

Appendix H-7

MMSO report



**NUQSANA GOLDER**  
ENGINEERING AND ENVIRONMENTAL INC.

## REPORT

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

*Meliadine Gold Mine in Rankin Inlet, Nunavut*

Submitted to:

**Agnico Eagle Mines Limited**

Submitted by:

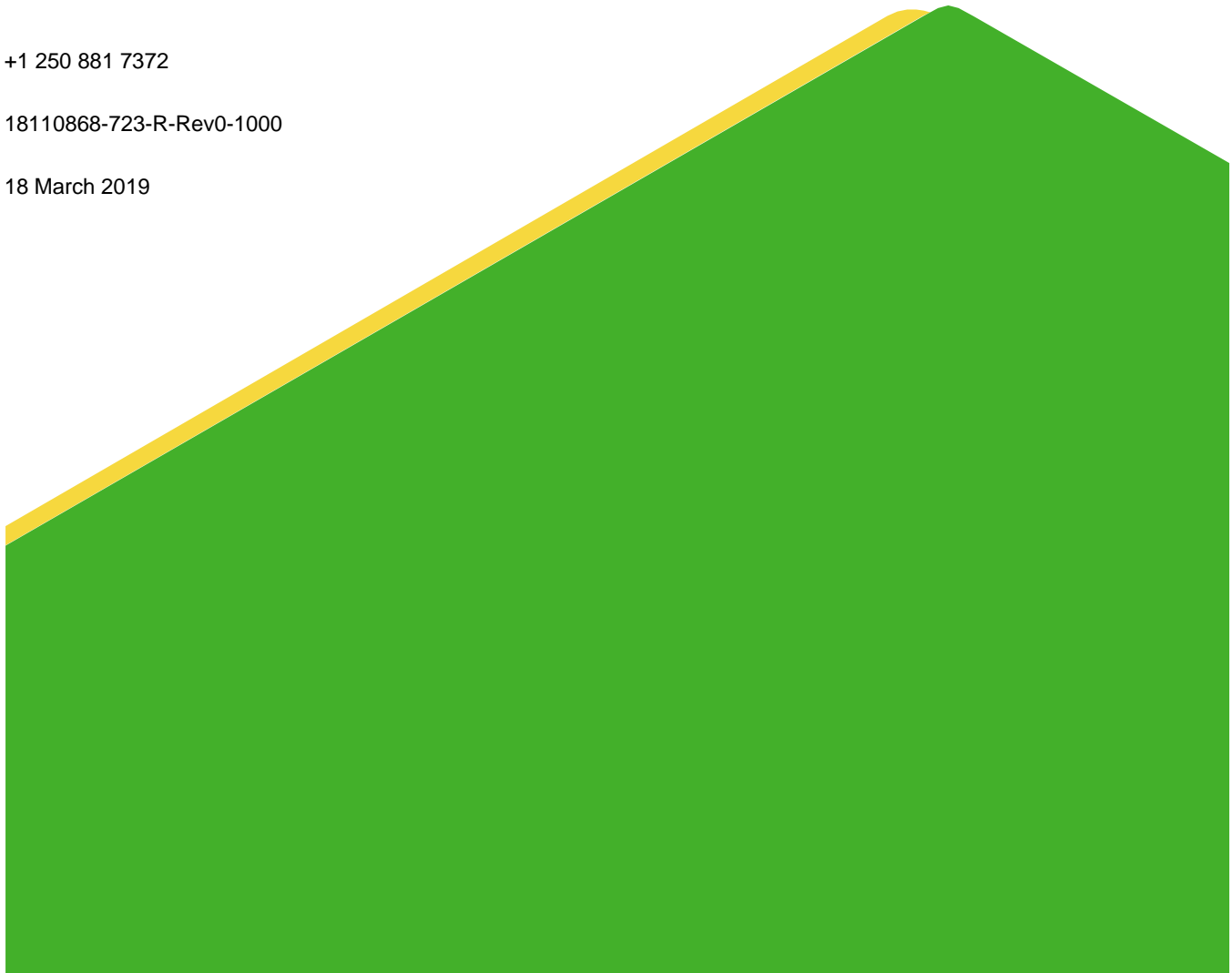
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## Distribution List

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## Executive Summary

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

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

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

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



## Study Limitations

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

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

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

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

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

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## APPENDICES

### APPENDIX A

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

### APPENDIX B

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

## 1.0 INTRODUCTION

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

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

## 1.1 Objectives

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

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

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

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



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INSET: MELVIN BAY DETAIL



**LEGEND**

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

**DRAFT**

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**REFERENCES**

1. BASE DATA FROM NATIONAL GEOGRAPHIC WORLD MAP - CONTENT MAY NOT REFLECT NATIONAL GEOGRAPHIC'S CURRENT MAP POLICY.  
COORDINATE SYSTEM: NAD 1983 UTM ZONE 15N

CLIENT **AGNICO EAGLE MINES LIMITED**

**AGNICO EAGLE**

PROJECT  
MELIADINE GOLD PROJECT  
NUNAVUT

TITLE  
**PROJECT LOCATION**

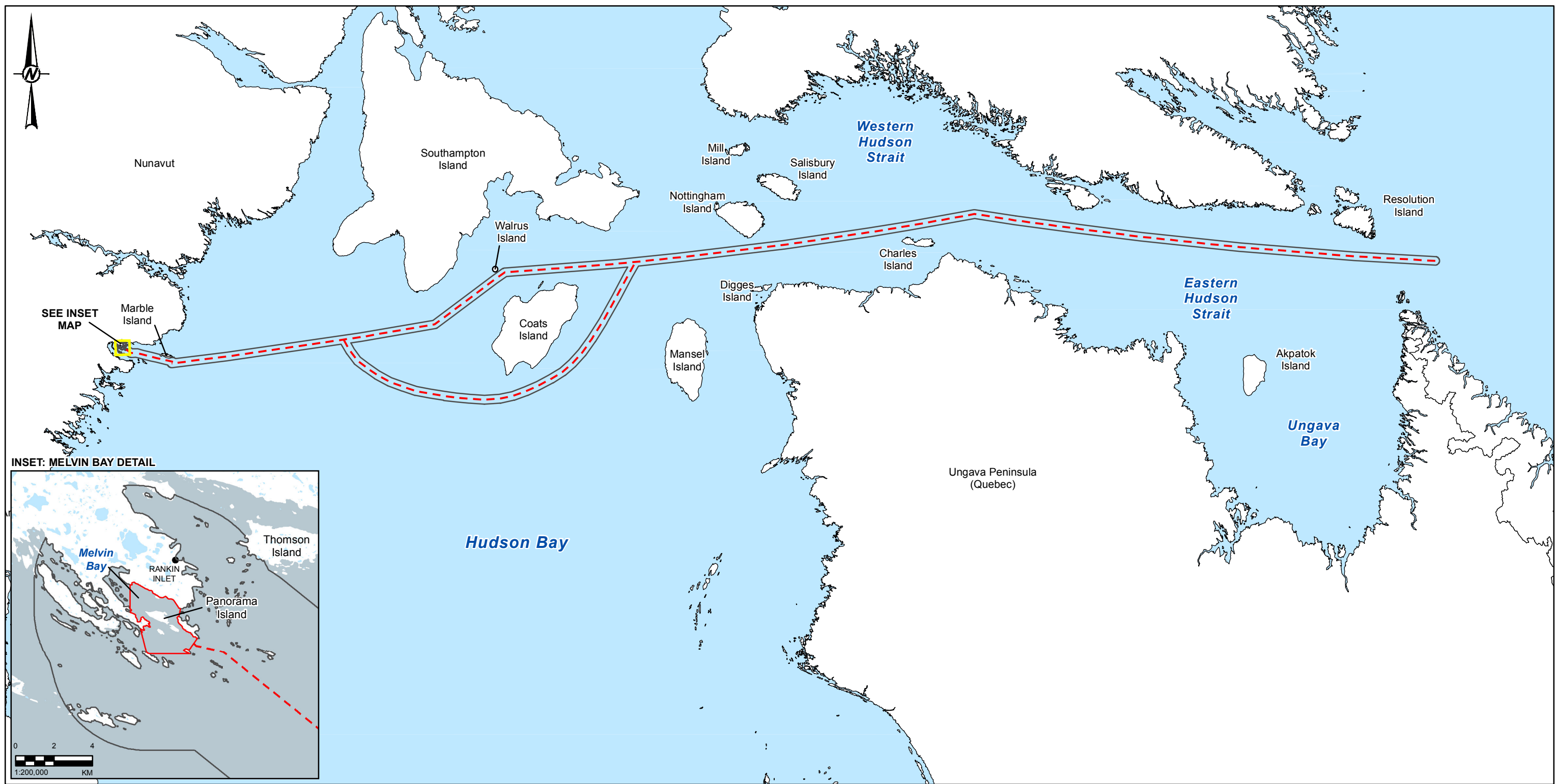
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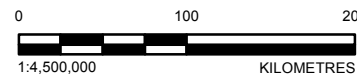


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- LEGEND**
- SHIPPING ROUTE (APPROXIMATE)
  - MARINE REGIONAL STUDY AREA (MARINE RSA)
  - MARINE LOCAL STUDY AREA (MARINE LSA)
  - WATERBODY

**DRAFT**



CLIENT  
AGNICO EAGLE MINES LIMITED

CONSULTANT



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DESIGNED DC

PREPARED CC/CDB

REVIEWED  
APPROVED



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

PROJECT  
MELIADINE GOLD PROJECT  
NUNAVUT

**TITLE**  
**MARINE LOCAL AND REGIONAL STUDY AREA FOR THE MELIADINE GOLD MINE**

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## 2.0 METHODS

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

### 2.1 Marine Mammal Data Analysis

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

#### Temporal and Spatial Observation Effort

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

#### Environmental Variables

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

### 2.2 Seabirds

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

## Temporal and Spatial Observation Effort

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

## Environmental Variables

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

### 2.2.1 Data Analysis

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

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



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

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

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

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

**Table 2: Sample Size Available for Distance Analyses**

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

## 3.0 RESULTS

### 3.1 Marine Mammals

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

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

#### 3.1.1 Survey Effort

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

#### 3.1.2 Environmental Variables and Sighting Conditions

##### Weather

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

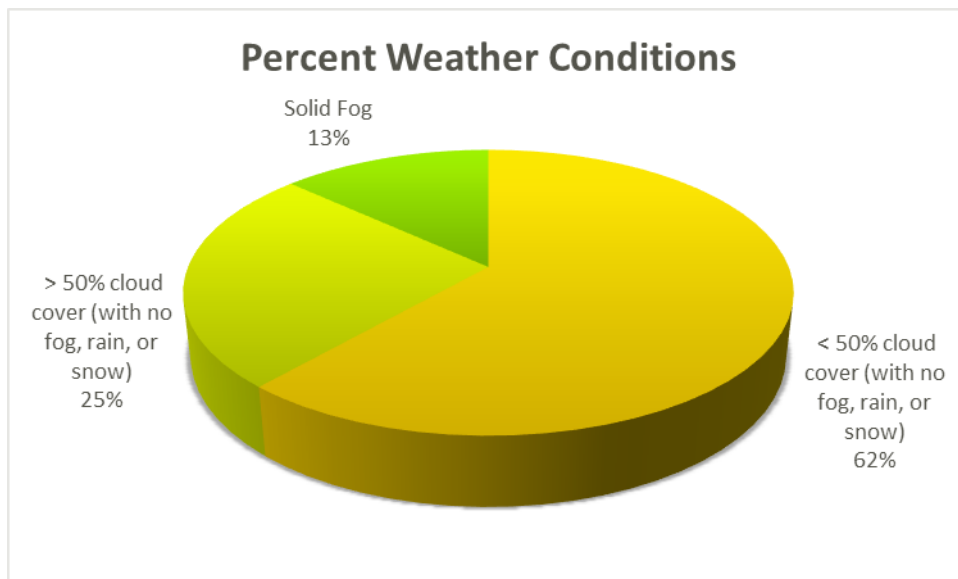
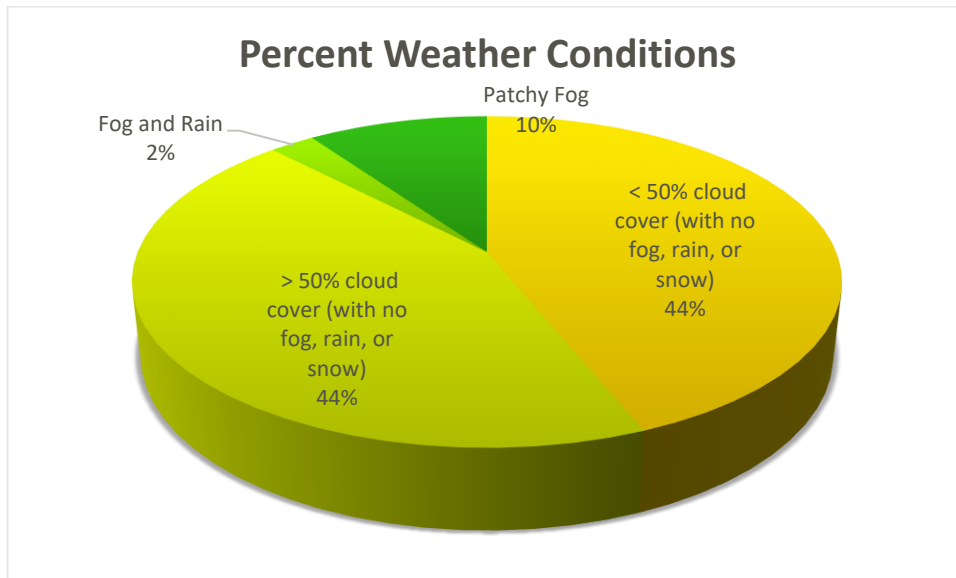


Figure 3: Percent Weather Conditions – 2017 Marine Mammal Observation Program

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



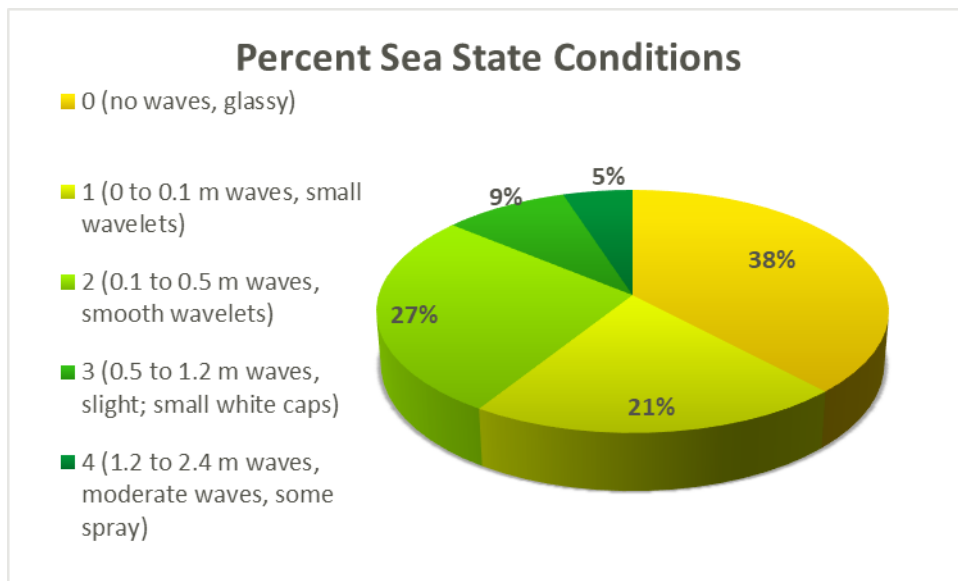
**Figure 4: Percent Weather Conditions - 2018 Marine Mammal Observation Program**

## Visibility

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

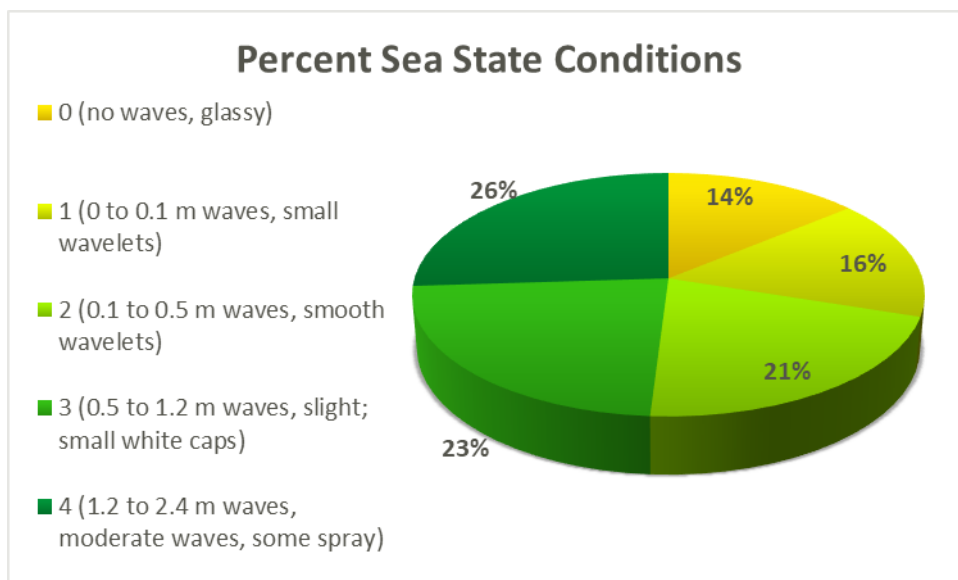
## Sea State

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



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

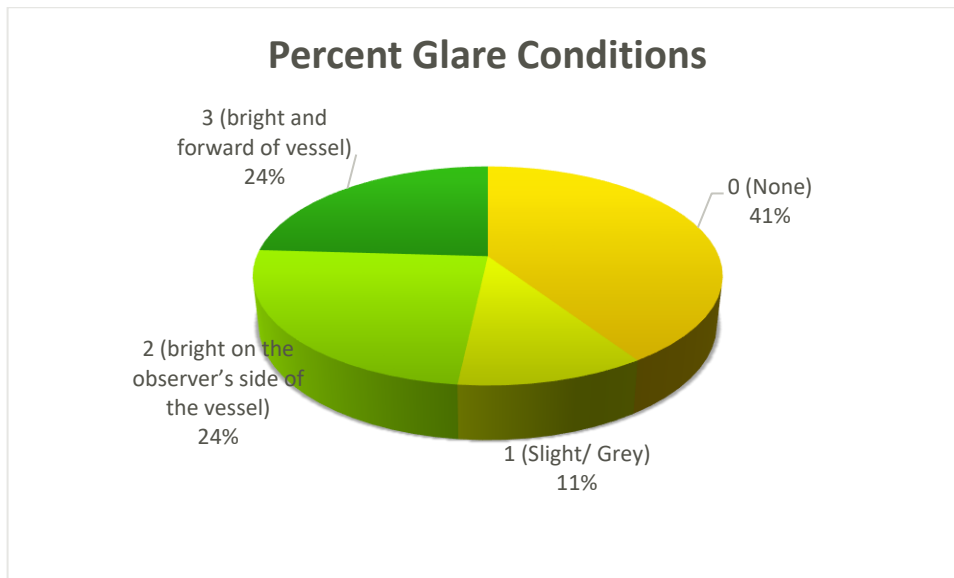
In 2018, sea states recorded by Transport Desgagnés ranged from 0 (no waves, glassy) to 4 (1.2 to 2.4 m waves, moderate waves, some spray) during the marine mammal observation program. The majority of sea state conditions were recorded as 4 (1.2 to 2.4 m waves, moderate waves, some spray; 26 % of survey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



**Figure 6: Sea State Conditions – 2018 Marine Mammal Observation Program**

## Glare Conditions

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



**Figure 7: Glare Conditions – 2017 Marine Mammal Observation Program**

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

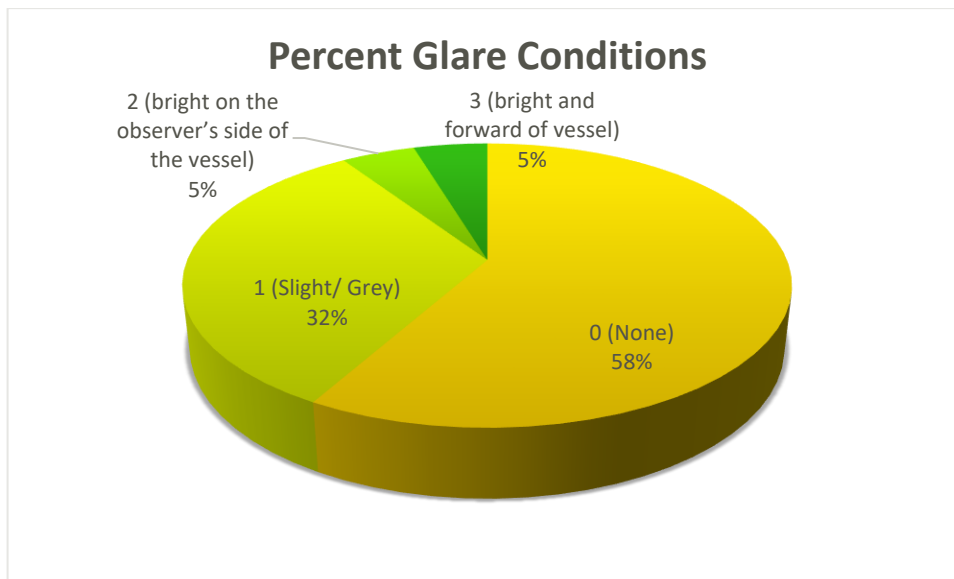


Figure 8: Glare Conditions – 2018 Marine Mammal Observation Program

## Ice Concentration

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

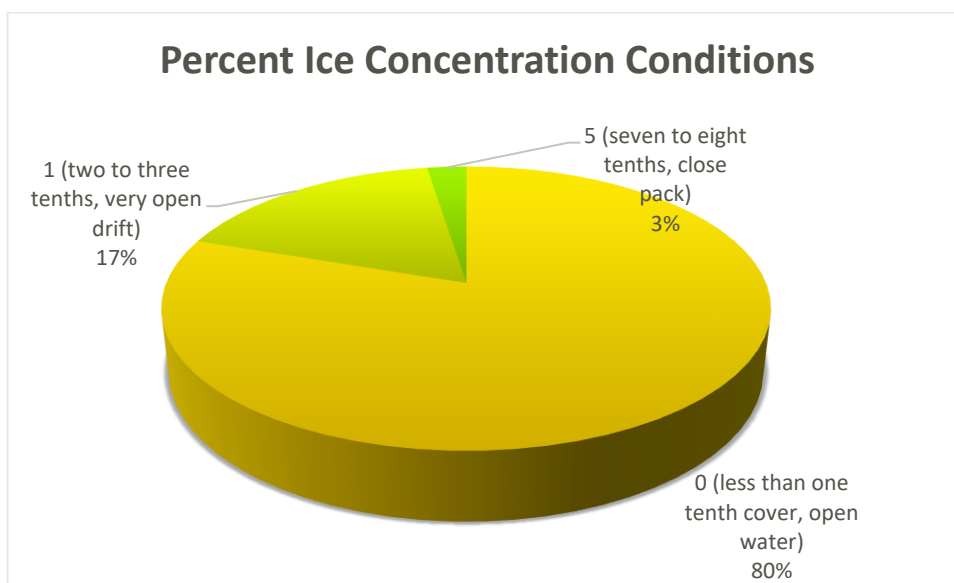


Figure 9: Ice Conditions – 2018 Marine Mammal Observation Program

### 3.1.3 Sightings

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

**Table 3: Marine Mammal Observations During the 2017 MMSO Program**

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

#### Hooded Seal

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

#### Ringed Seal

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

#### Unidentified Seal

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

### Pilot Whale

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

### Humpback Whale

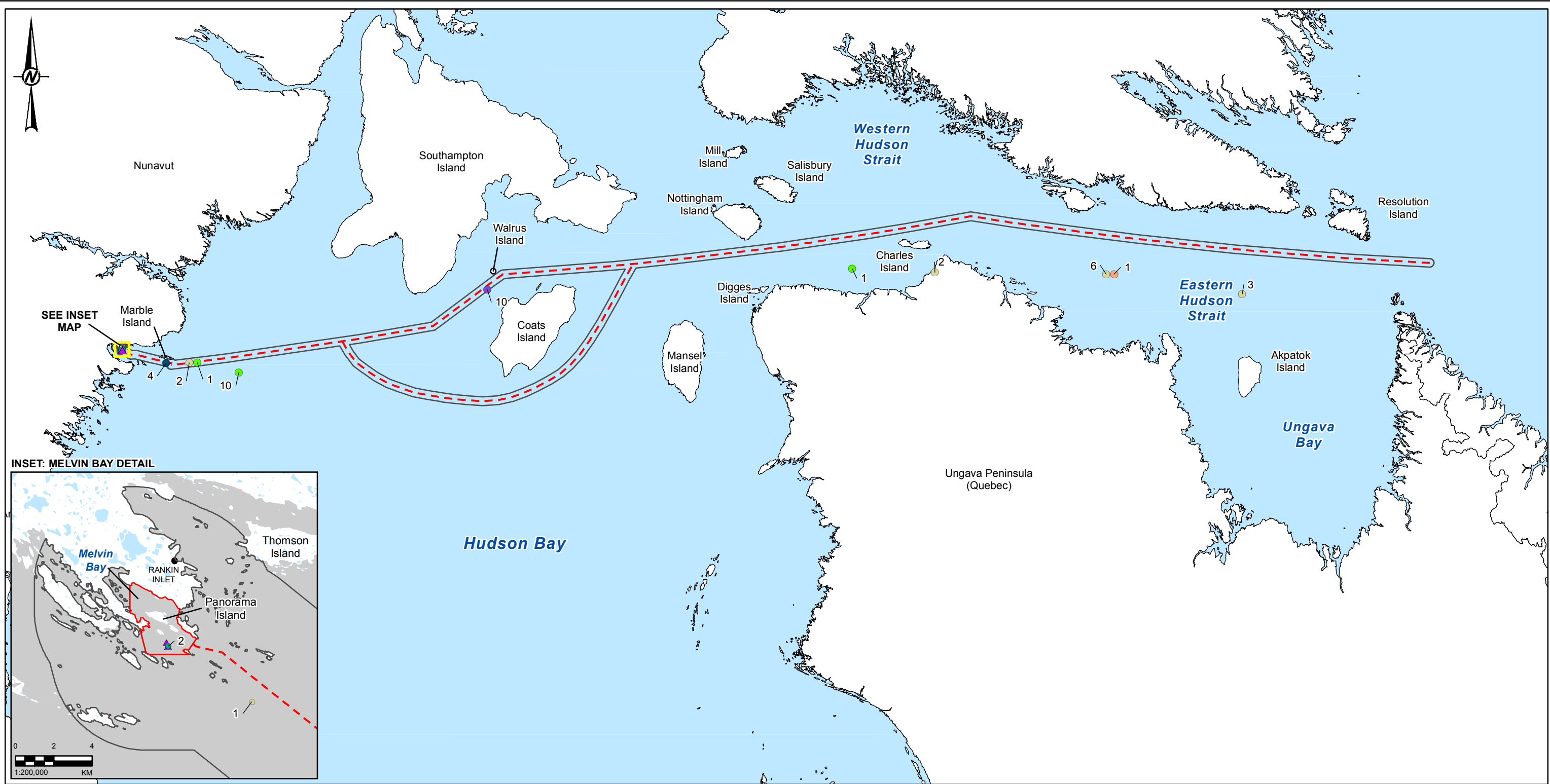
Humpback whales were recorded by Transport Desgagnés once during the MMSO program in 2017. Five individual humpback whales were recorded in one group (Table 3; Figure 10).

### Atlantic Walrus

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



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**LEGEND**

**SPECIES**

- ATLANTIC WALRUS
- HOODED SEAL
- PILOT WHALE
- RINGED SEAL
- UNIDENTIFIED SEAL
- UNIDENTIFIED MARINE MAMMAL

- ANCHOR LOCATION
- SHIPPING ROUTE (APPROXIMATE)
- MARINE REGIONAL STUDY AREA (MARINE RSA)
- MARINE LOCAL STUDY AREA (MARINE LSA)
- WATERBODY

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| REVIEWED   |            |
| APPROVED   |            |

**NOTES**  
1. SPECIES LOCATIONS ARE ANNOTATED WITH THE SURVEY COUNT.

**REFERENCES**  
1. CANVEC DATA OBTAINED FROM © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
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PROJECT  
MELIADINE GOLD PROJECT  
NUNAVUT

TITLE  
MARINE MAMMAL SIGHTINGS, 2017

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## 3.2 Seabirds

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

### 3.2.1 Survey Effort

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

### 3.2.2 Surveys from Moving Platforms

#### 3.2.2.1 All Species

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

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

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







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

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

| Year | Model, AIC Score   | Sample Size | Density Estimate (individuals/km <sup>2</sup> ) | 95% Confidence Interval (individuals/km <sup>2</sup> ) |
|------|--------------------|-------------|---|--|
| 2017 | Half-normal, 354.3 | 30          | 1.2   | 0.7 to 2.0   |
| 2018 |                    | 54          | 3.6   | 2.7 to 4.9   |

km<sup>2</sup> = square kilometres; AIC = Akaike's Information Criteria.

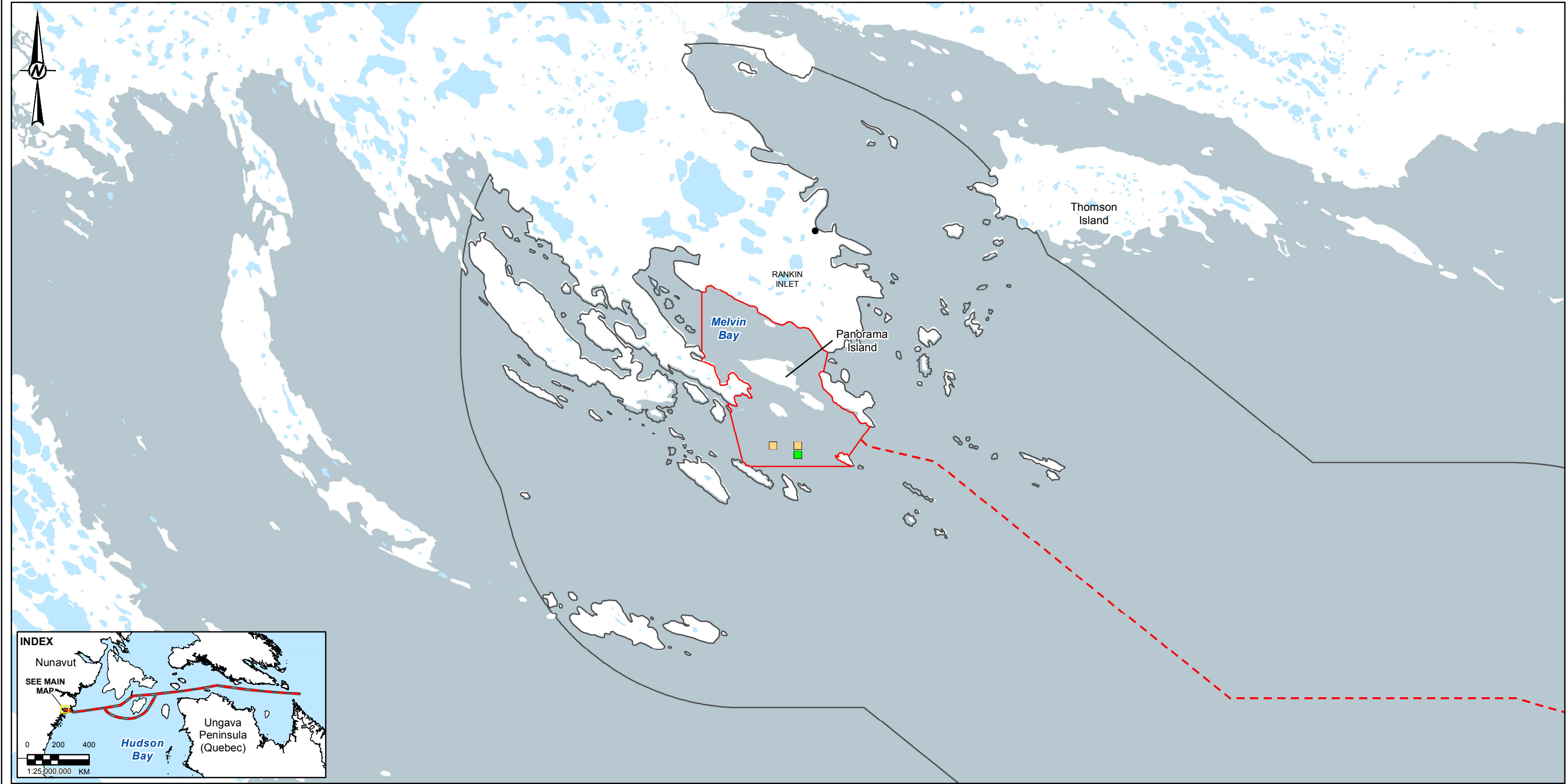
### 3.2.3 Surveys from Stationary Platforms

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

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

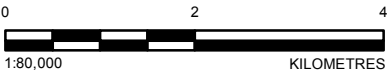
| Species                   | Number of Individuals Observed |           |
|---------------------------|--------------------------------|-----------|
|                           | 2017                           | 2018      |
| Common eider              | 5                              | 4         |
| Glaucous gull             | 9                              | 14        |
| Iceland gull              | 5                              | 0         |
| Thick-billed murre        | 17                             | 0         |
| Unidentified duck species | 9                              | 0         |
| Unidentified gull species | 12                             | 7         |
| Unidentified bird species | 46                             | 0         |
| <b>Total</b>              | <b>103</b>                     | <b>25</b> |

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- LEGEND**
- STATIONARY SURVEY (2017)
  - STATIONARY SURVEY (2018)
  - SHIPPING ROUTE (APPROXIMATE)
  - MARINE REGIONAL STUDY AREA (MARINE RSA)
  - MARINE LOCAL STUDY AREA (MARINE LSA)
  - WATERBODY

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**REFERENCES**  
1. CANVEC DATA OBTAINED FROM © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.  
COORDINATE SYSTEM: NAD 1983 UTM ZONE 15N

PROJECT  
MELIADINE GOLD PROJECT  
NUNAVUT

**TITLE**  
**DISTRIBUTION OF SEABIRDS OBSERVED DURING STATIONARY SURVEYS, 2017 TO 2018**

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

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

| Year | Model, AIC Score    | Sample Size | Density Estimate (individuals/km <sup>2</sup> ) | 95% Confidence Interval (individuals/km <sup>2</sup> ) |
|------|---------------------|-------------|---|--|
| 2017 | Half-normal, 135.29 | 7           | 82.9  | 36.5 to 188.5  |
| 2018 |                     | 2           | 158.4   | 29.4 to 851.1  |

km<sup>2</sup> = square kilometres; AIC = Akaike Information Criteria.



## 4.0 DISCUSSION

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

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

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

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

## 5.0 CLOSURE

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

### Golder Associates Ltd.



Dan Coulton, PhD, RPBio  
*Wildlife Biologist*



Katelyn Zottenberg, BSc, RPBio  
*Marine Biologist*

Reviewed by:



Iain Jones, MSc, DiplTeck, RPBio  
*Associate, Senior Wildlife Ecologist*

DWC/KZ/IJ/ah/lmk

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## 6.0 REFERENCES

- Agnico Eagle (Agnico Eagle Mines Limited). 2018. Meliandine Gold Mine Shipping Management Plan. Version 7, March 2018.
- Buckland ST, Anderson DR, Burnham KP, Laake JL, Borchers DL, and Thomas L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, New York.
- SARA (Species at Risk Registry). 2019. Species at Risk Registry. Available at: [https://wildlife-species.canada.ca/species-risk-registry/sar/index/default\\_e.cfm?type=species&lng=e&index=1&common=ivory&scientific=&population=](https://wildlife-species.canada.ca/species-risk-registry/sar/index/default_e.cfm?type=species&lng=e&index=1&common=ivory&scientific=&population=).
- Thomas L, Laake JL, Strindberg S, Marques FFC, Buckland ST, Borchers DL, Anderson DR, Burnham KP, Hedley SL, Pollard JH, Bishop JRB, and Marques TA. 2009. Distance 5.0. Release 2.0. Research Unit for Wildlife Population Assessment, University of St. Andrews, UK. Available at: <http://www.ruwpa.st-and.ac.uk/distance/>.

**APPENDIX A**

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

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

Notes:

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

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

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

## Notes:

Weather code; 0 (< 50% cloud cover with no fog, rain, or snow), 1 (> 50% cloud cover with no fog, rain, or snow), 2 (pathcy fog), 6 (fog and rain); Glare code; 0 (none), 1 (slight/grey), 2 (bright on the observer's side of the vessel), 3 (bright and forward of vessel); sea state code; 0 (calm, mirror-like, glassy), 1 (small wavelets, short but pronounced; crests do not break), 2 (large wavelets, crests begin to break; foam of glassy appearance; perhaps scattered white caps), 3 (small waves, becoming longer; fairly frequent white caps), 4 (moderate waves with more pronounced form; many white caps; chance of some spray); 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; a dash indicated no data provided on the datasheets.

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



**APPENDIX B**

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

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

➤ Fill out one sheet per observation period

| Observation Period Information: |                         |           |   |  |
|---------------------------------|-------------------------|-----------|---|--|
| Company/agency                  | Desgagnés Transarctique |           | Sea state code ★                              | 0  |
| Platform name and type          | Acadia Desgagnés        |           | Wave height (m)                               | 1/2  |
| Observer (s)                    | Michel Galarneau        |           | True wind speed (knots) OR ★<br>Beaufort code | 5.4  |
| Date (DD/MMM/YYYY)              | 24 Jul 2017             |           | True wind direction                           | 300  |
| Time at start (UTC)             | 10.56                   |           | Ice type code ★                               | 0  |
| Time at end (UTC)               | 11.45                   |           | Ice concentration code ★                      | 0  |
| Latitude at start / end         | 61°52.1 N               | 61°47.2 N | True platform speed (knots)                   | 13.4   |
| Longitude at start / end        | 70°29.3 W               | 70°08.6 W | True platform direction                       | 118  |
| Visibility (km)                 | 20 km                   |           | Observation side                              | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code ★                  | 0                       |           | Height of eye (m)                             | 20 m   |
| Glare conditions code ★         | 3                       |           | Outdoors or Indoors                           | <input checked="" type="radio"/> Out or <input type="radio"/> In                                   |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 24 Jul 17<br>10.56        | 118<br>13.4                       |                       | Y x3                  | 61°52.1N<br>70°29.3W                       | Hooded seal<br>1                 | 50                           | STAB              | Curious                      | adult   |                      |                       |
| 11.15                     | 116<br>13.1                       |                       | yes<br>6              | ↑<br>↓                                     | Atlantic Walrus<br>6             | from 600<br>to 30            | STAB              | curious                      | mix     |                      |                       |
| 11.25                     | 116<br>13.1                       |                       | ✓<br>3                | 61°48.3N<br>70°13.5W                       | Ringed seal<br>1                 | 50m                          | STAB              |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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

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★

Dorsognes Transvaal  
Dorsognes  
Michel Galarneau  
24 Jul 2017  
8.48  
9.25  
62°05.0N 62°01.2N  
71°26.1W 71°08.9W  
Sailing  
20 Km  
0  
3

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?

0  
0  
4.9  
40  
0  
0  
14.2  
118  
Starboard Port  
Out or In  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| TBMU         | 3          | F                     | Y                     | 50                         |        |        |                                    |                       |                         |     |          |
| TBMU         | 2          | F                     | Y                     | 50                         |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

Bessagness / Transair Ltd  
Acadia Bessagness  
Michael Gahmmer  
24 Jul 2017  
19.30  
20.01  
61°02.4N | 60°59.3N  
66°56.0W | 66°42.7W  
Sailing  
20 km  
0  
3

Sea state code ★

Wave height (m)

True wind speed★ (knots) OR  
Beaufort code

True wind direction★ (deg)

Ice type code

Ice concentration code ★

True platform speed (knots)

True platform direction (deg)

Observation side

Height of eye (m)

Outdoors or Indoors

Snapshot used?

1  
1/2  
13.3  
245  
0  
0  
13.1  
118  
Starboard Port  
20 m  
Out or In  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments      |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|---------------|
| ICGU         | 2          | F                     | ✓                     | 50                         |        |        |                                    |                       |                         |     |               |
| " "          | 1          | F                     | ✓                     | 10                         |        |        |                                    |                       |                         |     | Fly around ++ |
| " "          | 1          | F                     | ✓                     | 30                         |        |        |                                    |                       |                         |     |               |
| " "          | 1          | F                     | ✓                     | 30                         |        |        |                                    |                       |                         |     |               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |               |

★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

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★

*Besagies (harbour)*  
*Acadia Besagies*  
*Michael Galanau*  
 24 Jul 2017  
 22012  
 22039  
 60°46.9N  
 65°49.8W  
 Sailing  
 20 km  
 0  
 3

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  
 3 m  
 11.7  
 225  
 0  
 0  
 11.4  
 114  
 Starboard Port  
 20 m  
 Out or In  
 Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Phum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| DOVE         | 3          | W                     | ✓                     | 30                         |        |        |                                    |                       |                         |     |          |
| ICGU         | 7          | F                     | ✓                     | 30                         |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

Agnico Eagle  
Agnico Eagle  
Michael Gaboriau  
23 Jul 2017  
10258  
11230  
62°26.4N 62°30.5W  
81°22.3W 81°08.2W  
Sailing  
20 km  
0  
3

Sea state code★

Wave height (m)

True wind speed★(knots) OR  
Beaufort code

True wind direction★(deg)

Ice type code

Ice concentration code★

True platform speed (knots)

True platform direction (deg)

Observation side

Height of eye (m)

Outdoors or Indoors

Snapshot used?

1  
1/2  
16.2  
242  
0  
0  
14.6  
57  
Starboard Port  
20 m  
Out or In  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| DOVE         | 2          | F                     | ✓                     | 50m                        |        |        |                                    |                       |                         |     |          |
| DOVE         | 1          | F                     | ✓                     | 50m                        |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

Besagues Transactis  
Océania Besagues  
Michel Galan  
23 Jul 2017  
16220  
16250  
62°42.5N 62°41.9N  
79°00.4W 78°46.3W  
Sailing  
20 km  
0  
3

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?

0  
1/2  
6.1  
120  
0  
0  
12.6  
94  
Starboard Port  
20 m  
Out 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        |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|-----------------|
| TBmd      | 13      | F               | ✓              | 50                      |        |        |                            |                  |                    |     | 30s around ship |
| TBmd      | 6       | W               | ✓              | 50                      |        |        |                            |                  |                    |     | antide bar      |
| TBmd      | 6       | F               | ✓              | 50                      |        |        |                            |                  |                    |     | fly around ship |
| TBmd      | 5       | F               | ✓              | 50                      |        |        | ➔                          |                  |                    |     | 1 direction     |
| TBmd      | 2       | W               | ✓              | 30                      |        |        |                            |                  |                    |     |                 |
| TBmd      | 3       | F               | ✓              | 50                      |        |        |                            |                  |                    |     |                 |
|           |         |                 |                |                         |        |        |                            |                  |                    |     |                 |
|           |         |                 |                |                         |        |        |                            |                  |                    |     |                 |

★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          | Acadia Desgagnés      |           | Wave height (m)                               | 0                     |
| Observer (s)                    | Michel Galarneau      |           | True wind speed (knots) OR ★<br>Beaufort code | 3.1                   |
| Date (DD/MMM/YYYY)              | 23 Jul 2017           |           | True wind direction                           | 305                   |
| Time at start ( UTC )           | 22231                 |           | Ice type code ★                               | 0                     |
| Time at end (UTC)               | 23201                 |           | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62°34.8 N             | 62°33.9 N | True platform speed (knots)                   | 14.6                  |
| Longitude at start / end        | 75°53.2 W             | 75°37.5 W | True platform direction                       | 96                    |
| Visibility (km)                 | 20 KM                 |           | Observation side                              | Starboard Port Middle |
| Weather code ★                  | 0                     |           | Height of eye (m)                             | 20 m                  |
| Glare conditions code ★         | 3                     |           | Outdoors or Indoors                           | Out ⚡ In              |
| Platform Activity               | Sailing               |           | 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 | 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) |
|-------------------------------|-----------------------------------|-----------------------|-----------------------|---|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 23 Jul<br>2017<br>22231/23.01 |                                   |                       |                       |   | no observation                   |                              |                   |                              |         |                      |                       |
|                               |                                   |                       |                       |   |                                  |                              |                   |                              |         |                      |                       |
|                               |                                   |                       |                       |   |                                  |                              |                   |                              |         |                      |                       |
|                               |                                   |                       |                       |   |                                  |                              |                   |                              |         |                      |                       |
|                               |                                   |                       |                       |   |                                  |                              |                   |                              |         |                      |                       |
|                               |                                   |                       |                       |   |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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

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★

|                     |          |
|---------------------|----------|
| Desgagnés Harsandis |          |
| David Desgagnés     |          |
| Michael Galarneau   |          |
| 23 Jul 2017         |          |
| 22031               |          |
| 23001               |          |
| 62°34.8N            | 62°33.9N |
| 75°53.2W            | 75°37.5W |
| Sailing             |          |
| 20 km               |          |
| 0                   |          |
| 3                   |          |

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?

|                |
|----------------|
| 0              |
| 0              |
| 3.1            |
| 305            |
| 0              |
| 0              |
| 14.6           |
| 96             |
| Starboard Port |
| 20 m           |
| Out In         |
| Yes or No      |

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| 1Bmu         | 6          | F                     | Y                     | 50m                        |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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          | Aradia Desgagnés      |          | Wave height (m)                               | 0                               |
| Observer (s)                    | Michael Goleman       |          | True wind speed (knots) OR ★<br>Beaufort code | 6.1                             |
| Date (DD/MMM/YYYY)              | 22 Jul 2017           |          | True wind direction                           | 115                             |
| Time at start ( UTC )           | 22 .04                |          | Ice type code★                                | 0                               |
| Time at end (UTC )              | 22 .34                |          | Ice concentration code ★                      | 0                               |
| Latitude at start / end         | 62°16.4N              | 62°15.3N | True platform speed (knots)                   | 13.1                            |
| Longitude at start / end        | 86°59.2 W             | 86°45.1W | True platform direction                       | 098                             |
| Visibility (km)                 | 20 km                 |          | Observation side                              | <u>Starboard</u> Port Middle    |
| Weather code ★                  | 0                     |          | Height of eye (m)                             | 20 m                            |
| Glare conditions code ★         | 3                     |          | Outdoors or Indoors                           | <u>Out</u> <u>Ind</u> <u>In</u> |
| Platform Activity               | Sailing               |          | Notes   | second observation of the day   |

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

➔ Fill out one sheet per observation period

| Observation Period Information: |                         |           |   |                              |
|---------------------------------|-------------------------|-----------|---|------------------------------|
| Company/agency                  | Desgagnés Transarctique |           | Sea state code ★                              | 0                            |
| Platform name and type          | Atadia Desgagnés        |           | Wave height (m)                               | 0                            |
| Observer (s)                    | Michèle Galarneau       |           | True wind speed (knots) OR ★<br>Beaufort code | 6.1                          |
| Date (DD/MMM/YYYY)              | 22 Jul 2017             |           | True wind direction                           | 115                          |
| Time at start ( UTC )           | 16.02                   |           | Ice type code ★                               | 0                            |
| Time at end (UTC )              | 16.34                   |           | Ice concentration code ★                      | 0                            |
| Latitude at start / end         | 62°29.4 N               | 62°28.2 N | True platform speed (knots)                   | 13.1                         |
| Longitude at start / end        | 89°39.7 W               | 89°25.1 W | True platform direction                       | 099                          |
| Visibility (km)                 | 20 Km                   |           | Observation side                              | <u>Starboard</u> Port Middle |
| Weather code ★                  | 0                       |           | Height of eye (m)                             | 20 m.                        |
| Glare conditions code ★         | 3                       |           | Outdoors or Indoors                           | Out or In                    |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 22 Jul<br>16210           | 099<br>13.1                       |                       | Y                     | 62°29.4N<br>89°39.7W                       | 4                                | 50m                          | 45°               | surfacing                    | ?       |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 22 Sep<br>22.10           | 098<br>13.1                       | 0                     | Y                     | 62°16.4<br>86°59.2                         | 10<br>Ringed<br>Seal             | 50m                          | 90°               |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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

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★

|                      |           |
|----------------------|-----------|
| Desgagnés Transcible |           |
| Acadia Desgagnés     |           |
| Michel Desgagnés     |           |
| 22 Sep               |           |
| 16.02                |           |
| 16.34                |           |
| 62°29.4 N            | 62°28.2 N |
| 89°39.7 W            | 89°25.1 W |
| Sailing              |           |
| 20 Km                |           |
|                      |           |
|                      |           |

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?

|                |
|----------------|
|                |
|                |
|                |
|                |
|                |
|                |
| 13.1           |
| 099            |
| Starboard Port |
| 20 m           |
| Out or In      |
| Yes or No      |

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| ungu         | 20         | ✓                     | ✓                     | 50m                        |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

Desgagnés (navarria)  
Acadia Desgagnés  
Michelle Galarneau  
22 Jul 2017  
22.04  
22.34  
62°16.4N 62°15.3N  
86°59.2W 86°45.1W  
Sailing  
20 km  
0  
3

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?

0  
0  
6.1  
115  
0  
0  
13.1  
098  
Starboard Port  
20m  
Out or In  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | * ★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Phun. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|------------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| ungu         | 4          | W                     | 4                      | 50                         |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |

★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)        |

DESGAGNES TRANSARCT  
ACADIA DESGAGNES  
18-07-2017  
MICHEL LACROIX  
0900 EDT./1300 UTC  
62° 46.6' N  
092° 06.1' W  
UNLOADING CARGO  
180° or other (specify):  
WXN  
10KMS

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           |
| 0.6         |
| 25kts       |
| NW 310°     |
| Ø           |
| Ø           |
| 20 H.       |
| Out or (In) |
| IN          |

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

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

[illegible]

<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 stationary platform survey

## Scan Information:

|                        |                           |  |        |
|------------------------|---------------------------|--|--------|
| Company/agency         | DESGAGNES TRANSARCTIC     | Weather code                             | 0      |
| Platform name and type | ACADIA DESGAGNES          | Glare conditions code                    | 1      |
| Observer (s)           | MICHEL LACROIX            | Sea state code                           | 1      |
| Date (DD/MMM/YYYY)     | 19-07-2017                | Wave height (m)                          | 0.3    |
| Time at start (UTC)    | 10:00 U.T.C.              | True wind speed (knots) OR Beaufort code | 15 KTS |
| Latitude               | 62° 46.6' N               | True wind direction (deg)                | 230°   |
| Longitude              | 092° 06.1' W              | Ice type code                            | 0      |
| Platform activity      | OFF LOADING ANCHORAGE     | Ice concentration code                   | 0      |
| Scan type              | 180° or other (specify: ) | Height of eye (m)                        | 20     |
| Scan direction         | W'LY                      | Out or (In)                              |        |
| Visibility (km)        | 10KMS                     |  |        |

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      | 1       | FLY             | Y                 | C                       |        |        | ND                         | A                |                    |     | LIKE LOOK FISH |
| GLGU      | 1       | FLY             | Y                 | C                       |        |        | SW                         | A                |                    |     |                |
| GULL      | 1       | FLY             | Y                 | D                       |        |        | W                          | A                |                    |     |                |
| GULL      | 2       | FLY             | Y                 | D                       |        |        | NE                         | 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(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              | Weather code                             | 1           |
| Platform name and type | ACADIA DESGAGNÉS          | Glare conditions code                    | 3           |
| Observer (s)           | MICHEL LACROIX            | Sea state code                           | 4           |
| Date (DD/MMM/YYYY)     | 20-07-2017                | Wave height (m)                          | 0.8 m.      |
| Time at start (UTC)    | 1000 U.T.C.               | True wind speed (knots) OR Beaufort code | 25/30 kts   |
| Latitude               | 62° 46.6' N               | True wind direction (deg)                | 320°        |
| Longitude              | 092° 06.1' W              | Ice type code                            | Ø           |
| Platform activity      | ANCHORED/OFF LOAD         | Ice concentration code                   | Ø           |
| Scan type              | 180° or other (specify: ) | Height of eye (m)                        | 20 m.       |
| Scan direction         | NW'LY                     | Outdoors or Indoors                      | Out or (In) |
| Visibility (km)        | 12KMS                     |  |             |

*Notes:*

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

| *<br>Species | *<br>Count | *<br>Fly or Water? | *<br>In semi-circle? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | Flight Direc. <sup>2</sup> | Age <sup>3</sup> | Plum. <sup>4</sup> | Sex | Comments         |
|--------------|------------|--------------------|----------------------|----------------------------|--------|--------|----------------------------|------------------|--------------------|-----|------------------|
| GLGU         | 1          | FLY                | Y                    | B                          |        |        | NE                         | A                |                    |     |                  |
| GLGU         | 1          | FLY                | Y                    | B                          |        |        | NE                         | A                |                    |     |                  |
| GLGU         | 1          | FLY                | Y                    | C                          |        |        | NE                         | A                |                    |     |                  |
| GULL         | 1          | FLY                | Y                    | E                          |        |        | ND                         | A                |                    |     | LIKELY LOOK FISH |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |
|              |            |                    |                      |                            |        |        |                            |                  |                    |     |                  |

<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)

**Scan Information:**

|                           |
|---------------------------|
| AGNICO EAGLE              |
| ACADIA DESGAGNES          |
| MICHEL LACROIX            |
| 21-07-2017                |
| 1000 UTC                  |
| 62° 46.6' N               |
| 092° 06.1' W              |
| ANCHORED & OFF LOAD       |
| 180° or other (specify: ) |
| WILY                      |
| 10 KMS                    |

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

0  
2  
1  
0.3  
10/15  
290°  
Ø  
Ø  
20m  
Out or (In)

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

[illegible]

<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

Day 4

➔ Fill out one sheet per observation period

| Observation Period Information: |                       |           |   |                       |
|---------------------------------|-----------------------|-----------|---|-----------------------|
| Company/agency                  | Desgagnés Transarctik |           | Sea state code ★                              | 0                     |
| Platform name and type          | Acadia Desgagnés      |           | Wave height (m)                               | 1 m                   |
| Observer (s)                    | Michel Galençon       |           | True wind speed (knots) OR ★<br>Beaufort code | 23.5                  |
| Date (DD/MMM/YYYY)              | 18 Jul 2017           |           | True wind direction                           | 300                   |
| Time at start ( UTC )           | 9.00                  |           | Ice type code ★                               | 0                     |
| Time at end (UTC )              | 9.29                  |           | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62°36.8 N             | 62°38.3 N | True platform speed (knots)                   | 10.2                  |
| Longitude at start / end        | 91°02.7 W             | 91°13.1 W | True platform direction                       | 285                   |
| Visibility (km)                 | 20                    |           | Observation side                              | Starboard Port Middle |
| Weather code ★                  | 0                     |           | Height of eye (m)                             | 20 m                  |
| Glare conditions code ★         | 3                     |           | Outdoors or Indoors                           | Out or In             |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 18 Sep 2017               | No observation                    |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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

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★

Bergsgaues (Hauvdalet)  
 Clavida Bergsgaues  
 Michiel Galumseeu  
 18 Jul 2017  
 9.00  
 9.29  
 62°36.8 N 62°38.3 N  
 91°02.7 W 91°13.1 W  
 Sailing  
 20  
 0  
 3

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?

0  
 1 m  
 23.5  
 300  
 0  
 0  
 10.2  
 285  
 Starboard Port  
 20 m  
 Out or In  
 Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments                      |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|-------------------------------|
| TBMU         | 4          | F                     | Y                     | 50                         |        |        |                                    |                       |                         |     |                               |
| Unkn         | 2          | F                     | Y                     | 50                         |        |        |                                    |                       |                         |     | enatic fly                    |
| → COEI       | 2          | F                     | Y                     | 50                         |        |        |                                    |                       |                         |     | just after observation period |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |                               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |                               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |                               |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |                               |

★Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

Day 3

AGNICO EAGLE

## Observation Period Information:

|                          |                  |           |   |                       |
|--------------------------|------------------|-----------|---|-----------------------|
| Company/agency           | Desgagnés Inland |           | Sea state code ★                              | 4                     |
| Platform name and type   | Acadia Desgagnés |           | Wave height (m)                               | 1.5                   |
| Observer (s)             | Michael Galan    |           | True wind speed (knots) OR ★<br>Beaufort code | 15.9                  |
| Date (DD/MMM/YYYY)       | 17 Jul 2017      |           | True wind direction                           | 300                   |
| Time at start (UTC)      | 22.04            |           | Ice type code ★                               | 0                     |
| Time at end (UTC)        | 22.34            |           | Ice concentration code ★                      | 0                     |
| Latitude at start / end  | 62°16.6 N        | 62°17.5 N | True platform speed (knots)                   | 11.4                  |
| Longitude at start / end | 86°57.1 W        | 87°08.8 W | True platform direction                       | 277                   |
| Visibility (km)          | 20               |           | Observation side                              | Starboard Port Middle |
| Weather code ★           | 0                |           | Height of eye (m)                             | 20 m                  |
| Glare conditions code ★  | 3                |           | Outdoors or Indoors                           | Out or In             |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| July 17, 2017             |                                   | no observation        |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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

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★

|                         |            |
|-------------------------|------------|
| Bergues Transatlantique |            |
| Atadia Bergues          |            |
| M. Galarneau            |            |
| 17 Jul 2017             |            |
| 22.04                   |            |
| 22.34                   |            |
| 62° 16.6 N              | 62° 17.5 N |
| 86° 57.1 W              | 87° 08.8 W |
| Sailing                 |            |
| 20 Km                   |            |
| 0                       |            |
| 3                       |            |

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?

|                |
|----------------|
| 4              |
| 1.5 m          |
| 15.9           |
| 300            |
| 0              |
| 0              |
| 11.4           |
| 277            |
| Starboard Port |
| 20 m           |
| Out or In      |
| Yes or No      |

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | * ★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|------------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| TRM1         | 1          | F                     | Y                      | 50                         |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                        |                            |        |        |                                    |                       |                         |     |          |

★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

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★

|                      |           |
|----------------------|-----------|
| Bergaghes Transacted |           |
| Ardie Bergaghes      |           |
| M. Galamone          |           |
| 17 Jul 2017          |           |
| 19.43                |           |
| 20.15                |           |
| 62°12.0 N            | 62°13.1 N |
| 86°02.6 W            | 86°14.8 W |
| Sailing              |           |
| 20 Km                |           |
| 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?

|                |
|----------------|
| 4              |
| 1.5            |
| 18             |
| 290            |
| 0              |
| 0              |
| 11.1           |
| 280            |
| Starboard Port |
| 20 m           |
| Out or In      |
| Yes or No      |

Notes:

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

| *<br>Species   | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Phum. <sup>4</sup> | Sex | Comments |
|----------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| No observation |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|                |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

|                     |  |
|---------------------|--|
| Desgagnés Nanavik   |  |
| Arctic Desgagnés    |  |
| M. Galamian         |  |
| 17 Jul 2017         |  |
| 10:27               |  |
|                     |  |
| 62°00.1N            |  |
| 82°43.9W            |  |
| Sailing Half speed. |  |
| .1 Km               |  |
| 3                   |  |
| 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?

|                           |
|---------------------------|
| 4                         |
| 2                         |
| 20                        |
| 210                       |
| 0                         |
| 0                         |
| 8.2                       |
| 238                       |
| Starboard <del>Port</del> |
| 20 m                      |
| Out <del>or In</del>      |
| Yes or No                 |

## Notes:

No observation Quid due to dense fog and observer at the wheel.

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

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

★Refer to "Codes" datasheets

Day 2

AGNICO EAGLE

## 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          | Acadie Desgagnés      |          | Wave height (m)                               | .5                           |
| Observer (s)                    | Michèle Galamone      |          | True wind speed (knots) OR ★<br>Beaufort code | 2.9                          |
| Date (DD/MMM/YYYY)              | 16 Jul 2017           |          | True wind direction                           | 210                          |
| Time at start (UTC)             | 11.37                 |          | Ice type code ★                               | 0                            |
| Time at end (UTC)               | 12.07                 |          | Ice concentration code ★                      | 0                            |
| Latitude at start / end         | 62°31.1N              | 62°31.4N | True platform speed (knots)                   | 11.4                         |
| Longitude at start / end        | 73°53.1W              | 74°00W   | True platform direction                       | 271                          |
| Visibility (km)                 | 10K                   |          | Observation side                              | <u>Starboard</u> Port Middle |
| Weather code ★                  | 0                     |          | Height of eye (m)                             | 20 m                         |
| Glare conditions code ★         | 1                     |          | Outdoors or Indoors                           | Out or <u>In</u>             |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|-------------------|----------------------|-----------------------|
| 16 Jul                    | 271<br>11.4                       | 0                     | N                     | 62°31.1N<br>73°53.1W                       | Atlantic Walrus<br>3             | 100 to 50m                   | 0 moving to 90°   | same direction & surfacing   | mature adult male |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |                   |                      |                       |

Notes:

★ 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

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★

|                  |          |
|------------------|----------|
| Desq. Transactix |          |
| Acadia Desq.     |          |
| M. Galameau      |          |
| 16 Jul 2017      |          |
| 09.27            |          |
| 10.00            |          |
| 62° 26.5 N       | 62° 29.3 |
| 72° 59.1 W       | 73° 11.8 |
| Sailing          |          |
| 10               |          |
| 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?

|                |
|----------------|
| 0              |
| 0 +            |
| 4.7            |
| 250            |
| 0              |
| 0              |
| 12.1           |
| 290            |
| Starboard Port |
| 20m            |
| Out or In      |
| Yes or No      |

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav.        | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|---------------|------------------------------------|-----------------------|-------------------------|-----|----------|
| TBMU         | 4          | Fly                   | 1                     | B                          |        | <del>49</del> |                                    |                       |                         |     |          |
| TBMU         | 2          | Fly                   | 1                     | B                          |        | 49            |                                    |                       |                         |     |          |
| UNQA         | 1          | Fly                   | 1                     | B                          |        |               |                                    |                       |                         |     |          |
| TBMU         | 1          | Fly                   | 1                     | B                          |        |               |                                    |                       |                         |     |          |
| TBMU         | 2          | Fly                   | 1                     | B                          |        |               |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |               |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |               |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |               |                                    |                       |                         |     |          |

★Refer to "Codes" datasheets

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## Observation Period Information:

PM

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★

|                      |          |
|----------------------|----------|
| Bergaigne Transact 2 |          |
| Odadia Bergaigne     |          |
| M. Galameau          |          |
| 16 Jul 2017          |          |
| 19.37                |          |
| 19.12                |          |
| 62°37.5N             | 62°37.8N |
| 78°48.5W             | 77°00.1W |
| Sailing              |          |
| 10                   |          |
| 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?

|                |
|----------------|
| 0              |
| 1 m            |
| 24.5           |
| 220            |
| 0              |
| 0              |
| 11.8           |
| 269            |
| Starboard Port |
| 20 m           |
| Out or In      |
| Yes or No      |

Notes:

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

same flight

| * Species | * Count | * Fly or Water? | * In transect? | * Distance <sup>1</sup> | Assoc. | Behav. | Flight Direc. <sup>2</sup> | Age <sup>3</sup> | Phum. <sup>4</sup> | Sex | Comments |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| TBMU      | 1       | F               | ✓              | B                       |        |        |                            |                  |                    |     |          |
| TBMU      | 12      | F               | ✓              | B                       |        |        |                            |                  |                    |     |          |
| COEI      | 4       | F               | ✓              | B                       |        |        |                            |                  |                    |     |          |
| TBMU      | 1       | W               | ✓              | A                       |        | 60     |                            |                  |                    |     |          |
| TBMU      | 3       | F               | ✓              | B                       |        |        |                            |                  |                    |     |          |
| TBMU      | 1       | W               | ✓              | A                       |        | 60     |                            |                  |                    |     |          |
|           |         |                 |                |                         |        |        |                            |                  |                    |     |          |
|           |         |                 |                |                         |        |        |                            |                  |                    |     |          |

same group of observation

★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

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★

Desgagnies Transact  
Oradica Desgagnies  
M. Gabaneau  
16 Jul 2017  
22.19  
22.49  
62°41. N 62°41.4 N  
78°20.4 W 78°33.6 W  
Sailing  
15 km  
0  
3

Sea state code

Wave height (m)

True wind speed★(knots) OR  
Beaufort code

True wind direction★(deg)

Ice type code

Ice concentration code

True platform speed (knots)

True platform direction (deg)

Observation side

Height of eye (m)

Outdoors or Indoors

Snapshot used?

1  
1 m  
8  
210  
0  
0  
12.4  
276  
Starboard Port  
20 m  
Out or In  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| TBMU         | 6          | F                     | ✓                     | B                          |        |        |                                    |                       |                         |     |          |
| DOVE         | 2          | W                     | ✓                     | A                          |        |        |                                    |                       |                         |     |          |
| TBMU         | 1          | F                     | ✓                     | B                          |        |        |                                    |                       |                         |     |          |
| TBMU         | 10         | F                     | ✓                     | B                          |        |        |                                    |                       |                         |     |          |
| DOVE         | 12         | F                     | ✓                     | B                          |        |        |                                    |                       |                         |     |          |
| DOVE         | 2          | W                     | ✓                     | A                          |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★Refer to "Codes" datasheets

Day 1

AGNICO EAGLE

## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                       |         |   |   |
|---------------------------------|-----------------------|---------|---|---|
| Company/agency                  | Desgagnés Transarctic |         | Sea state code ★                              | 1   |
| Platform name and type          | Acadia Desgagnés      |         | Wave height (m)                               | 1   |
| Observer (s)                    | Michelle Gaborneau    |         | True wind speed (knots) OR ★<br>Beaufort code | 18  |
| Date (DD/MMM/YYYY)              | 15-Jul-2017           |         | True wind direction                           | 270   |
| Time at start ( UTC )           | 19205                 |         | Ice type code ★                               | 3   |
| Time at end (UTC )              | 19235                 |         | Ice concentration code ★                      | 1   |
| Latitude at start / end         | 61° 12.34 N           | 61° 14' | True platform speed (knots)                   | 10  |
| Longitude at start / end        | 67° 39.11 W           | 67° 48' | True platform direction                       | 295   |
| Visibility (km)                 | 10 KM                 |         | Observation side                              | Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/> |
| Weather code ★                  | 1                     |         | Height of eye (m)                             | 20 m  |
| Glare conditions code ★         | 2                     |         | Outdoors or Indoors                           | Out <input type="checkbox"/> or <input checked="" type="checkbox"/> In                                      |
| 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) |
|---------------------------|-----------------------------------|-----------------------|-----------------------|--|----------------------------------|------------------------------|-------------------|------------------------------|---------|----------------------|-----------------------|
| 15 Jul 2017<br>19205      | 295                               | 1                     |                       | 61° 12                                     | NA                               | /                            | -                 | -                            | -       | -                    | -                     |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |
|                           |                                   |                       |                       |  |                                  |                              |                   |                              |         |                      |                       |

Notes:

★ 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           | Desgagnés Inawachic | Sea state code                           | 1              |
| Platform name and type   | Arctica Desgagnés   | Wave height (m)                          | 1              |
| Observer (s)             | Michele Galarneau   | True wind speed (knots) OR Beaufort code | 18             |
| Date (DD/MMM/YYYY)       | 15 Jul 2017         | True wind direction (deg)                | 270            |
| Time at start (UTC)      | 19205               | Ice type code                            | 3              |
| Time at end (UTC)        | 19235               | Ice concentration code                   | 1              |
| Latitude at start / end  | 61°12' / 61°14'     | True platform speed (knots)              | 10             |
| Longitude at start / end | 67°39' / 67°48'     | True platform direction (deg)            | 295            |
| Platform activity        | Souling             | Observation side                         | Starboard Port |
| Visibility (km)          | 10 km               | Height of eye (m)                        | 20 m           |
| Weather code             | 1                   | Outdoors or Indoors                      | Out or In      |
| Glare conditions code    | 2                   | 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      | 5       | fly             | Y              | B                       |        |        | NB                           |                    |                      |     |          |
| TBMU      | 7       | fly             | Y              | B                       |        |        | W                            |                    |                      |     |          |
| TBMU      | 4       | fly             | Y              | B                       |        |        | N                            |                    |                      |     |          |
|           |         |                 |                |                         |        |        |                              |                    |                      |     |          |
|           |         |                 |                |                         |        |        |                              |                    |                      |     |          |
|           |         |                 |                |                         |        |        |                              |                    |                      |     |          |
|           |         |                 |                |                         |        |        |                              |                    |                      |     |          |
|           |         |                 |                |                         |        |        |                              |                    |                      |     |          |

★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

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★

*Don*

*Besgagies Transactic*  
*Alceda Besgagies*  
*Michael Sabaneau*  
*15 Jul 2017*  
*22230*  
*232*  
*61°27.2 61°29.5*  
*68°40.9 68°52.4*  
*Sailing*  
*10*  
*1*  
*2*

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?

*4*  
*2*  
*17.6*  
*270*  
*3*  
*1*  
*11.2*  
*295*  
*Starboard* Port  
*20m*  
Out or *In*  
Yes or No

Notes:

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Plum. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
| TBMU         | 2          | W                     | Y                     | <del>200</del> A           |        |        |                                    |                       |                         |     |          |
| TBMU         | 1          | F                     | Y                     | A                          |        |        |                                    |                       |                         |     |          |
| Unqa         | 2          | F                     | Y                     | A                          |        |        |                                    |                       |                         |     |          |
| TBMU         | 1          | W                     | Y                     | A                          |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★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

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★

*Desgagnier Maritime*  
*Acadia Desgagnier*  
*M. Galarneau*  
*15 July 2017*  
*60*  
*60° 32.2*  
*64° 48.9*  
*Sailing through ice*

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?

|                |
|----------------|
|                |
|                |
|                |
|                |
|                |
|                |
|                |
|                |
| Starboard Port |
|                |
| Out or In      |
| Yes or No      |

Notes:

*no observation possible*

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

| *<br>Species | *<br>Count | *<br>Fly or<br>Water? | *★<br>In<br>transect? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | ★<br>Flight<br>Direc. <sup>2</sup> | ★<br>Age <sup>3</sup> | ★<br>Phun. <sup>4</sup> | Sex | Comments |
|--------------|------------|-----------------------|-----------------------|----------------------------|--------|--------|------------------------------------|-----------------------|-------------------------|-----|----------|
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |
|              |            |                       |                       |                            |        |        |                                    |                       |                         |     |          |

★Refer to "Codes" datasheets

# seabird survey protocol- moving vessel

| species         | count | fly or water        | in transe distance assoc. |      | behaviour | flight direction         | age    | plum | sex | comments | date | position                        |
|-----------------|-------|---------------------|---------------------------|------|-----------|--------------------------|--------|------|-----|----------|------|---------------------------------|
| thayers gull    | 1     | sitting on the ship | no                        | 50m  | -         | sitting on the container | circle | -    | -   | -        | -    | 2017-01-07 54-21.6N /056-05.3'W |
| sabine's        | 2     | fly                 | no                        | 20m  | -         | flying                   | circle | -    | -   | -        | -    | 2017-03-07 59-09'N/021-08'W     |
| thayers gull    | 2     | fly                 | no                        | 100m | -         | flying                   | circle | -    | -   | -        | -    | 2017-03-07 59-09'N/021-08'W     |
| pomarine jaeger | 1     | fly                 | no                        | 100m | -         | flying                   | circle | -    | -   | -        | -    | 2017-03-07 59-02'N/029-07'W     |
| black scoter    | 1     | swim                | no                        | 30m  | -         | swimming                 | -      | -    | -   | -        | -    | 2017-06-07 62-55.6'N/079-07'W   |
| pomarine jaeger | 5     | fly                 | no                        | 30m  | -         | flying                   | circle | -    | -   | -        | -    | 2017-03-08 61-30.2'N/068-36.7'W |
|                 |       |                     |                           |      |           |                          |        |      |     |          |      |                                 |
|                 |       |                     |                           |      |           |                          |        |      |     |          |      |                                 |

## whales

| day        | hour observed | posiotion            | wind | sky | species         | count              | remarks         | location     | certainty |  |  |  |  |
|------------|---------------|----------------------|------|-----|-----------------|--------------------|-----------------|--------------|-----------|--|--|--|--|
| 2017-07-01 | 2000          | 54-14.6'N/055-59.0'W | 1    | 1   | killer whale    | approximilty 4     |                 | Labrador     | 1         |  |  |  |  |
| 2017-07-02 | 1030          | 56-34'N/057-44.5'W   | 1    | 2   | pilot whale     | approximilty 10    |                 | Labrador     | 2         |  |  |  |  |
| 2017-07-02 | 1710          | 57-59.2'N/059-34.3'W | 1    | 0   | pilot whale     | approximilty 8     |                 | labrador     |           |  |  |  |  |
| 2017-07-06 | 0942          | 62-20'N/074-00'W     | 1    | 2   | morse           | 2                  | 1 adult/1 young | charles isl. |           |  |  |  |  |
| 2017-07-15 | 1420          | 63-03.0'N/083-50'W   | 1    | 2   | pilot whale     | approximilty 10    |                 | coats isl.   | 3         |  |  |  |  |
| 2017-07-20 | 1153          | 55-05'N/064-23.0'W   | 1    | 1   | humpback whales | 2 / approximitly 5 |                 | anticosti    | 1         |  |  |  |  |
| 2017-07-30 | 1945          | 49-57.7'N/064-36.0'W | 1    | 1   | pilot whale     | between 5-10       |                 | anticosti    | 1         |  |  |  |  |
| 2017-07-30 | 1945          | 49-57.7'N/064-36.0'W | 1    | 1   | humpback whales | between 3-6        |                 | anticosti    | 1         |  |  |  |  |
| 2017-08-01 | 0000          | 53-17'N/055-20'W     | 1    | 2   | petit rorqual   | 1                  |                 | labrador     | 2         |  |  |  |  |
|            |               |                      |      |     |                 |                    |                 |              | 1         |  |  |  |  |

# Record sheet for a moving platform survey

## Observation Period Information:

|                          |                                  |  |                 |
|--------------------------|----------------------------------|--|-----------------|
| Company/agency           | TRANSPORT DESGAGNES              | Sea state code                           | 1               |
| Platform name and type   | CLAUDE A. DESGAGNES (CARBO SHIP) | Wave height (m)                          | <1m             |
| Observer (s)             | SANDRA LEBON                     | True wind speed (knots) OR Beaufort code | 3-4 (BEAUFORT)  |
| Date (DD/MM/YYYY)        | 26/06/2017                       | True wind direction (deg)                | 030°(T)         |
| Time at start (UTC)      | 2100                             | Ice type code                            | 3-4             |
| Time at end (UTC)        | 2230                             | Ice concentration code                   | 5               |
| Latitude at start / end  | 61°32.1'N 61°34.3'N              | True platform speed (knots)              | 8 (SO9) 7 (STW) |
| Longitude at start / end | 067°44.7'W 68°07.4'W             | True platform direction (deg)            | VAR (NNW)       |
| Platform activity        | TRAVELING                        | Observation side                         | Starboard Port  |
| Visibility (km)          | ~10                              | Height of eye (m)                        | 20m             |
| Weather code             | 1                                | Outdoors or Indoors                      | Out or In       |
| Glare conditions code    | 0                                | Snapshot used?                           | Yes or No       |

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

## 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      | 1       | FLY             | Y              | C                       | DATA   |        | SW                         | ?                |                    |     | BLACK, SMALL, FAST        |
| TBMU      | 1       | WATER           | Y              | C                       | 27     |        | X                          | ?                |                    |     |                           |
| TBMU      | 1       | FLY             | Y              | C                       | 27     |        |                            | ?                |                    |     |                           |
| TBMU      | 1       | WATER           | Y              | B                       | 27     |        |                            | ?                |                    |     |                           |
| TBMU      | 1       | WATER           | Y              | D                       | 27     |        |                            | ?                |                    |     |                           |
| TBMU      | 2       | WATER           | Y              | B                       | 27     |        |                            |                  |                    |     | PAIRED                    |
| UNGU      | 1       | FLY             | Y              | C                       | 27     |        | NW                         |                  |                    |     | WHITE                     |
| TBMU      | 1       | WATER           | Y              | E                       | 27     |        |                            |                  |                    |     | CLOSE TO ICE, DIVE.       |
| TBMU      | 1       | WATER           | Y              | B                       | 27     |        |                            |                  |                    |     |                           |
| TBMU      | 5       | FLY             | Y              | D                       | 27     |        | NE                         |                  |                    |     | LANNED ON ICE             |
| TBMU      | 5       | WATER           | Y              | C                       | 27     |        |                            |                  |                    |     | SAME GROUP ????           |
| TBMU      | 1       | FLY             | Y              | C                       | 27     | 71?    |                            |                  |                    |     |                           |
| TBMU      | 2       | WATER           | Y              | C                       | 27     |        |                            |                  |                    |     |                           |
| UNGU      | 1       | FLY             | Y              | C                       | 27     | 71?    |                            |                  |                    |     | EIGHT GREY, SOME WHITE    |
| TBMU      | 1       | WATER           | Y              | B                       | 27     |        |                            |                  |                    |     |                           |
| PAJA?     | 1       | FLY             | Y              | B                       | 27     | 49     |                            |                  |                    |     | CIRCLING BY THE SIDE ~20S |
| TBMU      | 2       | FLY             | Y              | A                       | 27     |        |                            |                  |                    |     |                           |

<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)

|               |   |       |   |   |    |  |
|---------------|---|-------|---|---|----|--|
| TBMU          | 4 | WATER | Y | C | 27 |  |
| TBMU          | 3 | WATER | Y | C | 27 |  |
| TBMU          | 1 | WATER | Y | D | 27 |  |
| THAYER'S GULL | 1 | FLY   | Y | C | 27 |  |
| TBMU          | 1 | FLY   | Y | B | 27 |  |

PASSED/CROSSED THE BOW ~ 50m

| 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) |
|------------------------------|-----------------------------------|---------------------|-----------------------|---|--------------------------------|------------------------------|-------------------|----------------------------|---------|----------------------|-----------------------|
| 26/06/2017<br>0830<br>- 2300 | NO SIGHTING                       |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                              |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                              |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                              |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                              |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                              |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
| Notes:                       |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |



| Observation Period Information: |   |  |   |                                   |
|---------------------------------|---|--|---|-----------------------------------|
| Company/agency                  | <del>GEAR</del> TRANSP. DESGAGNES           |  | Sea state code                              | 1                                 |
| Platform name and type          | CLAUDE A. DESGAGNES<br>(GENERAL CARGO SHIP) |  | Wave height (m)                             | <1m                               |
| Observer (s)                    | SANDRA LEBON                                |  | True wind speed (knots) OR<br>Beaufort code | 4 (BEAUFORT)                      |
| Date (DD/MM/YYYY)               | 26/06/2017                                  |  | True wind direction                         | 015°(T) (NNE)                     |
| Time at start (UTC)             | 2330 2230                                   |  | Ice type code                               | 3-4                               |
| Time at end (UTC)               | 0000 2300                                   |  | Ice concentration code                      | 5                                 |
| Latitude at start / end         | 61°34.3'N                                   |  | True platform speed (knots)                 | 7 (STW) 8 (SOG)                   |
| Longitude at start / end        | 68°07.4'W                                   |  | True platform direction                     | VAR (NNW)                         |
| Visibility (km)                 | ~10 km                                      |  | Observation side                            | <u>Starboard</u> Port Middle      |
| Weather code                    | 1   |  | Height of eye (m)                           | 20 m                              |
| Glare conditions code           | 1   |  | Outdoors or Indoors                         | Out or <u>In</u>                  |
| Platform Activity               | NA TRAVELING                                |  | Notes                                       | FOLLOWING ICE-BREAKER<br>~ 0.6 NM |

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

**Observation Period Information:**

Notes: NO ICE.

[illegible]

<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)

| Observation Period Information: |   |            |   |  |
|---------------------------------|---|------------|---|--|
| Company/agency                  | TRANSPORT DESGAGNES                     |            | Sea state code                              | 3  |
| Platform name and type          | CLAUDE A DESGAGNES<br>(GEN. CARGO SHIP) |            | Wave height (m)                             | <1m  |
| Observer (s)                    | SANDRA LEBON                            |            | True wind speed (knots) OR<br>Beaufort code | 6 (BEAUFORT)   |
| Date (DD/MM/YYYY)               | 27/06/2017                              |            | True wind direction                         | 270° (T)   |
| Time at start (UTC)             | 2245                                    |            | Ice type code                               | N/A  |
| Time at end (UTC)               | 2315                                    |            | Ice concentration code                      | 0  |
| Latitude at start / end         | 62°42.1'N                               | 62°45.8'N  | True platform speed (knots)                 | 12 kts   |
| Longitude at start / end        | 072°46.4'W                              | 072°55.7'W | True platform direction                     | 308° (T)   |
| Visibility (km)                 | >10 km                                  |            | Observation side                            | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code                    | 1                                       |            | Height of eye (m)                           | 20m  |
| Glare conditions code           | 0                                       |            | Outdoors or Indoors                         | Out <input type="radio"/> or <input checked="" type="radio"/> In                                   |
| Platform Activity               | TRAVELING                               |            | Notes                                       | NO ICE   |

| 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) |
|---------------------------|-----------------------------------|---------------------|-----------------------|--|--------------------------------|------------------------------|-------------------|----------------------------|---------|----------------------|-----------------------|
| 29/06/17<br>2245<br>2315  | NO SIGHTING                       |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
| Notes:                    |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |

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

| Observation Period Information: |   |  |   |  |
|---------------------------------|---|--|---|--|
| Company/agency                  | TRANSPORT DESGAGNES                     |  | Sea state code                              | 4  |
| Platform name and type          | CLAUDE A. DESGAGNES<br>(GEN CARGO SHIP) |  | Wave height (m)                             | 1m   |
| Observer (s)                    | SANDRA LEBON                            |  | True wind speed (knots) OR<br>Beaufort code | 13 kts   |
| Date (DD/MMM/YYYY)              | 28/06/2017                              |  | True wind direction                         | 015°   |
| Time at start (UTC)             | 2245                                    |  | Ice type code                               | / NO ICE   |
| Time at end (UTC)               | 2315                                    |  | Ice concentration code                      | 0  |
| Latitude at start / end         | 63°11.5'N   63°11.7'N                   |  | True platform speed (knots)                 | 13 kts   |
| Longitude at start / end        | 080°18.5'W   80°33.7'W                  |  | True platform direction                     | 275°(T)  |
| Visibility (km)                 | >10 km                                  |  | Observation side                            | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code                    | 0                                       |  | Height of eye (m)                           | 20 m   |
| Glare conditions code           | 2/3                                     |  | Outdoors or Indoors                         | <input type="radio"/> Out    or <input checked="" type="radio"/> In                                |
| Platform Activity               | TRAVELING                               |  | Notes                                       |  |



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

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



## C

## Glare conditions code

|                                 |            |
|---------------------------------|------------|
| TRANSPORT DESGAGNES             |            |
| CLAUDE A DESGAGNES (CARLO SHIP) |            |
| SANDRA LEBON                    |            |
| 28/06/2017                      |            |
| 2115                            |            |
| 2245                            |            |
| 23°15.5'N                       | 63°11.5'N  |
| 079°36.4'W                      | 080°18.5'W |
| TRAVELING                       |            |
| >10 km                          |            |
| 0                               |            |
| 2                               |            |

Snapshot used?

|                |
|----------------|
| 5              |
| 1m             |
| 4 (BEAUFORT)   |
| 000° (T)       |
| 3              |
| 0              |
| 13.7 kts       |
| 230° (T)       |
| Starboard Port |
| 20m            |
| Out or In      |
| Yes or No      |

Notes: SUN REFLECTING ON WATER MAKES OBSERVATION DIFFICULT

[illegible]

<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           | TRANSPORT DESGAGNES            | Sea state code                           | 1              |
| Platform name and type   | CLAUDE A. DESGAGNES CARGO SHIP | Wave height (m)                          | <1m            |
| Observer (s)             | SANDRA LEBON                   | True wind speed (knots) OR Beaufort code | 8 kts          |
| Date (DD/MM/YYYY)        | 29/06/2017                     | True wind direction (deg)                | 150°           |
| Time at start (UTC)      | 2200                           | Ice type code                            | 3              |
| Time at end (UTC)        | 2330                           | Ice concentration code                   | 0              |
| Latitude at start / end  | 62°36.4'N 62°40.7'N            | True platform speed (knots)              | 13 kts         |
| Longitude at start / end | 090°39.6'W 091°30.5'W          | True platform direction (deg)            | 290°           |
| Platform activity        | >10km TRAVELING                | Observation side                         | Starboard Port |
| Visibility (km)          | ↙                              | Height of eye (m)                        | 20m            |
| Weather code             | 0                              | Outdoors or Indoors                      | Out or In      |
| Glare conditions code    | 3                              | Snapshot used?                           | Yes or No      |

Notes:

## 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          | 2       | ON ICE          | N              | E                       | 2A     |        |                            |                  |                    |     | WHITE, FAR                  |
| UNDU          | 2       | FLY             | Y              | B                       |        |        | NW                         |                  |                    |     | BLACK                       |
| UNKN          | ~30     | FLY             | N              | E                       |        |        | N                          |                  |                    |     | DARK (BROWN?), LOW ON WATER |
| Thayer's gull | 4       | ON ICE          | Y              | C                       | 2A     |        |                            |                  |                    |     | RESTING                     |
| ↓             | 1       | FLY             | Y              | B                       |        |        |                            |                  |                    |     | TOWARDS SHIP                |
| UNGU          | 1       | FLY             | Y              | C                       |        |        |                            |                  |                    |     |                             |
| UNGU          | 1       | PEY             | Y              | C                       | 2A     |        | 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(oilt)

| Observation Period Information: |                                      |             |   |   |
|---------------------------------|--------------------------------------|-------------|---|---|
| Company/agency                  | TRANSPORT DESGAGNES                  |             | Sea state code                              | 2   |
| Platform name and type          | CLAUDE A DESGAGNES<br>GEN. CARGO VSL |             | Wave height (m)                             | <1m   |
| Observer (s)                    | SANDRA LEBON                         |             | True wind speed (knots) OR<br>Beaufort code | 11 kts  |
| Date (DD/MMM/YYYY)              | 29/06/2017                           |             | True wind direction                         | 180°  |
| Time at start ( UTC )           | 2130                                 |             | Ice type code                               | 3   |
| Time at end ( UTC )             | 2200                                 |             | Ice concentration code                      | 0   |
| Latitude at start / end         | 62°36.4' N                           | 62°36.9' N  | True platform speed (knots)                 | 13 kts  |
| Longitude at start / end        | 090°39.6' W                          | 090°24.5' W | True platform direction                     | 270°  |
| Visibility (km)                 | >10km                                |             | Observation side                            | Starboard    Port    Middle                   |
| Weather code                    | 0                                    |             | Height of eye (m)                           | 20m   |
| Glare conditions code           | 1                                    |             | Outdoors or Indoors                         | Out    or <input checked="" type="radio"/> In |
| Platform Activity               | TRAVELING                            |             | Notes                                       |   |

| Date and Time of Sighting       | Vessel Travel Direction and Speed | Weather / Sea State | Re-Sighting? (Y or N) | Sighting Waypoint or Lat/Long (Garmin GPS) | Species, Number of Individuals | Distance to Animal (m or km) | Angle to Sighting | Behaviour/Travel Direction            | Age/Sex | Mitigation Required? | Photo Number (if any) |
|---------------------------------|-----------------------------------|---------------------|-----------------------|--|--------------------------------|------------------------------|-------------------|---------------------------------------|---------|----------------------|-----------------------|
| JUNE 29 <sup>2013</sup><br>2130 | 13kts<br>W                        | 1                   |                       | 62°36.0'N<br>090°42.3'W                    | 1<br>RINGED<br>SEAL            | ~300m                        | 90°               | RESTING ON ICE                        | ?       |                      |                       |
| 2136                            | 13kts<br>W                        | 1                   |                       | 62°36.0'N<br>090°42.3'W                    | 2<br>WALRUSES                  | ~100m                        | 90°               | BLOOD ON ICE<br>→ FEEDING?<br>RESTING | ?       |                      |                       |
| 1758                            | 13kts                             | 1                   |                       | 62°36.08'N<br>090°51.8'W                   | 1<br>WALRUS                    | ~1 NM                        |                   | RESTING ON ICE<br>BIRDS AROUND        |         |                      |                       |
|                                 |                                   |                     |                       |  |                                |                              |                   |                                       |         |                      |                       |
|                                 |                                   |                     |                       |  |                                |                              |                   |                                       |         |                      |                       |
|                                 |                                   |                     |                       |  |                                |                              |                   |                                       |         |                      |                       |
| Notes:                          |                                   |                     |                       |  |                                |                              |                   |                                       |         |                      |                       |

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





|                          |
|--------------------------|
| 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    |

|                      |            |
|----------------------|------------|
| TRANSPORT DESGAGINES |            |
| CLAUDEA DESGAGINES   | SHIP       |
| SANDRA LEBON         |            |
| 30/06/2017           |            |
| 2100                 |            |
| 2230                 |            |
| 62°39.3'N            | 62°43.6'N  |
| 091°16.3'W           | 091°55.5'W |
| TRAVELING            |            |
| >10km                |            |
| 0                    |            |
| 1                    |            |

|  |                           |
|--|---------------------------|
| Sea state code                                     | 0                         |
| Wave height (m)                                    | <1m                       |
| True wind speed (knots) <b>OR</b><br>Beaufort code | 12 kts                    |
| True wind direction (deg)                          | 190°                      |
| Ice type code                                      | 2                         |
| Ice concentration code                             | 1                         |
| True platform speed (knots)                        | 13 kts                    |
| True platform direction (deg)                      | 285°                      |
| Observation side                                   | <del>Starboard</del> Port |
| Height of eye (m)                                  | 20m                       |
| Outdoors or Indoors                                | <del>(Out)</del> or (In)  |
| Snapshot used?                                     | Yes or (No)               |

**Notes:**

[illegible]

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

C

| Observation Period Information: |                         |  |  |                       |
|---------------------------------|-------------------------|--|--|-----------------------|
| Company/agency                  | TRANSPORT DESGAGNES     |  | Sea state code                           | 1                     |
| Platform name and type          | CLAUDE A DESGAGNES      |  | Wave height (m)                          | <1m                   |
| Observer (s)                    | SANDRA LEBON            |  | True wind speed (knots) OR Beaufort code | 14 kts                |
| Date (DD/MMM/YYYY)              | 30/06/2017              |  | True wind direction                      | 180°                  |
| Time at start (UTC)             | 2230                    |  | Ice type code                            | 2                     |
| Time at end (UTC)               | 2300                    |  | Ice concentration code                   | 0                     |
| Latitude at start / end         | 62° 43.6' N 62° 46.4' N |  | True platform speed (knots)              | 13 kts                |
| Longitude at start / end        | 91° 55.5' W 92° 05.3' W |  | True platform direction                  | 300°                  |
| Visibility (km)                 | >10km                   |  | Observation side                         | Starboard Port Middle |
| Weather code                    | 0                       |  | Height of eye (m)                        | 20m                   |
| Glare conditions code           | 2-3                     |  | Outdoors or Indoors                      | Out or In             |
| Platform Activity               | TRAVELING               |  | Notes                                    |                       |

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

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



# Record sheet for a stationary platform survey

## Scan Information:

|                        |                             |  |                      |
|------------------------|-----------------------------|--|----------------------|
| Company/agency         | TRANSPORT DESGAGNES         | Weather code                             | 0                    |
| Platform name and type | CLAUDEA DESGAGNES           | Glare conditions code                    | 1                    |
| Observer (s)           | SANDRA LEBON                | Sea state code                           | <del>1</del> 0       |
| Date (DD/MMM/YYYY)     | 01/07/2017                  | Wave height (m)                          | 0                    |
| Time at start (UTC)    | 2200 → 2230                 | True wind speed (knots) OR Beaufort code | <del>1</del> 2-3 kts |
| Latitude               | 62°46.6'N                   | True wind direction (deg)                | 195°                 |
| Longitude              | 092°05.5' W                 | Ice type code                            | 1                    |
| Platform activity      | DISCHARGING CARGO           | Ice concentration code                   | 1                    |
| Scan type              | (180°) or other (specify: ) | Height of eye (m)                        | 20 m                 |
| Scan direction         | 150 → 330°                  | Outdoors or Indoors                      | Out or (In)          |
| Visibility (km)        | >10 km (land)               |  |                      |

Notes: ANCHORED NEAR RANKIN INLET

## 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                         |
|---------------|---------|-----------------|-------------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------------------------------|
| UNKN          | 2       | ICE             | Y                 | C                       |        |        |                            |                  |                    |     |                                  |
| UNKN          | 2       | WATER           | Y                 | C                       |        |        |                            |                  |                    |     |                                  |
| UNKN          | 2       | ICE             | Y                 | C                       |        |        |                            |                  |                    |     |                                  |
| UNKN          | 1       | FLY             | Y                 | B                       |        |        | ND                         |                  |                    |     |                                  |
| UNKN          | 2       | WATER           | Y                 | C                       |        |        |                            |                  |                    |     |                                  |
| UNKN          | 2       | WATER           | Y                 | D                       |        |        |                            |                  |                    |     |                                  |
| UNKN          | 2       | WATER           | Y                 | D                       |        |        |                            |                  |                    |     | BLACK, MEDIUM                    |
| UNKN          | 2       | WATER           | Y                 | D                       |        |        |                            |                  |                    |     | BLACK                            |
| THAYER'S Gull | 2       | FLY             | Y                 | D                       |        |        | ND                         |                  |                    |     | BLACK, SMALL                     |
| UNKN          | 1       | WATER           | Y                 | D                       |        |        |                            |                  |                    |     |                                  |
| UNGL          | 1       | FLY             | Y                 | D                       |        |        | SW                         |                  |                    |     | BLACK WINGS?                     |
| UNGL          | 1       | ICE             | Y                 | D                       |        |        |                            |                  |                    |     | MAYBE WITH 2 SMALLER ONES. BLACK |
|               |         |                 |                   |                         |        |        |                            |                  |                    |     |                                  |
|               |         |                 |                   |                         |        |        |                            |                  |                    |     |                                  |
|               |         |                 |                   |                         |        |        |                            |                  |                    |     |                                  |
|               |         |                 |                   |                         |        |        |                            |                  |                    |     |                                  |
|               |         |                 |                   |                         |        |        |                            |                  |                    |     |                                  |

<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)

**Observation Period Information:**

|                          |                                 |   |   |
|--------------------------|---------------------------------|---|---|
| Company/agency           | TRANSPORT<br>DESCHAGNES         | Sea state code                              | 0   |
| Platform name and type   | CLAUDE A.<br>DESCHAGNES         | Wave height (m)                             | 0   |
| Observer (s)             | SANDRA LEBON                    | True wind speed (knots) OR<br>Beaufort code | 3kts  |
| Date (DD/MM/YYYY)        | 01/07/2017                      | True wind direction                         | 190°  |
| Time at start ( UTC )    | 2230                            | Ice type code                               | 1   |
| Time at end (UTC )       | 2400                            | Ice concentration code                      | 1   |
| Latitude at start / end  | 62°46.6'N 62°46.6'N<br>ANCHORED | True platform speed (knots)                 | 0   |
| Longitude at start / end | 092°05.5'W 092°05.5'W           | True platform direction                     | X   |
| Visibility (km)          | >10km                           | Observation side                            | <del>Starboard</del> <del>Port</del> <del>Middle</del> ALL AROUND |
| Weather code             | 0                               | Height of eye (m)                           | 20m   |
| Glare conditions code    | 2                               | Outdoors or indoors                         | Out or <input checked="" type="radio"/> In                        |
| Platform Activity        | ANCHORED, DISCHARGING<br>CARGO  | Notes                                       | STATIONARY  |

| Date and Time of Sighting | Vessel Travel Direction and Speed | Weather / Sea State | Re-Sighting? (Y or N) | Sighting Waypoint or Lat/Long (Garmin GPS) | Species, Number of Individuals  | Distance to Animal (m or km) | Angle to Sighting | Behaviour/Travel Direction            | Age/Sex | Mitigation Required? | Photo Number (if any) |
|---------------------------|-----------------------------------|---------------------|-----------------------|--|---|------------------------------|-------------------|---------------------------------------|---------|----------------------|-----------------------|
| 01/07/17<br>2255          | ANCHORED<br>0 kts                 | 0                   |                       |  | 1 SEAL<br>(UNSPECIFIED,<br>TOO FAR & IN<br>WATER)                               | 300 m                        | 190° (T)          | IN WATER<br>→ DIVE                    | ?       |                      |                       |
| 01/07/17<br>2310          | 0 kts                             | 0                   |                       |  | 1 SEAL<br>(UNSPECIFIED,<br>TOO FAR, BRIEFLY APPEARED &<br>DISAPPEARED IN WATER. | 200 m                        | 070° (T)          | IN WATER,<br>CAME OUT &<br>DIVE FAST. | ?       |                      |                       |
|                           |                                   |                     |                       |  |   |                              |                   |                                       |         |                      |                       |
|                           |                                   |                     |                       |  |   |                              |                   |                                       |         |                      |                       |
|                           |                                   |                     |                       |  |   |                              |                   |                                       |         |                      |                       |
|                           |                                   |                     |                       |  |   |                              |                   |                                       |         |                      |                       |
| Notes:                    |                                   |                     |                       |  |   |                              |                   |                                       |         |                      |                       |



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



# 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 DESCAGNES             |
| CLAUDE A DESCAGNES (CARGO SHIP) |
| SANDRA LEBON                    |
| 02/07/2017                      |
| 2200                            |
| 62°46.7'N                       |
| 092°05.6'W                      |
| DISCHARGING CARGO AT ANCHOR     |
| (80° or other (specify: )       |
| 110°-290°(T)                    |
| > 10 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           |
| 2+3         |
| 1           |
| <1m         |
| 17kts       |
| 180°        |
| 1           |
| 0           |
| 20m         |
| Out or (In) |

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

## 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                        |
|-------------|---------|-----------------|-------------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|---------------------------------|
| UNKN        | 5       | W               | Y                 | D                       | 28     |        |                            |                  |                    |     |                                 |
| UNKN        | 2       | W               | Y                 | D                       | 28     |        |                            |                  |                    |     |                                 |
| UNKN        | 1       | F/W             | Y                 | D                       | 28     |        | ND                         |                  |                    |     |                                 |
| UNKN        | 2       | W               | Y                 | C                       | 28     |        |                            |                  |                    |     |                                 |
| Thom's Gull | 1       | F               | Y                 | B                       |        |        | ND                         |                  |                    |     |                                 |
| COEL        | 2       | W               | Y                 | D                       | 28     |        |                            |                  |                    | M+F | COUPLE                          |
| UNKN        | 5       | W               | N                 | D                       | 28     |        |                            |                  |                    |     | 1 SMALL, CLOSE GROUP            |
| UNKN        | 4       | W               | N                 | E                       | 28     |        |                            |                  |                    |     | STERN OF SHIP, CLOSE TO ISD     |
| TBMU        | 2       | W               | N                 | C                       | 28     |        |                            |                  |                    |     |                                 |
| TBMU        | 4       | W               | N                 | C                       | 28     |        |                            |                  |                    |     |                                 |
| UNKN        | 4       | W               | Y                 | D                       | 28     |        |                            |                  |                    |     |                                 |
| COEI        | 1       | F               | Y                 | B                       | 2      |        | ND                         |                  |                    |     |                                 |
| COEI        | 2       | ICE             | Y                 | B                       | 27     |        |                            |                  |                    | M+F | ON PIECE OF ICE, RESTING COUPLE |
|             |         |                 |                   |                         |        |        |                            |                  |                    |     |                                 |
|             |         |                 |                   |                         |        |        |                            |                  |                    |     |                                 |
|             |         |                 |                   |                         |        |        |                            |                  |                    |     |                                 |
|             |         |                 |                   |                         |        |        |                            |                  |                    |     |                                 |

<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)

| Observation Period Information: |                                |  |  |  |
|---------------------------------|--------------------------------|--|--|--|
| Company/agency                  | TRANSPORT DESCAGNES            |  | Sea state code                           | 1  |
| Platform name and type          | CLAUDE A. DESCAGNES            |  | Wave height (m)                          | <1m  |
| Observer (s)                    | SANDRA LEBON <sup>(Ship)</sup> |  | True wind speed (knots) OR Beaufort code | 12 kts   |
| Date (DD/MM/YYYY)               | 02/07/2017                     |  | True wind direction                      | 190°   |
| Time at start (UTC)             | 2230                           |  | Ice type code                            | 1  |
| Time at end (UTC)               | 2400                           |  | Ice concentration code                   | 0  |
| Latitude at start/end           | 62°46.7'N                      |  | True platform speed (knots)              | 0 (ANCHORED)                                   |
| Longitude at start/end          | 2092°05.6'W                    |  | True platform direction                  | N/A  |
| Visibility (km)                 | >10 km                         |  | Observation side                         | Starboard Port Middle                          |
| Weather code                    | 0                              |  | Height of eye (m)                        | 2m   |
| Glare conditions code           | 2+3                            |  | Outdoors or Indoors                      | Out or In                                      |
| Platform Activity               | DISCHARGING CARGO@ ANCHOR.     |  | Notes                                    | OTHER BOATS IN THE VISIBILITY (FISHING/SEALED) |

| 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) |
|---------------------------|-----------------------------------|---------------------|-----------------------|--|--------------------------------|------------------------------|-------------------|----------------------------|---------|----------------------|-----------------------|
| 02/09/2017                | NO SIGHTING                       |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |
| Notes:                    |                                   |                     |                       |  |                                |                              |                   |                            |         |                      |                       |

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



# Record sheet for a stationary platform survey

## Scan Information:

Company/agency  
Platform name and type  
Observer (s)  
Date (DD/MM/YYYY)  
Time at start (UTC)  
Latitude  
Longitude  
Platform activity  
Scan type  
Scan direction  
Visibility (km)

TRANSPORT NESGAGNES  
CLAUDE A DESGAGNES  
SANDRA LEBON  
04/07/2017  
2200  
62°46.6' N  
092°05.9' W  
ANCHORED, DISCHARGING CARGO  
(180° or other (specify: )  
010-190° (T)  
>10km

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  
<1m  
13kts  
115°  
0  
0  
20m  
Out or In

## Notes:

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

| *<br>Species  | *<br>Count | *<br>Ely or<br>Water? | *<br>In semi-<br>circle? | *<br>Distance <sup>1</sup> | Assoc. | Behav. | Flight<br>Direc. <sup>2</sup> | Age <sup>3</sup> | Plum. <sup>4</sup> | Sex | Comments            |
|---------------|------------|-----------------------|--------------------------|----------------------------|--------|--------|-------------------------------|------------------|--------------------|-----|---------------------|
| Thayer's Gull | 1          | F                     | Y                        | B                          |        |        | ND                            |                  |                    |     |                     |
| UNGU          | 1          | F                     | Y                        | D                          |        |        | ND                            |                  |                    |     |                     |
| UNKN          | 3          | W                     | Y                        | D                          |        |        |                               |                  |                    |     |                     |
| TBMU          | 9          | W                     | Y                        | C                          | 28     |        |                               |                  |                    |     | CLOSE TO AN ISLAND  |
| UNGU          | 1          | F                     | Y                        | D                          | 28     |        |                               |                  |                    |     | LANDED ON AN ISLAND |
| UNKN          | 4          | W                     | Y                        | D                          | 28     |        |                               |                  |                    |     | WHITE AND/OR GREY   |
| UNKN          | 1          | F                     | Y                        | D                          |        |        | NW                            |                  |                    |     | WHITE & BLACK.      |
| UNKN          | 4          | W                     | Y                        | D                          |        |        |                               |                  |                    |     | BROWN?              |
| TBMU          | 2          | W                     | Y                        | D                          | 28     |        |                               |                  |                    |     | NEAR ISLAND         |
| UNGU          | 1          | F                     | N                        | E                          | 28     |        |                               |                  |                    |     | OVER THE LAND       |
| UNKN          | 4          | W                     | Y                        | D                          |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |
|               |            |                       |                          |                            |        |        |                               |                  |                    |     |                     |

<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)

| Observation Period Information: |                                  |  |  |  |
|---------------------------------|----------------------------------|--|--|--|
| Company/agency                  | TRANSPORT DESGAGNES              |  | Sea state code                           | 2  |
| Platform name and type          | CLAUDE A DESGAGNES<br>CARGO SHIP |  | Wave height (m)                          | ~1m  |
| Observer (s)                    | SANDRA LEBON                     |  | True wind speed (knots) OR Beaufort code | 14 kts   |
| Date (DD/MM/YYYY)               | 04/07/2017                       |  | True wind direction                      | E  |
| Time at start ( UTC )           | 0230                             |  | Ice type code                            | 0  |
| Time at end (UTC )              | 2400                             |  | Ice concentration code                   | 0  |
| Latitude at start / end         | 62°46.6'N 62°46.6'N              |  | True platform speed (knots)              | 0 → ANCHORED   |
| Longitude at start / end        | 092°05.9'W 092°05.9'W            |  | True platform direction                  | FACING E (090°T)   |
| Visibility (km)                 | >10 km                           |  | Observation side                         | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code                    | 1                                |  | Height of eye (m)                        | 20m  |
| Glare conditions code           | 0                                |  | Outdoors or indoors                      | Out <input type="radio"/> or <input checked="" type="radio"/> In                                   |
| Platform Activity               | ANCHORED, DISCHARGING CARGO      |  | Notes                                    |  |



| Date and Time of Sighting | Vessel Travel Direction and Speed | Weather / Sea State | Re-Sighting? (Y or N) | Sighting Waypoint or Lat/Long(Garmin GPS) | Species, Number of Individuals | Distance to Animal (m or km) | Angle to Sighting | Behaviour/Travel Direction | Age/Sex | Mitigation Required? | Photo Number (if any) |
|---------------------------|-----------------------------------|---------------------|-----------------------|---|--------------------------------|------------------------------|-------------------|----------------------------|---------|----------------------|-----------------------|
| 04/07/17                  | NO SIGHTING                       |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
|                           |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |
| Notes:                    |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |

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



## C

**Observation Period Information:**

|                          |                              |  |                |
|--------------------------|------------------------------|--|----------------|
| Company/agency           | TRANSPORT DESGAGNES          | Sea state code                           | 2              |
| Platform name and type   | CLAUDE A DESGAGNES CARGOSHIP | Wave height (m)                          | < 1m           |
| Observer (s)             | SANDRA LEBON                 | True wind speed (knots) OR Beaufort code | 13 kts         |
| Date (DD/MMM/YYYY)       | 05/07/2017                   | True wind direction (deg)                | 045° (T)       |
| Time at start (UTC)      | 2130                         | Ice type code                            | N/A            |
| Time at end (UTC)        | 2200                         | Ice concentration code                   | 0              |
| Latitude at start / end  | 62°38.0'N / 62°36.0'N        | True platform speed (knots)              | 13.5 kts       |
| Longitude at start / end | 091°10.5'W / 090°54.4'W      | True platform direction (deg)            | 110° (T)       |
| Platform activity        | TRAVELING                    | Observation side                         | Starboard Port |
| Visibility (km)          | > 10 km                      | Height of eye (m)                        | 20m            |
| Weather code             | 1                            | 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

[illegible]

<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)

| Observation Period Information: |                         |  |  |                       |
|---------------------------------|-------------------------|--|--|-----------------------|
| Company/agency                  | TRANSPORT DESGAGNES     |  | Sea state code                           | 3                     |
| Platform name and type          | CLAUDE A DESGAGNES      |  | Wave height (m)                          | <1m                   |
| Observer (s)                    | SANDRA LEBON            |  | True wind speed (knots) OR Beaufort code | 11.6 kt               |
| Date (DD/MM/YYYY)               | 05/07/2017              |  | True wind direction                      | 030°                  |
| Time at start ( UTC )           | 2200                    |  | Ice type code                            | N/A                   |
| Time at end (UTC )              | 2330                    |  | Ice concentration code                   | 0                     |
| Latitude at start / end         | 62°36.0'N / 62°38.1'N   |  | True platform speed (knots)              | 13.5 kt               |
| Longitude at start / end        | 090°54.4'W / 090°12.9'W |  | True platform direction                  | 086°                  |
| Visibility (km)                 | >10 km                  |  | Observation side                         | Starboard Port Middle |
| Weather code                    | 1                       |  | Height of eye (m)                        | 20m                   |
| Glare conditions code           | 0                       |  | Outdoors or Indoors                      | Out or In             |
| Platform Activity               | TRAVELING               |  | Notes                                    |                       |

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

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



## 6

|                |
|----------------|
| 2              |
| <1m            |
| 7 kts          |
| 315°           |
| 3              |
| 0              |
| 14 kts         |
| 095°           |
| Starboard Port |
| 20 m           |
| Out or In      |
| Yes or No      |

Thick-Billed murre

[illegible]

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

| Observation Period Information: |                         |  |  |  |
|---------------------------------|-------------------------|--|--|--|
| Company/agency                  | TRANSPORT DESGAGNÉ      |  | Sea state code                           | 2  |
| Platform name and type          | Claude A Desgagné       |  | Wave height (m)                          | <1m  |
| Observer (s)                    | Kristian Brown          |  | True wind speed (knots) OR Beaufort code | 7 Kts  |
| Date (DD/MMM/YYYY)              | 7 July 2017             |  | True wind direction                      | 300°   |
| Time at start ( UTC )           | 2245                    |  | Ice type code                            | 2  |
| Time at end (UTC )              | <del>62.50 N</del> 2800 |  | Ice concentration code                   | 0  |
| Latitude at start / end         | 62°5 N 62°46 N          |  | True platform speed (knots)              | 14 Kts   |
| Longitude at start / end        | 78°11 W 77°20 W         |  | True platform direction                  | 109°   |
| Visibility (km)                 | >10 K                   |  | Observation side                         | Starboard <input checked="" type="radio"/> Port <input type="radio"/> Middle <input type="radio"/> |
| Weather code                    | 1                       |  | Height of eye (m)                        | 20m  |
| Glare conditions code           | 0                       |  | Outdoors or Indoors                      | Out <input type="radio"/> or <input checked="" type="radio"/> Indoors                              |
| Platform Activity               | Traveling               |  | Notes                                    |  |



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



| Observation Period Information: |                     |          |  |                       |
|---------------------------------|---------------------|----------|--|-----------------------|
| Company/agency                  | Transport Desgagnés |          | Sea state code                           | 2                     |
| Platform name and type          | Claude A Desgagnés  |          | Wave height (m)                          | >5m                   |
| Observer (s)                    | Kristian Brown      |          | True wind speed (knots) OR Beaufort code | 22.5                  |
| Date (DD/MM/YYYY)               | 8/7/17              |          | True wind direction                      | 125°                  |
| Time at start ( UTC )           | 2015                |          | Ice type code                            | 0                     |
| Time at end (UTC )              | 2145                |          | Ice concentration code                   | 0                     |
| Latitude at start / end         | 60°43.22            | 60°37.17 | True platform speed (knots)              | 9.6 KN                |
| Longitude at start / end        | 63°31.84            | 63°22.76 | True platform direction                  | 120.2°                |
| Visibility (km)                 | >5k                 |          | Observation side                         | Starboard Port Middle |
| Weather code                    | 3                   |          | Height of eye (m)                        | 20m                   |
| Glare conditions code           | 0                   |          | Outdoors or Indoors                      | Out or (In)           |
| Platform Activity               | Traveling           |          | Notes                                    |                       |

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

| Observation Period Information: |                      |  |  |                              |
|---------------------------------|----------------------|--|--|------------------------------|
| Company/agency                  | Transport Desgagnés  |  | Sea state code                           | 4-6                          |
| Platform name and type          | Claude A Desgagnés   |  | Wave height (m)                          | >2m                          |
| Observer (s)                    | Kristin Brown Cargo  |  | True wind speed (knots) OR Beaufort code | 8 KN                         |
| Date (DD/MMM/YYYY)              | 7/8/17               |  | True wind direction                      | 1600                         |
| Time at start ( UTC )           | 2000 1900            |  | Ice type code                            | 3                            |
| Time at end (UTC )              | <del>2130</del> 2030 |  | Ice concentration code                   | 0                            |
| Latitude at start / end         | 61°02.80 60°59.15    |  | True platform speed (knots)              | 13 KN                        |
| Longitude at start / end        | 68°01.56 67°40.50    |  | True platform direction                  | 110°                         |
| Visibility (km)                 | >10K.                |  | Observation side                         | <u>Starboard</u> Port Middle |
| Weather code                    | 0                    |  | Height of eye (m)                        | 20 m                         |
| Glare conditions code           | 0                    |  | Outdoors or Indoors                      | Out or <u>in</u>             |
| Platform Activity               | Traveling            |  | Notes                                    | Nothing                      |

| 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:                    |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |



## 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~~ *weather!*  
Visibility (km)

|                               |           |
|-------------------------------|-----------|
| Transport Designates          |           |
| Claudia A Designates Cargo    |           |
| Kristian Brown                |           |
| 9/8/17                        |           |
| start                         | end       |
| 1900                          | 1930      |
| 56° 54.99                     | 56° 53.75 |
| 58° 01.07                     | 57° 56.64 |
| Traveling                     |           |
| 180° or other (specify: 90° ) |           |
| Glass   ☺                     |           |
| > 1K                          |           |

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

3  
0  
light Air  
2m  
13 KN  
030.0  
0  
0  
20m  
Out or (In)  
No Picts

**Notes:**

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

[illegible]

<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)



| Observation Period Information: |                     |          |  |  |
|---------------------------------|---------------------|----------|--|--|
| Company/agency                  | Transport Rescues   |          | Sea state code                           | light Air  |
| Platform name and type          | Charles A Desgagnés |          | Wave height (m)                          | 22m  |
| Observer (s)                    | Kristian Brown      |          | True wind speed (knots) OR Beaufort code | 12 KN  |
| Date (DD/MMM/YYYY)              | 9/7/17              |          | True wind direction                      | 028.3°   |
| Time at start ( UTC )           | 1930                | 2100     | Ice type code                            | 0  |
| Time at end (UTC )              | <del>56°53.75</del> | 2100     | Ice concentration code                   | 0  |
| Latitude at start / end         | 56°53.75            | 56°49.44 | True platform speed (knots)              | 13.8 KN  |
| Longitude at start / end        | 58°01.07            | 57°49.47 | True platform direction                  | 144.6°   |
| Visibility (km)                 | >1K                 |          | Observation side                         | Starboard <input checked="" type="radio"/> Port <input type="radio"/> Bow <input type="radio"/> Saddle <input type="radio"/> |
| Weather code                    | 3                   |          | Height of eye (m)                        | 20m  |
| Glare conditions code           | 0                   |          | Outdoors or Indoors                      | Out <input checked="" type="radio"/> or <input type="radio"/>  |
| Platform Activity               | Traveling           |          | Notes                                    | Can't see  |

| 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:                    |                                   |                     |                       |   |                                |                              |                   |                            |         |                      |                       |

### 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

|                           |  |
|---------------------------|--|
| Desgagnés                 |  |
| Nordika Desgagnés - Cargo |  |
| Nick Brownstein           |  |
| 30/06/2018                |  |
| 0000                      |  |
| 0400                      |  |
| 63°04,1' N                |  |
| 08°02,1' W                |  |
| Travelling                |  |
| 10                        |  |
| 0                         |  |
| 7                         |  |

Sea state code

Wave height (m)

True wind speed (knots) OR  
Beaufort code

True wind direction (deg)

Ice type code

Ice concentration code

True platform speed (knots)

True platform direction (deg)

Observation side

Height of eye (m)

## Outdoors or Indoors

Snapshot used?

|             |      |         |
|-------------|------|---------|
|             |      | 1       |
|             |      | 0.3     |
|             |      | 7 knots |
|             |      | 255°    |
|             |      | 4       |
|             |      | 1       |
|             |      | 4.5     |
|             |      | 270     |
| (Starboard) | Port |         |
|             |      | 25m     |
| Out         | or   | (In)    |
| Yes         | or   | (No)    |

**Notes:**

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

[illegible]

<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 stationary platform survey

### Scan Information:

|                        |                           |  |             |
|------------------------|---------------------------|--|-------------|
| Company/agency         |                           | Weather code                             | 2           |
| Platform name and type |                           | Glare conditions code                    |             |
| Observer(s)            | Cadet Fund Hardy-M        | Sea state code                           | 1           |
| Date (DD/MM/YYYY)      | 18/07/2018                | Wave height (m)                          | < 1 ft      |
| Time at start (UTC)    | 2130                      | True wind speed (knots) OR Beaufort code | 3           |
| Latitude               | 61° 25.12' N              | True wind direction (deg)                | North       |
| Longitude              | 067° 13.2' W              | Ice type code                            | 3           |
| Platform activity      | SEA PASSAGE               | Ice concentration code                   | 1           |
| Scan type              | 180° or other (specify: ) | Height of eye (m)                        |             |
| Scan direction         |                           | Outdoors or Indoors                      | Out or (In) |
| Visibility (km)        | ~ 6                       |  |             |

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 |
|-----------|---------|-----------------|-------------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| WOO       | 10      | Water           | No                | C                       |        |        | 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(immature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oilt)

mening

**Company/agency**

Observer (s)

Date (DD/MMM/YYYY)

Time at start (UTC)

## Latitude

Longitude

### Platform activity

Scan type

### Scan direction

Visibility (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

\_\_\_\_\_

C

2

1

125 °

C

C

Out or In

**Notes:**

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

[illegible]

<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)

meaning

**Company/agency**

NORDIKA DESGAGNES  
Cadet Farid Hedj-M.  
17/07/2018  
2037  
63°08,55'N  
075°38,0'W  
Sea passage  
180° or other (specify: )  
8

1  
0  
2  
2  
080°  
Out or In

Observation side: starboard

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

[illegible]

<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)

# SEABIRD SURVEY PROTOCOL – MOVING VESSEL

➔ Fill out one sheet per 30 min observation period

AGNICO EAGLE

## 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★

|            |
|------------|
| Demagias   |
| Nordica    |
| C/O        |
| 22/10/2012 |
| 08:30      |
| 60°26.5'N  |
| 064°14.5'W |
| underway   |
| 15'        |
| cloudy     |
| 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              |
| 2 ft           |
| W 10 kts       |
| W              |
| —              |
| —              |
| 13 kts         |
| 113            |
| Starboard Port |
| 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 |
|-----------|---------|-----------------|-----------------|-------------------------|--------|--------|--------------------------------|----------------------|------------------------|-----|----------|
| Duck      | 10      | fly             |                 | 200m                    |        |        | S                              | Adlt                 |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |
|           |         |                 |                 |                         |        |        |                                |                      |                        |     |          |

★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  
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★

|                   |           |
|-------------------|-----------|
| Designés          |           |
| Nacelisa Designés |           |
| Nick Brownlain    |           |
| 20/10/2018        |           |
| 1500              |           |
| 1530              |           |
| 63°07.6'N         | 63°08.0'N |
| 83°04.5'W         | 82°37.3'W |
| Underway          |           |
| 20                |           |
| 0                 |           |
| 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 site

Height of eye (m)

Outdoors or indoors

Snapshot used?

|                |
|----------------|
| 2              |
| 1.0            |
| 13 knots       |
| (N) 000°       |
| 0              |
| 0              |
| 13 31 knots    |
| 090°           |
| Shoreland Port |
| 30m            |
| 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> | Phum. <sup>4</sup> | Sex | Comments |
|---------|-------|---------------|--------------|-----------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| COLL    | 1     | FLY           | No           | 15                    |        |        | S                          |                  |                    |     |          |
| HARD    | 10    | FLY           | No           | C                     |        |        | SW                         |                  |                    |     |          |
| UNKN    | 5     | WATER         | No           | A                     |        | 93     |                            |                  |                    |     |          |
| UNKN    | 3     | FLY           | Yes          | D                     |        |        | E                          |                  |                    |     |          |
|         |       |               |              |                       |        |        |                            |                  |                    |     |          |
|         |       |               |              |                       |        |        |                            |                  |                    |     |          |
|         |       |               |              |                       |        |        |                            |                  |                    |     |          |
|         |       |               |              |                       |        |        |                            |                  |                    |     |          |

★Refer to "Codes" datasheets



# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |             |   |                                 |
|---------------------------------|------------------|-------------|---|---------------------------------|
| Company/agency                  | DESGAGNÉS        |             | Sea state code ★                              | 4                               |
| Platform name and type          | ACADIA DESGAGNES |             | Wave height (m)                               | 2 m                             |
| Observer (s)                    | STEPHEN BADCOCK  |             | True wind speed (knots) OR ★<br>Beaufort code | 21 kts                          |
| Date (DD/MMM/YYYY)              | 12/09/2018       |             | True wind direction                           | SE                              |
| Time at start (UTC)             | 1200             |             | Ice type code ★                               | N/A                             |
| Time at end (UTC)               | 1230             |             | Ice concentration code ★                      | 0                               |
| Latitude at start / end         | 62° 26.0'N       | 62° 28.5'N  | True platform speed (knots)                   | 10.7 kts                        |
| Longitude at start / end        | 072° 57.1'W      | 073° 07.1'W | True platform direction                       | 299°                            |
| Visibility (km)                 | 11/2 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

| Observation Period Information: |                  |              |   |   |
|---------------------------------|------------------|--------------|---|---|
| Company/agency                  | DESGAGNÉS        |              | Sea state code ★                              | 2   |
| Platform name and type          | ACADIA DESGAGNES |              | Wave height (m)                               | 4.1 m   |
| Observer (s)                    | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 8 KTS   |
| Date (DD/MMM/YYYY)              | 11/09/2018       |              | True wind direction                           | NW  |
| Time at start (UTC)             | 2230             |              | Ice type code ★                               | N/A   |
| Time at end (UTC)               | 2300             |              | Ice concentration code ★                      | 0   |
| Latitude at start / end         | 61° 28.6' N      | 61° 31.2' N  | True platform speed (knots)                   | 12.8 KTS  |
| Longitude at start / end        | 068° 47.0' W     | 068° 59.1' W | True platform direction                       | 297°  |
| Visibility (km)                 | 16 km            |              | Observation side                              | Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/> |
| Weather code ★                  | 0                |              | Height of eye (m)                             | 22 m  |
| Glare conditions code ★         | 3                |              | Outdoors or Indoors                           | Out <input type="checkbox"/> or <input checked="" type="checkbox"/> In                                      |
| Platform Activity               | TRAVELLING       |              | Notes   | NO OBSERVATIONS   |

★ Refer to "Codes" datasheets

# MARINE MAMMAL PROGRAM

AGNICO EAGLE

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |            |   |  |
|---------------------------------|------------------|------------|---|--|
| Company/agency                  | DESGAGNÈS        |            | Sea state code ★                              | 2  |
| Platform name and type          | ACADIA DESGAGNÈS |            | Wave height (m)                               | 2 m  |
| Observer (s)                    | STEPHEN BADCOCK  |            | True wind speed (knots) OR ★<br>Beaufort code | 10 Kts   |
| Date (DD/MMM/YYYY)              | 11/09/2018       |            | True wind direction                           | 235°   |
| Time at start (UTC)             | 1200             |            | Ice type code ★                               | <del>NA</del> N/A  |
| Time at end (UTC)               | 1230             |            | Ice concentration code ★                      | 0  |
| Latitude at start / end         | 60°35.0'N        | 60°37.7'N  | True platform speed (knots)                   | 12.2 Kts   |
| Longitude at start / end        | 065°00.8'W       | 065°12.0'W | True platform direction                       | 297°   |
| Visibility (km)                 | 16 km            |            | Observation side                              | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code ★                  | 1                |            | Height of eye (m)                             | 22 m   |
| Glare conditions code ★         | 0                |            | Outdoors or Indoors                           | Out    or <input checked="" type="radio"/> In  |
| 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                  | DESGAGNÉS        |             | Sea state code ★                              | 1   |
| Platform name and type          | ACADIA DESGAGNES |             | Wave height (m)                               | < 1 m   |
| Observer (s)                    | STEPHEN BADCOCK  |             | True wind speed (knots) OR ★<br>Beaufort code | 7 Kts   |
| Date (DD/MM/YY)                 | 11/09/2018       |             | True wind direction                           | N   |
| Time at start (UTC)             | 1700             |             | Ice type code ★                               | N/A   |
| Time at end (UTC)               | 1730             |             | Ice concentration code ★                      | 0   |
| Latitude at start / end         | 61° 00.8'N       | 61° 03.2'N  | True platform speed (knots)                   | 11.8 Kts  |
| Longitude at start / end        | 066° 47.3'W      | 066° 58.3'W | True platform direction                       | 295°  |
| Visibility (km)                 | 16 km            |             | Observation side                              | Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/> |
| Weather code ★                  | 1                |             | Height of eye (m)                             | 22 m  |
| Glare conditions code ★         | 0                |             | Outdoors or Indoors                           | Out <input checked="" type="checkbox"/> or In <input type="checkbox"/>                                      |
| 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                  | DESGAGNÉS        |              | Sea state code ★                              | 1                               |
| Platform name and type          | ACADIA DESGAGNES |              | Wave height (m)                               | 1m                              |
| Observer (s)                    | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 8 kts                           |
| Date (DD/MMM/YYYY)              | 12/09/2018       |              | True wind direction                           | SE                              |
| Time at start ( UTC )           | 1730             |              | Ice type code★                                | N/A                             |
| Time at end (UTC )              | 1800             |              | Ice concentration code ★                      | 0                               |
| Latitude at start / end         | 62° 33.6' N      | 62° 34.5' N  | True platform speed (knots)                   | 14.7 kts                        |
| Longitude at start / end        | 075° 24.3' W     | 075° 40.5' W | True platform direction                       | 279° T                          |
| Visibility (km)                 | 16 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



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |              |   |                       |
|---------------------------------|------------------|--------------|---|-----------------------|
| Company/agency                  | DESGAGNÉS        |              | Sea state code ★                              | 4                     |
| Platform name and type          | ACADIA DESGAGNES |              | Wave height (m)                               | 2m                    |
| Observer (s)                    | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 27 kts                |
| Date (DD/MMM/YYYY)              | 12/09/2018       |              | True wind direction                           | NW                    |
| Time at start ( UTC )           | 2230             |              | Ice type code ★                               | N/A                   |
| Time at end (UTC )              | 2300             |              | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62° 39.1' N      | 62° 39.3' N  | True platform speed (knots)                   | 8.8 Kts               |
| Longitude at start / end        | 077° 29.5' W     | 077° 39.8' W | True platform direction                       | 276° T                |
| Visibility (km)                 | 16 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

## Record sheet for a moving platform survey

### Observation Period Information:

|                          |                             |  |   |
|--------------------------|-----------------------------|--|---|
| Company/agency           | AGNICO EAGLE MELIADINE      | Sea state code                           | 2   |
| Platform name and type   | ACADIA DESGAGNES            | Wave height (m)                          | 1m  |
| Observer (s)             | STEPHEN BADCOCK             | True wind speed (knots) OR Beaufort code | 7 KTS   |
| Date (DD/MMM/YYYY)       | 21/09/2018                  | True wind direction (deg)                | NW  |
| Time at start (UTC)      | 2200                        | Ice type code                            | N/A   |
| Time at end (UTC)        | 2230                        | Ice concentration code                   | 0   |
| Latitude at start / end  | 60° 53.0' N / 60° 50.4' N   | True platform speed (knots)              | 14.2 KTS                                      |
| Longitude at start / end | 066° 17.3' W / 066° 06.3' N | True platform direction (deg)            | 115° T  |
| Platform activity        | TRAVELLING                  | Observation side                         | Starboard Port                                |
| Visibility (km)          | 16 km                       | Height of eye (m)                        | 22m   |
| Weather code             | 0                           | Outdoors or Indoors                      | Out or In <input checked="" type="checkbox"/> |
| Glare conditions code    | 0                           | Snapshot used?                           | Yes 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 |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| UNGU      | 3       | FLY             | Y              | A                       | 18     | 39     | E                          | I                | NB                 | M   |          |
| LTDU      | 3       | WATER           | Y              | A                       | N/A    | 60     | ND                         | A                | NB                 | M   |          |
| GLGU      | 2       | FLY             | Y              | A                       | N/A    | 39     | N                          | A                | NB                 | M   |          |
| NOFU      | 4       | FLY             | Y              | A                       | N/A    | 39     | S                          | A                | 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(oult)

|                                |                        |              |  |                       |
|--------------------------------|------------------------|--------------|--|-----------------------|
| Observation Period: 21/09/2018 |                        |              |  |                       |
| Company/agency                 | AGNICO EAGLE MELIADINE |              | Sea state code                           | 2                     |
| Platform name and type         | ACADIA DESGAGNES       |              | Wave height (m)                          | 2m                    |
| Observer (s)                   | STEPHEN BADCOCK        |              | True wind speed (knots) OR Beaufort code | 14 kts                |
| Date (DD/MM/YYYY)              | 21/09/2018             |              | True wind direction                      | NW                    |
| Time at start (UTC)            | 1730                   |              | Ice type code                            | N/A                   |
| Time at end (UTC)              | 1800                   |              | Ice concentration code                   | 0                     |
| Latitude at start / end        | 61° 18.5 N             | 61° 15.7' N  | True platform speed (knots)              | 12.8 kts              |
| Longitude at start / end       | 068° 04.6 W            | 067° 52.5' W | True platform direction                  | 116° T                |
| Visibility (km)                | 16 km                  |              | Observation side                         | Starboard Port Middle |
| Weather code                   | 0                      |              | Height of eye (m)                        | 22m                   |
| Glare conditions code          | 2                      |              | Outdoors or Indoors                      | Out or B              |
| Platform Activity              | TRAVELLING             |              | Notes                                    | NO OBSERVATION        |

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~



| Observation Period Information: |                       |             |  |                       |
|---------------------------------|-----------------------|-------------|--|-----------------------|
| Company/agency                  | AGNICO EAGLE MELIADNE |             | Sea state code                           | 4                     |
| Platform name and type          | ACADIA DESGAGNES      |             | Wave height (m)                          | 1m                    |
| Observer (s)                    | STEPHEN BADCOCK       |             | True wind speed (knots) OR Beaufort code | 12 KTS                |
| Date (DD/MM/YYYY)               | 19/09/2018            |             | True wind direction                      | W                     |
| Time at start (UTC)             | 1730                  |             | Ice type code                            | N/A                   |
| Time at end (UTC)               | 1800                  |             | Ice concentration code                   | 0                     |
| Latitude at start / end         | 62° 26.2'N            | 62° 25.2'N  | True platform speed (knots)              | 13.1 KTS              |
| Longitude at start / end        | 089° 02.6'W           | 088° 48.8'W | True platform direction                  | 098° T                |
| Visibility (km)                 | 12 Km                 |             | Observation side                         | Starboard Port Middle |
| Weather code                    | 1                     |             | Height of eye (m)                        | 22m                   |
| Glare conditions code           | 2                     |             | Outdoors or Indoors                      | Out or In             |
| Platform Activity               | TRAVELLING            |             | Notes                                    | NO OBSERVATIONS       |

~~no observations~~  
~~one short period period~~

| Observation Period Information |                         |  |  |  |
|--------------------------------|-------------------------|--|--|--|
| Company/agency                 | AGNICO EAGLE MELIADINE  |  | Sea state code                           | 1  |
| Platform name and type         | ACADIA DESGAGNES        |  | Wave height (m)                          | 1m   |
| Observer (s)                   | STEPHEN BADCOCK         |  | True wind speed (knots) OR Beaufort code | 6 KTS  |
| Date (DD/MMM/YYYY)             | 21/09/2018              |  | True wind direction                      | NW   |
| Time at start (UTC)            | 2230                    |  | Ice type code                            | N/A  |
| Time at end (UTC)              | 2300                    |  | Ice concentration code                   | 0  |
| Latitude at start / end        | 60° 50.3'N 60° 47.0'N   |  | True platform speed (knots)              | 13.7 KTS   |
| Longitude at start / end       | 066° 06.2'W 065° 51.9'W |  | True platform direction                  | 115° T   |
| Visibility (km)                | 16 km                   |  | Observation side                         | <input checked="" type="radio"/> Starboard <input type="radio"/> Port <input type="radio"/> Middle |
| Weather code                   | 0                       |  | Height of eye (m)                        | 22m  |
| Glare conditions code          | 0                       |  | Outdoors or Indoors                      | Out or <input checked="" type="radio"/>  |
| Platform Activity              | TRAVELLING              |  | Notes                                    | NO OBSERVATIONS  |

**Observation Period Information:**

Glare conditions code

16 km

Snapshot used?

Yes or ~~No~~

**Notes:**

[illegible]

<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           | AGNICO EAGLE MELIADINE |             | Sea state code                           | 3              |
| Platform name and type   | ACADIA DESGAGNES       |             | Wave height (m)                          | 2m             |
| Observer (s)             | STEPHEN BADCOCK        |             | True wind speed (knots) OR Beaufort code | 20K+5          |
| Date (DD/MM/YYYY)        | 21/09/2018             |             | True wind direction (deg)                | W              |
| Time at start (UTC)      | 1230                   |             | Ice type code                            | N/A            |
| Time at end (UTC)        | 1300                   |             | Ice concentration code                   | 0              |
| Latitude at start / end  | 61° 46.6'N             | 61° 44.0'N  | True platform speed (knots)              | 12.7K+5        |
| Longitude at start / end | 070° 05.8'W            | 069° 54.9'W | True platform direction (deg)            | 115° T         |
| Platform activity        | TRAVELLING             |             | Observation side                         | Starboard Port |
| Visibility (km)          | 16 km                  |             | Height of eye (m)                        | 22m            |
| Weather code             | 1                      |             | Outdoors or indoors                      | Out or In      |
| Glare conditions code    | 0                      |             | Snapshot used?                           | Yes or No      |

**Notes:**

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

[illegible]

<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)

|                          |                         |  |   |
|--------------------------|-------------------------|--|---|
| Company/agency           | AGNICO EAGLE- MELIADNE  | Sea state code                           | 3                                       |
| Platform name and type   | ACADIA DESGAGNES        | Wave height (m)                          | 1 m                                     |
| Observer (s)             | STEPHEN BADCOCK         | True wind speed (knots) OR Beaufort code | 18 KTS                                  |
| Date (DD/MM/YYYY)        | 21/09/2018              | True wind direction                      | W                                       |
| Time at start (UTC)      | 1200                    | Ice type code                            | N/A                                     |
| Time at end (UTC)        | 1230                    | Ice concentration code                   | 0                                       |
| Latitude at start / end  | 61° 49.3'N 61° 46.7'N   | True platform speed (knots)              | 12.5 KTS                                |
| Longitude at start / end | 070° 17.4'W 070° 06.0'W | True platform direction                  | 115                                     |
| Visibility (km)          | 16 km                   | Observation side                         | Standard 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                                    | NO OBSERVATIONS                         |

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

|                          |                        |             |  |                       |
|--------------------------|------------------------|-------------|--|-----------------------|
| Company/agency           | AGNICO EAGLE MELIADINE |             | Sea state code                           | 4                     |
| Platform name and type   | ACADIA DESGAGNES       |             | Wave height (m)                          | 2m                    |
| Observer (s)             | STEPHEN BADCOCK        |             | True wind speed (knots) OR Beaufort code | 21 KTS                |
| Date (DD/MM/YYYY)        | 20/09/2018             |             | True wind direction                      | NW                    |
| Time at start (UTC)      | 2230                   |             | Ice type code                            | N/A                   |
| Time at end (UTC)        | 2300                   |             | Ice concentration code                   | 0                     |
| Latitude at start / end  | 62° 36.0'N             | 62° 35.3'N  | True platform speed (knots)              | 12.5 KTS              |
| Longitude at start / end | 076° 14.8'W            | 076° 00.5'W | True platform direction                  | 098° T                |
| Visibility (km)          | 16 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        | TRAVELLING             |             | Notes                                    | NO OBSERVATIONS       |

~~redacted~~

~~redacted~~

### 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**

AGNICO EAGLE - MELIADINE  
ACADIA DESGAGNES  
STEPHEN BADCOCK  
20/09/2018  
2200  
2230  
62° 36.6' N      62° 36.0' N  
076° 27.0' W      076° 15.0' W  
TRAVELLING  
16 km  
1  
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?**

|                     |
|---------------------|
| 4                   |
| 2m                  |
| 18kts               |
| <del>18kts</del> NW |
| N/A                 |
| 0                   |
| 13.6 kts            |
| 095° T              |
| Starboard Port      |
| 22m                 |
| Out or in           |
| Yes or No           |

**Notes:**

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

[illegible]

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)



| Observation Period Information: |                        |             |  |   |
|---------------------------------|------------------------|-------------|--|---|
| Company/agency                  | AGNICO EAGLE MELIADINE |             | Sea state code                           | 3                                       |
| Platform name and type          | ACADIA DESGAGNES       |             | Wave height (m)                          | 2m                                      |
| Observer (s)                    | STEPHEN BADCOCK        |             | True wind speed (knots) OR Beaufort code | 15 kts                                  |
| Date (DD/MM/YYYY)               | 20/09/2018             |             | True wind direction                      | NW                                      |
| Time at start (UTC)             | 1730                   |             | Ice type code                            | N/A                                     |
| Time at end (UTC)               | 1800                   |             | Ice concentration code                   | 0                                       |
| Latitude at start / end         | 62° 40.0'N             | 62° 40.4'N  | True platform speed (knots)              | 12.5 kts                                |
| Longitude at start / end        | 078° 40.0'W            | 078° 26.5'W | True platform direction                  | 087° T                                  |
| Visibility (km)                 | 16 km                  |             | Observation side                         | Starboard Port Middle                   |
| Weather code                    | 1                      |             | Height of eye (m)                        | 22m                                     |
| Glare conditions code           | 0                      |             | Outdoors or Indoors                      | Out or <input checked="" type="radio"/> |
| Platform Activity               | TRAVELLING             |             | Notes                                    | NO OBSERVATIONS                         |

~~When the vessel is in the water, the observer should observe the water surface for ice, and the sky for clouds, and the horizon for the sun or moon.~~



| Observation Period Information: |                        |            |  |  |
|---------------------------------|------------------------|------------|--|--|
| Company/agency                  | AGNICO EAGLE MELIADINE |            | Sea state code                           | 1  |
| Platform name and type          | ACADIA DESGAGNES       |            | Wave height (m)                          | 1 m  |
| Observer (s)                    | STEPHEN BADCOCK        |            | True wind speed (knots) OR Beaufort code | 4 KTS                                      |
| Date (DD/MMM/YYYY)              | 20/09/2018             |            | True wind direction                      | NW   |
| Time at start (UTC)             | 1200                   |            | Ice type code                            | N/A  |
| Time at end (UTC)               | 1230                   |            | Ice concentration code                   | 0  |
| Latitude at start / end         | 62°30.2'N              | 62°33.8'N  | True platform speed (knots)              | 12.6 KTS                                   |
| Longitude at start / end        | 081°02.9'W             | 080°59.1'W | True platform direction                  | 048°T                                      |
| Visibility (km)                 | 16 km                  |            | Observation side                         | Starboard Port Middle                      |
| Weather code                    | 1                      |            | Height of eye (m)                        | 22m  |
| Glare conditions code           | 0                      |            | Outdoors or Indoors                      | Out or <input checked="" type="checkbox"/> |
| Platform Activity               | TRAVELLING             |            | Notes                                    | NO OBSERVATIONS                            |

~~AGNICO EAGLE MELIADINE~~  
~~One stop for the wind~~

Changed course to 078°T during observation

# Record sheet for a moving platform survey

## Observation Period Information:

|                          |                           |  |                |
|--------------------------|---------------------------|--|----------------|
| Company/agency           | AGNICO EAGLE MELIADINE    | Sea state code                           | 1              |
| Platform name and type   | ACADIA DESGAGNES          | Wave height (m)                          | 1m             |
| Observer (s)             | STEPHEN BADCOCK           | True wind speed (knots) OR Beaufort code | 6 kts          |
| Date (DD/MM/YYYY)        | 20/09/2018                | True wind direction (deg)                | NW             |
| Time at start (UTC)      | 1230                      | Ice type code                            | N/A            |
| Time at end (UTC)        | 1300                      | Ice concentration code                   | 0              |
| Latitude at start / end  | 62° 33.8' N 62° 34.6' N   | True platform speed (knots)              | 12.8 kts       |
| Longitude at start / end | 080° 52.7' W 080° 40.1' W | True platform direction (deg)            | 078° T         |
| Platform activity        | TRAVELLING                | Observation side                         | Starboard Port |
| Visibility (km)          | 16 km                     | Height of eye (m)                        | 22m            |
| Weather code             | 1                         | 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   |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|------------|
| POJA      | 1       | FLY             | Y              | A                       | N/A    | 49     | S                          | A                | NB                 | M   | MEDIUM SL  |
| UNGU      | 1       | FLY             | Y              | B                       | N/A    | 39     | W                          | A                | NB                 | M   | BROWN COL. |
| WISP      | 3       | FLY             | Y              | A                       | N/A    | 49     | S                          | A                | 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(uvenile), I(mmature), or A(dult); <sup>4</sup> B(reeding), NB(non-breeding), M(oult)

**Observation Period Information:**

Glare conditions code

2

Snapshot used?

Yes or ~~No~~

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

| Observation Period Information: |                        |             |  |   |
|---------------------------------|------------------------|-------------|--|---|
| Company/agency                  | AGNICO EAGLE MELIADINE |             | Sea state code                           | 2                                       |
| Platform name and type          | ACADIA DESGAGNES       |             | Wave height (m)                          | 1m                                      |
| Observer (s)                    | STEPHEN BADCOCK        |             | True wind speed (knots) OR Beaufort code | W                                       |
| Date (DD/MM/YYYY)               | 19/09/2018             |             | True wind direction                      | 8 KTS                                   |
| Time at start (UTC)             | 2230                   |             | Ice type code                            | N/A                                     |
| Time at end (UTC)               | 2300                   |             | Ice concentration code                   | 0                                       |
| Latitude at start / end         | 62° 14.8'N             | 62° 13.7'N  | True platform speed (knots)              | 13.4 KTS                                |
| Longitude at start / end        | 086° 42.0'N            | 086° 28.3'W | True platform direction                  | 100° T                                  |
| Visibility (km)                 | 16 Km                  |             | Observation side                         | Starboard Port Middle                   |
| Weather code                    | 0                      |             | Height of eye (m)                        | 22m                                     |
| Glare conditions code           | 0                      |             | Outdoors or Indoors                      | Out or <input checked="" type="radio"/> |
| Platform Activity               | TRAVELLING             |             | Notes                                    | NO OBSERVATIONS                         |

~~Information removed~~

~~One of the following was observed~~

# Record sheet for a moving platform survey

## Observation Period Information:

|                          |                       |              |  |                      |
|--------------------------|-----------------------|--------------|--|----------------------|
| Company/agency           | AGNICO EAGLE MELADINE |              | Sea state code                           | 1                    |
| Platform name and type   | ACADIA DESGAGNES      |              | Wave height (m)                          | 1m                   |
| Observer (s)             | STEPHEN BADCOCK       |              | True wind speed (knots) OR Beaufort code | 7kts                 |
| Date (DD/MM/YY)          | 19/09/2018            |              | True wind direction (deg)                | W                    |
| Time at start (UTC)      | 2200                  |              | Ice type code                            | N/A                  |
| Time at end (UTC)        | 2230                  |              | Ice concentration code                   | 0                    |
| Latitude at start / end  | 62° 15.9' N           | 62° 14.8' N  | True platform speed (knots)              | 13.5 kts             |
| Longitude at start / end | 086° 55.4' W          | 086° 42.7' W | True platform direction (deg)            | 100° T               |
| Platform activity        | TRAVELLING            |              | Observation side                         | Starboard Port       |
| Visibility (km)          | 16 km                 |              | Height of eye (m)                        | 22m                  |
| Weather code             | 0                     |              | Outdoors or Indoors                      | Out or <del>In</del> |
| Glare conditions code    | 0                     |              | Snapshot used?                           | Yes or <del>No</del> |

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 |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| DOVE      | 3       | FLY             | Y              | B                       | N/A    | 39     | S                          | A                | NB                 | M   |          |
| GLGU      | 8       | FLY             | Y              | A                       | N/A    | 49     | S                          | A                | NB                 | M   |          |
| GLGU      | 2       | FLY             | Y              | A                       | N/A    | 49     | S                          | I                | NB                 | M   |          |
| NOFU      | 3       | FLY             | Y              | B                       | N/A    | 49     | S                          | A                | NB                 | M   |          |
| IVGU      | 2       | FLY             | Y              | A                       | N/A    | 49     | S                          | A                | NB                 | M   |          |
| UNGU      | 1       | WATER           | Y              | A                       | N/A    | 60     | —                          | A                | 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(oult)



AGNICO EAGLE

## MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |               |   |                       |
|---------------------------------|------------------|---------------|---|-----------------------|
| Company/agency                  | DESGAGNÈS        |               | Sea state code ★                              | 3                     |
| Platform name and type          | ACADIA DESGAGNES |               | Wave height (m)                               | 2m                    |
| Observer (s)                    | STEPHEN BADCOCK  |               | True wind speed (knots) OR ★<br>Beaufort code | 15 KTS                |
| Date (DD/MMM/YYYY)              | 14/09/2018       |               | True wind direction                           | N                     |
| Time at start (UTC)             | 1230             |               | Ice type code ★                               | N/A                   |
| Time at end (UTC)               | 1300             |               | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62° 41.0' N      | 62° 40.103' N | True platform speed (knots)                   | 12.0 KTS              |
| Longitude at start / end        | 091° 31.0' W     | 091° 44.3' W  | True platform direction                       | 290° T                |
| Visibility (km)                 | 8 km             |               | Observation side                              | Starboard Port Middle |
| Weather code ★                  | 6                |               | Height of eye (m)                             | 22m                   |
| Glare conditions code ★         | 1                |               | Outdoors or Indoors                           | Out or in             |
| Platform Activity               | TRAVELLING       |               | Notes   | NO OBSERVATIONS       |

★ Refer to "Codes" datasheets



**Observation Period Information:**

Glare conditions code

3

Snapshot used?

Yes or No

**Notes:**

[illegible]

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



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➔ Fill out one sheet per observation period

| Observation Period Information: |                  |              |   |                       |
|---------------------------------|------------------|--------------|---|-----------------------|
| Company/agency                  | DESGAGNÉS        |              | Sea state code ★                              | 2                     |
| Platform name and type          | ACADIA DESGAGNES |              | Wave height (m)                               | 1 m                   |
| Observer (s)                    | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 13 Kts                |
| Date (DD/MMM/YYYY)              | 19/09/2018       |              | True wind direction                           | W                     |
| Time at start ( UTC )           | 1200             |              | Ice type code ★                               | N/A                   |
| Time at end (UTC )              | 1230             |              | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62° 40.7' N      | 62° 39.7' N  | True platform speed (knots)                   | 13.1 Kts              |
| Longitude at start / end        | 091° 33.7' W     | 091° 22.5' W | True platform direction                       | 076° T                |
| Visibility (km)                 | 16 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

**Observation Period Information:**

Glare conditions code

DES GAGNES  
ACADIA DES GAGNES  
STEPHEN BADCOCK  
14/09/2018  
1200  
1230  
62° 39.3' N | 62° 41.0' N  
091° 18.9' W | 091° 31.0' W  
TRAVELLING  
7 Km  
6  
1

Snapshot used?

|                      |
|----------------------|
| 3                    |
| 2 m                  |
| 13 kts               |
| NE                   |
| N/A                  |
| 0                    |
| 11.8 kts             |
| 290° T               |
| Starboard Port       |
| 22 m                 |
| Out or <del>in</del> |
| Yes or <del>No</del> |

**Notes:**

[illegible]

<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

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |              |   |                       |
|---------------------------------|------------------|--------------|---|-----------------------|
| Company/agency                  | DESGAGNÉS        |              | Sea state code ★                              | 2                     |
| Platform name and type          | ACADIA DESGAGNES |              | Wave height (m)                               | 2m                    |
| Observer (s)                    | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 16 KTS                |
| Date (DD/MMM/YYYY)              | 13/09/2018       |              | True wind direction                           | S                     |
| Time at start (UTC)             | 2230             |              | Ice type code ★                               | N/A                   |
| Time at end (UTC)               | 2300             |              | Ice concentration code ★                      | 0                     |
| Latitude at start / end         | 62° 11.2' N      | 62° 12.4' N  | True platform speed (knots)                   | 12.6 KTS              |
| Longitude at start / end        | 085° 59.1' W     | 085° 12.5' W | True platform direction                       | 279° T                |
| Visibility (km)                 | 16 Km            |              | Observation side                              | Starboard Port Middle |
| Weather code ★                  | 1                |              | Height of eye (m)                             | 22 m                  |
| Glare conditions code ★         | 0                |              | Outdoors or Indoors                           | Out or Ⓜ              |
| Platform Activity               | TRAVELLING       |              | Notes   | NO OBSERVATIONS       |

★ Refer to "Codes" datasheets

**Observation Period Information:**

Glare conditions code

1

C

Snapshot used?

Yes or ~~No~~

**Notes:**

[illegible]

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



AGNICO EAGLE

# MARINE MAMMAL PROGRAM

➤ Fill out one sheet per observation period

| Observation Period Information: |                  |             |   |   |
|---------------------------------|------------------|-------------|---|---|
| Company/agency                  | DESGAGNÈS        |             | Sea state code ★                              | 3   |
| Platform name and type          | ACADIA DESGAGNÈS |             | Wave height (m)                               | 2m  |
| Observer (s)                    | STEPHEN BADCOCK  |             | True wind speed (knots) OR ★<br>Beaufort code | 16 KTS  |
| Date (DD/MMM/YYYY)              | 13/09/2018       |             | True wind direction                           | SW  |
| Time at start (UTC)             | 1730             |             | Ice type code ★                               | N/A   |
| Time at end (UTC)               | 1800             |             | Ice concentration code ★                      | 0   |
| Latitude at start / end         | 62° 00.4'N       | 62° 01.6'N  | True platform speed (knots)                   | 11.8 KTS  |
| Longitude at start / end        | 083° 48.5'W      | 084° 01.5'W | True platform direction                       | 279° T  |
| Visibility (km)                 | 16 km            |             | Observation side                              | Starboard <input checked="" type="checkbox"/> Port <input type="checkbox"/> Middle <input type="checkbox"/> |
| Weather code ★                  | 1                |             | Height of eye (m)                             | 22m   |
| Glare conditions code ★         | 1                |             | Outdoors or Indoors                           | Out <input type="checkbox"/> or <input checked="" type="checkbox"/> In                                      |
| 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           | DESGAGNÉS        |              | Sea state code ★                              | 4                     |
| Platform name and type   | ACADIA DESGAGNES |              | Wave height (m)                               | 2 m                   |
| Observer (s)             | STEPHEN BADCOCK  |              | True wind speed (knots) OR ★<br>Beaufort code | 25 KTS                |
| Date (DD/MMM/YYYY)       | 13/09/2018       |              | True wind direction                           | SW                    |
| Time at start (UTC)      | 1230             |              | Ice type code ★                               | N/A                   |
| Time at end (UTC)        | 1300             |              | Ice concentration code ★                      | 0                     |
| Latitude at start / end  | 62° 19.1' N      | 62° 15.1' N  | True platform speed (knots)                   | 11.2 KTS              |
| Longitude at start / end | 082° 11.2' W     | 082° 19.0' W | True platform direction                       | 223° T                |
| Visibility (km)          | 16 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





**Observation Period Information:**

Glare conditions code

1

Q

Snapshot used?

4

 $2m$  $22k + 5$ 

SE

N/A

①

11. 1 K+S

297°

| Starboard | Port |
|-----------|------|
|-----------|------|

72 m

Out or In

Yes or No

**Notes:**

Vessel changed course to  $270^{\circ}T$  before 1300 UTC

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

[illegible]

<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(breeding), NB(non-breeding), M(molt)

**Observation Period Information:**

Glare conditions code

3

Snapshot used?

Yes or ~~No~~

~~Not a storage case or bin~~

[illegible]

<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           | DES GAGNES                | Sea state code                           | 2              |
| Platform name and type   | ACADIA DESGAGNES          | Wave height (m)                          | 2 m            |
| Observer (s)             | STEPHEN BADCOCK           | True wind speed (knots) OR Beaufort code | 6 KTS          |
| Date (DD/MM/YYYY)        | 11/09/2018                | True wind direction (deg)                | 235°           |
| Time at start (UTC)      | 1230                      | Ice type code                            | N/A            |
| Time at end (UTC)        | 1300                      | Ice concentration code                   | 0              |
| Latitude at start / end  | 60° 37.8'N / 60° 40.1'N   | True platform speed (knots)              | 12.6 KTS       |
| Longitude at start / end | 065° 12.5'W / 065° 22.7'W | True platform direction (deg)            | 297°           |
| Platform activity        | TRAVELLING                | Observation side                         | Starboard Port |
| Visibility (km)          | 16 km                     | Height of eye (m)                        | 22 m           |
| Weather code             | 1                         | 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 |
|-----------|---------|-----------------|----------------|-------------------------|--------|--------|----------------------------|------------------|--------------------|-----|----------|
| NOFU      | 6       | FLY             | Y              | A                       | N/A    | 39     | 280°W                      | J                | NB                 | M   |          |
| NOFU      | 1       | FLY             | Y              | A                       | N/A    | 39     | W                          | A                | NB                 | M   |          |
| UNGU      | 2       | FLY             | Y              | A                       | N/A    | 39     | S                          | A                | NB                 | M   |          |
| UNGU      | 1       | FLY             | Y              | A                       | N/A    | 36     | N                          | A                | NB                 | M   |          |
| NOFU      | 15      | FLY             | Y              | A                       | N/A    | 39     | W                          | A                | NB                 | M   |          |
| UNGU      | 8       | WATER           | Y              | A                       | N/A    | 60     | -                          | A                | NB                 | 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(adult); <sup>4</sup> B(reeding), NB(non-breeding), M(molt)

**Observation Period Information:**

Glare conditions code

0

Snapshot used?

Yes or ~~No~~

**Notes:**

[illegible]

<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)

**Observation Period Information:**

Glare conditions code

|                  |              |
|------------------|--------------|
| DES GAGNES       |              |
| ACADIA DESGAGNES |              |
| STEPHEN BADCOCK  |              |
| 12/09/2018       |              |
| 1700             |              |
| 1730             |              |
| 62° 32.8' N      | 62° 33.6' N  |
| 075° 10.2' W     | 075° 24.2' W |
| TRAVELLING       |              |
| 16 km            |              |
| 0                |              |
| 0                |              |

Snapshot used?

|                           |
|---------------------------|
| 1                         |
| 1 m                       |
| 7 kts                     |
| SE                        |
| N/A                       |
| 0                         |
| 14.3 kts                  |
| 279° T                    |
| <del>Starboard</del> Port |
| 22 m                      |
| Out or <del>in</del>      |
| Yes or <del>No</del>      |

**Notes:**

[illegible]

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

**Observation Period Information:**

Glare conditions code

1

Snapshot used?

Yes or ~~No~~

Notes: Cleared to 16 km visibility

[illegible]

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



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