC)	1330	True wind speed (knots) OR Beaufort code	7
Latitude	63° 56.6' N	True wind direction (deg)	NE
Longitude	093° 38.6' W	Ice type code	0
Platform activity	ANCHOR	Ice concentration code	0
Scan type	180° or other (specify: <del>360</del> )	Height of eye (m)	<del>22.1</del> 22.1
Scan direction	FWD STBD	Outdoors or Indoors	IN
Visibility (km)	30		

*Notes:*

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	C
HERG	2	FLY	Y	B	20	36	S	I	NB	M		
HERG	1	FLY	Y	B	20	36	S	A	B	F		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	0
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	5
Date (DD/MMM/YYYY)	08/08/2019		True wind direction	NE
Time at start ( UTC )	0100		Ice type code★	0
Time at end (UTC )	0130		Ice concentration code ★	0
Latitude at start / end	64° 17.9' N	64° 17.9' N	True platform speed (knots)	0
Longitude at start / end	095° 59.6' W	095° 59.7' W	True platform direction	015°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out            or            In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 08/08/2019 0100-0130: NO OBSERVATIONS

★ Refer to "Codes" datasheets

### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	0
Observer (s)	STEPHEN BADCOCK	Sea state code	
Date (DD/MMM/YYYY)	08/08/2019	Wave height (m)	0
Time at start (UTC)	0130	True wind speed (knots) OR Beaufort code	2
Latitude	64° 17.9' N	True wind direction (deg)	E
Longitude	095° 59.7' W	Ice type code	0
Platform activity	ANCHOR	Ice concentration code	0
Scan type	180° or other (specify: <del>180</del> )	Height of eye (m)	<del>22.0</del> 22.0
Scan direction	FWD - STBD	Outdoors or Indoors	IN
Visibility (km)	30		

**Notes:**  
 THE VESSEL MOVED FROM HELICOPTER ISLAND TO BAKER LAKE DURING THE AFTERNOON.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	C
GLGU	1	FLY	Y	B	20	36	E	A	B	M		
UNGU	2	WAT	Y	B	11	33	-	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	14
Date (DD/MMM/YYYY)	08/08/2019		True wind direction	NE
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	64° 12.9' N	64° 17.9' N.	True platform speed (knots)	0
Longitude at start / end	095° 59.7' W	095° 59.7' W	True platform direction	018°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22.
Glare conditions code ★	2		Outdoors or Indoors	Out    or    In
Platform Activity	ANCHOR		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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: 08/08/2019 1300-1330: NO OBSERVATIONS											

★ Refer to "Codes" datasheets



## Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	AGNICO EAGLE MEADOW BANK	Weather code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Glare conditions code	2
Observer (s)	STEPHEN RADCOCK	Sea state code	1
Date (DD/MM/YYYY)	08/08/2019	Wave height (m)	< 1
Time at start (UTC)	1330	True wind speed (knots) OR	15
Latitude	64° 17.9' N	Beaufort code	
Longitude	095° 59.7' W	True wind direction (deg)	NE
Platform activity	ANCHOR	Ice type code	0
Scan type	180° or other (specify: <del>180°</del> )	Ice concentration code	0
Scan direction	FWD - STRD	Height of eye (m)	<del>30</del>
Visibility (km)	30	Outdoors or Indoors	IN

**Notes:**  
 A FLOCK OF GEESE WAS SPOTED BUT THERE IS NO CODE FOR THE.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA
GLGU	10	FLY	Y	B	20	36	W	A	B	M	
GEESE	8	FLY	Y	B	20	36	W	A	B	M	

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



AGNICO EAGLE

## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	9
Date (DD/MM/YY)	13/08/2019		True wind direction	E
Time at start (UTC)	1300		Ice type code ★	0
Time at end (UTC)	1330		Ice concentration code ★	0
Latitude at start / end	62° 27.6' N	62° 25.0' N	True platform speed (knots)	13
Longitude at start / end	085° 57.9' W	085° 44.7' W	True platform direction	113
Visibility (km)	2		Observation side	Starboard    Port    Middle
Weather code ★	3		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	1
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	9
Date (DD/MMM/YYYY)	13/08/2019	Beaufort code	SE
Time at start (UTC)	1330	True wind direction (deg)	0
Time at end (UTC)	1400	Ice type code	0
Latitude at start / end	62° 25.0'N / 62° 22.5'N	Ice concentration code	13.2
Longitude at start / end	085° 44.5'W / 085° 32.0'W	True platform speed (knots)	113 <sup>4</sup>
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	2	Observation side	22m
Weather code	3	Height of eye (m)	Out or <del>In</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <u>No</u>
		Snapshot used?	

**Notes:**  
 Small birds, more likely "least sandpiper" but no code

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comm
least sandpiper	1	FLY	Y	A	20	36	N	A	B	M		
BLGV	1	WAT	Y	A	11	33	-	A	B	M		

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

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	ACNIC EAGLE - MEADOW BANK	Sea state code	1
Platform name and type	ACADIA DESGAGNES - CARBO	Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	6
Date (DD/MM/YYYY)	14/08/2019	Beaufort code	NE
Time at start (UTC)	0030	True wind direction (deg)	0
Time at end (UTC)	0100	Ice type code	0
Latitude at start / end	62° 20.7'N   62° 22.9'N	Ice concentration code	13.2
Longitude at start / end	081° 00.0'W   080° 47.5'W	True platform speed (knots)	0.69°
Platform activity	TRAVELLING	True platform direction (deg)	Starboard ~ Port
Visibility (km)	30	Observation side	22m
Weather code	0	Height of eye (m)	Out or <del>In</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
BLGU	6	WAT	Y	R	11	33	-	A	B	M		
DOVE	4	FLY	Y	A	20	39	SW	A	B	M		

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	1
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	< 1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	8
Date (DD/MMM/YYYY)	14/08/2019		True wind direction	NE
Time at start (UTC)	0000		Ice type code ★	0
Time at end (UTC)	0030		Ice concentration code ★	0
Latitude at start / end	62° 18.4'N	62° 20.7'N	True platform speed (knots)	13.4
Longitude at start / end	081° 13.2'W	081° 00.0'W	True platform direction	0.73°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	0		Height of eye (m)	22m
Glare conditions code ★	0		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	4 HARP SEALS

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

Fill out one sheet per observation period, if no observation, write "No observation"

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)
14/08/19 0016	071° 13.3kts	0	N	62° 19.2'N 081° 08.4'W	HARP SEAL x 4	1km	60°	33/ S	A/m	N	
Notes: 14/08/2019 0000 - 0030											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State <sup>★</sup>	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long (Garmin GPS)	Species, Number of Individuals <sup>★</sup>	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction <sup>★</sup>	Age/Sex	Mitigation Required?	Photo Number (if any)
14/08/19 1215	097° 12.9k	1/0	N	62° 36.0'N 075° 25.4'W	Killer whale x4	600m	75°	33/5	A	N	
Notes: 14/08/2019 1200 - 1230											

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

## Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	0
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	9
Date (DD/MMM/YYYY)	14/08/2019		True wind direction	E
Time at start (UTC)	1200		Ice type code ★	0
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	62° 36.6' N	62° 35.8' N	True platform speed (knots)	12.9
Longitude at start / end	075° 29.6' W	075° 15.8' W	True platform direction	097°
Visibility (km)	30		Observation side	Starboard    Port    Middle
Weather code ★	1		Height of eye (m)	22 m
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	4 Killer whales

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	0
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	8
Date (DD/MM/YYYY)	14/08/2014	Beaufort code	E
Time at start (UTC)	1230	True wind direction (deg)	0
Time at end (UTC)	1300	Ice type code	0
Latitude at start / end	60° 35.8'N / 60° 35.0'N	Ice concentration code	12.7
Longitude at start / end	075° 15.5'W / 075° 02.1'W	True platform speed (knots)	0.7°
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	30	Observation side	22m
Weather code	1	Height of eye (m)	Out or <input checked="" type="checkbox"/> In
Glare conditions code	3	Outdoors or Indoors	Yes or <input checked="" type="checkbox"/> No
		Snapshot used?	

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comm
NOFU	10	FLY	Y	A	18	39	E	A	B	M		
DOVE	3	FLY	Y	A	20	39	W	A	B	M		

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	3
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	2
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	18
Date (DD/MMM/YYYY)	14/08/2019	Beaufort code	E
Time at start (UTC)	2130	True wind direction (deg)	0
Time at end (UTC)	2200	Ice type code	0
Latitude at start / end	62° 08.9'N / 62° 06.2'N	Ice concentration code	13
Longitude at start / end	071° 24.4'W / 071° 13.4'W	True platform speed (knots)	11.9°
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Pt
Visibility (km)	30	Observation side	22m
Weather code	4	Height of eye (m)	Out or <del>in</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA
HERG	2	FLY	1	B	20	39	W	A	B	M	

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

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	AGNICO EAGLE · MEADOW BANK		Sea state code ★	3
Platform name and type	ACADIA DESGAGNES - CARGO		Wave height (m)	2
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	16
Date (DD/MMM/YYYY)	14/08/2019		True wind direction	E
Time at start (UTC)	2200		Ice type code ★	0
Time at end (UTC)	2230		Ice concentration code ★	0
Latitude at start / end	62° 06.1' N	62° 03.0' N	True platform speed (knots)	12.8
Longitude at start / end	071° 13.2' W	071° 00.4' W	True platform direction	117°
Visibility (km)	30		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/>
Weather code ★	4		Height of eye (m)	22
Glare conditions code ★	0		Outdoors or Indoors	Out <input type="radio"/> or <input checked="" type="radio"/>
Platform Activity	AGNICO EAGLE TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets

## MARINE MAMMAL PROGRAM

Fill out one sheet per observation period, if no observation, write "No observation"

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: 14/08/2019 2200-2230: NO OBSERVATIONS											

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

**Observation Period Information:**

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	3
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	2
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	21
Date (DD/MM/YYYY)	15/08/2019	Beaufort code	E
Time at start (UTC)	0000	True wind direction (deg)	0
Time at end (UTC)	0030	Ice type code	0
Latitude at start / end	61° 54.9' N   61° 52.0' N	Ice concentration code	11.7
Longitude at start / end	070° 27.1' W   070° 16.0' W	True platform speed (knots)	119°
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Pc
Visibility (km)	15	Observation side	22m
Weather code	2	Height of eye (m)	Out or <del>SE</del>
Glare conditions code	0	Outdoors or Indoors	Yes or <del>N</del>
		Snapshot used?	

*Notes:*

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum <sup>4</sup>	Sex	LSA or RSA
DOVE	3	FLY	Y	B	20	39	W	A	B	M	
GLGU	2	FLY	Y	A	20	39	NW	A	B	M	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J(juvenile), I(immature), or A(adult); <sup>4</sup> B(receding), NB(non-breeding), M(oult)

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	3
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	2
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	23
Date (DD/MM/YY)	15/08/2019		True wind direction	E
Time at start (UTC)	0030		Ice type code ★	0
Time at end (UTC)	0100		Ice concentration code ★	0
Latitude at start / end	61° 51.9' N	61° 49.3' N	True platform speed (knots)	11.8
Longitude at start / end	070° 15.6' W	070° 05.0' W	True platform direction	117°
Visibility (km)	20		Observation side	Starboard    Port    Middle
Weather code ★	2		Height of eye (m)	22 m
Glare conditions code ★	0		Outdoors or Indoors	Out    or <input checked="" type="checkbox"/> Indoors
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets







AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

Observation Period Information				
Company/agency	AGNICO EAGLE - MEADOW BANK		Sea state code ★	0
Platform name and type	ACADIA DESGAGNES / CARGO		Wave height (m)	1m
Observer (s)	STEPHEN BADCOCK		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	15/08/2019		True wind direction	SE
Time at start (UTC)	1200		Ice type code ★	0
Time at end (UTC)	1230		Ice concentration code ★	0
Latitude at start / end	60° 45.8' N	60° 42.7' N	True platform speed (knots)	12.4
Longitude at start / end	065° 51.0' W	065° 39.2' W	True platform direction	117°
Visibility (km)	15		Observation side	Starboard    Port    Middle
Weather code ★	2		Height of eye (m)	22m
Glare conditions code ★	3		Outdoors or Indoors	Out    or    In
Platform Activity	TRAVELLING		Notes	NO OBSERVATIONS

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

» Fill out one sheet per observation period, if no observation, write "No observation"

Date and Time of Sighting	Vessel Travel Direction and Speed	Weather / Sea State <span style="float: right;">★</span>	Re-Sighting? (Y or N)	Sighting Waypoint or Lat/Long (Garmin GPS)	Species, Number of Individuals <span style="float: right;">★</span>	Distance to Animal (m or km)	Angle to Sighting	Behaviour/Travel Direction <span style="float: right;">★</span>	Age/Sex	Mitigation Required?	Photo Number (if any)

Notes: 15/08/2019 1200-1230: NO OBSERVATIONS

★ Refer to "Codes" datasheets

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	AGNICO EAGLE - MEADOW BANK	Sea state code	0
Platform name and type	ACADIA DESGAGNES - CARGO	Wave height (m)	1
Observer (s)	STEPHEN BADCOCK	True wind speed (knots) OR	6
Date (DD/MM/YY)	15/08/2019	Beaufort code	SF
Time at start (UTC)	1230	True wind direction (deg)	0
Time at end (UTC)	1300	Ice type code	0
Latitude at start / end	60° 42.7' N / 60° 39.7' N	Ice concentration code	12.5
Longitude at start / end	065° 39.0' W / 065° 27.7' W	True platform speed (knots)	119°
Platform activity	TRAVELLING	True platform direction (deg)	Starboard Port
Visibility (km)	20	Observation side	22m
Weather code	0	Height of eye (m)	Out or <del>In</del>
Glare conditions code	3	Outdoors or Indoors	Yes or <del>No</del>
		Snapshot used?	

**Notes:**

---

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
GLGV	2	FLY	Y	A	20	39	W	A	B	M		
GLGV	2	FLY	Y	A	20	39	W	T	NB	M		

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

Desmond Ina Ksajak Start: 0400 Lat 63°, 21.90 long 090°, 38.70

Herring Gull Time 06:23 Lat 63°, 37.72 Long 091°, 24.63 count: 1  
Activity: Scavenging Distance: 100m

Polar bear Time 06:45 lat 63°, 38.51 long 091°, 32.81 count: 1  
Activity: Scavenging Distance: 100m

Land animal Time 07:02 lat 63°, 40.90 long 091°, 37.87 count: 2  
Activity: Travelling Distance: 200m

Herring Gull Time 07:11 Lat 63°, 42.35 long 091°, 40.92 count: 1  
Activity: Scavenging Distance: 150m

Herring Gull Time 07:26 lat 63°, 43.56 long 091°, 46.00 count: 1 Activity: Resting  
Distance: 150m

Herring Gull Time 07:28 lat 63°, 43.56 long 091°, 47.00 count: 1 Activity: Flying  
Distance 200m

Arctic Tern Time 07:37 lat 63°, 43.43 long 091°, 51.51 count: 1 Activity: Flying  
Distance: 50m

Herring Gull Time 08:00 lat 63°, 43.06 long 092°, 02.14 count: 1 Activity: Flying  
Distance 150m

Desmond Finish at 08:00

Simon Peter start 08:00 08/23/2019

NOFO Time 08<sup>20</sup> Lat 63° 43.8 long 092° 10.6

Flying. weather #2. Glare #1. Distance B.

2 COLO Time 08<sup>35</sup> Lat 63° 45.1 long 092° 14.1

Flying Distance C. Glare #1

Simon Peter

white rumped sandpiper <sup>count</sup> 1 Time 0940. Lat 63° 49.8  
Long 092° 43.8 on Bridge

RTLO count 2 Flying. Time 10<sup>00</sup> (Distance C)  
Lat 63° 52.8 Long 092° 50.7

HERG count 1 Flying - Time 1045 Lat: 63° 56.4 long 093° 07.8  
Distance E. Scavenging

HERG count 6 on land. Time 1055 Lat 63° 57.0  
Long 093° 11.5 (Distance E)

Thayer gull count 1 Time 11<sup>00</sup> Lat 63° 58.3  
Long 093° 22.5 (Distance A) Flying

LTJA count 27 Flying Time 11<sup>35</sup> Lat 63° 57.6 long 093° 32.5  
Distance E)

~~1~~

Simon Peter Finished 1140

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency		Sea state code	
Platform name and type		Wave height (m)	
Observer (s)		True wind speed (knots) <b>OR</b>	
Date (DD/MM/YYYY)	22/07/2019	Beaufort code	
Time at start (UTC)	09:00	True wind direction (deg)	
Time at end (UTC)		Ice type code	
Latitude at start / end	63° 49, 21N	Ice concentration code	
Longitude at start / end	092° 42, 14W	True platform speed (knots)	
Platform activity		True platform direction (deg)	
Visibility (km)		Observation side	Starboard Port
Weather code		Height of eye (m)	
Glare conditions code		Outdoors or Indoors	Out or In
		Snapshot used?	Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
Herring Gull	60+	Island		50m		60					LSA	63° 44, 67N 092°
Common loon	11	water then fly		50m		71					RSA	63° 45, 74N 092°
Common loon	4	fly		50m		49						63° 46, 13N 092°
Sand hill crane	2	fly		50m		49						63° 47, 45N 093°
Common loon	13	fly		200m		49						63° 48, 83N 093°
Herring Gull	1	fly		200m		49						63° 49, 17N 093°
Common loon	2	water then fly		100m		60 then 71						63° 51, 47N 093°
Common loon	3	fly		100m		71						63° 52, 57N 093°
Falcon	1	crane		50m		40						63° 53, 63N 093°
thick billed murre	1	fly		50m		40						63° 54, 2N 093°
thick billed murre		water		100m		32					RSA	63° 56, 56N 093° 07
Common loon	8	water		160m		66					LSA	63° 57, 66N 093° 16, 47W
thick billed murre	2	fly		100m		40					LSA	63° 57, 66N 093° 16, 47W
Common loon	5	water		200m		40					RSA	63° 57, 76N 093° 19, 03W
Herring Gull	1	fly		300m		40					RSA	63° 57, 76N 093° 19, 03W
Common eider	5	fly		50m		40					RSA	63° 58, 35N 093° 22, 16W

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (reeding), NB (non-breeding), M (oult)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency		Weather code	
Platform name and type		Glare conditions code	
Observer (s)		Sea state code	
Date (DD/MMM/YYYY)		Wave height (m)	
Time at start (UTC)		True wind speed (knots) <b>OR</b>	
Latitude		Beaufort code	
Longitude		True wind direction (deg)	
Platform activity	180° or other (specify: )	Ice type code	
Scan type		Ice concentration code	
Scan direction		Height of eye (m)	Out or In
Visibility (km)		Outdoors or Indoors	

### Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sub>3</sub>	Plum. <sup>4</sup>	Sex	LSA or RSA	Comments
Atlantic Brant	25	Fly	<del>PS</del>	25m		71						63°32'N 93°28'W 10:4
Herring Gull	1	Water		100m		40						63°58'N 93°28'W 10:5
Common Loon	1	Water		200m		40						63°58'N 93°47'W 10:5
Peregrine Falcon	1			5m		60						63°58'N 93°29'W 10:5
Common Eider	26	Water		200m		40						63°31'N 93°31'W 11:0
Long-tailed Jaeger	1	Fly		25m		36						63°57'N 93°32'W 11:0
Herring Gull	2	Water		100m		40						63°57'N 93°33'W 11:0
Common Loon	2	Water		300m		40						63°57'N 93°33'W 11:0
White-rumped Sandpiper	1	Fly		25m		36						63°56'W 93°34'W 11:1
Herring Gull	32			300m		60						63°56'W 93°35'W 11:2
Common Loon	3	Water		300m		40						63°56'N 93°35'W 11:2
Herring Gull	3	Fly		300m		36						63°56'N 93°35'W 11:2
Herring Gull	1	Water		400m		40						63°56'N 93°35'W 11:3
Common Loon	1	Water		400m		40						63°56'N 93°35'W 11:3
Herring Gull	2	Water		400m		40						63°56'N 93°36'W 11:3
Peregrine Falcon	1	Fly		300m		40						63°56'N 93°36'W 11:3

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

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)
09:00	upstream and 13.3KN	Calm	N	63°49,21'N 092°42,14'W	1 Common loon	50m		<del>downstream</del> searching downstream			
09:03	upstream and	Calm	Y		1 Common loon	100m		Swimming towards land			
09:05	upstream	Calm	N		3 Common loon						
09:07	upstream and 13.2KN	Calm	N		1 long tailed Jaeger						
09:09	upstream	Calm	N								
09:15	upstream	Calm	N	63°52,5'N 092°47,4'W							
Notes:											





AGNICO EAGLE

MMSO training attendance sheet

Topic: MMSO procedures

Date:

Compagny: Desgagnés

Boat : Rosaire A. Desgagnés.

Name (Print)

Signature

Emman MAUGER

*[Handwritten signature in green ink]*

Étienne Blanchette

Charles Bibeault

*[Handwritten signature in green ink]*

Simon Ducharme

*[Handwritten signature in black ink]*

Emman MAUGER

*[Handwritten signature in black ink]*

Étienne Blanchette

*[Handwritten signature in black ink]*

Empty lined area for printing names.

Empty lined area for signatures.

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Groupe Desgagnés	Sea state code	3-4
Platform name and type	Rosaire A. Desgagnés / Ship	Wave height (m)	1m
Observer (s)	Etienne Blanchette	True wind speed (knots) OR Beaufort code	5-6
Date (DD/MMM/YYYY)	05/10/2019	True wind direction (deg)	280°
Time at start (UTC)	1900	Ice type code	-
Time at end (UTC)	2100	Ice concentration code	-
Latitude at start / end	60° 03.1' N      60° 22.0' N	True platform speed (knots)	13
Longitude at start / end	063° 38.5' W      064° 05.4' W	True platform direction (deg)	337°
Platform activity	Sailing	Observation side	Starboard <input checked="" type="checkbox"/> Port <input checked="" type="checkbox"/>
Visibility (km)	20	Height of eye (m)	26.5
Weather code	1	Outdoors or Indoors	Out <input type="checkbox"/> or In <input checked="" type="checkbox"/>
Glare conditions code	1	Snapshot used?	Yes <input type="checkbox"/> or No <input checked="" type="checkbox"/>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLGU	6	Water	Yes	B	Yes	-	-	-	-	-	
NOFU	10	Fly	Yes	A	Yes	-	230 W	-	-	-	

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	Groupe Desgagnés	Sea state code	2
Platform name and type	Rosaire A Desgagnés / ship	Wave height (m)	< 1 m
Observer (s)	Etienne Blanchette	True wind speed (knots) OR Beaufort code	3
Date (DD/MM/YYYY)	06/10/2019	True wind direction (deg)	200°
Time at start (UTC)	1600	Ice type code	-
Time at end (UTC)	1800	Ice concentration code	-
Latitude at start / end	62° 10.1' N      62° 22.2' N	True platform speed (knots)	14
Longitude at start / end	071° 39.0' W      072° 30.0' W	True platform direction (deg)	295
Platform activity	Sailing	Observation side	Starboard <input checked="" type="checkbox"/> Port <input checked="" type="checkbox"/>
Visibility (km)	> 25	Height of eye (m)	26.5 m
Weather code	1	Outdoors or Indoors	Out <input type="checkbox"/> or <input checked="" type="checkbox"/>
Glare conditions code	1	Snapshot used?	Yes <input type="checkbox"/> or <input checked="" type="checkbox"/>

**Notes:**

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
NOFU	7	Fly	Yes	C	Yes	-	NE	-	-	-	
Least Sandripper	2	Fly	Yes	A	Yes	-	VAR	-	-	-	
GLU	3	water	Yes	B	Yes	-	-	-	-	-	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

## Record sheet for a moving platform survey

### 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

Groupe Desgagnés	
Roseice A Desgagnés / ship	
Etienne Blanchette	
07/10/2019	
1600	
1800	
62° 02.7' N	62° 04.9' N
083° 16.7' W	084° 16.5' W
sailing	
20	
1	
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?

3
1m
5
000°
-
-
14
279°
Starboard <input checked="" type="checkbox"/> Port <input checked="" type="checkbox"/>
26.5m
Out <input type="checkbox"/> or <input checked="" type="checkbox"/>
Yes <input type="checkbox"/> or <input checked="" type="checkbox"/>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLGU	6	W	Yes	D	Yes	-	-	-	-	-	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, Z = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

## Record sheet for a moving platform survey

**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

Groupe Desjardins	
Recherche et Développement	
Simon Lehoucque	
17/10/2019	
1600	
1800	
62°03.4'N	62°06.2'N
083°44.0'W	082°39.7'W
Sailing	
20	
1	
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?

3
1m
4
015
-
-
13
076
Starboard Port
26.5m
Out or In
Yes or No

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLGU	12	Fly	yes	B	yes	-	ND	-	-	-	
Thayers gull	3	FLY	NO	B	NO	-	ND	-	-	-	

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

## Record sheet for a moving platform survey

### Observation Period Information:

Company/agency	<i>Groupe Desjardins</i>	Sea state code	<b>3</b>
Platform name and type	<i>Passive A Desjardins</i>	Wave height (m)	<b>1</b>
Observer (s)	<i>Simon Archambeault</i>	True wind speed (knots) OR Beaufort code	<b>4</b>
Date (DD/MMM/YYYY)	<i>18/10/2019</i>	True wind direction (deg)	<b>335°</b>
Time at start (UTC)	<i>1400</i>	Ice type code	<b>-</b>
Time at end (UTC)	<i>1600</i>	Ice concentration code	<b>-</b>
Latitude at start / end	<i>62°13.3'N / 62°00.8'N</i>	True platform speed (knots)	<b>15</b>
Longitude at start / end	<i>072°07.6'W / 071°11.3'W</i>	True platform direction (deg)	<b>116°</b>
Platform activity	<i>Sailing</i>	Observation side	Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/>
Visibility (km)	<i>20</i>	Height of eye (m)	<b>20.5m</b>
Weather code	<b>1</b>	Outdoors or Indoors	Out <input type="checkbox"/> or In <input checked="" type="checkbox"/>
Glare conditions code	<b>1</b>	Snapshot used?	Yes <input type="checkbox"/> or No <input checked="" type="checkbox"/>

Notes:

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

* Species	* Count	* Fly or Water?	* In transect?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<i>Least sandpiper</i>	<i>2</i>	<i>F</i>	<i>NO</i>	<i>A</i>	<i>NO</i>	<i>-</i>	<i>NO</i>	<i>-</i>	<i>-</i>	<i>-</i>	
<i>BLGU</i>	<i>7</i>	<i>W</i>	<i>Yes</i>	<i>B</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.  
<sup>2</sup> Indicate flight direction (N, NE, E, SE, S, SW, W, or NW); ND = no apparent direction  
<sup>3</sup> J (juvenile), I (immature), or A (adult); <sup>4</sup> B (breeding), NB (non-breeding), M (molt)

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Groupe Desgagnés		Sea state code ★	3-4
Platform name and type	Roseice A Desgagnés / Ship		Wave height (m)	1m
Observer (s)	Étienne Blanchette		True wind speed (knots) OR ★ Beaufort code	5-6
Date (DD/MMM/YYYY)	05 / 10 / 2019		True wind direction	280°
Time at start ( UTC )	1900		Ice type code★	-
Time at end (UTC )	2100		Ice concentration code ★	-
Latitude at start / end	60° 03.1' N	60° 22.0' N	True platform speed (knots)	13
Longitude at start / end	063° 38.5' W	064° 05.4' W	True platform direction	337
Visibility (km)	20		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/>
Weather code ★	1		Height of eye (m)	26.5
Glare conditions code ★	1		Outdoors or Indoors	Out or <input checked="" type="radio"/>
Platform Activity	Sailing		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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 (in or km)	Angle to Sighting	Behaviour/Travel Direction ★	Age/Sex	Mitigation Required?	Photo Number (if any)
Notes:											

*No Observations*

★ Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Groupe Desjardins		Sea state code ★	2
Platform name and type	Roseire A Desjardins / Ship		Wave height (m)	< 1m
Observer (s)	Étienne Blanchette		True wind speed (knots) OR ★ Beaufort code	3
Date (DD/MMM/YYYY)	06/10/2019		True wind direction	200°
Time at start (UTC)	1600		Ice type code ★	-
Time at end (UTC)	1800		Ice concentration code ★	-
Latitude at start / end	62° 10.1' N	62° 22.2' N	True platform speed (knots)	14
Longitude at start / end	071° 39.0' W	072° 30.0' W	True platform direction	295°
Visibility (km)	> 25		Observation side	Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/>
Weather code ★	1		Height of eye (m)	26.5
Glare conditions code ★	1		Outdoors or Indoors	Out <input checked="" type="checkbox"/> or <input type="checkbox"/> <input type="checkbox"/>
Platform Activity	Sailing		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
06/10/2019 1740	200° 14 kts	1 / 2	Y	62° 19.8' N 072° 18.4' W	Bowhead 3-4	~ 7 km	020°	270°	-	-	-
Notes:											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	Groupe Desgagnés		Sea state code ★	3
Platform name and type	Rosaire A Desgagnés		Wave height (m)	1m
Observer (s)	Étienne Blanchette		True wind speed (knots) OR ★ Beaufort code	5
Date (DD/MMM/YYYY)	07 / 10 / 2019		True wind direction	000°
Time at start ( UTC )	1600		Ice type code ★	-
Time at end (UTC )	1800		Ice concentration code ★	-
Latitude at start / end	62° 02.7' N	62° 04.9' N	True platform speed (knots)	14
Longitude at start / end	083° 16.7' W	084° 16.5' W	True platform direction	274°
Visibility (km)	20		Observation side	Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/>
Weather code ★	1		Height of eye (m)	26.5
Glare conditions code ★	1		Outdoors or Indoors	Out <input checked="" type="radio"/> or <input type="radio"/> In <input type="radio"/>
Platform Activity	Sailing		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
			<i>No Observations</i>								
Notes:											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	<i>Groupe Desjardins</i>		Sea state code ★	3
Platform name and type	<i>Posaire St Desjardins, Ship</i>		Wave height (m)	1
Observer (s)	<i>Simon Gachaine</i>		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	<i>L17/10/2019</i>		True wind direction	015
Time at start (UTC)	<i>1600</i>		Ice type code ★	-
Time at end (UTC)	<i>1800</i>		Ice concentration code ★	-
Latitude at start / end	<i>62°03.4'N</i>	<i>62°06.2'N</i>	True platform speed (knots)	13
Longitude at start / end	<i>083°44.0'W</i>	<i>082°39.7'W</i>	True platform direction	076°
Visibility (km)	<i>20</i>		Observation side	Starboard <del>Port</del> Middle
Weather code ★	<i>1</i>		Height of eye (m)	<i>26.5 m</i>
Glare conditions code ★	<i>1</i>		Outdoors or Indoors	<u>Out</u> or In
Platform Activity	<i>Sailing</i>		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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:											

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



➤ Fill out one sheet per observation period

Observation Period Information:				
Company/agency	<i>Groupe Desjardins</i>		Sea state code ★	3
Platform name and type	<i>Ressort A Desjardins</i>		Wave height (m)	1
Observer (s)	<i>Simon Lachance</i>		True wind speed (knots) OR ★ Beaufort code	4
Date (DD/MMM/YYYY)	<i>18/10/2019</i>		True wind direction	335
Time at start ( UTC )	<i>1400</i>		Ice type code★	-
Time at end (UTC )	<i>1600</i>		Ice concentration code ★	-
Latitude at start / end	<i>62°13,3'N</i>	<i>62°00,8'W</i>	True platform speed (knots)	15
Longitude at start / end	<i>072°07,6'W</i>	<i>071°11,3'W</i>	True platform direction	116°
Visibility (km)	<i>20</i>		Observation side	Starboard <del>Port</del> Middle
Weather code ★	<i>1</i>		Height of eye (m)	<i>26,5 m</i>
Glare conditions code ★	<i>1</i>		Outdoors or Indoors	Out or <u>In</u>
Platform Activity	<i>Sighting</i>		Notes	

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM



AGNICO EAGLE

➤ Fill out one sheet per observation period, if no observation, write "No observation"

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)
2019-10-18 1535 UTC	080° 15 kts	1m	Y	62° 02.8' N 071° 22.5' W	Killer whale 3	200m	90° Port	In group E	-	-	-
Notes:											

★ Refer to "Codes" datasheets



### Record sheet for a stationary platform survey

**Scan Information:**

Company/agency	Groupe Deshayes	Weather code	1
Platform name and type	Passive A/Deshayes	Glare conditions code	1
Observer (s)	Simon Dubane	Sea state code	4.5m 4
Date (DD/MMM/YYYY)	08/10/2019	Wave height (m)	1.5m
Time at start (UTC)	1200 / 1400	True wind speed (knots) OR Beaufort code	7
Latitude	62°46,6'N	True wind direction (deg)	135
Longitude	092°05,7'W	Ice type code	-
Platform activity	Slip Anchor	Ice concentration code	-
Scan type	180° or other (specify: 360 )	Height of eye (m)	26.5 m
Scan direction	ALL	Outdoors or Indoors	<input checked="" type="radio"/> Out or <input type="radio"/> In
Visibility (km)	1		

**Notes:**

Very high wind.

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments	
No Observations												

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(uvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	<i>Groupa Deshayes</i>	Weather code	9
Platform name and type	<i>Passive A Deshayes</i>	Glare conditions code	1
Observer (s)	<i>Suman Yachewee</i>	Sea state code	<i>1m 3</i>
Date (DD/MMM/YYYY)	<i>09/10/2019</i>	Wave height (m)	<i>1m</i>
Time at start (UTC)	<i>1200 / 1400</i>	True wind speed (knots) OR Beaufort code	<i>7</i>
Latitude	<i>62° 46.6' N</i>	True wind direction (deg)	<i>225</i>
Longitude	<i>092° 05.7' W</i>	Ice type code	-
Platform activity	<i>Ship Anchor</i>	Ice concentration code	-
Scan type	180° or other (specify: <i>360</i> )	Height of eye (m)	<i>26.5'</i>
Scan direction	<i>ALL</i>	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Visibility (km)	<i>20</i>		

**Notes:**

*Strong wind.*

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<del>No Observations</del>											

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Groupe Desjardins	Weather code	1
Platform name and type	Rosivie A. Desjardins	Glare conditions code	1
Observer (s)	Saman Guilhaud	Sea state code	3
Date (DD/MMM/YYYY)	10/10/2019	Wave height (m)	1m
Time at start (UTC)	1200 / 1400	True wind speed (knots) OR Beaufort code	8-9
Latitude	62°46.6'N	True wind direction (deg)	300°
Longitude	092°05.7'W	Ice type code	-
Platform activity	Ship Airlift	Ice concentration code	-
Scan type	180° or other (specify: 340 )	Height of eye (m)	26.5m
Scan direction	All	Outdoors or Indoors	Out or <input checked="" type="radio"/> In
Visibility (km)	15		

### Notes:

Strong wind.

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

* Species	* Count	* Fly or Water?	* In semi- circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
No observations											

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juveniles), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)





## Record sheet for a stationary platform survey

### Scan Information:

Company/agency	Groupe Desjardins	Weather code	1
Platform name and type	Desjardins et Desjardins	Glare conditions code	1
Observer (s)	Simon Gauthier	Sea state code	3
Date (DD/MMM/YYYY)	13/10/2019	Wave height (m)	1m
Time at start (UTC)	1200/1400	True wind speed (knots) OR Beaufort code	5
Latitude	63°57.1'N	True wind direction (deg)	192°
Longitude	093°35.0'W	Ice type code	-
Platform activity	Ship Anchor	Ice concentration code	-
Scan type	180° or other (specify: 360 )	Height of eye (m)	26.5'
Scan direction	All	Outdoors or Indoors	Out or <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">In</span>
Visibility (km)	15		

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLGW	20+	both	360°	A, B, C	Yes	-	NO	A	-	-	
Palegmina Falcon	3	FLY	360°	A, B	Yes	-	NO	A	-	-	

<sup>1</sup> A = 0-50m, B = 51-100m, C = 101-200m, D = 201-300m, E = > 300m, 3 = within 300m but no distance recorded.

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

<sup>3</sup> J(juvenile), I(mature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

## 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)

*Groupe Deshayes*  
*Parasail A, Deshayes*  
*Simon Archambeault*  
*17/10/2019*  
*1200 / 1400*  
*62°46.6'N*  
*092°05.7'W*  
*Ship Anchor*  
 180° or other (specify: *360*)  
*All*  
*15*

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

*1*  
*1*  
*1*  
*<0.5m*  
*3*  
*015°*  
*-*  
*-*  
*26.5m*  
 Out or  In

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
<i>GLGU</i>	<i>20+</i>	<i>both</i>	<i>360°</i>	<i>A, B, C</i>	<i>Yes</i>	<i>-</i>	<i>ND</i>	<i>M</i>	<i>-</i>	<i>-</i>	
<i>Least sandpiper</i>	<i>6</i>	<i>FLY</i>	<i>360°</i>	<i>A</i>	<i>Yes</i>	<i>-</i>	<i>ND</i>	<i>-</i>	<i>-</i>	<i>-</i>	

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





### 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)

Orange Porphyries
Passive & Mesophyes
Sunan Gubunie
16/10/2019
1200 / 1400
62° 46.6' N
092° 05.7' W
Ship Anchor
180° or other (specify: 360)
All
15 km

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
2
<1m
2
012°
-
-
20.5 m
Out or <input checked="" type="radio"/> In

Notes:

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

* Species	* Count	* Fly or Water?	* In semi-circle?	* Distance <sup>1</sup>	Assoc.	Behav.	Flight Direc. <sup>2</sup>	Age <sup>3</sup>	Plum. <sup>4</sup>	Sex	Comments
GLGU	20+	both	360°	A, B, C	Yes	-	ND	-	-	-	
Least moult	3	Fly	360°	A	Yes	-	ND	-	-	-	

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

63°55.3' N 093°58.6' W SWAN

Auk Island 7 0.34 NM

63°55.5250N 093°59.2258 W NM TIME 11:40

Canada geese 45

63°58.4160 N 094°04.5561 W NO ANMILE'S 12:10

63°58.7911 094°05.6295 NO ANMILE'S 12:15

63°59.1334 094°06.5681 NO ANMILE'S 12:20

63°59.3147 094°07.7283 1 Seagull NM 12:24

63°59.4073 094°08.7071 1 Seagull NM 12:27

63°59.4168 094°09.3345 1 Seagull ON ROCK 12:30

63°59.5054 094°10.1260 1 Seagull 2 NM 12:33

63°59.5864 094°10.9347 NO ANMILE'S 12:37

63°59.7432 094°11.7225 NO ANMILE'S 12:40

63°59.7685 094°13.3191 NO ANMILE'S 12:45

63°59.6911 094°13.4876 NO ANMILE'S 12:48

63°59.6818 094°15.2918 NO ANMILE'S 12:54

63°59.6266 094°16.0322 NO ANMILE'S 12:57

63°59.5878 094°16.4065 NO ANMILE'S 12:59

63°59.5654 094°16.7032 2 Birds 12:02

63°59.5306 094°17.1691 1 Seagull 1:05

63°59.5759 094°17.4710 1 Seagull 1 NM 1:07

63°59.6243 094°17.9435 1 Raven ON Land 1:09

63°59.5884 094°18.4358 22 Seagull ON Small Island 1:12

63°59.5667 094°18.8282 1 Seagull NM 1:13

63°59.8107 094°19.2763 NO ANMILE'S 1:16

64°00.12551 094°19.4295 1 Bird NM 1:17

64°00.6435 094°19.4907 NO ANMILE'S 1:20

64°01.3617 094°19.1303 NO ANMILE'S 1:24

64°01.9124 094°18.6455 NO ANMILE'S 1:29

64°02.3562 094°19.0765 NO ANMILE'S 1:31

64°02.5975 094°19.6791 1 Seagull NM 1:34

64°03.1652 094°20.0186 NO ANMILE'S 1:38

64°03.5965 094°22.1917 NO ANMILE'S 1:41

64°03.9571 094°22.6411 NO ANMILE'S 1:44

64°04.5766 094°22.7479 NO ANMILE'S 1:47

64°05.2716 094°23.0511 NO ANMILE'S 1:50

64°05.8649 094°23.6494 NO ANMILE'S 1:53

64°05.0511 094°27.6825 NO ANMILE'S 2:05

Barge → David Turner

64° 07. 1386° 094° 32. 0496° NO ANMIES 2:17  
 64° 07. 2186° 094° 33. 8432° (seen) 2:17 NM  
 64° 07. 4030° 094° 35. 7111° NO ANMIES 2:21  
 64° 07. 6129° 094° 37. 5234° NO ANMIES 2:25  
 64° 07. 7032° 094° 38. 2916° 1 geese NM 2:27  
 64° 07. 9893° 094° 40. 6292° NO ANMIES 2:31



20 039  
 1/19

63° 59. 7763' W

2 Geese 12:57  
~~2~~ 2 Miles

094° 12. 7665 W

63° 59. 7906 N

2 Seagals  
1 Mile 12:59

094° 11. 8432 W

63° 59. 3949 N

35 Canada Geese 1:06

094° 08 3186 W

63° 58. 2149 N

Ducks  
a Mile 1:15

094° 04. 1167 W

63° 57. 0559 N

094° 02. 8668 W

No ANMiles 1:22

63° 56. 1338 N

094° 00. 6620 W

No ANMiles 1:28

63° 55. 9318 N

094° 00 0218 W

6 Geese 1:29  
80 Yards

63° 55. 4811 N

093° 58. 9345 W

2 Kimtown Seagal 1:33

63° 55. 1548 N

093° 57. 3267 W

No ANMiles 1:35

63° 55. 3899 N

093° 55. 6793 W

Canada goose 1:41  
1 Mile

63° 56. 4269 N

No ANMiles 1:50

093° 50 0925 W

63° 57. 2609 N

1 Seagal 1.5 Miles  
# 2:00

093° 46. 7780 W

63° 57. 6155 N

No ANMiles 2:09

093° 41. 4683 W

63° 56. 7316 N

18 Ducks 2:15

093° 39. 2444 W

63° 56. 3364 N

10 Canada 2:18

093° 38. 9806 W

63° 56. 1917 N

No ANMiles 2:21

093° 36. 8950 W

63° 56. 4570 N

No ANMiles 2:26

093° 36. 7042 W

63° 56. 5107 N

No ANMiles 2:30

093° 37. 1285 W

63° 56. 3134 N

No ANMiles 2:52

093° 37. 1346 W

63° 56. 3102 N

No ANMiles 2:58

093° 37. 1301 W

63° 56. 3544 N

No ANMiles 3:13

093° 37. 0996 W

geese TIME 8:30 30 geese 64'  
~~km~~ km on land

64° 15-1 North 095° 39-1 West

64° 12.524' North

095. 07. 1060 West NO ANMiel 21:28

64° 12. 2848' North

095. 15. 4429 West NO ANMiel @2633

64- 12. 0716' North 2 Seagal 1 KM

095° 13. 8093 West

21:38

64° 11. 8338 North 1 Seagal on water 1 KM

095° 11. 9619 West

21:40

64° 11. 6213 North

~~095° 10. 2394~~ 095° 10. 2394

NO ANMiel on sight

64° 06. ~~090°~~ 090° North

21:46

094° 25. 8322 West

11:48

64° 00. 0619' N

NO ANIMALS

094° 19 4559 W

2 Ducks 19:30

63° 59. 7098 N

094° 19 0582 W

6 Seagals 12:36

63° 59. 5692 N

5 geese

094° 18. 7105 W

NO ANMiel'S 12:39

63° 59. 6008 N

094° 17. 4575 W

2 Seagals 2 Miles 12:45

63° 59. 5911 N

094° 16. 3033 W

2 geese 1000 Yards 12:50

63° 59. 7105 N

094° 13. 7917 W

NO ANMiel'S

12:55

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: SEPT 19 / 2019  
 Vessel: Dora  
 Direction: Baker Lake  
 Weather: cloudy and windy  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 4:43 4:50

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
SEPT 19 / 2019 4:47	64.27523 N 95.8316 W	Seagals	2	3 km	120 clock	f1	0

Signature: David Turner      Date: SEPT 19 / 2019

**Agnico-Eagle Mines:**  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*  
 Date: *SEPT 19/2019*  
 Vessel: *dura*  
 Direction: *Baker Lake*  
 Weather: *cloudy windy 32KM*  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *20:30 00:30*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>SEPT 19/2019 10:41</i>	<i>65.01665°N 96.0669</i>	<i>Seagull</i>	<i>1</i>	<i>3KM</i>	<i>2 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 11:03</i>	<i>64.30164°N 95.9538</i>	<i>Seagull</i>	<i>1</i>	<i>2KM</i>	<i>3 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 11:29</i>	<i>64.30164°N 95.9538</i>	<i>Seagulls</i>	<i>2</i>	<i>1KM</i>	<i>3 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 11:20</i>	<i>64.29327°N 95.9534</i>	<i>Seagull</i>	<i>1</i>	<i>2KM</i>	<i>4 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 1:23</i>	<i>64.30164°N 95.9538</i>	<i>Seagull</i>	<i>1</i>	<i>2KM</i>	<i>2 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 4:17</i>	<i>64.27523°N 95.8310</i>	<i>NO ANIMALS</i>	<i>0</i>				<i>0</i>
<i>SEPT 19/2019 4:20</i>	<i>64.27523°N 95.8310</i>	<i>Seagull</i>	<i>1</i>	<i>1KM</i>	<i>3 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 4:33</i>	<i>64.27523°N 95.8310</i>	<i>NO BIRDS</i>	<i>0</i>				<i>0</i>
<i>SEPT 19/2019 4:38</i>	<i>64.27523°N 95.8310</i>	<i>Seagulls</i>	<i>2</i>	<i>2KM</i>	<i>12 o'clock</i>	<i>f1</i>	<i>0</i>
<i>SEPT 19/2019 4:41</i>	<i>64.27523°N 95.8310</i>	<i>Seagull</i>	<i>1</i>	<i>3KM</i>	<i>12 o'clock</i>	<i>f1</i>	<i>0</i>

Signature:

Date:

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner

Date: SEPT 20/2019

Vessel: Dara

Direction: Baker Lake

Weather: Cloudy

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 9:19 10:40

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
SEPT 20/2019 9:20	64.29365°N 95.9517°	NO ANIMALS	0				0
SEPT 20/2019 9:31	64.27523°N 95.8310°	NO ANIMALS	0				0
SEPT 20/2019 9:36	64.27523°N 95.8310°	NO ANIMALS	0				0
SEPT 20/2019 9:43	64.27523°N 95.8310°	Seasal	1	1 km	120 clock	f1	0
SEPT 20/2019 9:51	64.27523°N 95.8310°	NO BIRDS	0				0
SEPT 20/2019 10:40	64.28355°N 95.9141°	Seasal	1	1 km	110 clock	re on water	0
SEPT 20/2019 10:56	64.26906°N 95.8217°	Seasal	1	1 km	110 clock	f1	0
SEPT 20/2019 11:06	64.26193°N 95.7625°	NO ANIMALS	0	0			0
SEPT 20/2019 11:15	64.27523°N 95.8310°	NO ANIMALS	0	0			0
SEPT 20/2019 11:20	64.27523°N 95.8310°	NO ANIMALS	0	0			0

Signature: David Turner

Date: SEPT 20/2019



**Agnico-Eagle Mines:  
Meadowbank Division Environment Department**



**AGNICO EAGLE**  
MEADOWBANK

Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*

Date: *Sept 20 2019*

Vessel: *Dora*

Direction: *Narrow*

Weather: *cloudy*

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *11:22 11:56*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 20 2019 11:22</i>	<i>64.27523°N 95.8310°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:00</i>	<i>64.22059° 95.4105°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:10</i>	<i>64.21328° 95.3479°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:21</i>	<i>64.20480° 95.2770°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:32</i>	<i>64.19697° 95.2086°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:44</i>	<i>64.18747° 95.1271°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 12:51</i>	<i>64.18286° 95.0873°</i>	<i>SNOW GESE</i>	<i>50</i>	<i>6KM</i>	<i>9 o'clock</i>	<i>RE</i>	<i>0</i>
<i>Sept 20 2019 12:59</i>	<i>64.17602° 95.0303°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 1:08</i>	<i>64.16976° 94.9773°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>
<i>Sept 20 2019 1:19</i>	<i>64.16149° 94.9059°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>			<i>0</i>

Signature:

Date:

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 20/2019  
 Vessel: Dava  
 Direction: narrow  
 Weather: Cloudy  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 1:37

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 20/2019 1:40	64.14577° 94.7677	No ANIMALS	0	0			0
Sept 20/2019 1:56	64.13270° 94.6673°	No ANIMALS	0	0			0
Sept 20/2019 2:04	64.12632° 94.6161°	Seagull	1	3KM	8 o'clock	Re	0
Sept 20/2019 2:10	64.12222° 94.5788°	No ANIMALS	0	0			0
Sept 20/2019 2:23	64.11897° 94.4882°	SNOW GEOSE	10	5KM	10 o'clock	Re	0
Sept 20/2019 2:30	64.11861° 94.4437°	SNOW GEOSE	15	7KM	8 o'clock	Re	0
Sept 20/2019 2:36	64.11264° 94.4089°	Seagull	1	3KM	3 o'clock	RE	0
Sept 20/2019 2:48	64.08951° 94.3846°	NO ANIMALS	0	0			0
Sept 20/2019 2:49	64.07661° 94.3787°	NO ANIMALS	0	0			0
Sept 20/2019 2:58	64.06376° 94.3728°	NO ANIMALS	0	0			0

Signature: David Turner Date: Sept 20/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 20/2019  
 Vessel: Darr  
 Direction: narrow  
 Weather: cloudy and sunny  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 2:57

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 20/2019 3:00	64.14092' 94.4878	NO ANIMAL'S	0	0	0		0
Sept 20/2019 3:04	64.14092' 94.4878	NO ANIMAL'S	0	0	0		0
Sept 20/2019 3:08	64.14092' 94.4878	NO ANIMAL'S	0	0	0		0
Sept 20/2019 3:18	64.14092' 94.4878	Sea Gals	2	KM	2 o'clock	f1	0
Sept 20/2019 3:21	64.02216' 94.3106	Sea Gals	3	900	4 o'clock	Re	0
Sept 20/2019 3:27	64.02216' 94.3106	NO ANIMAL'S	0	0	0		0
Sept 20/2019 3:32	64.02216' 94.3106	Wolf	1	6 KM	3 o'clock	WS	0
Sept 20/2019 3:39	64.02216' 94.3106	NO ANIMAL'S	0	0	0		0
Sept 20/2019 3:42	64.02216' 94.3106	Bald Eagle	1	1 KM	5 o'clock	f1	0
Sept 20/2019 3:46	64.02216' 94.3106	NO ANIMAL'S	0	0	0		0

Signature: David Turner

Date: Sept 20/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*  
 Date: *Sept 20 2019*  
 Vessel: *QARA*  
 Direction: *Northern*  
 Weather: *cloudy*

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *3:52 4:31*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 20/2019 3:52</i>	<i>63.99508 94.1758</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 3:57</i>	<i>63.99508 94.1758</i>	<i>Canadian Greese</i>	<i>100</i>	<i>12 KM</i>	<i>10 o'clock</i>	<i>f1</i>	<i>0</i>
<i>Sept 20/2019 4:02</i>	<i>63.99508 94.1758</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:05</i>	<i>64.02216 94.306</i>	<i>Seasal</i>	<i>1</i>	<i>3 KM</i>	<i>10 o'clock</i>	<i>f1</i>	<i>0</i>
<i>Sept 20/2019 4:10</i>	<i>63.95279 94.0232</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:14</i>	<i>63.95279 94.0232</i>	<i>Seasal</i>	<i>1</i>	<i>2 KM</i>	<i>10 o'clock</i>	<i>f1</i>	<i>0</i>
<i>Sept 20/2019 4:18</i>	<i>63.95279 94.0232</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:34</i>	<i>63.89815 93.8765</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:40</i>	<i>63.89815 93.8765</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:44</i>	<i>63.89815 93.8765</i>	<i>No ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>

Signature: *David Turner* Date: *Sept 20/2019*

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*

Date: *Sept 20/2019*

Vessel: *None*

Direction: *Narrow*

Weather: *cloudy*

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *4:46 5:07*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 20/2019 4:49</i>	<i>63.95809 93.7857</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:53</i>	<i>63.95809 93.7857</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 4:57</i>	<i>63.95809 93.7857</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 5:00</i>	<i>63.95809 93.7857</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 20/2019 5:04</i>	<i>63.95809 93.7857</i>	<i>Sea Seal</i>	<i>1</i>	<i>3km</i>	<i>3 o'clock</i>	<i>F1</i>	<i>0</i>

Signature:

Date:

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*  
 Date: *Sept 21/2019*  
 Vessel: *Dora*  
 Direction: *helicopter island*  
 Weather: *cloudy Rain windy*  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *7:56 8:57*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 21/2019 8:10</i>	<i>63.93573° 93.6254</i>	<i>NO ANIMAL'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 21/2019 8:19</i>	<i>63.93573° 93.6254</i>	<i>NO ANIMAL'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 21/2019 8:21</i>	<i>63.93573° 93.6254</i>	<i>NO ANIMAL'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 21/2019 8:36</i>	<i>63.93573° 93.6254</i>	<i>NO ANIMAL'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 21/2019 8:45</i>	<i>63.93573° 93.6254</i>	<i>NO ANIMAL'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>

Signature: *David Turner*

Date: *Sept 21/2019*

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 21/2019  
 Vessel: Dorra  
 Direction: Narrow  
 Weather: cloudy windy Rain  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 00:00E 1:13

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 21/2019 13:39	63.95983° 93.7200	Sea Seal	1	5 KM	7 o'clock	Re	0
Sept 21/2019 13:41	63.95943° 93.7310	Sea Seal	1	400	5 o'clock	f1	0
Sept 21/2019 13:46	63.95774° 93.7532	No Animals	0	0	0		0
Sept 21/2019 13:50	63.95552° 93.7735	No Animals	0	0	0		0
Sept 21/2019 14:00	63.95342° 93.7889	No Animals	0	0	0		0
Sept 21/2019 14:04	63.94310° 93.8295	No Animals	0	0	0		0
Sept 21/2019 14:08	63.93656° 93.8463	No Animals	0	0	0		0
Sept 21/2019 14:14	63.93283° 93.8668	No Animals	0	0	0		0
Sept 21/2019 14:19	63.92971° 93.8884	No Animals	0	0	0		0
Sept 21/2019	63.92667° 93.9079	No Animals	0	0	0		0

Signature: David Turner

Date: Sept 21/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 21/2019  
 Vessel: Dana  
 Direction: Narrow  
 Weather: Cloudy Rain wind Y  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 14:26

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 21/2019 14:28	63.92356° 93.9309	NO ANIMALS	0	0	0		0
Sept 21/2019 14:35	63.9449° 93.9591'	NO ANIMALS	0	0	0		0
Sept 21/2019 14:42	63.9220° 93.9872	Seagull	1	km	3 o'clock	Re	0
Sept 21/2019 14:46	63.93031° 93.9959	Seagull	1	1 km	4 o'clock	f1	0
Sept 21/2019 14:50	63.93763° 93.0160	Bald Eagle	1	5 km	11 o'clock	f1	0
Sept 21/2019 14:53	63.94161° 94.0243	Seagull	1	2 km	2 o'clock	f1	0
Sept 21/2019 14:59	63.94874° 94.0437	NO ANIMALS	0	0	0		0
Sept 21/2019 15:01	63.95188° 94.0535	Fox	1	4 km	8 o'clock	WS	0
Sept 21/2019 15:06	63.95815° 94.0639	Hawk	1	4 km	5 o'clock	f1	0
Sept 21/2019 15:10	63.96582° 94.0683	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 21/2019



Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 21 / 2019  
 Vessel: Dater  
 Direction: Narrow  
 Weather: cloudy wind  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 15:12

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 21 / 2019 15:15	63.97460° 94.0753	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:18	63.95279° 94.0232	Seagull	1	300	10 o'clock	fl	0
Sept 21 / 2019 15:21	63.95275° 94.0232	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:26	63.95279° 94.0232	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:31	63.95279° 94.0232	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:34	63.99508° 94.1758	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:37	63.99508° 94.1758	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:38	63.99508° 94.1758	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:51	64.02216° 94.3106	NO ANIMALS	0	0	0		0
Sept 21 / 2019 15:56	64.02216° 94.3106	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 21 / 2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner

Date: Sept 21 / 2019

Vessel: Data

Direction: Narrow

Weather: cloudy wind

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 15:58

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 21 / 2019 16:01	64.02211° 94.3106	SNOW GOOSE	60	4 km	3 o'clock	Re	0
Sept 21 / 2019 16:05	64.02211° 94.3106	NO ANIMAL'S	0	0	0		0
Sept 21 / 2019 16:08	64.02216° 94.3106	HAWK	1	km	9 o'clock	f1	0
Sept 21 / 2019 16:11	64.02216° 94.3106	MUSTOX	1	km	6 o'clock	WS	0
Sept 21 / 2019 16:13	64.02216° 94.3106	DUCK	1	800	8 o'clock	f1	0
Sept 21 / 2019 16:16	64.02216° 94.3106	SEALS	2	300	5 o'clock	Re	0
Sept 21 / 2019 16:19	64.02216° 94.3106	NO ANIMAL'S	0	0	0		0
Sept 21 / 2019 16:24	64.02216° 94.3106	NO ANIMAL'S	0	0	0		0
Sept 21 / 2019 16:27	64.02216° 94.3106	NO ANIMAL'S	0	0	0		0
Sept 21 / 2019 16:32	64.02216° 94.3106	NO ANIMAL'S	0	0	0		0

Signature: David Turner

Date: Sept 21 / 2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 21 / 2019  
 Vessel: Para  
 Direction: Narrow  
 Weather: Cloudy wind  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 16:34 17:06

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 21 / 2019 16:38	64.02216° 94.3106	NO ANIMALS	0	0	0		0
Sept 21 / 2019 16:42	64.02216° 94.3106	NO ANIMALS	0	0	0		0
Sept 21 / 2019 16:44	64.02216° 94.3106	NO ANIMALS	0	0	0		0
Sept 21 / 2019 16:49	64.08917° 94.38134	SNOW GEESE	60	8 km	3 o'clock	Re	0
Sept 21 / 2019 16:51	64.02216° 94.3106	SNOW GEESE	110	10 km	5 o'clock	Re	0
Sept 21 / 2019 16:54	64.14092° 94.4878	NO ANIMALS	0	0	0		0
Sept 21 / 2019 16:58	64.14092° 94.4878	NO ANIMALS	0	0	0		0
Sept 21 / 2019 17:02	64.14092° 94.4878	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 21 / 2019

**Agnico-Eagle Mines:  
Meadowbank Division Environment Department**



**AGNICO EAGLE**  
MEADOWBANK

Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*  
 Date: *Sept 22 / 2019*  
 Vessel: *Dara*  
 Direction: *Barker Lake*  
 Weather: *cloudy*  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *11:58*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 22 / 2019 00:12</i>	<i>64.27523° 95.8310°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 00:06</i>	<i>64.27523° 95.8310°</i>	<i>Seagulls</i>	<i>2</i>	<i>1 km</i>	<i>10 clock</i>		<i>0</i>
<i>Sept 22 / 2019 00:12</i>	<i>64.27523° 94.8310°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 00:18</i>	<i>64.27523° 95.8310°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 00:23</i>	<i>64.27523° 95.8310°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 12:26</i>	<i>64.27523° 95.8310°</i>	<i>Seagull</i>	<i>1</i>	<i>2 km</i>	<i>11 o'clock</i>	<i>F1</i>	<i>0</i>
<i>Sept 22 / 2019 12:33</i>	<i>64.27523° 95.8310°</i>	<i>NO BIRD'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 12:38</i>	<i>64.27523° 95.8310°</i>	<i>NO BIRD'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 12:49</i>	<i>64.27523° 95.8310°</i>	<i>NO BIRD'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22 / 2019 12:55</i>	<i>64.27523° 95.8310°</i>	<i>NO BIRD'S</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>

Signature: *David Turner*

Date: *Sept 22 / 2019*

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*  
 Date: *Sept 22 2019*  
 Vessel: *Oara*  
 Direction:  
 Weather: *cloudy wind*  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *12:57*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 22/2019 1:01</i>	<i>64.24140° 95.5803</i>	<i>NO Bird's</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:04</i>	<i>64.24140° 95.5803</i>	<i>NO Bird's</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:08</i>	<i>64.24140° 95.5803</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:18</i>	<i>64.22059° 95.4105</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:26</i>	<i>64.22059° 95.4105</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:34</i>	<i>64.22059° 95.4105</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:50</i>	<i>64.20629° 95.2646</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 1:57</i>	<i>64.20480° 95.2770</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 2:02</i>	<i>64.20480° 95.2770</i>	<i>NO Seagals</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 22/2019 2:10</i>	<i>64.20480° 95.2770</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>

Signature: *David Turner*

Date: *Sept 22/2019*

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner

Date: Sept 22/2019

Vessel: Dora

Direction:

Weather: cloudy wind

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 2:12

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 22/2019 2:17	64.19697° 95.2086°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:30	64.14577° 94.7677°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:32	64.14577° 94.7677°	Seasol	1	1km	8 o'clock	FI	0
Sept 22/2019 3:36	64.14577° 94.7677°	Seasol	1	900	5 o'clock	Re	0
Sept 22/2019 3:39	64.14577° 94.7677°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:44	64.14092° 94.4878°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:49	64.14092° 94.4878°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:54	64.14092° 94.4878°	NO ANIMALS	0	0	0		0
Sept 22/2019 3:57	64.14092° 94.4878°	Seasol	1	2km	7 o'clock	FI	0
Sept 22/2019 4:01	64.14092° 94.4878°	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 22/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 22/2019  
 Vessel: Dora  
 Direction:  
 Weather: cloudy wind Rain  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 4:03 5:43

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 22/2019 4:09	64.14092° 94.4878	NO ANIMALS	0	0	0		0
Sept 22/2019 4:14	64.14092° 94.4878	NO ANIMALS	0	0	0		0
Sept 22/2019 4:21	64.14092° 94.4878	NO ANIMALS	0	0	0		0
Sept 22/2019 4:32	64.08241° 94.3797	NO ANIMALS	0	0	0		0
Sept 22/2019 4:37	64.05044° 94.3423	NO ANIMALS	0	0	0		0
Sept 22/2019	64.02216° 94.3106	NO ANIMALS	0	0	0		0
Sept 22/2019 4:55	64.03296° 94.3103	NO ANIMALS	0	0	0		0
Sept 22/2019 4:58	64.01190° 94.3239	NO ANIMALS	0	0	0		0
Sept 22/2019 5:28	64.01850° 94.3231	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 22/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: *David Turner*

Date: *Sept 23/2019*

Vessel: *Dara*

Direction: *Narrow*

Weather: *cloudy calm wind*

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): *17:28 18:15*

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
<i>Sept 23/2019 17:31</i>	<i>64.2602° 94.3110°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 17:36</i>	<i>64.02147° 94.3190°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 17:43</i>	<i>64.01367° 94.342°</i>	<i>Seasal</i>	<i>1</i>	<i>900</i>	<i>3 o'clock</i>		<i>0</i>
<i>Sept 23/2019 17:48</i>	<i>64.00843° 94.3248°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 17:54</i>	<i>64.00266° 94.3245°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 17:58</i>	<i>64.00218° 94.3249°</i>	<i>Seasal</i>	<i>1</i>	<i>1km</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 18:02</i>	<i>64.00036° 94.3238°</i>	<i>NO ANIMALS</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>
<i>Sept 23/2019 18:07</i>	<i>64.99554° 94.3196°</i>	<i>Seasal</i>	<i>1</i>	<i>2km</i>	<i>6 o'clock</i>	<i>F1</i>	<i>0</i>
<i>Sept 23/2019 18:10</i>	<i>64.99321° 94.3130°</i>	<i>Seasal</i>	<i>1</i>	<i>400</i>	<i>9</i>	<i>Re</i>	<i>0</i>
<i>Sept 23/2019 18:14</i>	<i>64.99352° 94.3045°</i>	<i>FOX</i>	<i>1</i>	<i>1km</i>	<i>12 o'clock</i>	<i>WS</i>	<i>0</i>

Signature: *David Turner*

Date: *Sept 23/2019*



Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 23 / 2019  
 Vessel: Dora  
 Direction: narrow  
 Weather: cloudy calm wind  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 18:16 19:01

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 23 / 2019 18:22	63.99354 94.2679	SNOW GEESE	100	4 km	12 o'clock	RE	0
Sept 23 / 2019 18:25	63.99464 94.2411	SNOW GEESE	40	6 km	8 o'clock	RE	0
Sept 23 / 2019 18:29	63.99464 94.2411	NO ANIMALS	0	0	0		0
Sept 23 / 2019 18:39	63.99155 94.1742	NO ANIMALS	0	0	0		0
Sept 23 / 2019 18:44	63.98449 94.1039	Geese	1	4 km	4 o'clock	Re	0
Sept 23 / 2019 18:46	63.97812 94.0860	NO ANIMALS	0	0	0		0
Sept 23 / 2019 18:57	63.96546 94.0672	Rabbit	2	3 km	2	fo	0
Sept 23 / 2019 18:55	63.95407 94.0570	SNOW GEESE	50	2 km	7	Re	0
Sept 23 / 2019 18:58	63.94622 94.0343	NO ANIMALS	0	0	0		0
Sept 23 / 2019 19:00	63.94064 94.0227						

Signature: David Turner Date: Sept 23 / 2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner  
 Date: Sept 23/2019  
 Vessel: Dura  
 Direction: Narrow  
 Weather: cloudy calm wind  
 Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 19:02 19:24

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 23/2019 19:06	63.92788° 93.9916	SNOW GOOSE	47	3KM	9	RE	0
Sept 23/2019 19:09	63.92039° 93.9657	NO ANIMALS	0	0	0		0
Sept 23/2019 19:15	63.92480° 93.9205	Rabbit	1	2KM	10	RE	0
Sept 23/2019 19:23	63.93515° 93.8533	NO ANIMALS	0	0	0		0

Signature: David Turner Date: Sept 23/2019

Agnico-Eagle Mines:  
Meadowbank Division Environment Department



Daily log sheet for the wildlife monitor when on the boat

Wildlife monitor name: David Turner

Date: Sept 24/2019

Vessel: Dorra

Direction: Helicopter Island

Weather: cloudy windy Rain

Time on deck (ex. from 8:25 to 11:00 and from 12:15 to 17:30): 20:09 21:07 16:10 17:18

Date and Time	Coordinates	Animal(s) Observed and certainty of ID	Number of individuals	Distance to animal (m)	Bearing from Bow (clockface)	Comments: animal behaviour or mitigation require	Photo (Y/N)
Sept 24/2019 16:23	63-93573-93.6254	Sea Seal	1	60	11	F1	0
Sept 24/2019 16:46	63-93573-93.6254	NO ANIMALS	0	0	0		0
Sept 24/2019 16:50	63-93573-93.6254	NO ANIMALS	0	0	0		0
Sept 24/2019 17:03	63-95809-93-7857	NO SEA SEALS	0	0	0		0
Sept 24/2019 17:12	63-95930-93.7311	NO SEA SEALS	0	0	0		0
Sept 24/2019 17:17	63-95272-93.7945	NO ANIMALS	0	0	0		0

Signature: David Turner

Date: Sept 24/2019



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