Appendix 32

Meadowbank and Whale Tail
2024 Marine Mammal and Seabird Report

PREPARED FOR

AGNICO EAGLE

Agnico Eagle Mines Limited

Meadowbank Complex and Meliadine Mine

Marine Mammal and Seabird Annual Report, 2024

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ACRONYMS AND ABBREVIATIONS

Δ	difference (delta)
≤	less than or equal to
Agnico Eagle	Agnico Eagle Mines Limited
AIC	Akaike's Information Criterion
AIS	Automatic Identification System
CI	Confidence Interval
ECSAS	Eastern Canada Seabirds at Sea
GIS	geographic information system
GPS	Global Positioning System
Groupe Desgagnés	Groupe Desgagnés, Inc.
km	kilometre
km^2	square kilometre
m	metre
MMMMP	Marine Mammal Management and Monitoring Plan
MMSO	Marine Mammal and Seabird Observer
NA	not applicable
NIRB	Nunavut Impact Review Board
PC	Project Certificate
SE	Standard Error
SMP	Shipping Management Plan
SOP	standard operating procedure
Woodward	Woodward Group and Companies

EXECUTIVE SUMMARY

Agnico Eagle Mines Limited (Agnico Eagle) operates two mines in eastern Nunavut: the Meadowbank Complex (Meadowbank Mine and Whale Tail Mine), approximately 85 kilometres (km) north of the Hamlet of Baker Lake, and the Meliadine Mine, approximately 25 km north of Rankin Inlet. Agnico Eagle supplies these projects through annual sealifts during the open water season. The shipping company Groupe Desgagnés, Inc. (Groupe Desgagnés) ships dry cargo to the Meadowbank Complex and Meliadine Mine, and the Woodward Group of Companies (Woodward) supplies fuel to these two projects.

Agnico Eagle holds three Project Certificates (PCs) from the Nunavut Impact Review Board (NIRB) for Meadowbank Complex (Nos. 004 and 008) and Meliadine Mine (No. 006). These PCs include conditions related to the protection of marine mammals and seabirds, including avoiding sensitive breeding and habitat areas for marine mammals and seabirds, and vessel crew conducting a Marine Mammal and Seabird Observer (MMSO) program (see Table 1 for Compliance to Project Conditions).

The objective of the Marine Mammal and Seabird Annual Report, 2024 was to provide a summary of the MMSO data collected by Groupe Desgagnés and Woodward, and local marine wildlife monitors during the 2024 MMSO program to support Agnico Eagle's 2024 annual report to the NIRB. MMSO results from the previous years for Meliadine Mine (2017 to 2023) and Meadowbank Complex (2018 to 2023) are provided in the report to allow for comparison between years, and to report on compliance.

Similar to previous years, updated training materials continued to be delivered to the vessel crew prior to the shipping season. These training materials were developed to improve the MMSO data collection of shipping companies. When compared to pre-2020 levels, vessel participation in MMSO surveys has increased. In 2024, a total of 23 vessels serviced the projects between July and November: 7 for Meadowbank and 7 for Meliadine, while 9 serviced both Meadowbank and Meliadine. Datasheets were obtained from 19 of the 23 trips in 2024, which is similar to the last 4 years (18 of the 23 trips in 2023, 21 of 27 in 2022, 23 of 29 in 2021, and 19 of 25 in 2020), all of which were greater than in previous years (6 vessels providing datasheets in 2019, and only 2 participating vessels in 2018).

TABLE 1 PROJECT CERTIFICATES, CONDITIONS, COMPLIANCE, AND DOCUMENT SECTION

PC and Condition Number	Compliance	Section
Meadowbank PC 004, Condition 36 Cumberland shall ensure the placement of local area marine mammal monitors onboard all vessels transporting fuel or materials for the Project through Chesterfield Inlet.	**In Compliance** Local area marine mammal monitors have conducted surveys aboard vessels transiting between Chesterfield Inlet and Baker Lake between 2008 and 2019 and between 2022 to 2024. During 2020 and 2021, due to the COVID-19 pandemic, local monitors could not board vessels, and vessel crew conducted the monitoring.	1.6 Overview 3.4 Results
Meadowbank PC 004, Condition 41 Subject to vessel and human safety considerations, Cumberland shall require shippers carrying cargo to the Project through Chesterfield Inlet to follow the following mitigation procedures in the event that marine mammals are in the vicinity of the shipping activities: a. Wildlife will be given right of way; b. Ships will maintain a straight course, constant speed, and will avoid erratic behaviour; and c. When marine mammals appear to be trapped or disturbed by vessel movements, the vessel will stop until the mammals have moved away from the area.	**In Compliance** In 2020, Agnico Eagle updated the maps and training materials outlining setbacks and mitigation measures to apply when marine mammals and seabirds are in the vicinity of shipping activities. These training materials were provided to Groupe Desgagnés and Woodward for distribution to all captains and bridge crew of vessels supplying Agnico Eagle Nunavut mines from 2020 through 2024. Where sufficient data are available, vessel tracks show vessels avoiding sensitive areas for marine wildlife.	1.3 Training 1.4 Mitigation 3.1 Results
Whale Tail PC 008, Condition 38 The Proponent shall ensure that marine shipping activities avoid sensitive wildlife habitat and species along the shipping route and use a routing south of Coats Island as the primary shipping route, subject to vessel and human safety considerations.	**In Compliance** In 2024, Agnico Eagle continued to emphasize the importance of routing south of Coats Island. However, due to safety concerns associated with inclement weather south of Coats Island, travel north of Coats Island was required on three occasions.	3.1 Results
Whale Tail PC 008, Condition 39 The Proponent shall ensure that, subject to vessel safety requirements, a setback distance of at least 500 m is maintained from colonies and aggregations of seabirds and marine mammals during Project shipping transiting through Hudson Strait, Hudson Bay, and Chesterfield Inlet.	**In Compliance** In 2020, Agnico Eagle updated the maps and training materials outlining setbacks and mitigation measures to be applied when marine mammals and seabirds are observed. These materials were provided to Groupe Desgagnés and Woodward for distribution to all captains and bridge crew of vessels supplying Agnico Eagle from 2020 through 2024. Vessel tracks, where sufficient data are available, show vessels avoiding sensitive areas for marine wildlife.	1.3 Training 1.4 Mitigation 3.1 Results

PC and Condition Number	Compliance	Section
Whale Tail PC 008, Condition 40 The Proponent shall develop and implement a ship-based marine mammal monitoring program, as part of a Marine Mammal Management and Monitoring Plan, in consultation with Fisheries and Oceans Canada, communities, and other interested parties. The Proponent shall report any accidental contact by project vessels with marine mammals or seabird colonies to applicable responsible authorities including Fisheries and Oceans Canada and Environment and Climate Change Canada.	**In Compliance** In 2020, Agnico Eagle updated the training materials for MMSO monitoring. These materials were provided to Groupe Desgagnés and Woodward for distribution to all captains and bridge crew of vessels supplying Agnico Eagle from 2020 through 2024. Results of MMSO monitoring show compliance with updated training materials. No vessel strikes with marine mammals or seabirds were reported.	1.3 Training 1.4 Mitigation 3.2 Marine Mammal Results 3.3 Seabird Results Appendices A, B, C (training documents including mitigation summary and standard operating procedures)
Meliadine PC 006, Condition 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* (2002) and for the Committee on the Status of Endangered Wildlife in Canada listed species (birds and mammals).	**In Compliance** In 2020, Agnico Eagle updated the training materials for MMSO monitoring. These materials were presented to Groupe Desgagnés and Woodward for distribution to all captains and bridge crew of vessels supplying Agnico Eagle from 2020 through 2024. Vessel companies assigned MMSO duties to dedicated crew members. Results of MMSO monitoring show compliance with updated training materials. No vessel strikes with marine mammals or marine birds were reported.	1.3 Training 1.4 Mitigation 3.2 Marine Mammal Results 3.3 Seabird Results
Meliadine PC 006, Condition 83 The Proponent shall ensure that, subject to vessel and human safety considerations, all Project shipping adhere to the following mitigation procedures while in the vicinity of marine mammals (including polar bear) and birds: a. Marine mammals will be given right of way; b. Ships will, when possible, maintain a straight course and constant speed, avoiding erratic behaviour; and c. When marine mammals appear to be trapped or disturbed by vessel movements, the vessel will implement appropriate measures to mitigate disturbance, including stoppage of movement until wildlife have moved away from the immediate area.	**In Compliance** In 2020, Agnico Eagle updated the maps and training materials outlining setbacks and mitigation measures to apply when marine mammals and seabirds are observed. These materials were provided to Groupe Desgagnés and Woodward for distribution to all captains and bridge crew of vessels supplying Agnico Eagle Nunavut mines from 2020 through 2024. Vessel tracks, where sufficient data are available, show vessels avoiding sensitive areas for marine wildlife.	1.3 Training 1.4 Mitigation 3.1 Results

Notes:
Agnico Eagle = Agnico Eagle Mines Limited; Desgagnés = Groupe Desgagnés; MMSO = Marine Mammal and Seabird Observer; m = metre; PC = Project Certificate; Woodward = Woodward Group and Companies

Setbacks from Sensitive Habitats

In compliance with Term and Condition 39 of Whale Tail Mine Certificate No. 008, Project vessels must follow a setback distance of 500 metres (m) from colonies and aggregations of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet. In addition, vessels must follow a setback distance of 2 km from Marble Island, as per Meliadine's Shipping Management Plan (Agnico Eagle 2022b).

Vessel tracks and identified sensitive areas for wildlife were mapped. Where detailed data were available, vessels were shown to avoid these areas where safe to do so. Groupe Desgagnés and/or Woodward vessel tracks crossed through the 2 km setback polygon at Marble Island on three occasions. Agnico Eagle continues to train vessel captains regularly and remind them of the importance of maintaining sensitive habitat buffers prior to shipping season.

Vessel Mitigation

Vessels are required to transit south of Coats Island whenever the weather is safe to do so. The majority (87 percent [%]) of vessels servicing the Meadowbank and Meliadine projects in 2024 travelled south of Coats Island. Vessels traveled north of Coats Island on three occasions, two in July due to unfavorable sea conditions along the route, and one in October due to inclement weather.

Marine Mammal Monitoring

In 2024, 62 transect and 88 stationary surveys for marine mammals were completed. There was a total of 23 marine mammal sightings (9 during surveys and 14 incidentally) during the 2024 shipping season, compared to 20 (surveys and incidentally) in 2023. Between 2017 and 2024, the majority of marine mammal sightings were recorded in the Hudson Strait or near Marble Island and Chesterfield Inlet. The number of marine mammal sightings was too low to allow for density analysis to be conducted. Groupe Desgagnés and Woodward did not record any marine mammal–vessel interactions (e.g., strikes) in 2024 or in previous years (2017 through 2023).

Seabird Monitoring

No accidental contact between vessels and seabirds was recorded in 2024 or in previous years. In 2024, a total of 97 transects and 136 stationary surveys were completed.

In 2024, 1,339 birds were recorded during moving vessel surveys. Among the 1,339 birds recorded, 22 different species were identified, with 7 different species remaining unidentified. The most common species recorded in 2024 during moving vessel surveys were razorbill (n = 726) and northern fulmar (n = 150). Seabird detectability and density were estimated using models that account for lower detectability of birds with greater distance from survey transects. Detectability estimates were mostly consistent between years, with the highest estimate in 2022, followed by 2024. Differences in estimated density reflect variability in the effort and number of birds detected between years.

During stationary surveys in 2024, 530 seabird sightings were recorded, belonging to 10 identified species and 5 unknown species. The most commonly recorded species were herring gull (n = 290),

unknown duck (n = 75), and razorbill (n = 58). The detection estimate for stationary seabird surveys were lower in 2024 than in previous years.

Marine Wildlife Observations—Baker Lake

Agnico Eagle conducts a program that involves community wildlife observers on barges ferrying supplies between Helicopter Island and Baker Lake within Chesterfield Inlet. Community wildlife observers record wildlife sightings incidentally. In 2024, local wildlife monitors were on the vessels for a total of 37 days in August, September, and October between Helicopter Island and Baker Lake. Wildlife were observed on 338 occasions in 2024. There were 331 separate sightings of birds (a total of 1,138 individuals) and 1 sighting of an unknown seal species (1 individual). The most frequently recorded birds were unknown gull/tern species. Additional terrestrial wildlife species were observed, including 1 sighting of caribou (6 individuals), 3 sightings of muskox (21 individuals), and 2 sightings of fox (2 individuals).

In addition to community wildlife observers, the shipping companies continued to record marine wildlife sightings while vessels were travelling between Helicopter Island and Baker Lake to supplement the community observer effort. In 2024, crew members onboard the Tuvaq W. recorded one incidental sighting of a harbour seal on 12 August while transiting between Helicopter Island and Baker Lake. In addition, the Tuvaq W. completed 15 seabird surveys, 13 of which had sufficient survey effort information (129 km of surveys with an average of 9.9 km per survey) in 2024, and 54 seabirds (9 different species) were observed during these surveys.

Vessels also completed stationary surveys while anchored at Helicopter Island. In 2024, there were 54 stationary surveys completed for marine mammals at Helicopter Island; however, no marine mammals were observed during the surveys. For seabirds, 79 stationary surveys were completed, (49 of which had survey effort recorded), and 25 seabirds were recorded (6 different species).

1. INTRODUCTION

1.1 PROJECT BACKGROUND

Agnico Eagle Mines Limited (Agnico Eagle) operates two mines in eastern Nunavut: the Meadowbank Complex (Meadowbank Mine and Whale Tail Mine) and the Meliadine Mine. Agnico Eagle contracts the shipping company Groupe Desgagnés to ship cargo and contracts Woodward Group and Companies (Woodward) to ship fuel from Bécancour, Quebec, to its Nunavut Operations. Since 2017, Agnico Eagle has required shipping companies to conduct vessel-based monitoring of marine mammals and seabirds.

This Marine Mammal and Seabird Observer (MMSO) Annual Report summarizes results of the 2024 shipping season and includes results from previous years (2018 through 2023). The MMSO monitoring program and report satisfy the following Project Certificate (PC) conditions from the Nunavut Impact Review Board (NIRB):

- Whale Tail NIRB PC No. 008, Terms and Conditions 38, 39, and 40 (NIRB 2020);
- Meliadine Mine NIRB PC No 006, Terms and Conditions 82 and 83 (NIRB 2022); and
- Meadowbank NIRB PC No. 004, Terms and Conditions 36 and 41 (NIRB 2018).

This monitoring program is described in:

- The Meadowbank Complex Shipping Management Plan (SMP) Version 4 (Agnico Eagle 2022a); and
- The Meliadine Shipping Management Plan Version 9 (Agnico Eagle 2022b).

As initiated in 2020, since the requirements for the Meadowbank Complex and Meliadine Mine are very similar, the 2024 MMSO Annual Report addresses reporting for both projects.

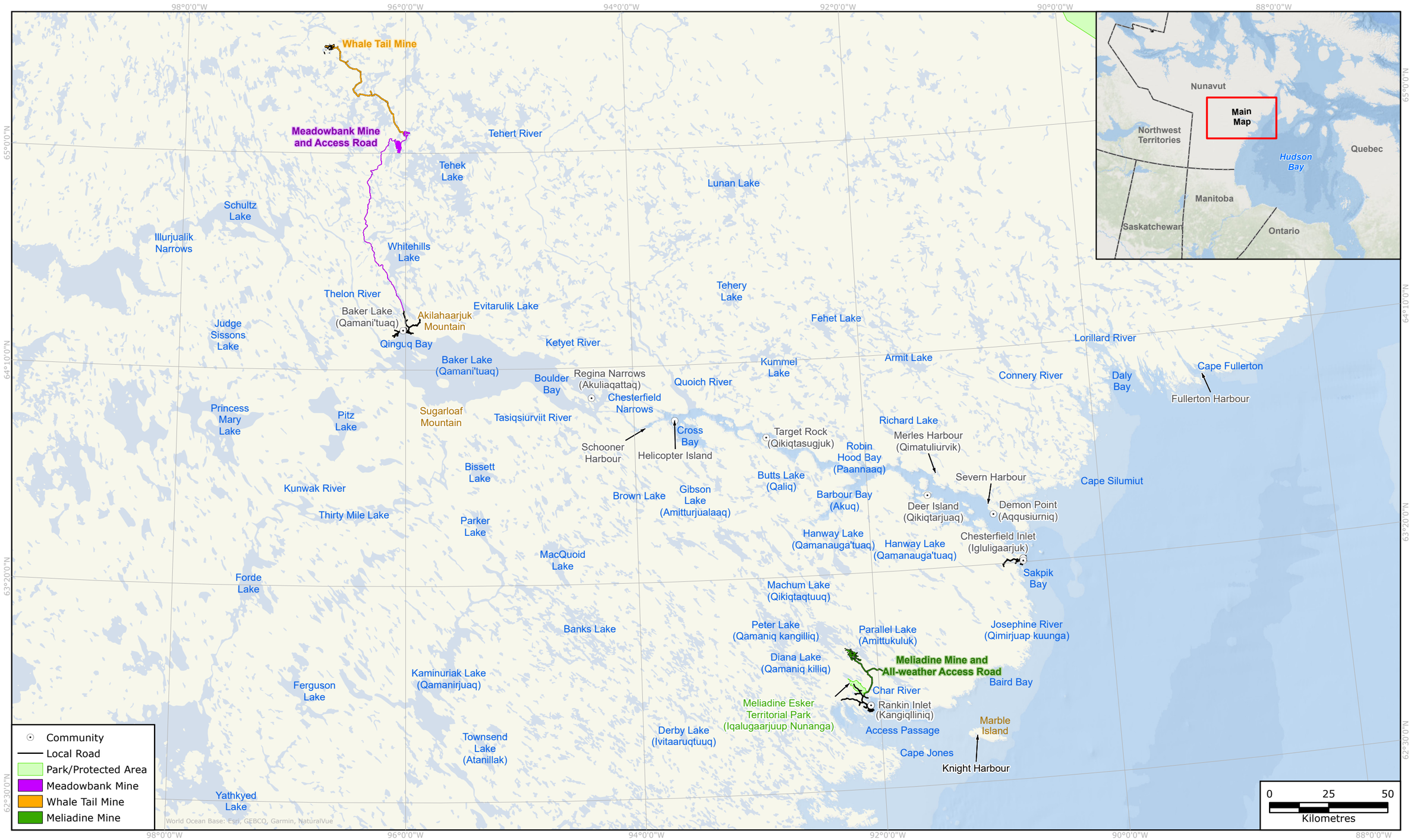
1.1.1 AGNICO EAGLE MEADOWBANK COMPLEX

Agnico Eagle Meadowbank Complex operates the Meadowbank Mine and Whale Tail Mine (Figure 1.1-1). The Meadowbank Complex holds NIRB PC Nos. 004 and 008.

Shipping is carried out during the open water season (typically from July to late October) and follows recommended established shipping routes for the annual sea lift to Chesterfield Inlet, Baker Lake, and other communities. The shipping route extends through the Hudson Strait and across Hudson Bay to Chesterfield Inlet (Figure 1.1-2). At Helicopter Island in Chesterfield Inlet, dry cargo is lightered onto tug-assisted barges, and fuel is lightered onto smaller shuttle tankers for Groupe Desgagnés and/or Woodward through the Baker Lake access passage (Chesterfield narrows, south channel) to the Meadowbank Mine barge unloading facilities and the laydown area in Baker Lake.

To satisfy Term and Condition 36 of Meadowbank Mine PC No. 004. a local area marine wildlife monitor is required to be onboard all vessels transporting fuel or materials for the Meadowbank Mine through Chesterfield Inlet.

FIGURE 1.1-1 MELIADINE MINE AND MEADOWBANK COMPLEX LOCATIONS



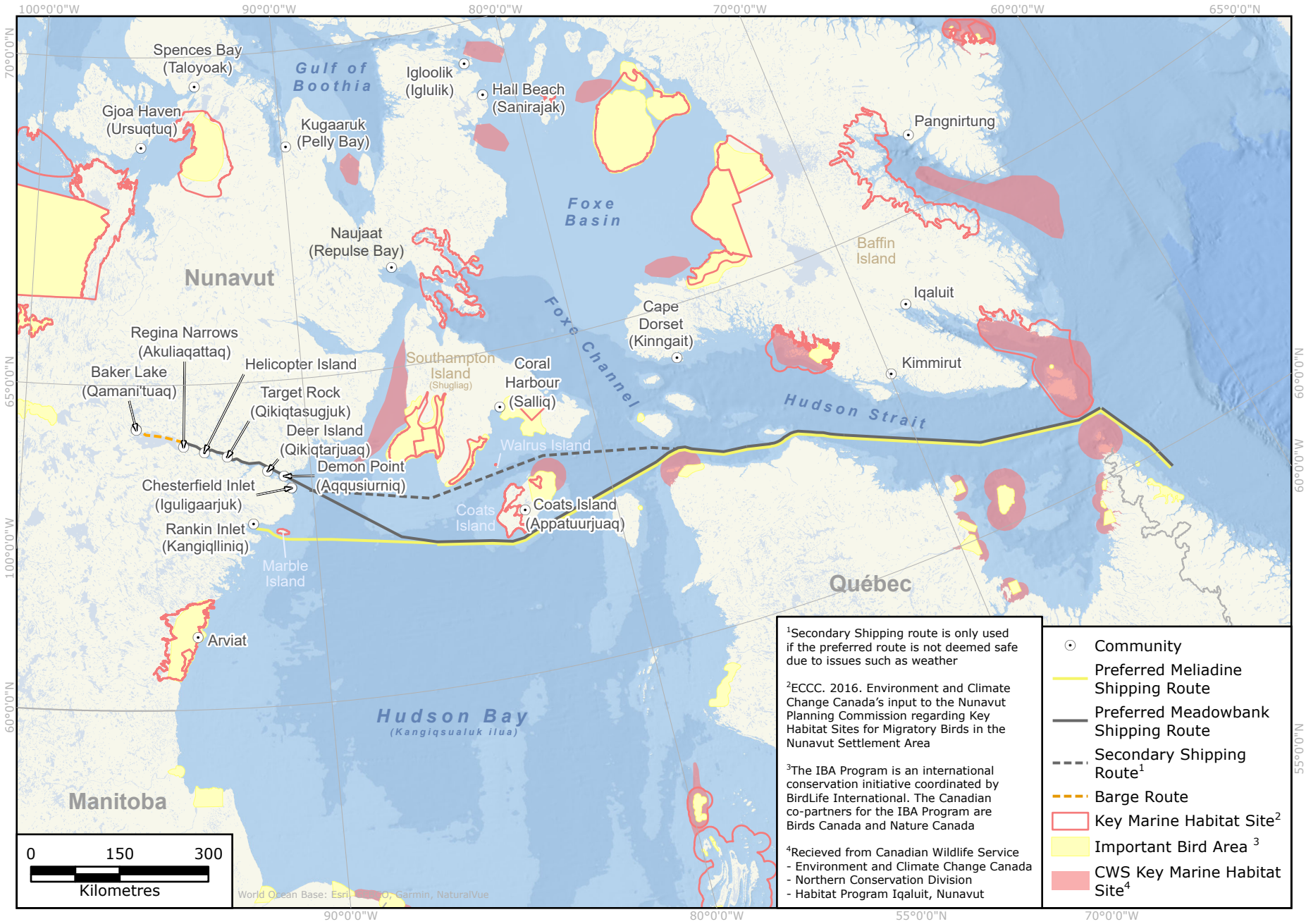
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FIGURE 1.1-2 MARINE MAMMAL AND SEABIRD OBSERVER PROGRAM STUDY AREA ALONG SHIPPING ROUTE TO MELIADINE MINE AND MEADOWBANK COMPLEX



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Term and Condition 39 of Whale Tail Mine Certificate No. 008 requires that Project vessels must follow a setback distance of 500 m from colonies and aggregations of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet.

1.1.2 AGNICO EAGLE MELIADINE DIVISION

Agnico Eagle Meliadine Division operates the Meliadine Mine (Figure 1.1-1). The Meliadine Mine holds the NIRB PC No. 006.

Shipping is carried out during the open water season (typically from July to late October) and follows established shipping routes for the annual sea lift to Rankin Inlet and other Kivalliq communities. The shipping route study area extends through Hudson Strait and across Hudson Bay to Rankin Inlet, with vessels anchoring either outside or inside Melvin Bay (Figure 1.1-2).

1.1.3 MARINE MAMMAL AND SEABIRD OBSERVER ANNUAL REPORT OVERVIEW

This MMSO Annual Report provides an overview of the following:

- Training, mitigation, and monitoring required on vessels (Sections 1.3, 1.4, and 1.5);
- The vessels that supplied Meadowbank Complex and Meliadine Mine in 2024 (Section 3.1);
- Mitigation measures conducted by these vessels, including setbacks from sensitive habitats, travelling south of Coats Island, and avoiding marine mammals and seabirds observed at sea (Sections 3.1.1, 3.1.2, and 3.1.3);
- Marine mammal monitoring conducted from 2017 to 2024 (2017 was for Meliadine Mine only; Section 3.2);
- Seabird monitoring conducted from 2018 to 2024 (Section 3.3); and
- Community surveys carried out between Helicopter Island in Chesterfield Inlet and the Hamlet of Baker Lake from 2008 to 2024 (Section 3.4).

1.2 OBJECTIVES

The Meadowbank and Meliadine SMPs outline an MMSO program within the Meadowbank Complex Marine Mammal and Seabird Management and Monitoring Plan (Agnico Eagle 2022c) and Meliadine Marine Environmental Management Plan (Agnico Eagle 2022d) that is implemented by Agnico Eagle shipping contractors (Agnico Eagle 2022a, 2022b). Groupe Desgagnés and Woodward are required to implement an MMSO program during shipping activities in the marine Regional Study Area (Hudson Strait through Hudson Bay) and in Chesterfield Inlet.

The objectives of the MMSO program are to:

- Mitigate interactions between marine mammals and seabirds and project vessels;
- Collect information on marine wildlife presence along the shipping route; and
- Engage local community members to record sightings of wildlife opportunistically while travelling through Chesterfield Inlet.

As the MMSO -related Terms and Conditions are similar for the Meadowbank Complex and Meliadine Mine, the MMSO Program is presented in one consolidated report in 2024, as has been done since 2020. This report presents a summary of the MMSO data collected by Groupe Desgagnés, Woodward, and local MMSO monitors onboard their vessels during the 2024 MMSO Program to provide information to support Agnico Eagle's 2024 annual reports to the NIRB. This report also includes a summary of all data collected between 2017 and 2024.

1.3 MARINE MAMMAL AND SEABIRD OBSERVER TRAINING

Training provided by Agnico Eagle for the assigned MMSOs was updated in 2020. Minor updates to the seabird datasheets were completed in 2021, 2022, and 2023. The seabird standard operating procedure (SOP) was updated in 2023 following comments from Environment and Climate Change Canada to encourage MMSOs to improve data collection using 5-minute survey intervals for seabird surveys (see survey methods in Section 2.3). In 2024, Agnico Eagle held virtual meetings with Groupe Desgagnés and Woodward prior to the shipping season to remind the crews of obligations related to the MMSO Program (PC requirements, mitigation, etc.) and the importance of the program for compliance. Training was also provided to vessel captains and crew, and monthly meetings were held with the shipping companies to provide additional recommendations and feedback on data collection. The enhanced training materials included the following:

- A Marine Shipping Management Plan Summary Brochure (Appendix A), to be reviewed by all captains and MMSOs and to be kept by captains onboard the vessel for reference. This document summarizes guidelines for operation of vessels (e.g., how to transit near animals and preferred routes), mitigation measures for captains based on Section 4.2 of the SMPs, as well as a summary of the monitoring program and survey techniques.
- A pre-trip training presentation/webinar to be reviewed by vessel crew members. The recorded webinar is also available on the ship for MMSOs to review, as needed.
- The Marine Mammal Monitoring SOP (Appendix B) and the Seabird Monitoring SOP (Appendix C), to be understood for proficiency, detailing the methods for marine mammal and seabird surveys.
- Identification guides and updated posters provided for MMSOs and crew to learn to identify marine mammals and seabirds.
- Marine Mammal Sightings Form, Seabird Sightings Form, Incidental Marine Wildlife Sightings Form, and Marine Mammal and Seabird Observer (MMSO) Incident Report Form (Attachments in Appendices B and C) to be completed by MMSOs and captains.
- A one-page fact sheet for marine mammal surveys and a one-page fact sheet for seabird surveys to emphasize survey methodologies for the MMSOs.

In addition, the Marine Mammal Sightings Form, Seabird Sightings Form, Incidental Marine Wildlife Sightings Form, and the MMSO Incident Report Form have been updated between 2020 and 2024 to improve data collection and simplify the process for the MMSOs onboard the vessels. These data sheets are provided as attachments within Appendices B and C.

1.4 MARINE MAMMAL AND SEABIRD MITIGATION

PCs 004, 006, and 008 require vessels supplying the Meadowbank Complex and Meliadine Mine to avoid sensitive marine mammal and seabird habitats such as haul outs and breeding colonies. Mitigation and management measures (summarized from Section 4.2 of the SMPs for Meadowbank Complex and Meliadine Mine; Agnico Eagle 2022a, 2022b) include the following:

- General navigational requirements while travelling through Hudson Straight to Helicopter Island or Rankin Inlet include the following:
  - Ships will, when possible, maintain a straight course and constant speed and avoid erratic behaviour;
  - Marine mammals will be given right of way as safe navigation allows;
  - The ship will not be operated in such a way as to separate (an) individual member(s) of a group of marine mammals from other members of the group;
  - Ships will maintain the required setback distances (500 m) around marine mammals and seabirds on land;
  - Ships will use routing south of Coats Island as the primary shipping route;
  - Ships travelling for the Meliadine Mine will remain at least 2 km from Marble Island to avoid disturbing seals, walruses, and marine birds that might be in the vicinity; and
  - Ships will maintain the required setback distances around marine mammals and seabirds in the water (between 100 and 500 m, depending on group size or behaviour of animals; see Appendix A).
- As part of the shipping companies' SOPs, ship crews will monitor for marine mammals and seabirds from Hudson Strait to the lightering point near Helicopter Island (Meadowbank) or Rankin Inlet (Meliadine).
- The ship's Master will be notified if there is a concern of the ship striking a marine mammal.
- Ship personnel are required to take actions to avoid a possible collision by implementing management measures (e.g., reduce speed and/or stop the vessel until the animal moves away), if safe to do so.
- If a collision occurs, the appropriate people will be contacted, and the incident will be documented.

The vessel routes and their avoidance of sensitive wildlife areas, as well as observations of marine mammals and seabirds that would trigger mitigation and the mitigation that occurred, if any, are provided in Section 3.

1.5 MARINE MAMMAL AND SEABIRD MONITORING

The MMSO Program was developed to meet commitments made during the NIRB hearings related to marine shipping. The MMSO Program is required to be conducted during all routine shipping activities along the shipping route from Hudson Strait to the Project. The marine mammal and seabird monitoring is conducted by the ship's crew, and methods are provided in Section 2 and Appendices B and C. Results of MMSO monitoring at sea are reported in Sections 3.2 and 3.3.

1.6 MARINE WILDLIFE OBSERVATIONS—BAKER LAKE

To satisfy Term and Condition 36 of Meadowbank Mine PC No. 004 a local area marine wildlife monitor is required onboard all vessels transporting fuel or dry cargo for the Meadowbank Mine on barge shipping between Helicopter Island and Baker Lake. Local area marine wildlife observers record all observations of wildlife as incidental sightings. These results are presented in Section 3.4.

In addition to local monitors, both Groupe Desgagnés and Woodward MMSOs continued to complete marine wildlife observations between Helicopter Island and Baker Lake. These results are presented in Sections 3.2 and 3.3 and summarized in Section 3.4.1.

2. METHODS

Groupe Desgagnés and Woodward crew members were assigned MMSO duties and trained to complete the surveys following the SOPs (Appendices B and C) and in accordance with the methods outlined in the SMPs (Agnico Eagle 2022a, 2022b). These methods are summarized below and described in detail in Appendices B and C.

2.1 VESSEL TRACKS

Agnico Eagle provided ERM Consultants Canada Ltd. with a list of vessel names and dates of delivery for shipments to Meadowbank Complex and Meliadine Mine. Transport Canada requires each vessel to transmit Automatic Identification System (AIS) data via a transceiver onboard. Other vessels and Vessel Traffic Services use these data to monitor vessel movements. ERM Consultants Canada Ltd. acquired archived AIS data from Vesseltracker, a commercial AIS supplier that aggregates AIS data from satellite and shore-based stations. These data vary in frequency, based on distance from shore, location of shore-based stations, and position of satellites. In some cases, AIS position data are available on an hourly or sub-hourly basis, but in other cases, position data can include 12 hours or more between fixes.

Tracks for the vessel names and dates Agnico Eagle provided were downloaded from Vesseltracker (2024) and plotted using ArcGIS Pro 3.3.2. Only vessels travelling to Meadowbank Complex or Meliadine Mine are presented in this report. Important bird areas and marine mammal aggregations were buffered by 500 m, and Marble Island was buffered by 2 km, as defined by the SMPs (Agnico Eagle 2022a, 2022b), to establish setback polygons. A geographic information system (GIS) was used to perform an overlay and Near analysis to identify which lines and points intersected or were in close proximity to these buffered areas.

2.2 MARINE MAMMALS

Marine mammal surveys were completed while the vessels were travelling to Agnico Eagle mines. The dedicated MMSO carried out surveys from a high location on the vessel, either on the bow or in the wheelhouse, depending on the weather. One to three surveys were completed daily. It is recommended that marine mammal surveys last for a minimum of 1.5 hours to not more than 2 hours to mitigate observer fatigue and eyestrain. A precise scan routine is carried out throughout the marine mammal observation period, as described in the MMMMP and the Marine Mammal Survey SOP (Agnico Eagle 2022c, 2022d; Appendix B).

Marine mammals observed during the survey periods were recorded on the Marine Mammal Sightings Form (Appendix B), including Global Positioning System (GPS) location, distance to animal, angle to animal, number of individuals, species, and behaviour. If a marine mammal had been observed during the voyage outside of the dedicated marine mammal observation period (i.e., off-effort), this was recorded as an incidental sighting on the Incidental Marine Wildlife Sightings Form (Appendix B).

Further details regarding survey methods for marine mammals are provided in the SOP provided in Appendix B, and within the MMMMP (Agnico Eagle 2022c, 2022d).

2.2.1 MARINE MAMMAL DATA ANALYSIS

This section outlines the methods used to summarize the environmental conditions, observer effort, and marine mammal sightings related to the information recorded by Groupe Desgagnés and Woodward. Not enough marine mammal sightings were recorded during the MMSO programs to conduct a density analysis. However, the possibility for a density analysis will be revisited annually.

2.2.1.1 TEMPORAL AND SPATIAL OBSERVATION EFFORT

Temporal (hours) and spatial (km) survey effort are the effort dedicated to marine mammal surveys as recorded by Groupe Desgagnés and Woodward on the MMSO datasheets. Spatial effort was calculated as linear kilometres using GPS coordinates that were recorded at the start and end of each MMSO survey transect. To determine temporal effort (i.e., the time spent completing marine mammal surveys), start and end times were recorded on the datasheets. If a start or end location, or a start or end time was not entered in the datasheet, then spatial and/or temporal effort could not be calculated for that survey and was excluded from the survey effort.

2.2.1.2 ENVIRONMENTAL VARIABLES

During surveys, environmental variables were recorded on the datasheets. These variables included wind speed and direction, sea state (Beaufort scale), weather (e.g., precipitation and cloud conditions), visibility (in km), and sun glare. Environmental variables were summarized as a percentage of survey time.

2.3 SEABIRDS

Dedicated MMSOs were directed to complete surveys from moving and stationary platforms according to the Eastern Canada Seabirds at Sea (ECSAS) standardized protocol for pelagic surveys from moving and stationary platforms (Gjerdrum et al. 2012). The dedicated MMSOs conducted surveys for seabirds from a high location on the vessel, either on the bridge or in the wheelhouse, depending on the weather. Surveys were carried out at the same location on the vessel as much as possible. Surveys are best completed along a transect line; therefore, it is best to start a seabird observation period when the vessel is and will be moving in a straight line for an extended period (refer to Moving Vessel Surveys, Section 2.4.3 of Appendix C). If the vessel is stationary (e.g., anchored) for a day or a portion of the day, then a seabird survey will be required while anchored to ensure that the minimum of one survey per day is met (refer to Stationary Vessel Survey, Section 2.4.4 of Appendix C).

For both survey types (moving and stationary), binoculars or spotting scopes were used to confirm species identification and other observation details when necessary. All seabirds observed during surveys were recorded, including species, number of individuals, location (in flight or on water), distance to the vessel, breeding plumage, and behaviour. Additional information regarding the seabird surveys can be found in Appendix C.

MMSOs were directed to complete each seabird survey period on a moving vessel during six consecutive 5-minute periods, repeated three times a day to capture morning, afternoon, and evening periods, when possible. A precise scan routine was conducted within 300 m from the vessel, as described in the MMMMP and the Seabird Survey SOP (Agnico Eagle 2022c, 2022d;

Appendix C). All birds observed within this 300 m transect, whether flying or on the water, were recorded and considered in-transect sightings.

Stationary vessel surveys were carried out as a 180 degrees semi-circle scan of the surrounding area from the front (bow) of the vessel. All birds observed within 300 m were recorded and considered to be in the transect. The survey interval ended when all seabirds within the semi-circle had been recorded. If no seabirds were seen during the initial scan, the survey was considered complete.

During the voyage, if a seabird was observed outside of the dedicated seabird observation period (i.e., off-effort), this was recorded as an incidental sighting on the Incidental Marine Wildlife Sightings Form (Appendix B).

2.3.1 SEABIRD DATA ANALYSIS

2.3.1.1 TEMPORAL AND SPATIAL OBSERVATION EFFORT

Starting in 2022, crew member training focused on emphasizing 5-minute interval surveys, as per the ECSAS standardized protocol for pelagic surveys from moving and stationary platforms (Gjerdrum et al. 2012). Shipping companies recorded the start and end times and positions for each 5-minute interval of a survey (for moving vessel surveys). Each survey consisted of six 5-minute intervals. Survey effort was summarized by incorporating all six intervals. However, each 5-minute interval was considered separately for distance models, because the precise start and end locations are required for modelling.

For seabird surveys, the number of survey hours and kilometres surveyed were recorded as indices of effort. Spatial effort is recorded for moving vessel surveys only, while temporal effort is reported for both moving vessel and stationary vessel surveys. Seabird spatial effort was calculated as linear kilometres using GPS coordinates recorded by Groupe Desgagnés and Woodward at the start and end of each survey interval. Start and end times recorded on datasheets were used to determine temporal effort (i.e., the time spent completing the seabird surveys).

2.3.1.2 ENVIRONMENTAL VARIABLES

Environmental conditions were recorded on survey datasheets, namely wind speed (Beaufort scale) and direction, sea state, weather (e.g., precipitation and cloud conditions), visibility, and sun glare. Environmental variables were summarized according to the number of seabird detections so that any trends with poorer weather or visibility conditions could be visually assessed.

2.3.1.3 DATA ANALYSIS

Distance analyses estimate the diminishing detectability of objects (e.g., birds) with greater distance from observers. For example, a bird flying within 50 m is more likely to be seen and identified than a bird flying 300 m away from an observer. Because birds at greater distances are more likely to be missed during surveys, the number of birds recorded does not represent the true abundance of birds in the area. Distance models take these detectability changes into account and allow for a more accurate estimation of seabird density (Buckland et al. 2001). Distance software adapted for R (Distance package v 1.0.7, run on R v 4.1.1; Miller et al. 2019; R Core Team 2021) was used for

analysis of seabird data. Distance analysis involves two steps: 1) model fitting for detectability curve, and 2) density estimates (for moving vessel surveys), as described below.

Prior to completing the distance analysis, the observation data were binned into distance categories for analysis: 0 to 50 m, 50 to 100 m, 100 to 200 m, and 200 to 300 m. The closest distance bins were further investigated for grouping in case evasive movements were causing an abnormal detection distribution (e.g., if there were more sightings further than 50 m away because birds dove or flew away as the ship approached); however, no abnormal detection distribution was observed. Therefore, no changes were required to the distance binning categories.

Distance model selection did not include environmental variables, due to low sample size limiting modelling fitting capabilities (Buckland et al. 2001). To determine if any major anomalies were present with poor weather (e.g., rain, snow or fog), a visual assessment of variation in detection rate according to environmental variables was conducted.

Model key functions are first fit to the data to determine which model best describes the observed change in detection with distance (the detectability). The three main key functions are hazard rate, half-normal, and uniform. Hazard rate curves indicate that detection rates remain high at closer distances (i.e., birds are just as likely to be detected between 0 and 100 m of an observer) but drops off steeply as distance increases beyond 100 m. Half-normal curve detection rates decrease slightly up to a certain distance, at which the detection rate decreases rapidly (i.e., the likelihood of a bird being detected between 0 and 100 m decreases slightly and decreases drastically past 100 m; Miller et al. 2019). These key functions can have additional adjustment terms that refine the main model fit, namely cosine, simple polynomial, and hermite polynomial adjustments. All model key function and adjustment combinations were tested to ensure model fit. Models accounted for variable detection according to group size. Analyses included only on-transect sightings and did not use re-sightings of the same birds or incidental survey intervals that were missing effort data.

Models were selected using the minimum Akaike's Information Criterion (AIC; Akaike 1973). The AIC is a number that is helpful for comparing models, as it includes measures of both how well the model fits the data and how complex the model is (simpler is usually better). The top models were identified as having a low AIC and were within a two-unit difference in AIC (ΔAIC is less than or equal to 2) of the top-ranked model (i.e., the model with the lowest AIC; Burnham and Anderson 2004). This is the industry standard for identifying models that are essentially "equally good" at explaining the data. Models with a difference in AIC (ΔAIC) of two to four from the top model are generally considered to have "limited support" (Burnham and Anderson 2004). Top models were also checked for adequate goodness of fit indices, including plotting model curves against the data.

The density of seabirds was estimated via distance modelling from moving vessel surveys, and density estimates are presented as individuals per square kilometre (km^2). Seabird density is not calculated for stationary vessel surveys because points lack spatial effort, and, despite multiple surveys per point, the data are too sparse to model.

2.4 MARINE WILDLIFE OBSERVATIONS—BAKER LAKE

When transporting equipment and fuel from Bécancour to Baker Lake, deep-water vessels can enter Chesterfield Inlet but must stop at Helicopter Island at the west end of the inlet. The material is then loaded aboard barges, and tugs move the barges through the narrow passage connecting Chesterfield Inlet to Baker Lake, and then on to the hamlet of Baker Lake.

To satisfy Term and Condition 36 of Meadowbank Mine PC No. 004, a local area marine wildlife monitor is required onboard all vessels transporting fuel or materials for the Meadowbank Complex on barge shipping between Helicopter Island and Baker Lake. Local area marine wildlife observers record all observations of wildlife as incidental sightings. Note that in 2020 and in 2021, community members were not permitted to board vessels due to health and safety restrictions in place related to the COVID-19 pandemic. Therefore, during those years, Groupe Desgagnés and Woodward had their MMSOs record sightings of marine mammals and seabirds when possible while travelling on the barge, following methods described in Sections 2.2 and 2.3. Local monitors completed the marine wildlife surveys in 2024. Additional surveys completed by Groupe Desgagnés and Woodward MMSOs are presented in Sections 3.2 and 3.3 and summarized in Section 3.4.1.

3. RESULTS

3.1 SHIPPING ACTIVITY IN 2024

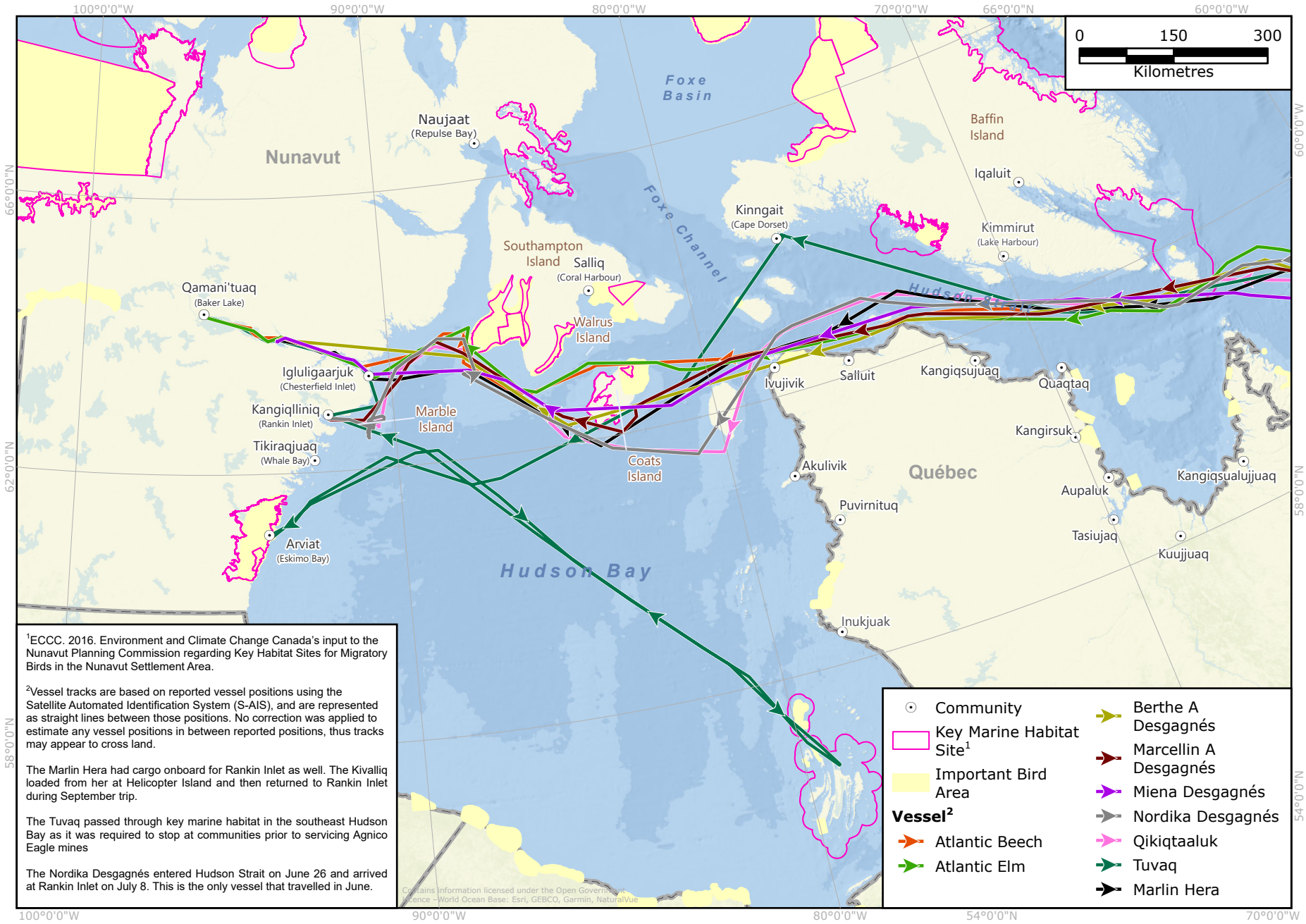
During the 2024 shipping season, a total of 23 vessels, (2 that were tugs, 11 that were cargo, and 10 that were fuel) travelled to Meadowbank (7 vessels), Meliadine (7 vessels), or to both Meadowbank and Meliadine (9 vessels) between 26 June and 19 November 2024 (Table 3.1-1; Figures 3.1-1 through 3.1-5). Vessel tracks broadcast using AIS vessel positioning were downloaded from Vesseltracker (2024) and plotted using ArcGIS Pro 3.3.2.

TABLE 3.1-1 SUMMARY OF GROUPE DESGAGNÉS AND WOODWARD VESSELS DURING THE SHIPPING SEASON, JULY TO NOVEMBER 2024

Vessel Name	Fuel or Cargo	Project and Number of Trips			Total Trips
		Meadowbank	Meliadine	Meadowbank and Meliadine	
Kivalliq W	Fuel	-	-	2	2
Kitikmeot W	Fuel	-	1	-	1
Tuvaq W[a]	Fuel	2	-	-	2
Marlin Hera	Fuel	-	-	2	2
Qikiqtaaluk W[b]	Fuel	-	2	1	3
Nordika Desgagnés	Cargo	-	2	1	3
Atlantic Elm Tug[c]	Cargo	1	-	-	1
Atlantic Beech Tug[c]	Cargo	1	-	-	1
Marcellin A. Desgagnés	Cargo	-	1	1	2
Berthe A. Desgagnés	Cargo	1	-	-	1
Acadia Desgagnés	Cargo	-	1	-	1
Miena Desgagnés	Cargo	2	-	1	3
Zeleda Desgagnés	Cargo	-	-	1	1
Total		7	7	9	23

Notes:
Groupe Desgagnés = Groupe Desgagnés, Inc.; Woodward = Woodward Group and Companies
Dashes (-) indicate none observed.
[a] Between 29 July and 2 September, and between 22 October and 28 October, the Tuvaq W. also transited between Helicopter Island and Baker Lake for the Meadowbank Complex; however, these transitions are not included as separate trips due to the nature of the vessel transiting only locally during these times.
[b] The Qikiqtaaluk W. loaded off the Seaways Mia, which was anchored at Grosswater Bay off the coast of Labrador.
[c] Between July and October, the Atlantic Elm and Atlantic Beech tugs were also transiting between Helicopter Island and Baker Lake for the Meadowbank Complex; however, these are not all considered separate trips due to the nature of the tugs transiting only locally.

FIGURE 3.1-1 GROUPE DESGAGNÉS AND WOODWARD SHIPPING TRACKS, JUNE & JULY 2024



[1]ECCC. 2016. Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

[2]Vessel tracks are based on reported vessel positions using the Satellite Automated Identification System (S-AIS), and are represented as straight lines between those positions. No correction was applied to estimate any vessel positions in between reported positions, thus tracks may appear to cross land.

The Marlin Hera had cargo onboard for Rankin Inlet as well. The Kivalliq loaded from her at Helicopter Island and then returned to Rankin Inlet during September trip.

The Tuvaq passed through key marine habitat in the southeast Hudson Bay as it was required to stop at communities prior to servicing Agnico Eagle mines

The Nordika Desgagnés entered Hudson Strait on June 26 and arrived at Rankin Inlet on July 8. This is the only vessel that travelled in June.

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- Community
- Key Marine Habitat Site[1]
- Important Bird Area

Vessel[2]

- Atlantic Beech
- Atlantic Elm
- Berthe A Desgagnés
- Marcellin A Desgagnés
- Miena Desgagnés
- Nordika Desgagnés
- Qikiqtaaluk
- Tuvaq
- Marlin Hera

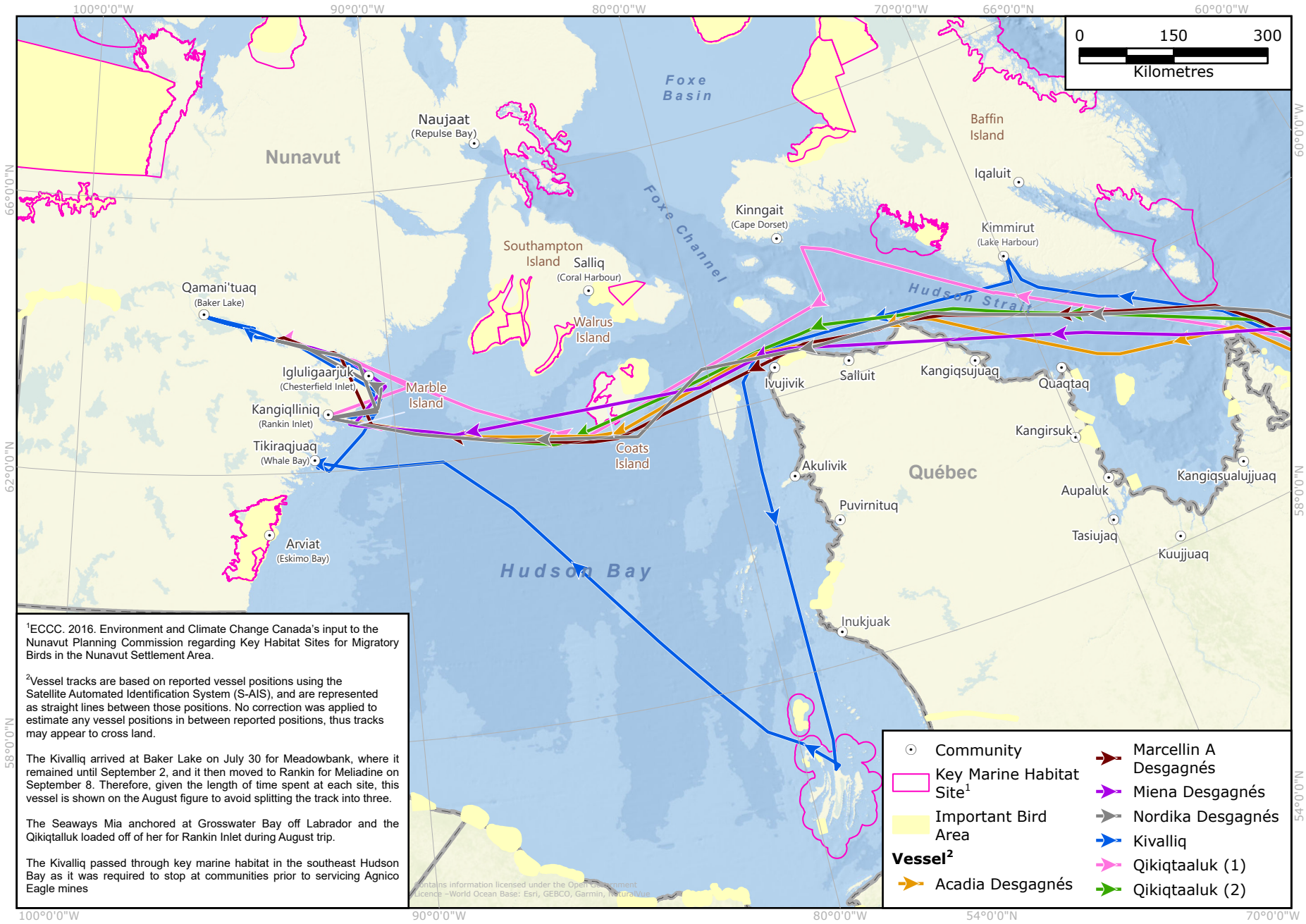
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CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-035-01

DATE: 03/17/2025

PROJECTION: Canada Lambert Conformal Conic
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FIGURE 3.1-2 GROUPE DESGAGNÉS AND WOODWARD SHIPPING TRACKS, AUGUST 2024



[1]ECCC. 2016. Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

[2]Vessel tracks are based on reported vessel positions using the Satellite Automated Identification System (S-AIS), and are represented as straight lines between those positions. No correction was applied to estimate any vessel positions in between reported positions, thus tracks may appear to cross land.

The Kivalliq arrived at Baker Lake on July 30 for Meadowbank, where it remained until September 2, and it then moved to Rankin for Meliadine on September 8. Therefore, given the length of time spent at each site, this vessel is shown on the August figure to avoid splitting the track into three.

The Seaways Mia anchored at Grosswater Bay off Labrador and the Qikiqtalluk loaded off of her for Rankin Inlet during August trip.

The Kivalliq passed through key marine habitat in the southeast Hudson Bay as it was required to stop at communities prior to servicing Agnico Eagle mines

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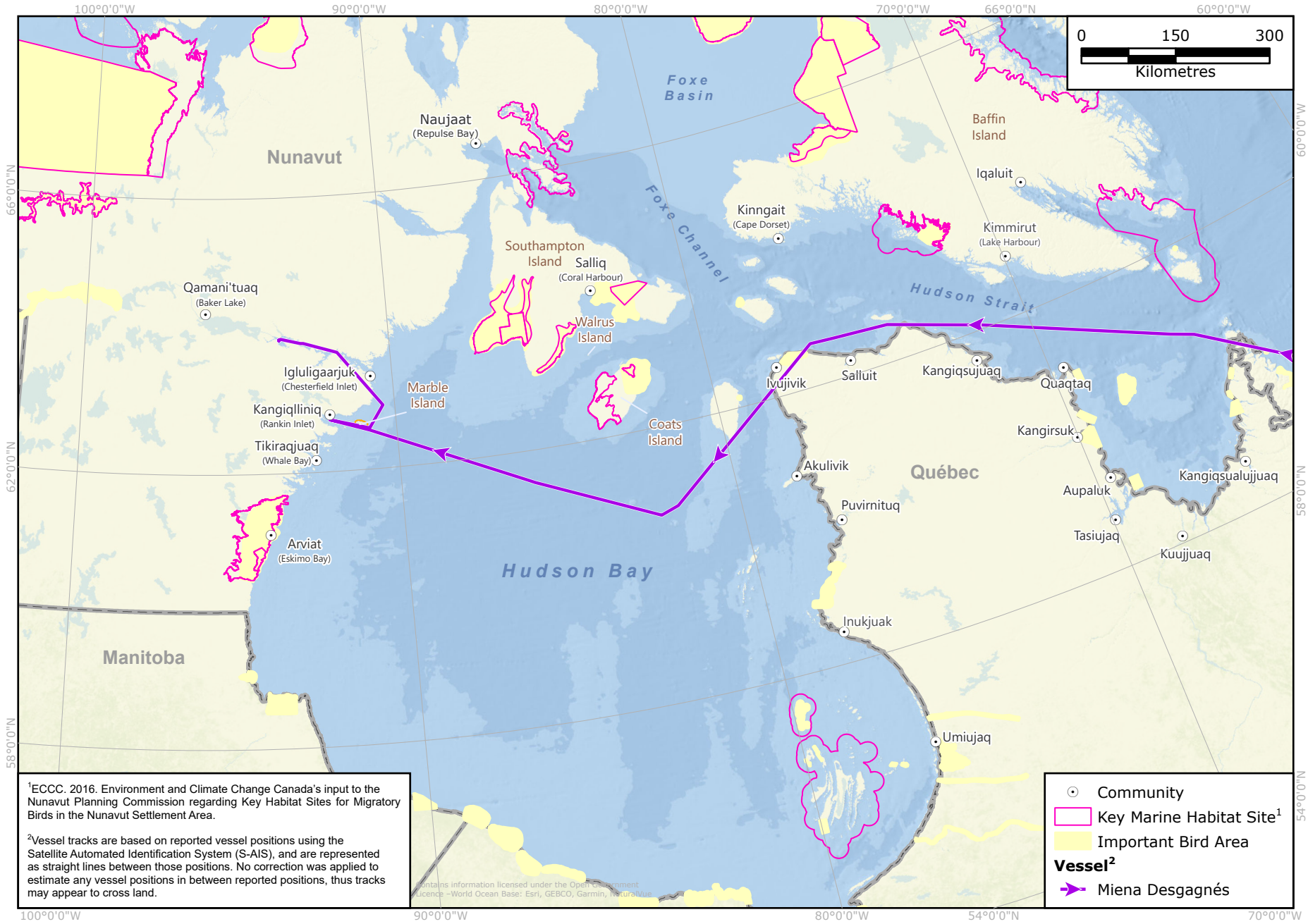
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CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-035-02

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:8,500,000 when printed at 8.5x11

FIGURE 3.1-3 GROUPE DESGAGNÉS SHIPPING TRACKS, SEPTEMBER 2024



[1]ECCC. 2016. Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

[2]Vessel tracks are based on reported vessel positions using the Satellite Automated Identification System (S-AIS), and are represented as straight lines between those positions. No correction was applied to estimate any vessel positions in between reported positions, thus tracks may appear to cross land.

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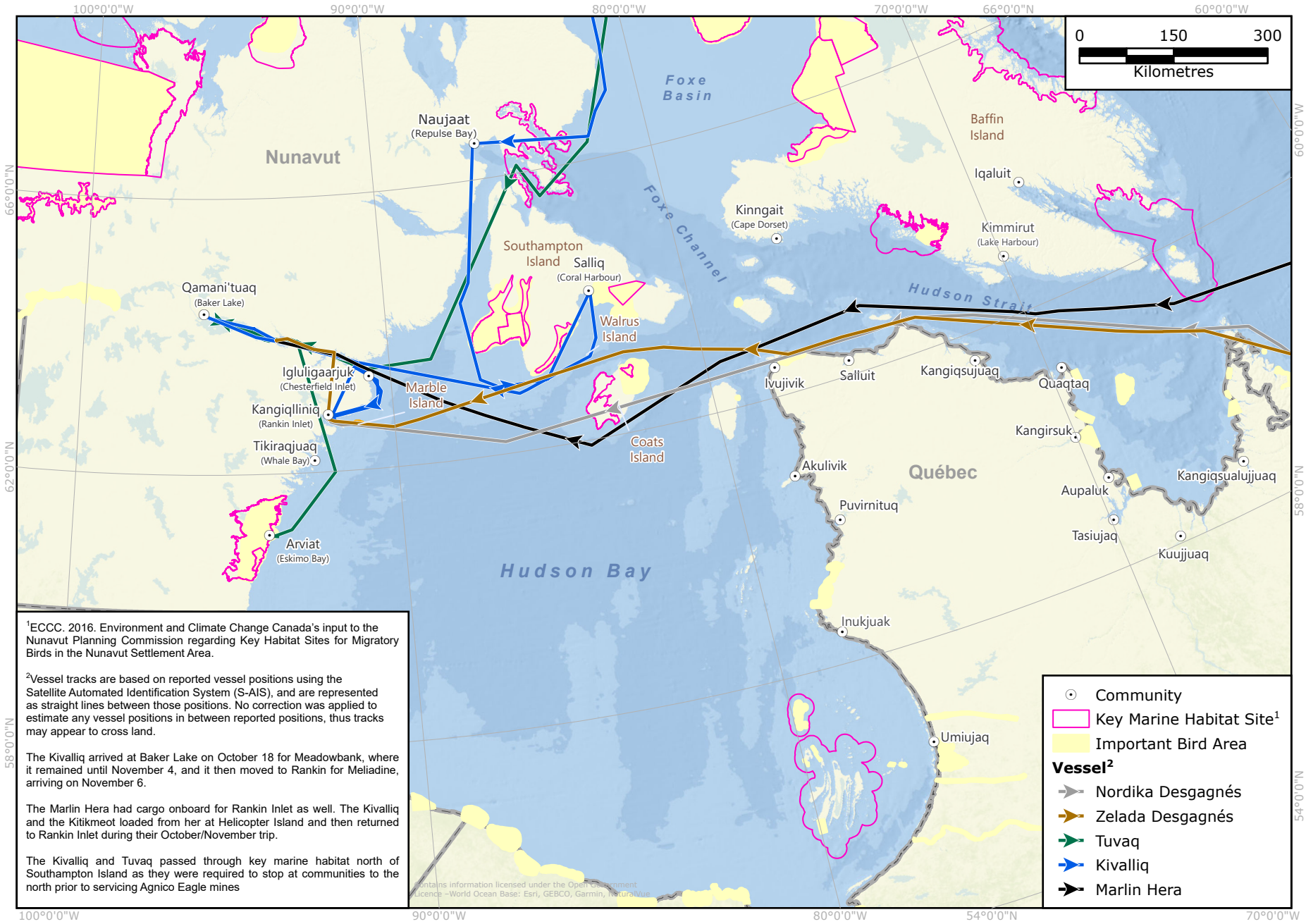
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CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-035-03

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:8,500,000 when printed at 8.5x11

FIGURE 3.1-4 GROUPE DESGAGNÉS AND WOODWARD SHIPPING TRACKS, OCTOBER 2024



[1]ECCC. 2016. Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

[2]Vessel tracks are based on reported vessel positions using the Satellite Automated Identification System (S-AIS), and are represented as straight lines between those positions. No correction was applied to estimate any vessel positions in between reported positions, thus tracks may appear to cross land.

The Kivalliq arrived at Baker Lake on October 18 for Meadowbank, where it remained until November 4, and it then moved to Rankin for Meliadine, arriving on November 6.

The Marlin Hera had cargo onboard for Rankin Inlet as well. The Kivalliq and the Kitikmeot loaded from her at Helicopter Island and then returned to Rankin Inlet during their October/November trip.

The Kivalliq and Tuvaq passed through key marine habitat north of Southampton Island as they were required to stop at communities to the north prior to servicing Agnico Eagle mines

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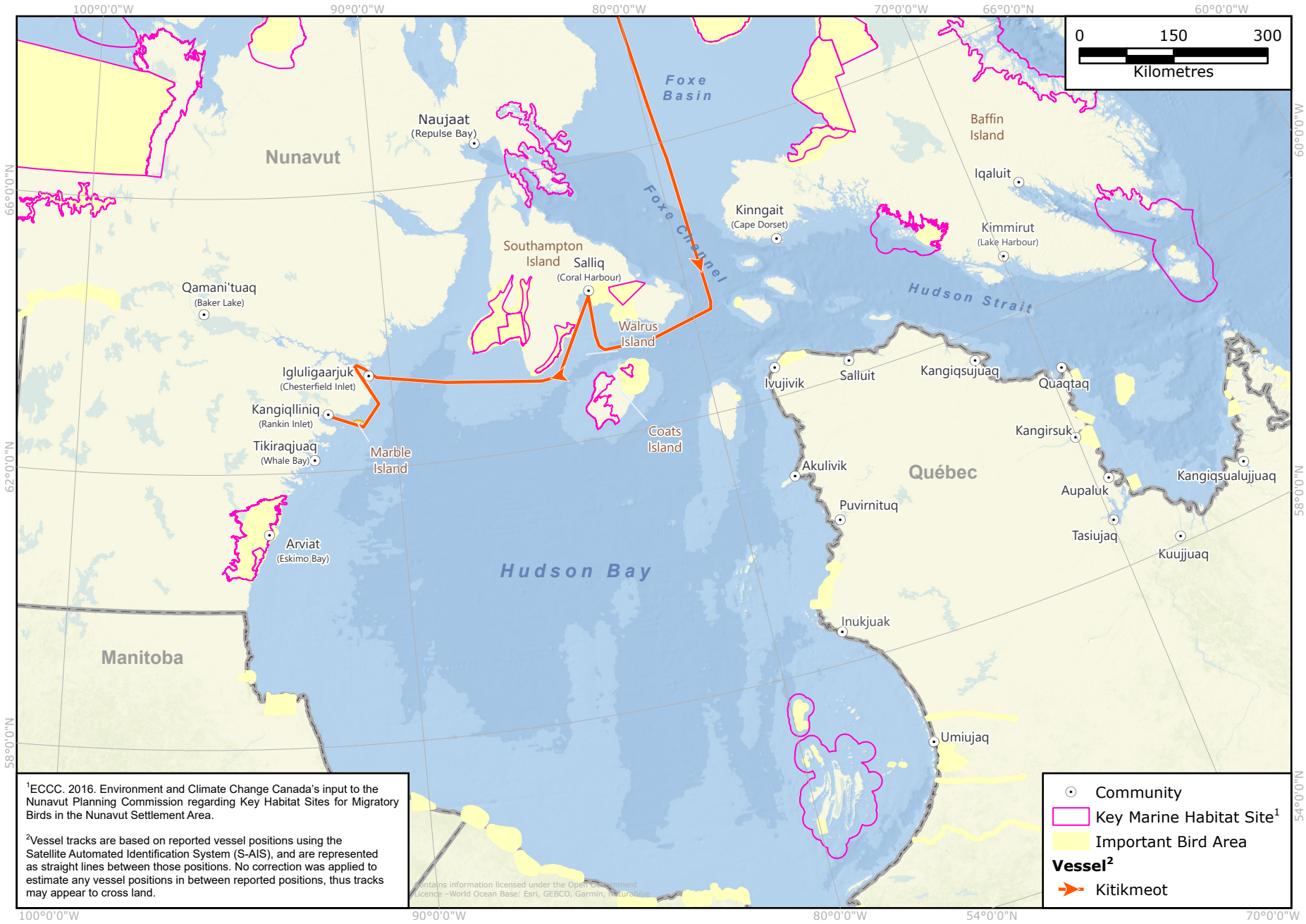
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CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-035-04

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:8,500,000 when printed at 8.5x11

FIGURE 3.1-5 WOODWARD SHIPPING TRACKS, NOVEMBER 2024



[1]ECCC. 2016. Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

[2]Vessel tracks are based on reported vessel positions using the Satellite Automated Identification System (S-AIS), and are represented as straight lines between those positions. No correction was applied to estimate any vessel positions in between reported positions, thus tracks may appear to cross land.

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ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-035-05

DATE: 02/13/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:8,500,000 when printed at 8.5x11

Most (74%) of these vessels delivered cargo and fuel exclusively for Agnico Eagle, while six trips also conducted community resupply before visiting Agnico Eagle mines, including the following:

- One vessel in July (Tuvaq W.; Figure 3.1-1);
- Two vessels in August (Kivalliq W. and Qikiqtaaluk; Figure 3.1-2);
- Two vessels in October (Tuvaq W. and Kivalliq W; Figure 3.1-4); and
- One vessel in November (Kitikmeot; Figure 3.1-5).

3.1.1 MITIGATION MEASURES—SETBACKS FROM SENSITIVE HABITATS

All vessels are required to follow a setback distance of 500 m from colonies and aggregations of seabirds and marine mammals while transiting through the Hudson Strait, Hudson Bay, and Chesterfield Inlet, and a setback distance of 2 km from Marble Island, as defined by the SMPs (Agnico Eagle 2022a, 2022b). Maps were produced that included these locations, buffers, and vessel tracks.

Where AIS data were recorded frequently (every hour), most vessel tracks avoided the setback areas. In some cases, the AIS data were recorded less frequently (approximately every 5 to 22 hours). These long delays between position fixes create erroneous vessel tracks, with vessels in some cases appearing to cross dry land and, in other cases, appearing to cross the setback areas. For example, during a vessel trip by the Berthe A. Desgagnés in July (Figure 3.1-1), no positions were recorded over approximately 23 hours between 11 July and 12 July. Therefore, the vessel track appears as a straight line going directly across Coats Island, while, in fact, the vessel travelled south of Coats Island. In August, the Miena Desgagnés appears to cross over Coats Island (Figure 3.1-2), as no positions were recorded over 19 hours, while it in fact traveled south of Coats Island. Due to the poor resolution of these data, information (e.g., routes and setbacks) regarding these trips cannot be extrapolated with confidence.

Track data are based on satellite positioning; therefore, ship track intersections likely occurred due to a lack of ship track resolution and the intersection of existing points to create a continuous shipping track. Groupe Desgagnés and/or Woodward vessel tracks appeared to potentially cross through the 2 km setback polygon at Marble Island on 10 occasions, and at the Coats Island setback polygon on 8 occasions (3 of these tracks appeared to cross both setback polygons, therefore a total of 15 vessels appear to have crossed setbacks; Figures 3.1-1 through 3.1-5). However, when examining the data, it appears that a vessel only entered the 2 km Marble Island buffer on three occasions, as described below.

In all cases where track lines appeared to intersect the setbacks, the point locations were investigated further. From the 15 vessel tracks that appeared to cross a setback polygon, only 3 location points received from the satellite AIS were located within the setback polygons: 1) in June, the Qikiqtaaluk W.'s track shows a point location recorded 0.9 km from Marble Island; 2) in August, the Miena Desgagnés was within the 2 km buffer around Marble Island (1.2 km from Marble Island), and 3) in September, the Miena Desgagnés was 1.1 km from Marble Island. No other points were recorded within the Marble Island setback. The closest ship track point to the Coats Island setback was recorded by the Acadia Desgagnés in August, 12.3 km from the setback polygon.

Therefore, it is unlikely that the ship passed directly through the setbacks and the intersections are likely due to a lack of ship track resolution. Vesseltracker, however, remains the most reliable way to obtain vessel tracks in the Arctic at this time. Vessel captains will be reminded of the importance of maintaining a 2 km buffer around Marble Island prior to the start of the 2025 shipping season.

3.1.2 MITIGATION MEASURES—COATS ISLAND

The community of Coral Harbour identified the corridor between Southampton and Coats islands as an important breeding ground for walrus and marine birds, and as a potential migration route for marine mammals. Due to concerns that vessel traffic between Coats Island, Walrus Island (north of Coats Island), and Southampton Island may disturb these animals, vessels are required to transit south of Coats Island whenever the weather is safe to do so.

Of the 23 vessels servicing the Meadowbank Complex and Meliadine Mine in 2024, the majority (87%, 20 trips) travelled south of Coats Island. Vessels travelled north of Coats Island on the following 3 occasions (Figures 3.1-1 and 3.1-4):

1. On 3 July, the Atlantic Beech travelled north of Coats Island to avoid unsafe sea conditions south of the Island.
2. On 4 July, the Atlantic Elm was required to travel north due to unfavourable weather conditions along the shipping route to the south of Coats Island.
3. Around 3 October, the Zelada Desgagnés was required to use the north passage due to unsafe conditions along the shipping route south of Coats Island.

The Kivalliq W. vessel (Figure 3.1-4) and the Kitikmeot vessel (Figure 3.1-5) also travelled between the two islands in October and November, respectively; however, both vessels were required to stop in Coral Harbour (Salliq) on the way to the mine sites.

3.1.3 MITIGATION MEASURES—AVOIDANCE OF MARINE MAMMALS AND SEABIRDS

Ships are required to follow mitigation measures outlined in Section 4.2 of the SMPs (Agnico Eagle 2022a, 2022b), summarized in Section 1.4 and Appendix A. In 2024, none of the marine mammal or seabird sightings triggered mitigation measures, such as slowing the vessel or changing course. No incidents with marine mammals or seabirds were reported for the 2024 shipping season.

3.2 MARINE MAMMAL OBSERVATIONS

3.2.1 SURVEY EFFORT

In 2024, dedicated vessel crew members conducted marine mammal surveys between Hudson Straight and Rankin Inlet/Helicopter Island between 27 June and 18 November onboard various Groupe Desgagnés and Woodward vessels during 13 of the 23 trips. A total of 174 marine mammal surveys were conducted in 2024. However, of the 174 surveys, 24 (16 moving vessel surveys and 8 stationary surveys) were excluded from the analysis of survey effort due to missing start and/or end times, or missing start and/or end latitudes or longitudes. Datasheets with missing survey information were not incorporated into the effort analysis. Sightings during these surveys are reported as incidental observations (Section 3.2.2). Therefore, a total of 150 marine mammal surveys (62 while the vessel was moving, and another 88 surveys while the vessel was stationary) were completed in 2024 with sufficient survey effort data. The 62 transects surveyed while the vessel was moving included a total spatial effort of 2,066.5 km of marine mammal transects over 89.9 hours (Figure 3.2-1; Table 3.2-1). An additional 119.0 hours of surveying was completed while the vessel was anchored. Of the 88 stationary surveys completed while the vessel was anchored, the majority were conducted near Chesterfield Inlet and Rankin Inlet (Figure 3.2-1). Appendix D summarizes all marine mammal surveys and sightings information.

TABLE 3.2-1 MARINE MAMMAL SURVEY EFFORT, 2017 TO 2024

Year of Survey	Moving Surveys			Stationary Surveys
	Number of Transects Surveyed	Total Distance (km) Surveyed (Spatial Effort)	Total Time (Hours) Surveyed (Temporal Effort)	Total Time (Hours) Anchored Vessel
2017	11	NA[b]	10.3	0.00
2018	31	1,155.7	29	0.00
2019	38	1,898.3	62.8	59.3
2020	58	2,354.7	112.3	92.5
2021	56	2,824.9	110.5	80.4
2022	92	2,765.8	109.3	56.6
2023	64	1,996.4	79.7	72.4
2024[a]	62	2,066.5	89.9	119.0
Total	412	15,062.3	603.8	480.2

Notes: Agnico Eagle = Agnico Eagle Mines Limited; km = kilometre; NA = not applicable

[a] A total of 174 surveys were completed in 2024 (78 moving and 96 stationary); however, due to incomplete survey effort being recorded (start or end positions or times missing), they are not all included in the calculation of survey effort. Fewer surveys were completed in 2024 due to fewer vessels travelling to Meliadine Mine and Meadowbank Complex in 2024 (similarly to 2023, with 23 vessels in both years), compared to previous years (e.g., 27 vessels in 2022 and 29 vessels in 2021).

[b] Spatial data for the 2017 surveys are not available.

FIGURE 3.2-1 MARINE MAMMAL SURVEY TRANSECTS AND STATIONARY SURVEY LOCATIONS, JUNE TO NOVEMBER 2024



ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-036-01

DATE: 03/04/2025

PROJECTION: Canada Lambert Conformal Conic
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According to the observation datasheets completed by Groupe Desgagnés and Woodward, overall marine mammal survey effort in 2024 was relatively similar to 2020, 2021, 2022, and 2023 (Table 3.2-1) but lower for moving surveys in both 2024 and 2023. In 2024, observer effort during transit was 89.9 hours and 2,066.5 km, plus an additional 119.0 hours of effort while the vessel was anchored. Similarly to 2023, the reduced number of vessels travelling to Agnico Eagle in 2024 (23 vessels compared to 27 in 2022 and 29 in 2021) contributed to the lower reportable moving vessel survey effort for 2024.

3.2.1.1 ENVIRONMENTAL VARIABLES AND WEATHER CONDITIONS

The weather conditions (Figure 3.2-2a) for the 2024 marine mammal observation program were predominantly partly cloudy, 100% cloud, or clear (37%, 27%, and 21% of the survey effort, respectively). Rain and fog were present for a combined 11% of the survey time, while snow was present for 4% of the survey effort. Average visibility extended to approximately 13 km, with a maximum estimate of 50 km and a minimum estimate of 200 m.

The sea state (Figure 3.2-2b) ranged from sea state 0 (calm) to sea state 7 (sea heaps up and blowing white foam from breaking waves). However, the sea state fell predominantly within states 1 (ripples), 2 (small wavelets all over), and 3 (large wavelets, few whitecaps), accounting for 31%, 33%, and 12% of the survey effort, respectively. Sea states were 0 and 4 (small waves, frequent whitecaps) for 9% and 11% of the survey effort, respectively. Sea state five (moderate waves, many whitecaps), six (large waves and white foam crests), and seven occurred rarely (3%, 1%, and 1% of survey effort, respectively), and 1% of the survey effort lacked sea state data.

Glare conditions were generally favourable during surveys in 2024; however, 9% of the 2024 marine mammal surveys proceeded with bright glare (Figure 3.2-2c). Glare was recorded as none and slight/grey 65% and 18% of the time, respectively, and glare data are absent for 7% of the survey effort.

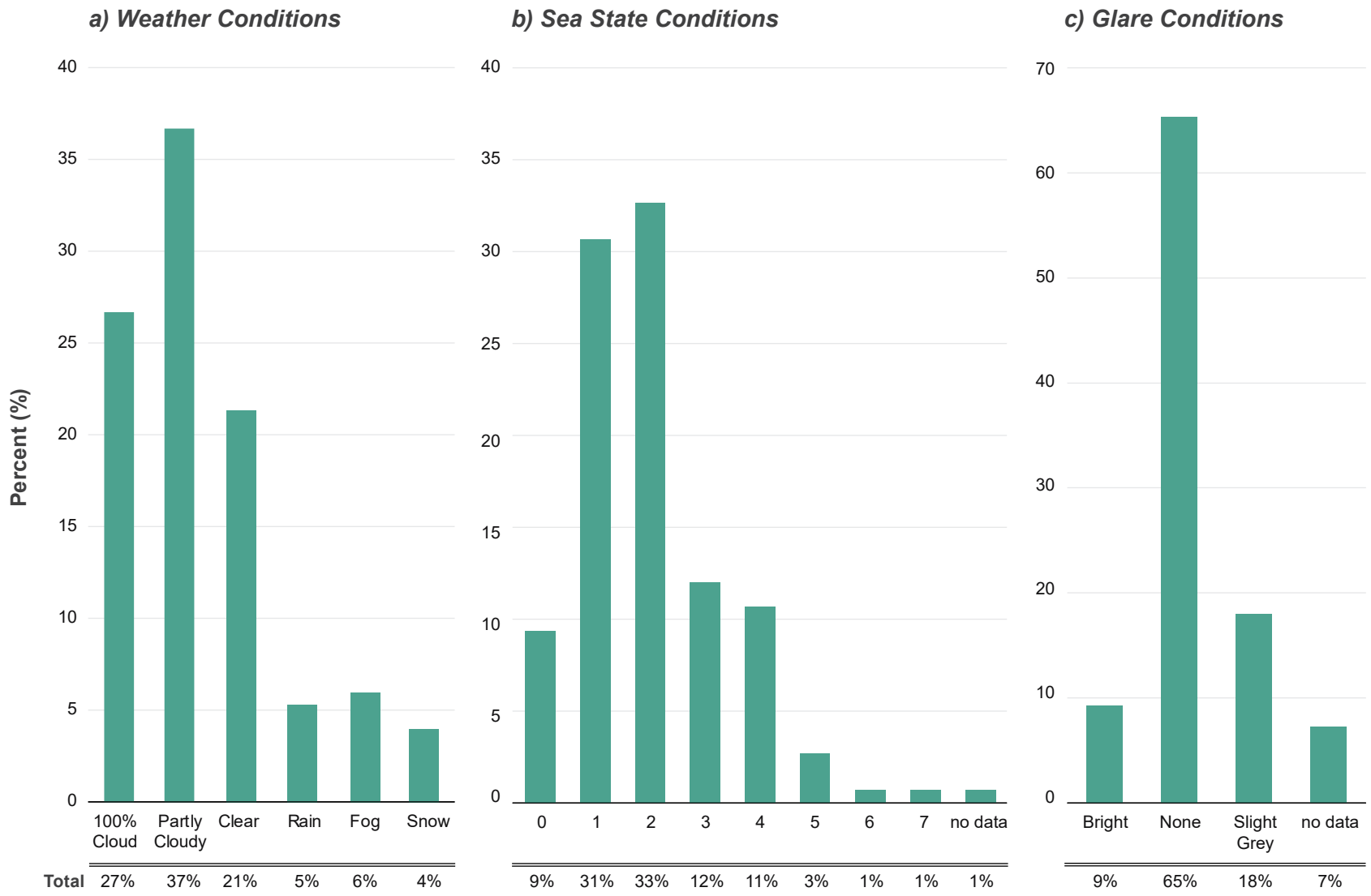
3.2.2 MARINE MAMMAL OBSERVATIONS 2024

Marine mammals were observed during dedicated surveys and incidentally in 2024. Survey results, incidental sightings, and species descriptions are provided in the following sections.

3.2.2.1 MARINE MAMMAL OBSERVATIONS DURING SURVEYS, 2024

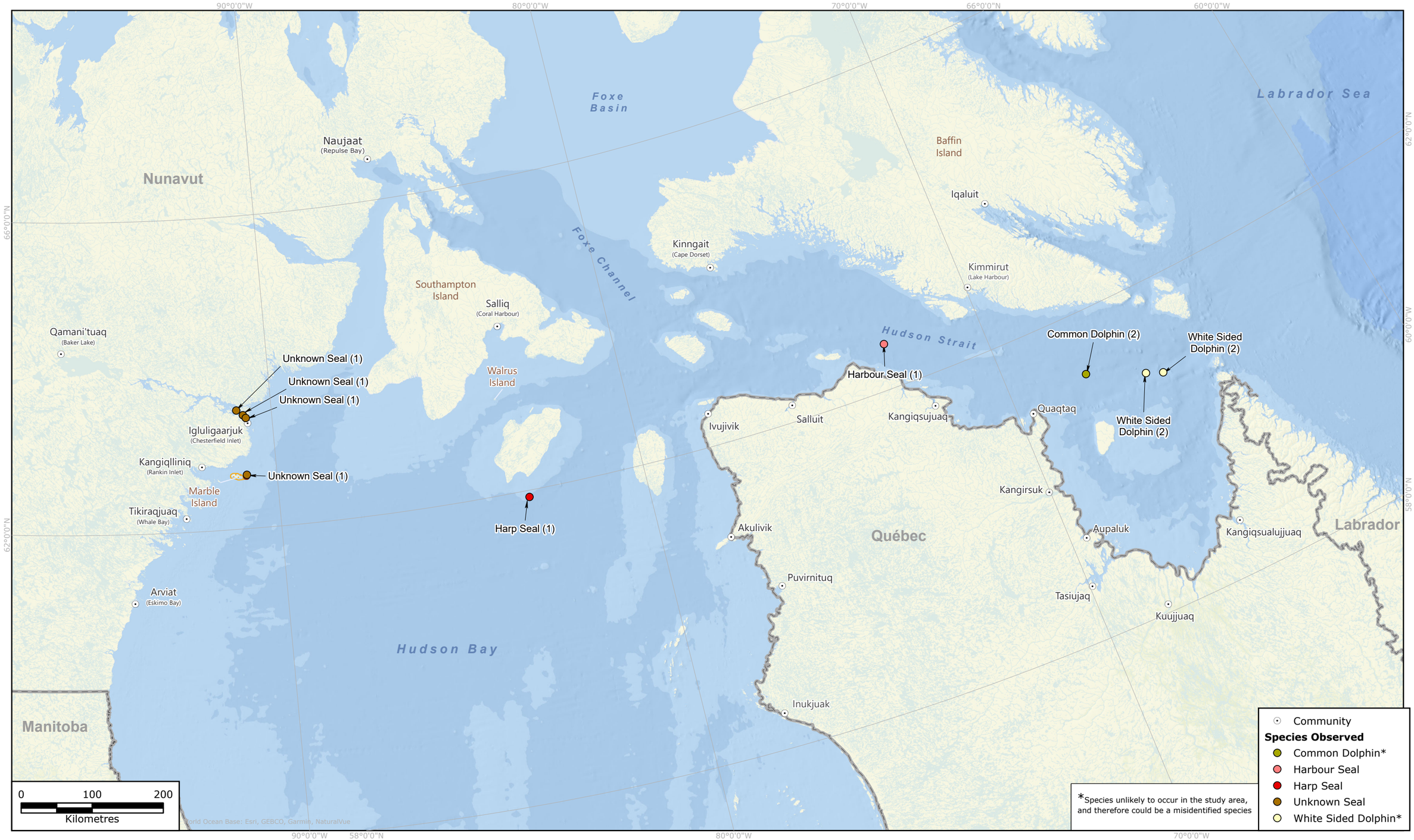
During dedicated marine mammal surveys, Groupe Desgagnés and Woodward MMSOs recorded 9 separate sightings of marine mammals (12 animals) in 2024 (Table 3.2-2; Figure 3.2-3). Species recorded by the MMSOs included harp seal (*Pagophilus groenlandicus*), harbour seal (*Phoca vitulina*), common dolphin (*Delphinus delphis*), and white-sided dolphin (*Lagenorhynchus acutus*). In addition, there were four separate sightings of seals that were not identified to species.

FIGURE 3.2-2 PERCENT WEATHER, SEA STATE, AND GLARE CONDITIONS DURING MARINE MAMMAL SURVEYS CONDUCTED IN 2024



CLIENT: Agnico Eagle Mines Limited
GRAPHICS NUMBER: AGN-25ERM-004:1

FIGURE 3.2-3 MARINE MAMMALS OBSERVED DURING SURVEYS, JULY TO OCTOBER 2024



ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-036-02

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:5,000,000 when printed at 11x17

TABLE 3.2-2 MARINE MAMMAL OBSERVATIONS DURING SURVEYS, JULY TO OCTOBER 2024

Month	Species Observed	Number of Sightings	Number of Animals Observed
July	Harbour seal	1	1
	Unknown seal	4	4
August	Common dolphin[a]	1	2
September	White-sided dolphin[a]	2	4
October	Harp seal	1	1
Total		**9**	**12**

Note:
[a] Species is unlikely to occur in the study area and could therefore be a misidentified species.

Most of the sightings occurred in July (five sightings). September had two sightings, while August and October both had one sighting each. Dolphins were observed the most (six individuals), with observers recording the species as common dolphins and white-sided dolphins. However, it is unlikely that these species were identified accurately, as described in Section 3.2.2.3. One harbour seal and one harp seal were identified (in July and October, respectively), and an additional four individuals of an unknown seal species were observed in July. Of the observed seals where the species was unknown, one was suspected to be either a harp or harbour seal. No additional notes were taken to assist in species identification.

3.2.2.2 MARINE MAMMALS OBSERVED INCIDENTALLY, 2024

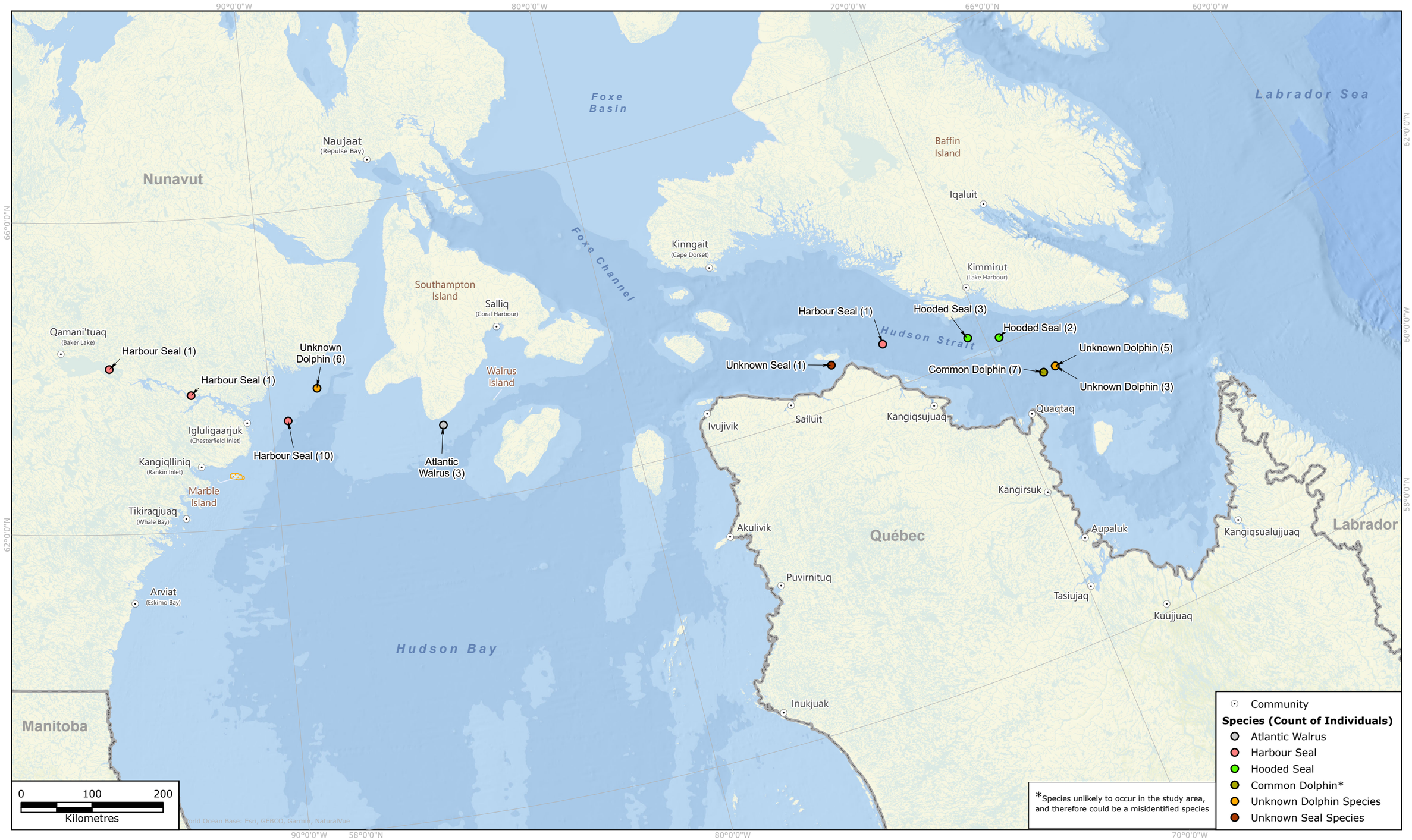
Incidental observations of marine mammals are sightings of animals while on the vessel, but outside of the dedicated MMSO survey time (i.e., "off-effort" sightings). There were 14 incidental observations of 43 animals during 2024 (Table 3.2-3; Figure 3.2-4). Marine mammals were observed incidentally between July and October 2024.

TABLE 3.2-3 INCIDENTAL OBSERVATIONS OF MARINE MAMMALS, JULY TO OCTOBER 2024

Month	Species Observed	Number of Sightings	Number of Animals Observed
July	Harbour seal	2	11
	Hooded seal	2	5
	Unknown dolphin	1	6
August	Harbour seal	2	2
	Unknown dolphin	2	8
September	Common dolphin[a]	1	7
	Unknown seal	1	1
October	Atlantic walrus	3	3
Total		**14**	**43**

Note:
[a] Species is unlikely to occur in the study area and could therefore be a misidentified species

FIGURE 3.2-4 INCIDENTAL OBSERVATIONS OF MARINE MAMMALS, JULY TO OCTOBER 2024



ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-036-03

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:5,000,000 when printed at 11x17

3.2.2.3 SPECIES OBSERVED IN 2024

A summary of the marine mammal sightings by the MMSOs in 2024 is provided in the following subsections.

Atlantic Walrus

A total of three separate sightings of individual Atlantic walrus (*Odobenus rosmarus rosmarus*) were recorded in 2024. All three sightings of the Atlantic walrus were observed during the same survey transect within 10 minutes of each other on 3 October 2024; however, end times and coordinates for the survey were missing, so the sighting is considered an incidental observation. The three individuals were observed just south of Southampton Island (Figure 3.2-4). The animals were observed swimming in the opposite direction of the ship, passing the vessel 50 to 100 m away. One individual was identified as a male due to the presence of tusks, another as a female, and the third was identified as unknown. No additional information regarding this sighting was recorded.

Dolphin Species

A total of 7 groups of dolphins (approximately 27 animals) were recorded in 2024. On 1 July, a group of 6 dolphins was observed incidentally swimming between Southampton Island and Chesterfield Inlet (Figure 3.2-4). On 6 August, two separate groups of unidentified dolphin species were observed incidentally (one group of three individuals and one group of five individuals) at the same location within Hudson Strait. It is likely that these were the same animals recorded on two separate occasions.

On 20 August during a dedicated survey, a group of two common dolphins was recorded in Hudson Strait. On 6 September, another group of seven common dolphins was observed incidentally in Hudson Strait. It is unlikely that these were, in fact, common dolphins, as Hudson Strait is north of the range of common dolphins, and it is more likely that these sightings were of white-beaked dolphins (*Lagenorhynchus albirostris*).

On 30 September, two groups of white-sided dolphins were recorded during dedicated surveys, all of which were within Hudson Strait (Figures 3.2-2 and 3.2-3). During 2021, white-sided dolphins were also recorded incidentally on two occasions at the eastern edge of the Regional Study Area, east of Hudson Strait. It is possible that these, as well as the sightings in 2024, were, in fact, white-beaked dolphins but were misidentified. This is because white-sided dolphins are generally observed further south and are similar in appearance to the white-beaked dolphin, which makes it difficult to tell them apart. This is the first time MMSOs recorded common dolphins and the second time they recorded white-sided dolphins.

The majority of the dolphin sightings were not identified to the species level but were likely groups of white-beaked dolphins, as this species was observed in this general area in 2020 and 2021, and because this is the only dolphin species that has been observed this far north. Dolphins are a rare sighting in the Arctic, and this is the third time they have been recorded during MMSO surveys for the Project. The first time they were observed was in 2020, when groups of 15 dolphins were observed in Hudson Strait at the eastern edge of the Project Regional Study Area during August and September. Over the last 15 years, there have been occasional sightings of white-beaked dolphins in the Arctic, including around Baffin Island (Reinhart et al. 2014).

Seals

A total of 13 separate sightings of seals were recorded in 2024: 6 separate occasions during dedicated marine mammal surveys (Figure 3.2-3) and 7 separate incidental sightings (Figure 3.2-4). During dedicated surveys, a harp seal was observed on one occasion south of Coats Island, one harbour seal was observed in the Hudson Strait, and there were four separate sightings of unknown seal species—near Marble Island (one sighting) and near Chesterfield Inlet (three sightings). Of the unknown seal observations, suspected species include harp seal and harbour seal. Seals were observed in July and October during dedicated surveys (six separate sightings of one individual each; Table 3.2-2).

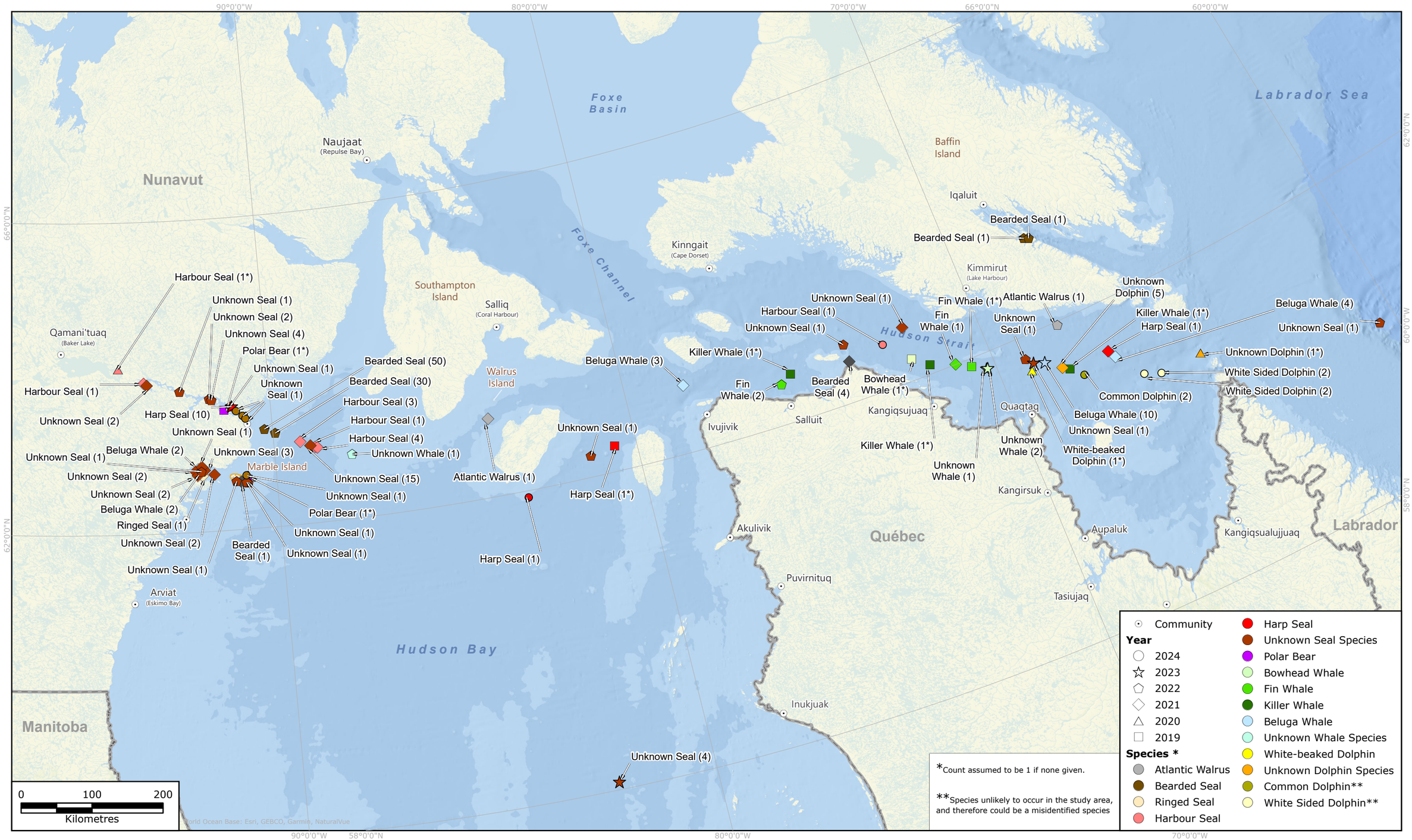
Seals were also observed incidentally (i.e., off-effort) on an additional seven occasions in 2024 (Figure 3.2-4). Two separate sightings of hooded seal occurred in Hudson Strait in July (five individuals in total). Harbour seals were observed on 2 separate occasions in Hudson Strait and near Chesterfield Inlet in July (11 individuals total), and on 2 separate occasions in August (2 individuals total) north of Christopher Island and between Chesterfield Inlet and Helicopter Island. One sighting of an unknown seal species (one individual) occurred south of Charles Island in September, which was suspected to be a harp seal (Figure 3.2-4; Table 3.2-3).

The largest group of seals observed was of approximately 10 harbour seals, observed on 19 July near Chesterfield Inlet.

3.2.3 MARINE MAMMAL OBSERVATIONS 2017 TO 2024

Marine mammals have been observed during surveys (Figure 3.2-5) and incidentally (Figure 3.2-6) between 2017 and 2024. A total of six different species were identified along the shipping route in 2024, plus an additional two unknown species (unknown dolphin species and unknown seal species). This is a similar number to previous years, apart from 2021, when more species were observed. Six species were reported in 2023, 7 in 2022, 13 in 2021, 4 in 2020, 5 in 2019, and none in 2017 and 2018. However, marine mammals were observed incidentally in 2017 (Table 3.2-4). From 2017 to 2022, the number of marine mammal individuals observed increased (Figure 3.2-7) before dropping in numbers in 2023, with 2024 presenting the lowest number of individuals observed since 2020. The diversity of species (i.e., number of different species observed) has fluctuated (Figure 3.2-7), with the highest diversity observed in 2021 (13 species, excluding unknowns) and 2022 (7 species, excluding unknowns). Species observed in previous years are summarized in Table 3.2-4.

FIGURE 3.2-5 MARINE MAMMALS OBSERVED DURING SURVEYS, 2019 TO 2024



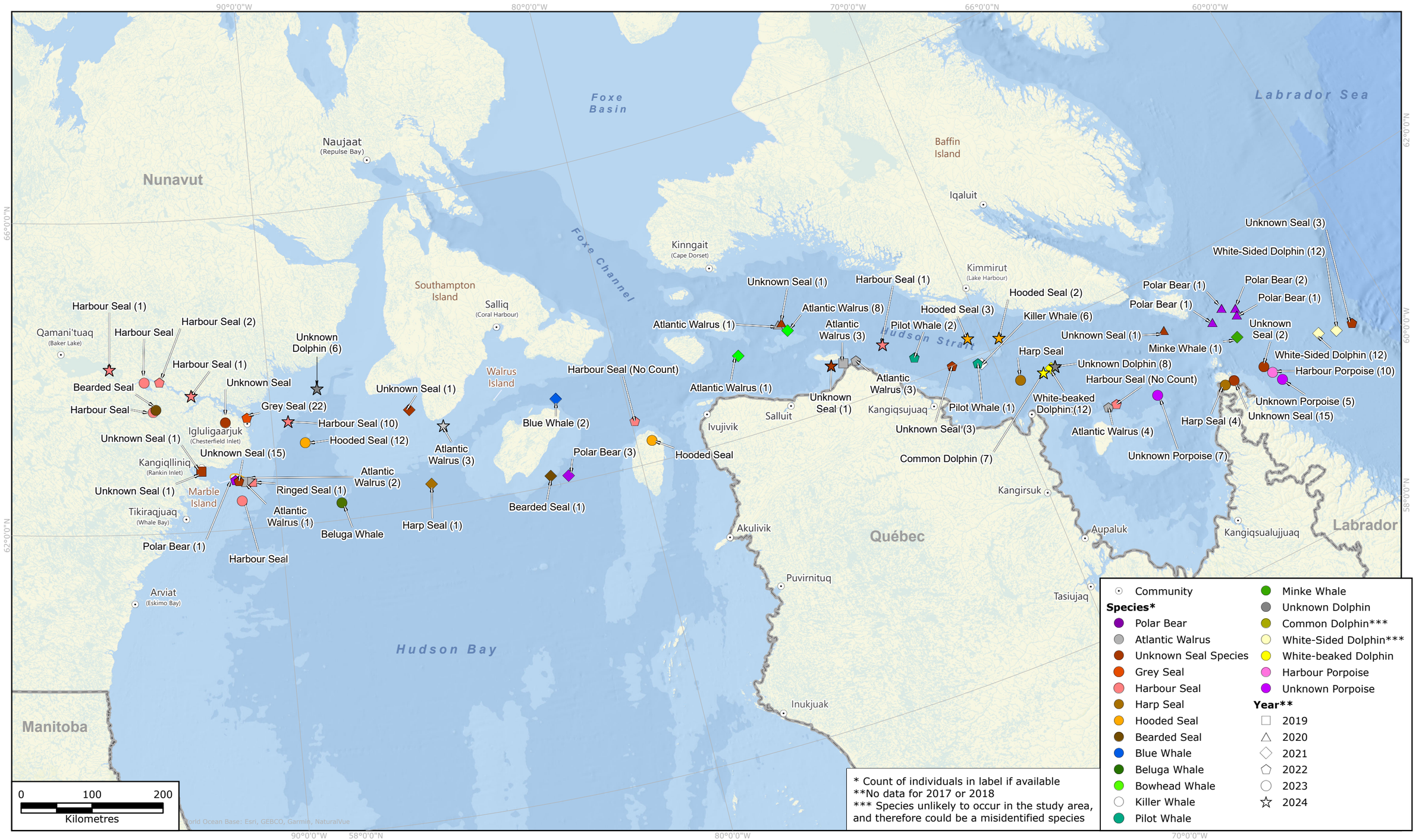
ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-036-04

DATE: 03/04/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:5,000,000 when printed at 11x17

FIGURE 3.2-6 INCIDENTAL OBSERVATIONS OF MARINE MAMMALS, 2019 TO 2024



ERM

CLIENT: Agnico Eagle
GIS NUMBER: AEG-23-036-05

DATE: 03/03/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:5,000,000 when printed at 11x17

FIGURE 3.2-7 NUMBER OF MARINE MAMMAL INDIVIDUALS AND NUMBER OF SPECIES OBSERVED, 2017 TO 2024

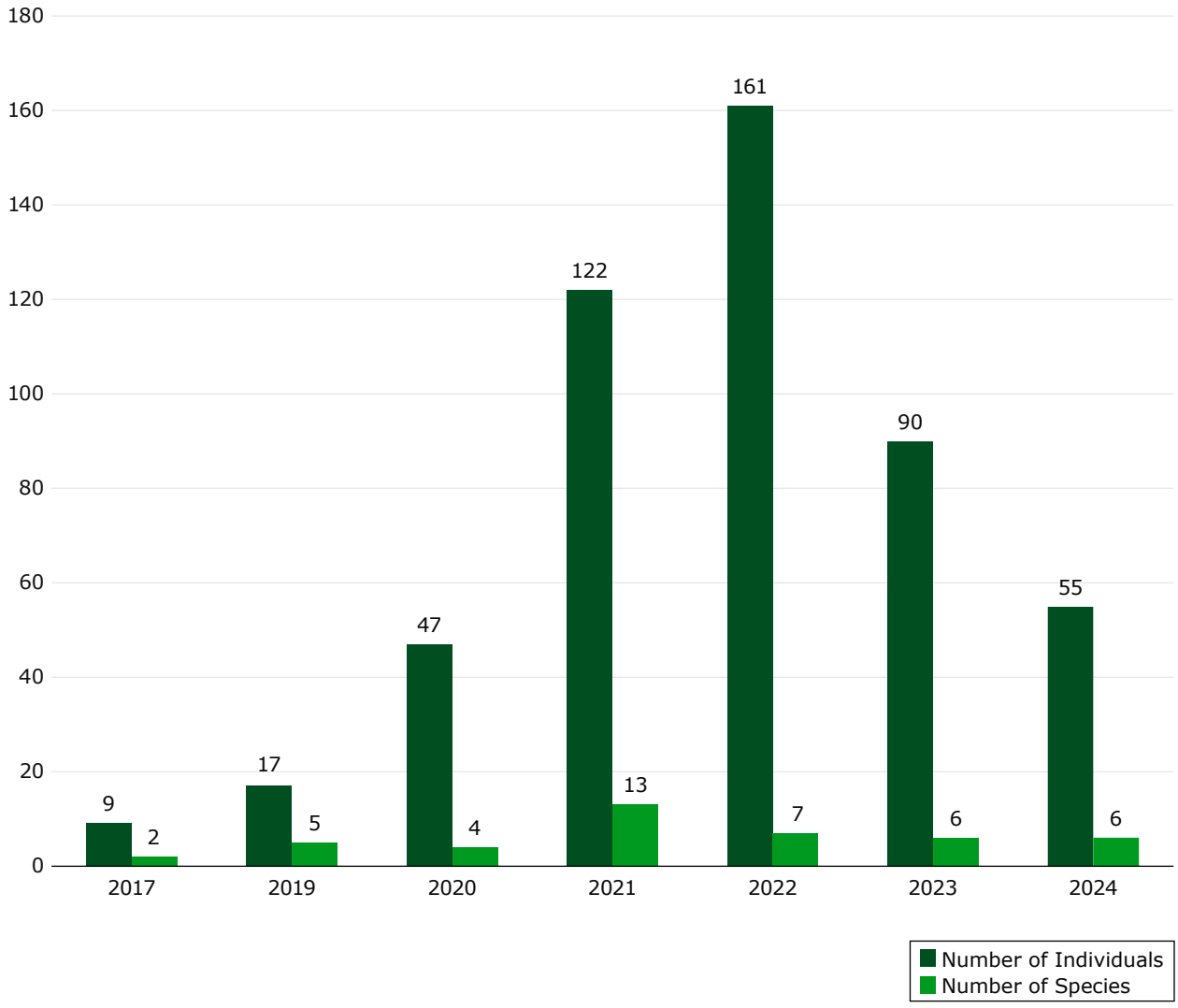


TABLE 3.2-4 NUMBER[a] OF MARINE MAMMALS OBSERVED DURING SURVEYS AND INCIDENTALLY[b] BETWEEN 2017 AND 2024[c]

Species	2017	2019	2020	2021	2022	2023	2024	Total
Atlantic walrus	6	-	4	10	8	-	3	31
Bearded seal	-	-	-	6	82	1	-	89
Beluga whale	-	-	-	11	-	11	-	22
Blue whale[d,e]	-	-	-	2	-	-	-	2
Bowhead whale	-	3	-	-	-	-	-	3
Common dolphin[f]	-	-	-	-	-	-	9	9
Fin whale[d]	-	1	-	1	2	-	-	4
Grey seal	-	-	-	-	22	-	-	22
Harbour porpoise	-	-	-	-	-	10	-	10
Harbour seal	-	-	1	9	5	3	14	32
Harp seal	-	4	-	2	-	15	1	22
Hooded seal	-	-	-	-	-	13	5	18
Killer whale	-	8	-	6	-	-	-	14
Long-finned pilot whale	-	-	-	-	3	-	-	3
Minke whale	-	-	-	1	-	-	-	1
Polar bear[d]	-	1	8	3	1	-	-	13
Ringed seal	1	-	-	1	-	-	-	2
White-beaked dolphin	-	-	15	12	-	-	-	27
White-sided dolphin[f]	-	-	-	24	-	-	4	28
Unknown dolphin species	-	-	15	5	-	-	14	34
Unknown porpoise	-	-	-	-	-	12	-	12
Unknown seal	2	-	4	29	37	23	5	100
Unknown whale	-	-	-	-	1	2	-	3
Total	**9**	**17**	**47**	**122**	**161**	**90**	**55**	**501**

Notes:
Dashes (-) indicate none observed.
[a] Numbers are given as individuals observed, not number of separate sightings.
[b] Marine mammals observed both during dedicated surveys and off-effort are included in the table. Note that all sightings in 2017 were incidental, all sightings in 2019 were during dedicated surveys, and all sightings from 2020 through 2024 were both during surveys and incidental.
[c] No sightings were recorded in 2018.
[d] Species listed on Schedule 1 of the federal *Species at Risk Act* (2002).
[e] It is possible that the blue whale sighting was not identified properly while on the vessel, as it would be a rare occurrence for a blue whale to be recorded in Hudson Bay.
[f] Species is unlikely to occur in the study area and could therefore be a misidentified species.

3.3 SEABIRD OBSERVATIONS

3.3.1 SURVEY EFFORT

Since 2018, seabird surveys have been completed every year. In 2024, dedicated vessel crew members completed seabird surveys between 26 June and 19 November between Hudson Straight and Rankin Inlet/Helicopter Island onboard various Groupe Desgagnés and Woodward vessels during 20 of the 23 trips. A total of 364 seabird surveys were completed in 2024 (159 moving vessel transects and 205 stationary surveys); however, 131 surveys (62 moving vessel surveys and 69 stationary surveys) were excluded from the analysis of survey effort due to missing start and/or end times, or missing start and/or end latitudes or longitudes (Table 3.3-1). Therefore, a total of 233 seabird surveys (97 while the vessel was moving, and 136 while the vessel was stationary) were completed in 2024, with sufficient survey effort data. Appendix E summarizes all 2024 seabird survey intervals and Appendix F summarizes all 2024 seabird sightings. Seabirds observed during moving surveys with missing spatial effort or missing temporal effort on stationary surveys were removed from the analysis but reported in species and survey summaries.

TABLE 3.3-1 TEMPORAL AND SPATIAL EFFORT FOR MOVING VESSEL SEABIRD SURVEYS, 2018 TO 2024

Year	Temporal Effort			Spatial Effort		
	Effort (Hours)	Number of Transects with Effort	Number of Transects with No Effort[b]	Effort (km)	Number of Transects with Effort	Number of Transects with No Effort[d]
2018	139.9	72	7	407.1	33	46
2019	119.9	87	4	2,290.8	79	12
2020	111.9	84	14	3,614.8	79	20
2021	173.9	173	24	7,176.7	170	27
2022	79.6	157	71	9,839.8	140	88
2023[a]	58.3	123	5	2,643.3	109	28
2024[a]	84.7	129	30	1,732.9	97[c]	62

Notes:
km = kilometre
[a] Fewer vessels travelled to Agnico Eagle in 2023 and 2024 (23 vessels in 2023 and 2024, compared to 27 vessels in 2022 and 29 in 2021), partially accounting for the lower survey effort.
[b] Surveys without distance effort did not have location coordinates recorded at the start and/or end of the surveys.
[c] Total number of transects that had both spatial and temporal effort recorded (i.e., the 30 transects with missing temporal effort also had missing spatial effort).
[d] Surveys without temporal effort did not have the start and/or end times recorded.

Fifteen of the moving vessel transects were completed between Helicopter Island and Baker Lake, 13 of which had spatial and temporal survey effort data recorded. Results from these surveys are presented here and summarized in Section 3.4-1.

Of the 97 moving vessel transects with known temporal and spatial effort, a total of 1,733 km were surveyed over 85 hours, with an average of 0.66 hours per survey (Table 3.3-1; Figure 3.3-1). An additional 69 hours were completed during 136 stationary surveys while vessels were anchored (Table 3.3-2). The duration of stationary surveys ranged from 0.43 hours (approximately 25 minutes) to 1.3 hours; therefore, some of the surveys appear to have been conducted, following the six 5-minute survey interval method for moving transect surveys.

TABLE 3.3-2 TEMPORAL EFFORT FOR STATIONARY SEABIRD SURVEYS, 2018 TO 2024

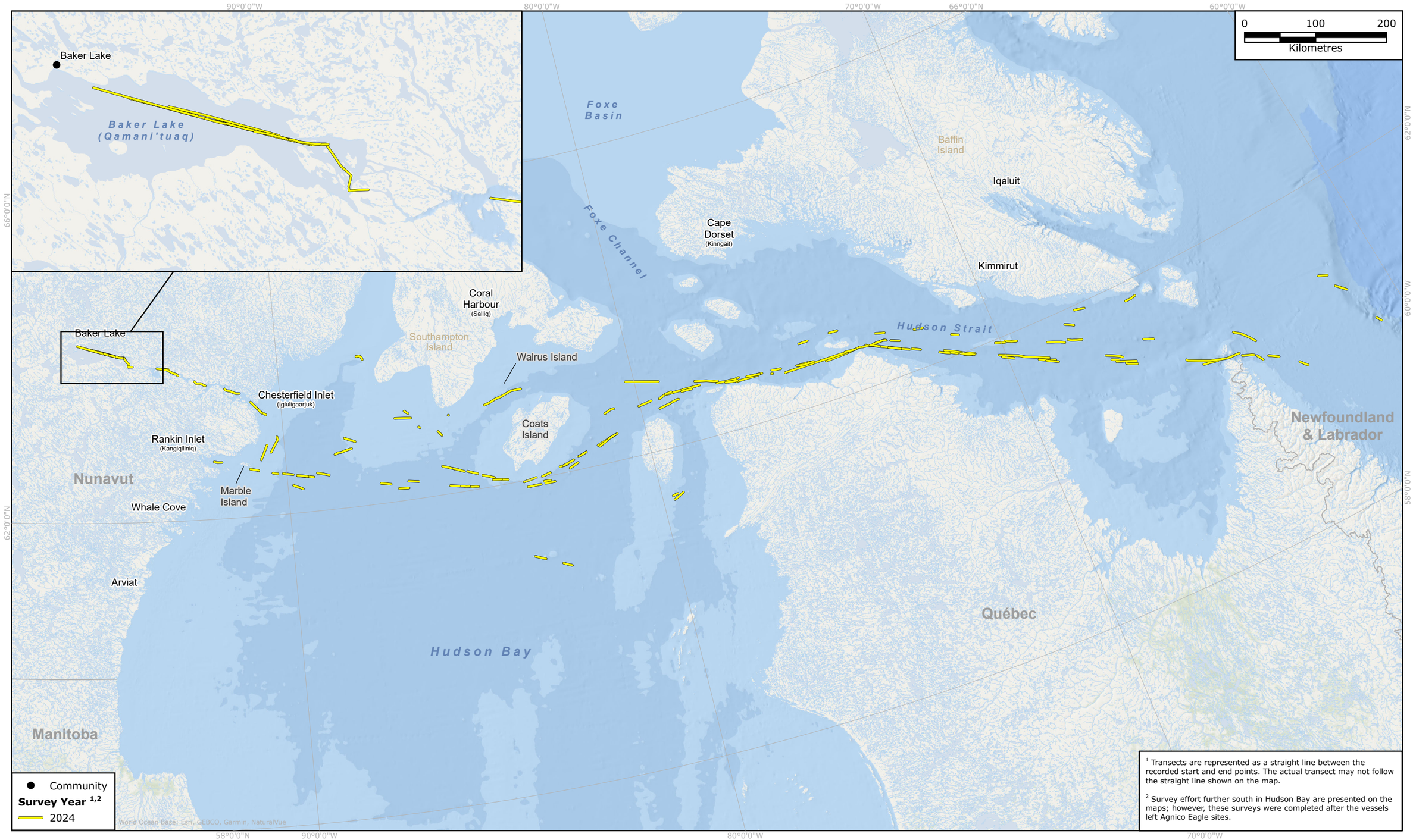
Year	Effort (Hours)	Number of Points with Effort	Number of Points with No Effort[b]
2018	18.8	5[a]	0
2019	19.8	15	27
2020	152.0	104	40
2021	152.4	111	3
2022	14.9	29	112
2023	82.6	122	43
2024	69.0	136	69

Notes:
[a] Surveys in 2018 did not include locations; therefore, these observations were not used in analysis.
[b] Surveys with No Effort did not have start and/or end times recorded.

Spatial effort for moving surveys increased with each survey year between 2018 and 2022, but in 2023 and 2024 spatial effort appears to decrease. Fewer vessels travelling to Agnico Eagle in 2023 and 2024 (23 vessels in 2023 and 2024, compared to 27 in 2022) and the shift in survey methods, based on requests from Environment and Climate Change Canada are plausible contributors to lower spatial effort reporting in 2023 and 2024. There was an emphasis in 2023 and 2024 to ensure seabird surveys were completed following the ECSAS methods (see Section 2.3.1), which required MMSOs to shift their methods from completing a 1-hour continuous survey to the ECSAS methods, where each survey consisted of six 5-minute intervals (Section 2.3.1). This change in survey method may have resulted in shorter surveys (approximately 30 minutes per survey, compared to 1 hour or more), and therefore less spatial effort. Additionally, in 2024, fewer survey forms had complete spatial effort recorded (62% of surveys in 2024 and 79% in 2023). This change in survey methodology, along with fewer vessels in 2024 and a decrease in spatial and temporal effort reporting, could explain the lower spatial and temporal survey effort observed in 2023 and 2024 (Table 3.3-1).

The number of stationary vessel surveys was similar to recent years; however, temporal effort has been variable over the course of data collection. Temporal effort in 2024 was approximately 69 hours, compared to 83 hours in 2023, 15 hours in 2022, 152 hours in both 2021 and 2020, 20 hours in 2019, and 19 hours in 2018 (Table 3.3-2). Temporal effort was successfully recorded for 66% of the stationary surveys in 2024, lower than in 2023 (74%), and higher than in 2022 (21%).

FIGURE 3.3-1 MOVING TRANSECT SEABIRD SURVEY EFFORT, 2024



[1] Transects are represented as a straight line between the recorded start and end points. The actual transect may not follow the straight line shown on the map.

[2] Survey effort further south in Hudson Bay are presented on the maps; however, these surveys were completed after the vessels left Agnico Eagle sites.

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3.3.1.1 ENVIRONMENTAL VARIABLES AND WEATHER CONDITIONS DURING SURVEYS

Environmental variables that have the potential to impact seabird detection were plotted for visual assessments of trends in detection (Figure 3.3-2). Detections varied across weather conditions and years without clear trends in most cases; this indicates that detectability was not greatly affected by variable weather conditions. Detections appear lower in some severe adverse weather, including snow, gale-force winds, and very rough sea states (Figure 3.3-2). However, relatively few surveys were conducted during these weather conditions, making trends difficult to determine. Models were created without covariates like weather variables due to low sample sizes restricting model fit. However, visual assessment indicates this omission is not likely impacting modelling results.

3.3.2 MOVING VESSEL SEABIRD OBSERVATIONS 2018 TO 2024

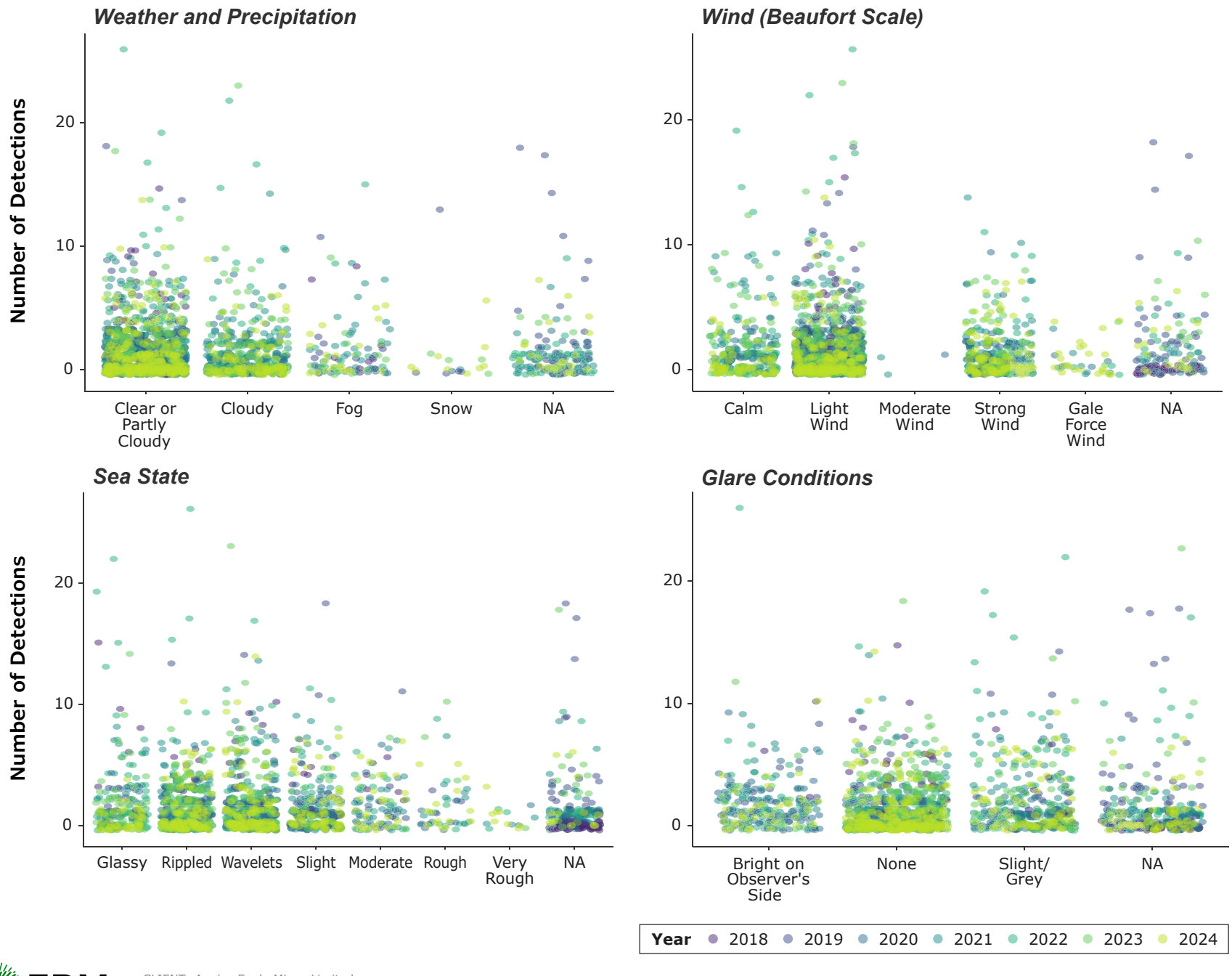
Analyses of moving vessel survey data included only on-transect sightings and did not use re-sightings of the same birds. Table 3.3-3 summarizes sample sizes for surveys (transects), detections (groups), and individuals (total number of birds). Moving vessel transect sample sizes include only surveys with recorded spatial and temporal effort.

TABLE 3.3-3 SEABIRD SURVEY SAMPLE SIZES AND DETECTION AVERAGES FOR MOVING VESSEL SURVEYS, 2018 TO 2024

Year	Moving Vessel Surveys				
	Transects	Detections	Individuals	Average Individual/ Detection	Average Detection/ Transect
2018	33	150	574	3.83	4.55
2019	56	176	837	4.76	3.14
2020	81	122	677	5.55	1.51
2021	165	460	2,649	5.76	2.79
2022	140	473	1,761	3.72	3.38
2023	109	219	783	3.58	2.01
2024	96	125	498	3.98	1.30

The number of seabird detections (groups) during moving vessel surveys in 2024 was lower than in previous years (Table 3.3-3). The average detection rate per transect has been declining since 2022 (3.38 detections per survey in 2022, 2.01 in 2023, and 1.30 in 2024). In comparison, the average number of individuals per detection increased to 3.98 in 2024, compared to 3.58 in 2023, representing an increase of 11% (Table 3.3-3). This suggests that, on average, larger groups of birds but a smaller number of separate groups were observed in 2024 during moving vessel surveys, as compared to previous years. This may be influenced by a greater number of gregarious species being observed in 2024, including the glaucous gull (*Larus hyperboreus*) and razorbill (*Alca torda*), and a decrease in birds that have solitary breeding and/or foraging life history traits, including the northern fulmar (*Fulmarus glacialis*) and Wilson's storm-petrel (*Oceanites oceanicus*; Table 3.3-4).

FIGURE 3.3-2 WEATHER VARIABLES SUMMARIZED BY SEABIRD DETECTIONS



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TABLE 3.3-4 BIRD SPECIES RECORDED DURING MOVING VESSEL SURVEYS, 2018 TO 2024

Species	Scientific Name	2018	2019	2020	2021	2022	2023	2024	Total
Arctic tern	*Sterna paradisaea*	0	0	0	5	0	0	0	5
Bald eagle	*Haliaeetus leucocephalus*	0	2	0	1	1	1	0	5
Black-legged kittiwake	*Rissa tridactyla*	0	12	3	0	0	10	0	25
Black guillemot	*Cepphus grylle*	137	14	0	6	61	6	1	225
Black scoter	*Melanitta americana*	0	4	2	4	2	0	0	12
Cackling / Canada goose	*Branta hutchinsii/canadensis*	0	100	0	15	8	87	0	210
Common eider	*Somateria mollissima*	4	12	81	76	5	11	3	192
Common loon	*Gavia immer*	1	32	2	10	5	5	6	61
Common murre	*Uria aalge*	0	40	3	538	161	2	47	791
Dovekie	*Alle alle*	76	27	19	87	41	15	29	294
Glaucous gull	*Larus hyperboreus*	91	84	33	77	15	26	56	382
Great cormorant	*Phalacrocorax carbo*	0	0	8	1	2	0	0	11
Great shearwater	*Puffinus gravis*	0	0	1	0	1	0	4	6
Great skua	*Stercorarius skua*	0	0	48	1	2	1	40	92
Greater scaup	*Aythya marila*	0	0	0	0	0	0	1	1
Harlequin duck[a]	*Histrionicus histrionicus*	10	0	0	0	0	0	0	10
Herring gull	*Larus argentatus*	0	288	73	111	178	515	29	1,194
Iceland gull	*Larus glaucoides*	78	0	4	30	3	8	3	126
Ivory gull[b]	*Pagophila eburnea*	2	0	0	0	0	0	0	2
Leach's storm-petrel	*Oceanodroma leucorhoa*	0	8	0	16	5	1	0	30
Least sandpiper	*Calidris minutilla*	0	5	1	0	0	0	0	6
Long-tailed duck	*Clangula hyemalis*	3	4	0	14	7	0	12	40
Long-tailed jaeger	*Stercorarius longicaudus*	1	6	0	1	5	0	2	15
Manx shearwater	*Puffinus puffinus*	0	3	0	122	6	0	0	131
Northern fulmar	*Fulmarus glacialis*	43	153	300	391	678	607	150	2,322
Parasitic jaeger	*Stercorarius parasiticus*	0	0	14	25	7	24	1	71
Peregrine falcon	*Falco peregrinus*	0	3	1	3	0	0	0	7
Pomarine jaeger	*Stercorarius pomarinus*	1	7	48	1	24	12	7	100

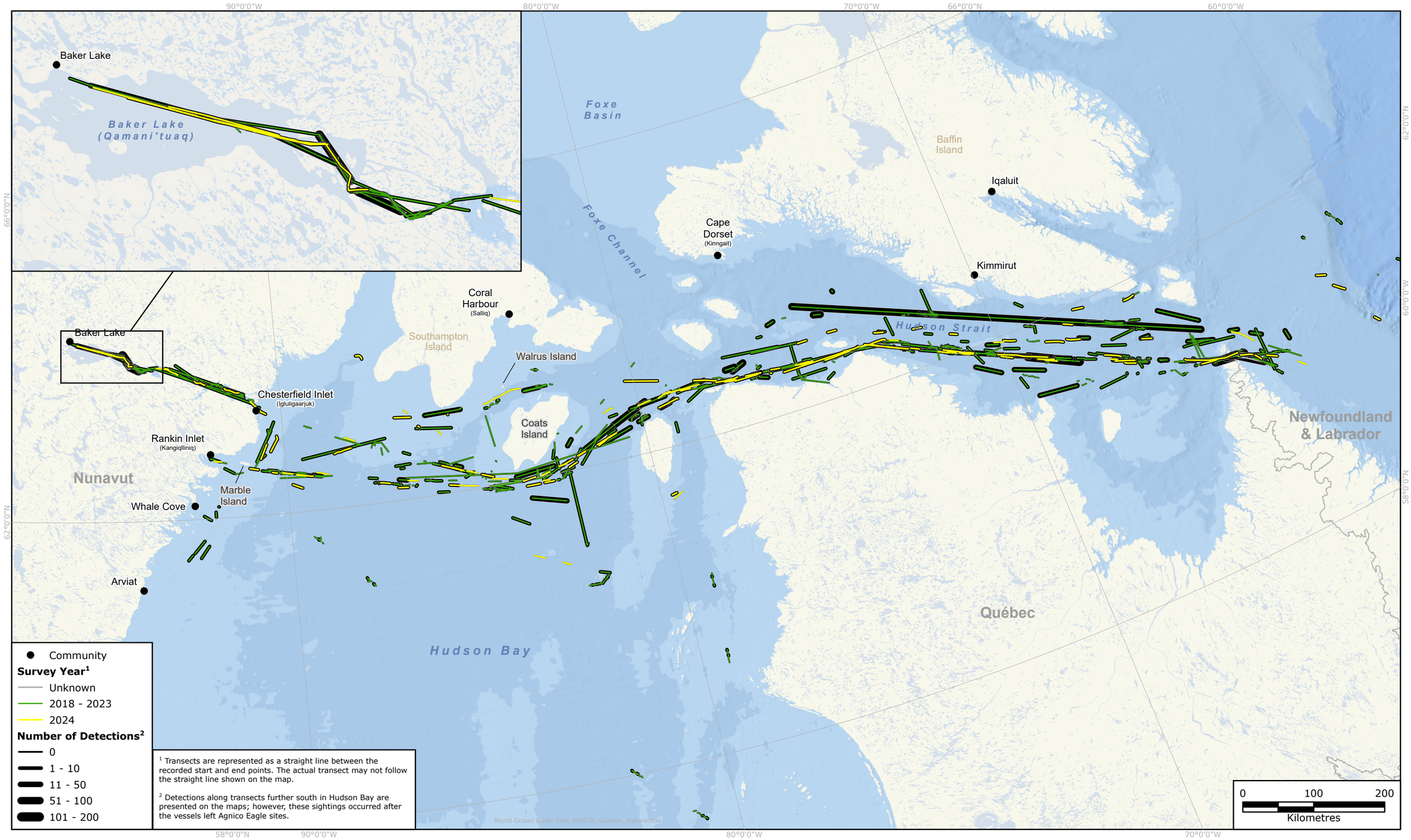
Species	Scientific Name	2018	2019	2020	2021	2022	2023	2024	Total
Razorbill	*Alca torda*	0	0	2	63	235	184	726	1,210
Red-breasted merganser	*Mergus serrator*	0	0	2	5	4	1	0	12
Ruddy turnstone	*Arenaria interpres*	0	1	0	0	0	2	0	3
Sabine's gull	*Xema sabini*	3	1	5	0	0	0	20	29
Snow goose	*Chen caerulescens*	0	542	10	1	32	0	0	585
Snowy owl	*Bubo scandiacus*	0	1	0	7	0	0	2	10
Sooty shearwater	*Ardenna grisea*	0	0	2	9	15	0	0	26
Surf scoter	*Melanitta perspicillata*	0	0	0	0	0	7	4	11
Thayer's gull	*Larus thayeri*	0	5	1	0	0	0	1	7
Thick-billed murre	*Uria lomvia*	141	228	90	800	84	0	1	1,344
White-winged scoter	*Melanitta deglandi*	0	0	5	3	0	0	0	8
Wilson's storm-petrel	*Oceanites oceanicus*	23	8	0	23	4	179	0	237
Unknown bird	NA	0	87	0	101	2	15	15	220
Unknown duck	NA	27	76	3	73	40	0	39	258
Unknown falcon	NA	0	1	2	2	0	0	0	5
Unknown goose	NA	0	0	0	6	1	43	30	80
Unknown gull	NA	34	48	152	108	234	0	85	661
Unknown hawk	NA	0	2	0	1	0	79	2	84
Unknown jaeger	NA	0	3	0	0	0	143	4	150
Unknown murre	NA	0	0	43	113	460	0	19	635
Unknown sandpiper	NA	6	0	0	0	0	0	0	6
Total		**681**	**1,807**	**958**	**2,850**	**2,328**	**1,984**	**1,339**	**11,947**

Notes:
[a] Species listed as Special Concern on Schedule 1 of the federal *Species at Risk Act* (2002).
[b] Species listed as Endangered on Schedule 1 of the federal *Species at Risk Act* (2002).

3.3.2.1 SEABIRD SPECIES OBSERVED

The total number of seabird sightings in 2024 (including surveys without effort recorded and incidentals) were lower than in the previous 3 years, with a total of 1,339 individual birds (22 different species and an additional 7 unknown species; Table 3.3-4). Across all 7 years of survey effort between 2018 and 2024, 11,947 individual birds belonging to 39 known species and 9 unknown species have been recorded during moving vessel surveys (Table 3.3-4; Figure 3.3-3).

FIGURE 3.3-3 SURVEY DETECTIONS DURING MOVING VESSEL SURVEYS, 2018 TO 2024



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The most common species recorded in 2024 were razorbill (n = 726) and Northern fulmar (n = 150). Razorbill and Northern fulmar continue to be two of the most common species recorded, which has been consistent across all survey years. Razorbill makes up approximately 54% of observations in 2024. Greater scaup (*Aythya marila*) was recorded for the first time during moving surveys in 2024, with just one observation of the species. This species was also recorded during stationary surveys in 2023 (Section 3.3.3). The total number of individuals from unidentified species in 2024 was notably lower than in previous years (194 in 2024, compared to 280 in 2023, 737 in 2022, and 404 in 2021); therefore, surveyors may be improving seabird identification skills.

3.3.2.2 DISTANCE ANALYSIS: SEABIRD DETECTION AND DENSITY ESTIMATES

Distance analysis was conducted for moving vessel surveys for each year between 2019 and 2024 and for all years combined (2018 to 2024). No distance model was fit independently for 2018 due to a low number of surveys. Distance analysis accounts for the fact that animals are more likely to be seen when they are closer to the observer, and the analysis involves two steps, namely model fitting for detectability curve and density estimates, as described below.

Model fitting was mostly consistent across years, indicating that the detectability curve was the same between years of the study (according to AIC rankings and detectability estimates; Appendix G). The best model fits across years were hazard rate functions, which means that detection remains high at closer distances (i.e., birds are just as likely to be detected between 0 and 100 m of an observer) but drops off steeply as distance increases beyond 100 m (Table 3.3-5).

TABLE 3.3-5 TOP AKAIKE'S INFORMATION CRITERION-RATED DISTANCE MODELS, MOVING VESSEL SURVEYS, 2019 TO 2024

Model Key and Adjustment	Detection Estimate[a]	Detection SE[b]	ΔAIC[c]
Hazard rate (all adjustments)	0.437	0.014	0.000
Uniform with cosine adjustment	0.429	0.166	6.331
Uniform with polynomial adjustment	0.447	0.025	23.16

Notes:
Δ = difference; AIC = Akaike's Information Criterion; SE = Standard Error
[a] The detection estimate represents the average probability of detection. A higher detection estimate indicates that there is a greater probability of detecting an object at a given distance.
[b] Standard error is a measure of variability where values indicate the statistical accuracy of the detection estimate.
[c] Values provide relative rankings between models fit with the same data, where the lowest AIC-ranked model is considered the best fit to the data.

Detectability estimates (i.e., the probability of detecting a bird within 300 m of the observer) were also consistent between years, ranging from a low of 0.317 in 2020 to a high of 0.497 in 2022, with 2024 estimates consistent with 2021 (0.424 detection estimate in 2024, 0.432 in 2021; Table 3.3-6). A higher detection estimate indicates that seabirds are more likely to be seen and recorded, even if

they are a greater distance away from the ship/observer. The detectability estimate itself is not a key result, but consistency in estimates indicates that data are similar across years.

The second part of distance sampling is to estimate the density of seabirds, accounting for the lower detectability with greater distance. Predicted seabird densities varied across years, with 2024 being slightly less than the median for predicted seabird density (1.026 birds per km^2 in 2024) amongst all years (1.178 to 4.210 birds per km^2 and median value of 1.243; Table 3.3-6). The differences in estimated density reflect variability in the effort and number of birds detected between years.

TABLE 3.3-6 DETECTION AND DENSITY ESTIMATES BY YEAR (2019 TO 2024) DURING MOVING VESSEL SURVEYS

Year	Detection Estimate[a]	Detections 95% CIs[b]	Density (birds/km^2)	Density 95% CIs[a]
All Years	0.437	0.410–0.464	1.401	1.316–0.491
2019	0.322	0.256–0.388	1.866	0.991–3.513
2020	0.317	0.239–0.395	1.178	0.663–2.093
2021	0.432	0.391–0.473	1.243	0.527–2.928
2022	0.497	0.441–0.553	1.181	1.055–1.323
2023	0.441	0.358–0.524	4.210	3.486–5.086
2024	0.424	0.336–0.512	1.026	0.833–1.264

% = percent; CI = Confidence Interval; km^2 = square kilometre
[a] The detection estimate represents the average probability of detection. A higher detection estimate indicates that there is a greater probability of detecting an object at a given distance.
[b] Values indicate the range in which 95% of the samples fall.

Variability in the number of birds detected is driven by several elements, including random occurrence of large flocks (e.g., 100 to 200 birds), observer experience, local habitat variation near islands or channels, and time of day. These are differences in the number of birds encountered/recorded, rather than true differences in regional bird abundance. Therefore, the density estimate for all years of data together is considered the most accurate (Table 3.3-6).

3.3.3 STATIONARY VESSEL SEABIRD OBSERVATIONS 2019 TO 2024

Analyses of stationary survey data included only on-effort sightings and did not use re-sightings of the same birds. Table 3.3-7 summarizes sample sizes for stationary vessel surveys (points), detections (groups), and individuals (total number of birds). Stationary vessel survey sample sizes include only those with recorded temporal effort.

The number of seabird detections during stationary vessel surveys in 2024 was lower than previous years (n = 35 in 2024; Table 3.3-7). The number of seabird detections per survey in 2024 was 0.26, and this value has been declining since 2022 (2.17 detections per survey in 2022; 0.87 in 2023). In 2024, the average number of individuals per detection was 4.34, compared to 5.32 in 2023, representing a decrease of 23% (Table 3.3-7). The average number of individuals

per detection has decreased since a high of 8.94 in 2021 (Table 3.3-7). This indicates that seabirds have been recorded in smaller group sizes since 2021 and that both fewer seabirds and smaller groups of birds are being observed during stationary surveys. This may, in part, be due to decreases in detections of gregarious species such as herring gulls and snow geese (Table 3.3-8). The observed decrease in the average detection also aligns with when the survey methods changed to six 5-minute interval surveys, which suggests that this survey method may result in lower detection rates.

TABLE 3.3-7 SEABIRD SURVEY SAMPLE SIZES AND DETECTION AVERAGES DURING STATIONARY SURVEYS, 2018 TO 2024

Year	Stationary Vessel Surveys				
	Points	Detections	Individuals	Average Individual/ Detection	Average Detection/ Point
2018	5	0[a]	0[a]	-	-
2019	14	17	19	1.12	1.21
2020	90	81	318	3.93	0.90
2021	111	141	1,261	8.94	1.27
2022	29	63	263	4.17	2.17
2023	122	106	564	5.32	0.87
2024	136	35	152	4.34	0.26

Note:
Dashes (-) indicate none observed.
[a] Locations were not given for 2018 stationary vessel data. Therefore, these observations were not used in analysis.

TABLE 3.3-8 BIRD SPECIES RECORDED DURING STATIONARY SEABIRD SURVEYS, 2019 TO 2024

Species	Scientific Name	2019	2020	2021	2022	2023	2024	Total
American crow	*Corvus brachyrhynchos*	0	1	0	0	3	0	4
Arctic tern	*Sterna paradisaea*	0	1	0	0	0	0	1
Black-legged kittiwake	*Rissa tridactyla*	0	8	0	0	0	0	8
Black guillemot	*Cepphus grylle*	1	4	17	48	0	4	74
Black scoter	*Melanitta Americana*	2	0	9	8	0	0	19
Cackling/Canada goose	*Branta hutchinsii/ canadensis*	0	25	447	90	181	17	760
Common eider	*Somateria mollissima*	0	8	3	11	0	0	22
Common loon	*Gavia immer*	0	0	2	2	0	1	5

Species	Scientific Name	2019	2020	2021	2022	2023	2024	Total
Common murre	*Uria aalge*	0	0	20	2	0	5	27
Common raven	*Corvus corax*	0	0	0	0	0	14	14
Dovekie	*Alle alle*	0	0	0	17	0	0	17
Glaucous gull	*Larus hyperboreus*	4	18	6	16	0	0	44
Great cormorant	*Phalacrocorax carbo*	0	0	1	0	0	0	1
Great skua	*Stercorarius skua*	0	0	2	0	0	0	2
Greater scaup	*Aythya marila*	0	0	0	0	2	1	3
Herring gull	*Larus argentatus*	6	64	41	64	406	290	871
Iceland gull	*Larus glaucoides*	0	0	2	19	1	0	22
Leach’s storm-petrel	*Oceanodroma leucorhoa*	0	1	1	0	0	0	2
Long-tailed duck	*Clangula hyemalis*	0	0	0	2	0	0	2
Northern fulmar	*Fulmarus glacialis*	2	170	147	45	48	7	419
Parasitic jaeger	*Stercorarius parasiticus*	0	0	0	1	0	0	1
Peregrine falcon	*Falco peregrinus*	3	5	0	0	0	0	8
Pomarine jaeger	*Stercorarius pomarinus*	1	4	5	1	0	0	11
Razorbill	*Alca torda*	0	3	0	7	2	58	70
Red-breasted merganser	*Mergus serrator*	0	0	1	1	0	0	2
Sandhill crane	*Grus canadensis*	0	1	0	0	0	0	1
Snow goose	*Chen caerulescens*	0	176	419	182	117	0	894
Snowy owl	*Bubo scandiacus*	0	1	0	0	0	0	1
Thick-billed murre	*Uria lomvia*	0	17	0	3	0	0	20
White-winged scoter	*Melanitta deglandi*	0	2	0	0	0	0	2
Wilson’s storm-petrel	*Oceanites oceanicus*	0	0	2	0	0	1	3
Unknown bird	NA	1	0	35	0	2	9	47
Unknown duck	NA	0	0	48	23	160	75	306
Unknown falcon	NA	0	2	0	0	0	0	2
Unknown goose	NA	0	0	0	7	25	0	32
Unknown gull	NA	4	17	59	206	16	27	329
Unknown hawk	NA	0	0	1	0	0	0	1
Unknown jaeger	NA	0	0	0	0	12	5	17
Unknown murre	NA	0	6	0	9	35	0	50

Species	Scientific Name	2019	2020	2021	2022	2023	2024	Total
Unknown ptarmigan	NA	0	0	0	0	0	16	16
Unknown sandpiper	NA	0	2	0	0	0	0	2
Total		**24**	**536**	**1,268**	**764**	**1,010**	**530**	**4,132**

Note:
NA = not applicable

3.3.3.1 SEABIRD SPECIES OBSERVED

A total of 4,132 individuals from 31 known species and 10 unknown species have been recorded during stationary vessel surveys between 2019 and 2024 (Table 3.3-8, Figure 3.3-4). Nearly 31% of records were from 2021 alone (n = 1,268 individuals), while 2023 made up an additional 24% of observations (n = 1,010). In 2024, 530 individuals were recorded. Among the 530 individuals in 2024, 10 species were identified, and 5 were unknown species. The most common species recorded in 2024 during stationary surveys were herring gull (*Larus argentatus*;n = 290), unknown duck (n = 75), and razorbill (n = 58). Similarly to the moving vessel observations, records of razorbill increased in 2024 (n = 58). Conversely, there were no observations of snow geese (*Chen caerulescens*) in 2024, which contrasts with previous years when more than 100 snow geese had been recorded yearly since 2021 (Table 3.3-8).

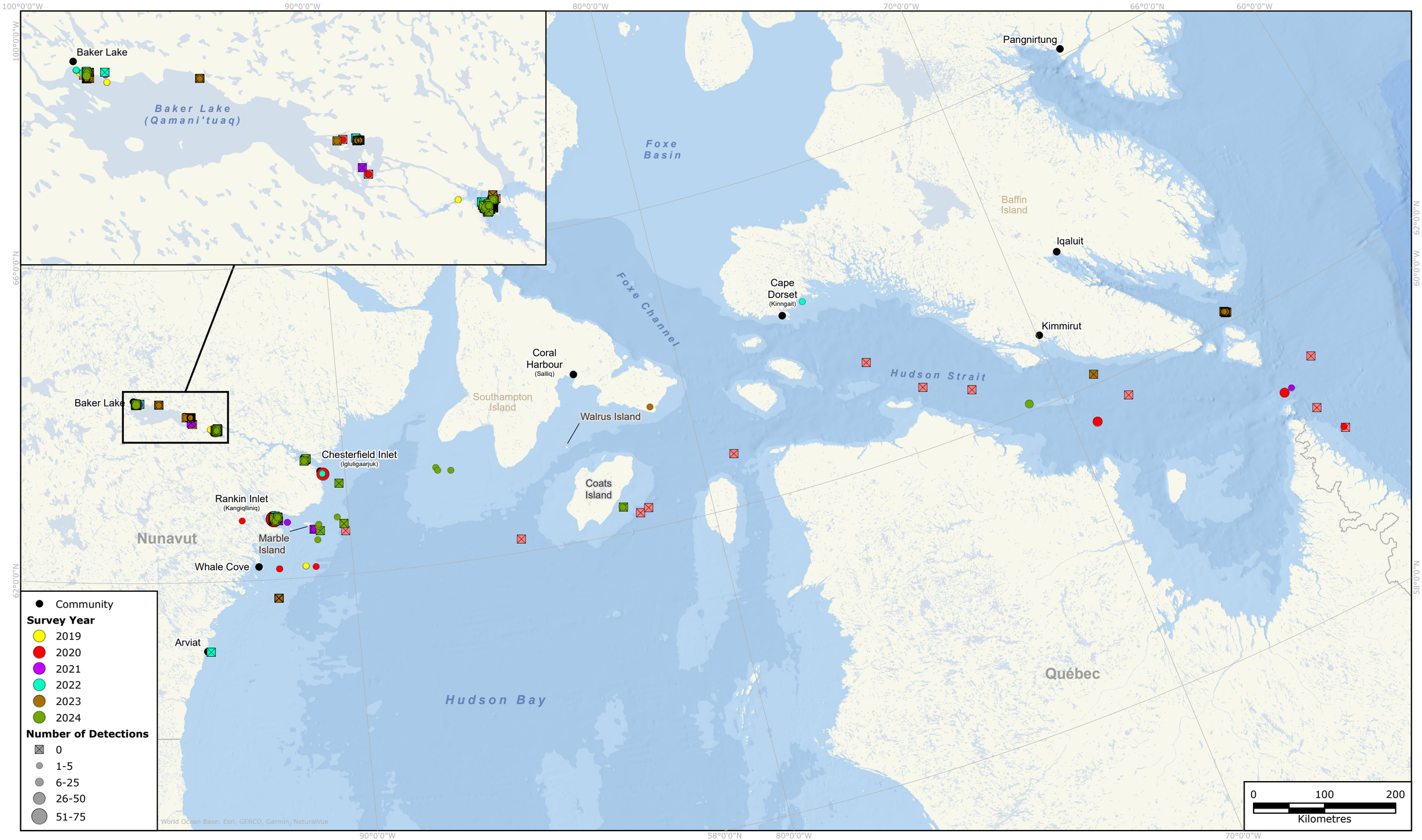
3.3.3.2 DISTANCE ANALYSIS: SEABIRD DETECTION ESTIMATE

Detection estimates indicate the relative likelihood that a seabird will be detected within the survey area (i.e., within 300 m from the observer) if it is there, taking into account the lower detectability when birds are farther away from the observer. A higher detection estimate indicates that seabirds are more likely to be seen and recorded, even if they are a greater distance away from the ship/observer. Density estimates could not be calculated for stationary surveys, as stationary effort requires repeated surveys at the same locations. While several of the stationary vessel surveys were conducted at anchor, the sample size is currently too small for modelling.

Stationary vessel surveys have limited model fitting capabilities due to lower sample size, compared to moving vessel surveys. Distance models were run for individual years from 2020 to 2024 and for all years combined (2019 through 2024), although very little data were collected in 2019.

The three key model selections were fit to estimate how quickly detectability changes with distance from the observer. Of the three model selection functions, hazard-rate models performed the best by AIC rating for all years of data combined (Table 3.3-9). However, the detection estimates for the top three AIC-rated models were low (Table 3.3-9), with relatively high standard errors, making the detection estimates unpredictable and indicating poor model fit. Therefore, the half-normal model was selected as the most representative model because it indicated a reasonable detection estimate and a low standard error (Table 3.3-9). The half-normal model estimates that detection decreases gradually with greater distance from the observer. Although the model fitting was less consistent for the stationary vessel data, compared to the moving vessel surveys, detection estimates for stationary vessel surveys were consistent between years (Table 3.3-10).

FIGURE 3.3-4 SEABIRD DETECTIONS DURING STATIONARY VESSEL SURVEYS, 2019 TO 2024



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TABLE 3.3-9 TOP AKAIKE'S INFORMATION CRITERION-RATED DISTANCE MODELS, STATIONARY VESSEL SURVEYS, 2019 TO 2024

Model Key and Adjustment	Detection Estimate[a]	Detection SE[b]	ΔAIC[c]
Hazard rate with polynomial adjustment	0.005	0.007	0.000
Uniform with cosine adjustment	0.071	0.011	17.976
Half-normal with cosine adjustment	0.099	0.004	1,267.540

Notes:
Δ = difference; AIC = Akaike's Information Criterion; SE = Standard Error
[a] The detection estimate represents the average probability of detection. A higher detection estimate indicates that there is a greater probability of detecting an object at a given distance.
[b] Standard error is a measure of variability where values indicate the statistical accuracy of the detection estimate.
[c] Values provide relative rankings between models fit with the same data, where the lowest AIC-ranked model is considered the best fit to the data.

TABLE 3.3-10 DETECTION ESTIMATES FOR STATIONARY VESSEL SURVEYS BY YEAR BETWEEN 2020 AND 2024

Year	Detection Estimate[a]	Detection 95% CIs[b]
All Years	0.049	0.036–0.063
2020	0.079	0.061–0.098
2021	0.112	0.086–0.138
2022	0.065	0.042–0.089
2023	0.099	0.090–0.107
2024	0.065	0.045–0.086

Notes:
% = percent; CI = Confidence Interval
[a] The detection estimate represents the average probability of detection.
[b] Values indicate the range in which 95% of the samples fall.

The detection estimate for all years of data combined decreased with the addition of 2024 data (Table 3.3-10). The detection estimate for stationary vessel surveys is roughly 77% lower than the detection estimate for moving vessels, which suggests that seabirds are less likely to be detected during stationary vessel surveys, compared to moving vessel surveys. The result is consistent with the data, which indicate that both detections and the number of birds recorded per survey were lower for stationary surveys, compared to moving surveys (Table 3.3-3).

The detection estimate for stationary vessel surveys in 2024 was similar to that of 2022 (0.065 in both 2022 and 2024; Table 3.3-10); however, the detection rate per survey was lower in 2024, with 0.26 detections per survey, compared to 0.87 detections per survey in 2023 and 2.17 in 2022 (Table 3.3-10). Therefore, there does not appear to be a pattern between detection estimate, survey effort, or the average number of detections per survey. This variation in effort

and detection estimates suggests that the detection estimates may be driven by a lack of detection data. The lower detection estimates observed in stationary surveys may be naturally lower than moving vessel surveys, i.e., seabirds are more difficult for the MMSO crew members to detect on stationary vessels, compared to moving vessels.

3.4 MARINE WILDLIFE OBSERVATIONS—BAKER LAKE

To satisfy Term and Condition 36 of Meadowbank Mine PC No. 004a local area marine wildlife monitor is required onboard all vessels transporting fuel or materials for the Project between Helicopter Island and Baker Lake.

Observations by community members have been recorded since 2008, apart from 2020 and 2021 due to health and safety restrictions in place related to the COVID-19 pandemic. Groupe Desgagnés and Woodward had their MMSOs record sightings of marine mammals and seabirds when possible while travelling during those 2 years. The vessel companies continued to conduct surveys in 2024; survey effort and results from these surveys are included in Sections 3.2 and 3.3 and summarized in Section 3.4.1. Agnico Eagle remains committed to meet compliance with Term and Condition 36 of PC No. 004 and continues to seek out monitors from the Chesterfield Inlet each year.

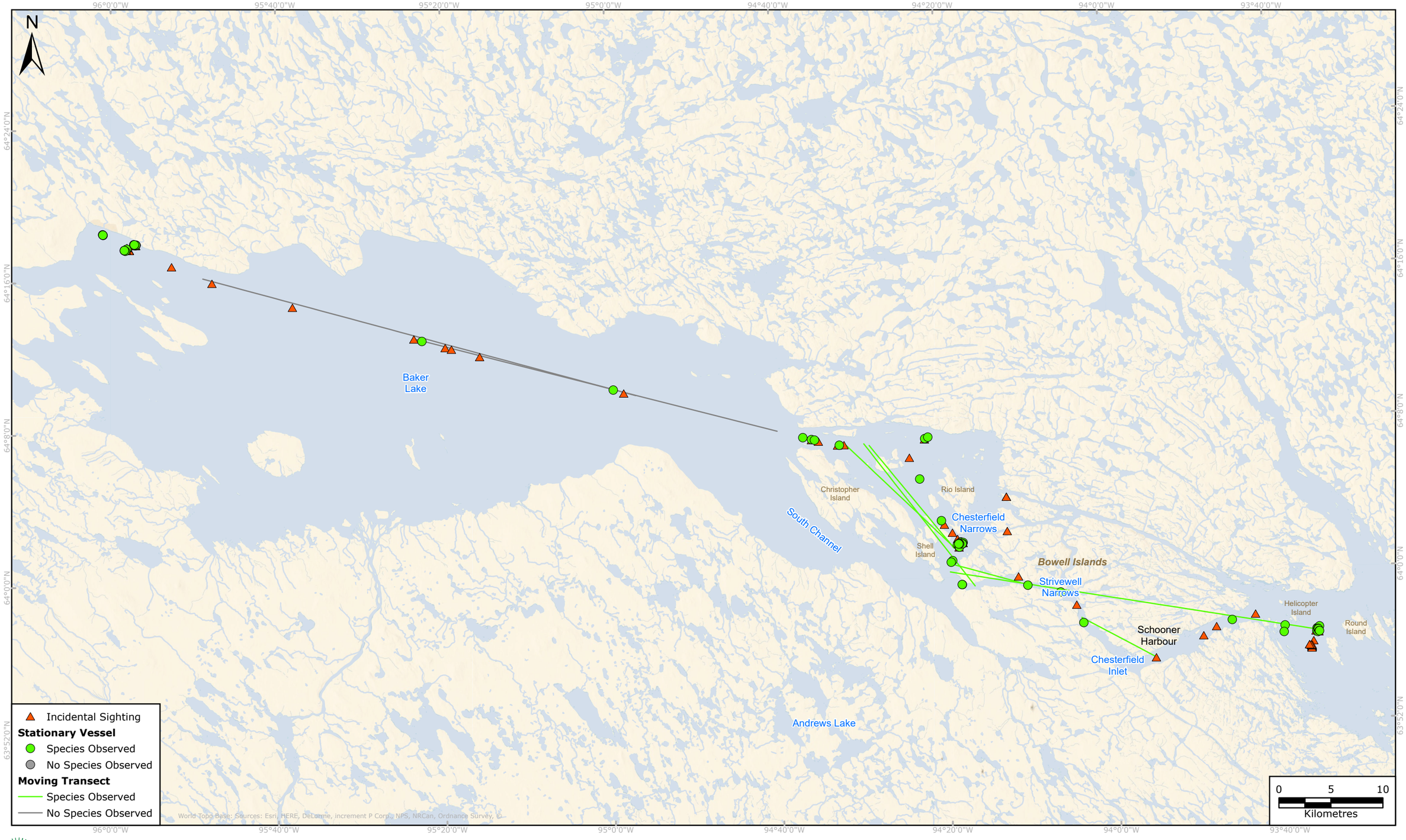
In 2024, local wildlife monitors were on the vessels for a total of 37 days and collected incidental observations in August, September, and October on the Tuvaq W. between Helicopter Island and Baker Lake. GPS coordinates were recorded during all but 14 of the incidental sightings (189 surveys with GPS coordinates; see Figure 3.4-1). Table 3.4-1 summarizes the number of days an observer was recording incidental sightings while on the vessels between 2008 and 2024. In 2024, there were 331 separate sightings of birds (total of 1,138 individuals), and an additional 7 incidental observations of mammals, including 1 sighting of caribou (6 individuals), 3 sightings of muskox (21 individuals), 2 sightings of fox (2 individuals), and 1 sighting of an unknown seal species (1 individual).

Tables 3.4-2 and 3.4-3 summarize marine mammal and seabird observations by the local wildlife monitors onboard contractor vessels transporting fuel for the Meadowbank Complex between Helicopter Island and Baker Lake between 2008 and 2019 and from 2022 to 2024, as well as observations by Groupe Desgagnés and Woodward crew members in 2020 and 2021.

3.4.1 GROUPE DESGAGNÉS AND WOODWARD OBSERVATIONS—BAKER LAKE

In addition to community wildlife observers, the shipping companies continued to record marine wildlife sightings while vessels were at anchor near Helicopter Island or while travelling between Helicopter Island and Baker Lake to supplement the community observer effort. Results of surveys are presented in Sections 3.2 and 3.3 and summarized below. Incidental observations made by MMSOs are summarized here.

FIGURE 3.4-1 WILDLIFE MONITORING SURVEYS BETWEEN HELICOPTER ISLAND AND BAKER LAKE, 2024



ERM

CLIENT: AGNICO EAGLE MINES LIMITED
GIS NUMBER: AEG-23-037-01

DATE: 01/31/2025

PROJECTION: Canada Lambert Conformal Conic
SCALE: 1:340,000 when printed at 11x17

TABLE 3.4-1 BARGE INCIDENTAL SURVEY EFFORT BY LOCAL WILDLIFE MONITORS BETWEEN HELICOPTER ISLAND AND BAKER LAKE, 2008 TO 2024[a]

Year	Survey Dates	Total Number of Days Surveyed
2008[b]	18–31 July; 2–8 August	8
2009	19–22 August; 26–31 August; 3–7 September	14
2010	18–27 October	10
2011	28–31 July; 6–7 August	6
2012	6–7 August	2
2013	August 13-19; October 9-16	15
2014	6–10 October	5
2015	9–22 July; 23 July – 5 August; 13–21 October	37
2016[b]	26–31 July; 2–13 October	18
2017[b]	July; October	-
2018[b]	-	19[d]
2019	19–24 September	6
2020	27–28 July; 9–10 August; 12 August; 15 August; 18 August	7
2021[c]	28 July; 5–6 October; 10 October; 18 October	5
2022	21–27 July; 4–8 August; 16–23 October	22
2023	28 July – 9 August; 18–19 August; 7–9 October	27
2024	1-12 August; 17 August – 2 September; 22 October – 29 October	37

Notes:
Groupe Desgagnés = Groupe Desgagnés, Inc.; Woodward = Woodward Group and Companies
[a] During 2020 and 2021, surveys were conducted by Groupe Desgagnés and Woodward vessel crew members rather than community members.
[b] Indicates specific dates were not provided—either only months, approximates dates, number of hours surveyed, or dates where observations occurred were provided. A best estimate of number of days surveyed is therefore provided for these years (2008, 2016, 2017, and 2018).
[c] All surveys conducted on the barge while travelling between Helicopter Island and Baker Lake were seabird survey transects; no marine mammal transects were completed on the barge in 2021.
[d] No dates were provided for 2018; however, it was noted that 153 hours of surveys were completed. Therefore, it was assumed that surveys were conducted 8 hours per day, for a total of 19 survey days. However, it is important to note that this is an estimate based on the number of hours surveyed.

TABLE 3.4-2 MARINE MAMMALS OBSERVED BY LOCAL WILDLIFE MONITORS BETWEEN HELICOPTER ISLAND AND BAKER LAKE, 2008 TO 2024[a]

Year	Month	Number of Days Surveyed	Seals	Polar Bears[d]
2008	August	2	2	3
2008	July	1	-	-
2009	August	2	6	-
2009	September	1	2	-
2010	October	1	1	-
2020 [b]	August	4	1	-
2021 [b]	July	NA[c]	-	-
2022	August	34	-	-
2022	September	16	-	-
2022	October	4	-	-
2023	July	4	-	-
2023	August	11	1	-
2023	October	12	-	-
2024	August	27	1	-
2024	September	2	-	-
2024	October	8	-	-

Notes:
Groupe Desgagnés = Groupe Desgagnés, Inc.; NA = not applicable; Woodward = Woodward Group and Companies
Dashes (-) indicate none observed.
[a] Marine mammals were only observed during wildlife monitoring surveys on the barge in 2008, 2009, 2010, and 2020. No other marine mammals were recorded during surveys between 2011 and 2019. During 2020 and 2021, surveys were conducted by Groupe Desgagnés and/or Woodward vessel crew members rather than community members.
[b] Groupe Desgagnés and Woodward vessel crew member survey effort and observations between Helicopter Island and Baker Lake are included in this table, as there was no local monitoring during those years. Sightings by vessel crew members during other years are not included in this table but are included in Section 3.2 and summarized in Section 3.4.1.
[c] No surveys were conducted on the barge travelling between Helicopter Island and Baker Lake in 2021 due to crew requirements and the majority of transits occurring during dark hours; however, 25 stationary surveys for marine mammals were conducted while the vessel was at anchor at Helicopter Island. These results are presented in Section 3.2.2 of the report and not summarized in this table.
[d] Species listed as Special Concern on Schedule 1 of the federal *Species at Risk Act* (2002).

TABLE 3.4-3 SEABIRDS OBSERVED BY LOCAL WILDLIFE MONITORS BETWEEN HELICOPTER ISLAND AND BAKER LAKE, 2008 TO 2024

Year	Month	Number of Surveys	Gulls/ Terns	Loons	Snow Geese	Waterfowl	Other Seabird	Eagle/ Falcon	Unknown Birds and Other
2008	July	1	-	1	-	-	-	-	-
2008	August	2	1+[a]	1	-	-	-	-	-
2009	August	2	1+	-	1+	1+	-	3	-
2009	September	1	1+	3	1,000+	5	-	1	-
2010	October	1	-	-	-	-	-	-	-
2011	July	1	-	-	-	2	-	-	-
2011	August	1	1+	-	-	-	-	-	-
2012	August	1	24	-	-	-	-	-	-
2013	August	2	10+	1	15+	-	-	-	10+
2013	October	1	6	-	12	-	-	-	2
2014	October	1	-	-	-	-	-	-	-
2015	July	1	-	2+	-	-	-	-	-
2015	August	1	-	-	-	-	-	-	-
2015	October	1	-	-	-	-	-	-	-
2016	July	1	14	-	-	-	-	-	2+
2016	October	1	32	1	-	-	-	-	53
2017	July	1	65	-	-	3	-	-	-
2018	August	1	-	-	-	-	-	-	-
2019	September	1	85	-	540	270	-	4	3
2020	July	2	1	-	-	2	-	-	-
2020	August	2	8	-	-	-	6[b]	-	-
2021	July	1	30	-	-	-	-	-	-
2021	October	8	14	-	-	24	-	-	28
2022	July	34	75	1	-	1	-	-	-
2022	August	16	33	-	-	-	-	-	4
2022	October	4	-	-	-	-	-	-	-
2023	July	1	28	2	-	-	-	-	-
2023	August	24	182	2	-	57	-	1	4

Year	Month	Number of Surveys	Gulls/ Terns	Loons	Snow Geese	Waterfowl	Other Seabird	Eagle/ Falcon	Unknown Birds and Other
2023	October	71	122	-	-	-	-	5	260
2024	August	27	416	57	-	291	5	18	61
2024	September	2	35	4	-	40	-	4	-
2024	October	8	75	-	-	40	-	-	92

Notes:
Dashes (-) indicate none observed.
[a] Number of individuals observed was often not recorded, just the species seen. In these cases, 1+ is entered in the table, as the number observed is unknown.
[b] Includes northern fulmar, petrel, cormorant, and jaeger.

In 2024, 54 stationary surveys were completed at Helicopter Island for marine mammals (Figure 3.2-1); however, no marine mammals were observed during the surveys. The vessel companies did not complete any moving vessel surveys in 2024 between Helicopter Island and Baker Lake, except for the Tuvaq W., which had a local monitor onboard recording incidental sightings. On 12 August, there was one incidental sighting of a harbour seal.

For seabirds, 79 stationary surveys were completed while anchored at Helicopter Island, 49 of which had survey effort data recorded. There was a total of 24.6 hours of survey time across those 49 surveys, lasting an average of 0.5 hours per survey. During the stationary surveys, including those without full survey effort, a total of 25 individual seabirds were recorded (6 different species; included in Section 3.3).

In addition to the stationary surveys, 15 moving transect surveys for seabirds were completed between Helicopter Island and Baker Lake. Of these surveys, 13 had sufficient spatial data to calculate spatial effort, all of which were completed onboard the Tuvaq W. Spatial effort for these 13 surveys was 129.0 km, with an average distance of 9.9 km per survey. During moving transect surveys (including those that did not record survey effort), 54 individual seabirds (9 different species) were observed (included in Section 3.3). Additional incidental sightings were recorded by MMSOs on the Tuvaq W. on August 1, between August 6 and 9, and on August 11. A total of 36 incidental sightings of seabirds were recorded during this time, 31 of which were of gulls (glaucous gulls or unidentified gulls), and the remaining five sightings were of unknown eider species (2 sightings: a group of 2 individuals and the other of 10 individuals), black guillemot (1 sighting of 1 bird) Canada goose (1 sighting of 4 birds), and Pomeranian jaeger (1 sighting of 1 bird), included in Table 3.4-2 and 3.4-3).

4. CONCLUSIONS

Overall, survey effort and quality of data collected by the MMSOs have improved since 2019.
The marine mammal survey effort in 2024 shows continued improvements since 2019. Attention to recording all data (i.e., positions and times) is required to ensure all survey effort is included in the summary of the surveys. It is likely that the enhanced training for vessel crew members over the last 5 years helped improve the number of surveys completed, as well as the quality of data collected. The seabird survey effort in 2024 illustrated that the vessel captains and crew have increased their understanding of the MMSO Program requirements of completing the 5-minute interval surveys.

Agnico Eagle will continue to improve vessel crew member training in the following five areas:

1. The training given to the vessel's crew MMSOs will be reviewed every year to prepare crew members for the shipping season.
2. The seabird surveys were primarily completed in six consecutive 5-minute periods, according to the ECSAS protocol. Updated datasheets helped emphasize the correct data collection protocol in 2024. Training for the MMSOs will again focus on this aspect of the methodology in 2025.
3. Incomplete data entry (i.e., data entry fields for survey effort left blank) continues to occur. In 2024, approximately 14% of marine mammal survey data was missing information such as start or end times or positions. This percentage was a decrease from the early years of the program and was similar to the percentage of missing information from 2021 through 2023. For seabird surveys, 62 (39%) of moving vessel surveys were missing spatial effort. Temporal effort was missing from 30 moving vessel surveys in 2024 (19%) and from 69 (34%) of stationary surveys, which is an improvement from 2023. Although reporting of seabird survey spatial effort decreased in 2024, and several surveys still lack the effort data required for statistical analysis, the trend overall has become more consistent since the start of the program in 2018. Agnico Eagle will continue to emphasize the importance of complete data collection and continue to encourage all MMSOs to complete the data entry fields.
4. Species identification while at sea can be challenging. Agnico Eagle has been providing species identification sheets to the vessels since 2020, and additional aids (e.g., species identification posters) were provided in recent years. Agnico Eagle will continue to work with the shipping companies to provide relevant aids, as needed.
5. The vessel's captain and crew will continue to be informed of specific mitigations to be used to manage interactions with marine mammals and birds.

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APPENDIX A SHIPPING MANAGEMENT PLAN SUMMARY BROCHURE—MEADOWBANK AND MELIADINE



AGNICO EAGLE

SHIPPING MANAGEMENT PLAN

Meadowbank and Meliadine



SHIPPING MANAGEMENT PLAN SUMMARY

This document summarizes the information found in the Agnico Eagle Shipping Management Plans for Meadowbank and Meliadine (Agnico Eagle 2022a; 2022b) into a single convenient package for review and as a reference document. It is expected that all bridge crew on all vessels supplying Meadowbank and Meliadine review this document and have it available on the bridge of the vessel while under way.

The Meadowbank division has implemented a vessel-based Marine Mammal and Seabird Observer (MMSO) program since 2010, and the Meliadine division since 2016. These programs will continue to be implemented during all routine project-shipping activities, in accordance with Meadowbank Mine NIRB Project Certificate No. 004 Condition 36 and Meliadine NIRB Project Certificate No. 008 Condition 40.



The NIRB conditions require Agnico Eagle to include in its contracts that ships must remain mindful of marine areas having a high density of marine mammals and birds. Agnico Eagle's NIRB Project Certificates include conditions to ensure the mitigation measures and monitoring programs outlined in this summary document are conducted by shipping companies; thus, shipping companies are required to review and become familiar with the information summarized in this document.

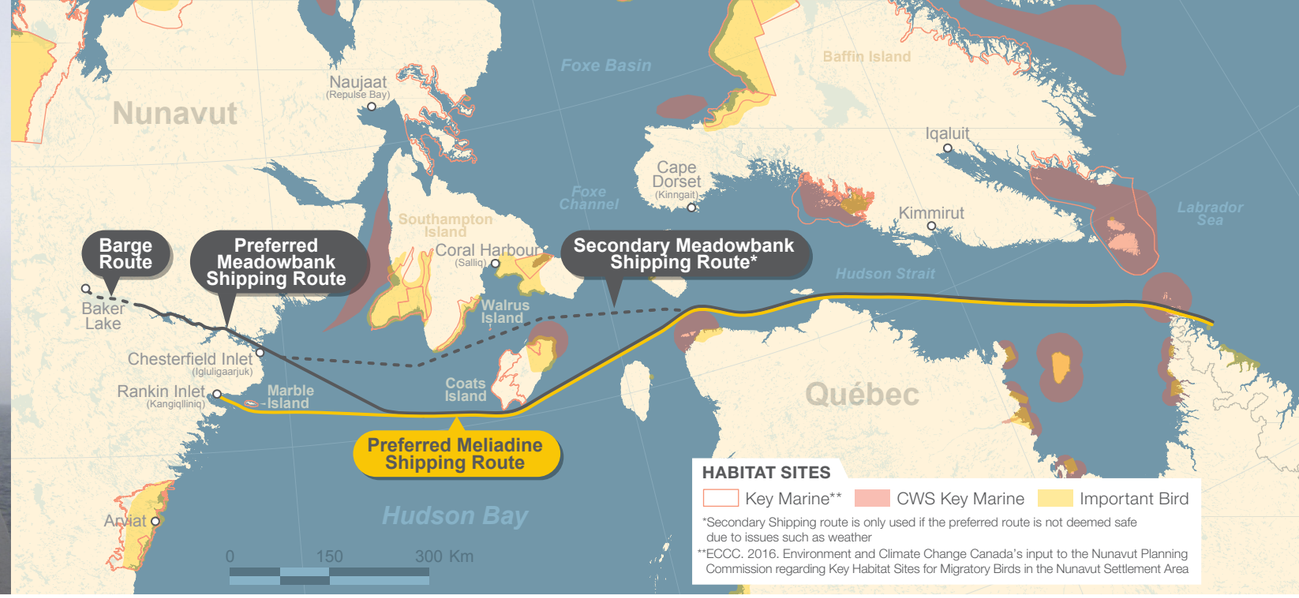
GENERAL GUIDELINES FOR OPERATION OF VESSELS

The Shipping Management Plans include Mitigation, Management, Monitoring and Reporting requirements:

1. Mitigation: Standard operation of the vessel.	Avoidance of seabird colonies and marine mammal haul-outs on shore	Vessel operation – maintain straight course, constant speed, avoid erratic behaviour
2. Management: What to do when you see a marine mammal or seabird.	Avoidance of marine mammals and seabirds on the water	What to do if a marine mammal approaches the vessel
3. Monitoring: The Marine Mammal and Seabird Observation Program.	Monitoring for marine mammals and seabirds	
4. Reporting: Monitoring data sent to Agnico Eagle. How to report collisions or incidents to Agnico Eagle and the government.	Monitoring data sent to Agnico Eagle	What to do if there is a collision with a marine mammal



SHIPPING MITIGATION & MANAGEMENT MEASURES



Ship captains and crew should review the following mitigation measures and be familiar with guidelines around marine mammals and seabirds, as well as navigational options for vessel maneuvers when encountering marine mammals and seabirds. Mitigation and management measures are summarized from the Shipping Management Plans for Meadowbank and Meliadine.

1. General navigational requirements while travelling through Hudson Straight to Helicopter Island or Rankin Inlet, include the following:

a. Ships will, when possible, maintain a straight course and constant speed, and avoid erratic behaviour;

b. Marine mammals will be given right of way as safe navigation allows;

c. The ship will not be operated in such a way as to separate an individual member(s) of a group of marine mammals from other members of the group;

d. Ships will maintain the required setback distances around marine mammals and seabirds on land;

Avoiding Marine Mammals and Seabird Colonies on Land

Maintain a setback distance of >500 m from colonies of seabirds and marine mammals on shore

Avoiding Marine Mammals on Sea Ice

Do not approach within 300 m of a walrus or polar bear observed on sea ice



e. Ships will use a routing south of Coats Island as the primary shipping route;

f. Ships travelling for the Meliadine project will remain at least 2 km from Marble Island to avoid disturbing seals, walrus and marine birds that might be in the vicinity; and

g. Ships will maintain the required setback distances around marine mammals and seabirds in the water.

General Guidance on the Water

Vessels maintain > 500 meters from aggregations of seabirds and marine mammals on the water*

Whales Always Have Right-of-Way

Vessel Operation: Maintain straight course, constant speed, avoid erratic behavior



As per **Marine Mammal Regulations s.7(3)**, maintain a minimum of 100 m from marine mammals at all times

What to do if a Marine Mammal Approaches the Vessel

Option 1

Reduce its speed and, if possible, cautiously move away from the animal

Option 2

If it is not possible for the ship to move away from or detour around a stationary marine mammal or group of marine mammals, the ship will reduce its speed and wait until the animal(s) move to the side and remain 100 m to 500 m (Meadowbank) from the ship prior to resuming speed

Option 3

If animals appear to be trapped or disturbed by ship movements, the ship will mitigate disturbance (e.g., stoppage of movement) until the animal(s) has moved away from the immediate area

*** The two projects have slightly different guidance on setbacks:**
Meadowbank – Maintain 500 m away from feeding marine mammals and aggregations of seabirds and marine mammals
Meliadine – Maintain 300 m from feeding marine mammals.
Meliadine – Maintain 100 m away at all times.

2. As part of shipping companies' standard operating procedures, ship crews will monitor for marine mammals and seabirds from Hudson Strait to the lightering point near Helicopter Island (Meadowbank) or Rankin Inlet (Meliadine).

3. The ship's Master will be notified if there is a concern of the ship striking a marine mammal.

4. Ship personnel will make a decision if actions are required to avoid a possible collision by implementing management measures, if safe to do so.

5. If a collision occurs, the appropriate people will be contact and the incident will be documented.



MARINE MAMMAL MANAGEMENT AND MONITORING PROGRAM

The Marine Mammal Management and Monitoring Plan (MMMMP) was developed for the Project to meet commitments made during the Nunavut Impact Review Board (NIRB) hearings related to Marine Shipping. The MMMMP was designed to provide protocols for conducting a vessel-based Marine Mammal and Seabird Observer (MMSO) program during all routine shipping activities along the shipping route.

A Marine Mammal and Seabird Observer (MMSO) will be assigned by the captain prior to departure. The role of the MMSO is to record and report on marine mammals and seabird sightings during shipping activities along the shipping routes, and to advise the ship's crew on the location of observed marine mammals and if any action is recommended based on mitigation measures. MMSO and other crew members are also encouraged to collect incidental sightings (i.e., observations of marine mammals or seabirds NOT during dedicated monitoring) during their voyage and to report it to Agnico Eagle in addition to the MMSO data. Standard monitoring and data collection protocols for marine mammals and seabirds will be provided to the crew in the form of Standard Operating Procedures (SOPs) and in-person or online training.



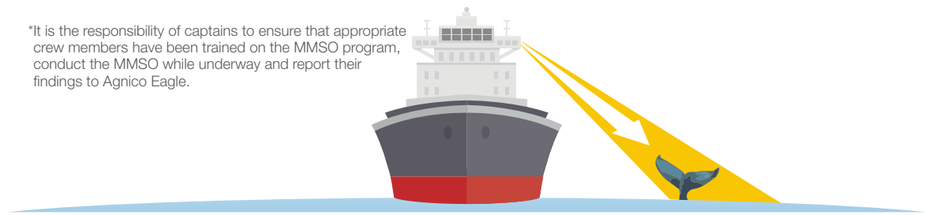
THE MARINE MAMMAL AND SEABIRD OBSERVATION (MMSO) PROGRAM

1. Ship crews (the assigned MMSO) will monitor for marine mammals and seabirds from Hudson Strait to the lightering point near Helicopter Island (Meadowbank) or Rankin Inlet (Meliadine)

2. The ship's Master will be notified if there is a concern of the ship striking a marine mammal

3. Ship personnel will make a decision if actions are required to avoid a possible collision

*It is the responsibility of captains to ensure that appropriate crew members have been trained on the MMSO program, conduct the MMSO while underway and report their findings to Agnico Eagle.



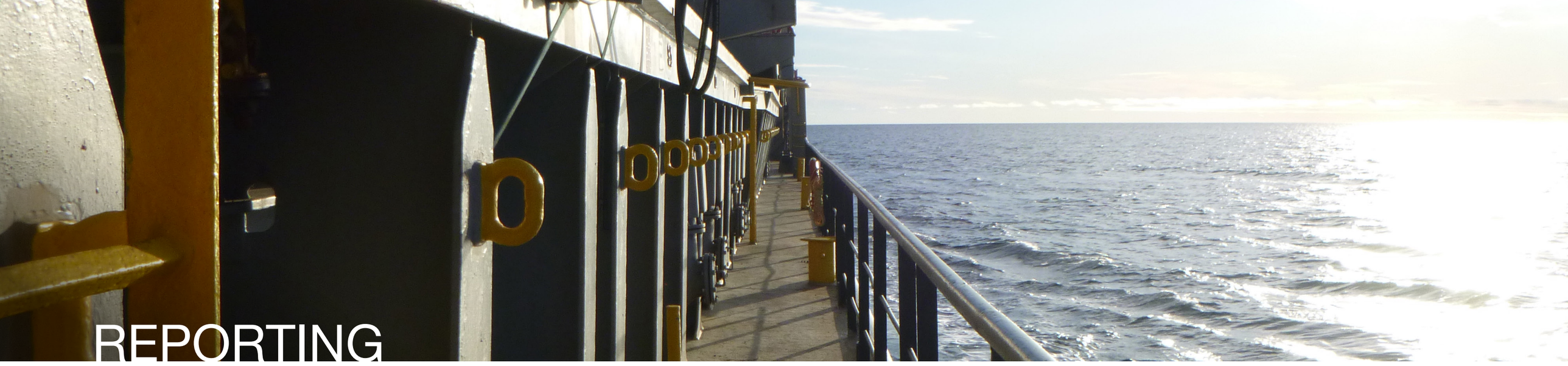
HOW OFTEN DOES THE MMSO SURVEY?

Marine Mammal Monitoring: Conduct at least 1 dedicated survey per day, lasting 1.5 to 2 hrs beginning in Hudson Strait

Seabird Monitoring:

- Conduct 1 to 3 dedicated surveys per day
- Each survey lasts 30 min, made up of ***6 separate 5-min observation periods***, beginning in Hudson Strait

Incidental Sightings: While traveling from Hudson Strait to Rankin Inlet/Helicopter Island, look for marine mammals incidentally to avoid collisions and record incidental sightings



REPORTING

Data collected by the MMSOs must be submitted annually by Agnico Eagle to the Government of Nunavut and other applicable regulators (e.g., Environment and Climate Change Canada (ECCC) - Canadian Wildlife Service (CWS)) regarding the location, behaviour, abundance, and species observed as well as any interactions with Project vessels during shipping activities along the shipping route. Therefore, data and ship tracks must be submitted to Agnico Eagle within 2-3 weeks of completion of the voyage.

VESSEL OPERATORS REPORT THE FOLLOWING INFORMATION ANNUALLY TO AGNICO EAGLE

Vessel Information:

- Name
- Dates of Transit
- Track log from Montreal to Agnico Eagle site
- General description of cargo

Track Information:

- A GPS track of the vessel route

MMSO Information:

- All data sheets collected by MMSO
- A record of any Management – avoidance of marine mammals or seabirds
- All incidental sightings of marine mammals or seabirds collected during the voyage (i.e., not during the dedicated MMSO surveys)

Agnico Eagle Contact:

mmso@agnicoeagle.com

IF A COLLISION OCCURS

Report all collisions to Agnico Eagle:

AGNICO EAGLE

Sara Savoie: Work: +1 (819) 759-3555 x 4603212 Cell: +1 (819) 856-9349

Robin Allard: Cell: +1 (819) 860-1414

If a Marine Mammal and Vessel Collision Occurs Contact DFO:

Central and Arctic, Nunavut – Iqaluit: +1 (867) 979-8000

Captain must report the following information (as per Marine Mammal Regulations s.39):

- Date, time and location of the incident;
- Species of marine mammal involved in the incident;
- Circumstances of the incident;
- Size and type of vehicle;
- Weather and sea conditions at the time of the incident;
- Observed state of the marine mammal after the incident; and
- Direction of travel of the marine mammal after the incident, to the extent that it can be determined.

If a Seabird and Vessel Collision Occurs Contact:

ECCC Wildlife Enforcement: ec.dalfnord-wednorth.ec@canada.ca



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APPENDIX B MARINE MAMMAL MONITORING STANDARD OPERATING PROCEDURE

Meadowbank and Meliadine Projects

Marine Mammal Monitoring

STANDARD OPERATING PROCEDURE SHIP-01

June 14 2023 Version B.4

Scope of Work: This SOP provides guidance for marine mammal monitoring procedures for shipping companies contracted by Agnico Eagle. Monitoring is conducted to avoid potential effects to marine mammals. The shipping companies are required to record marine mammal observations based on the protocols outlined in this SOP along the shipping route between Hudson Strait and Helicopter Island/Rankin Inlet.

Contacts: **Agnico Eagle**
mmso@agnicoeagle.com

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ATTACHMENT A MARINE MAMMAL SIGHTINGS FORM

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1. PROGRAM DESCRIPTION AND OBJECTIVES

A Marine Mammal Monitoring Standard Operating Procedure (SOP) has been developed to guide onboard monitoring for marine mammals. This SOP satisfies the Meadowbank Mine NIRB Project Certificate No. 008 Condition 40 and the Meliadine NIRB Project Certificate No.006 Condition 82.

The purpose of this SOP is to identify the monitoring procedures for shipping companies contracted by Agnico Eagle to avoid potential effects to marine mammals. This document outlines the following:

- how to avoid or adjust shipping speed near sensitive wildlife habitat along shipping routes;
- how to record observations of marine mammals, which includes whales, pinnipeds (i.e., seals and walruses), and polar bears;
- potential mitigation if marine mammals are observed;
- how to record and report mitigation measures taken, if applicable; and
- how to record and report ship strikes of marine mammals if they occur.

Agnico Eagle will update this SOP as necessary, in response to feedback from the Department of Fisheries and Oceans (DFO), Environment and Climate Change Canada (ECCC) or in response to data collected in the field or scientific advances.

2. MARINE MAMMAL MONITORING

2.1 Overview

The following protocol will be implemented during the Marine Mammal and Seabird Observer (MMSO) program:

- A minimum of one assigned MMSO will be present on-board vessels during all transits;
- The MMSO will conduct marine mammal observations along the shipping route from the bridge during daylight hours and record sightings into the *Marine Mammal Sightings Form* (Attachment A); and
- The shipping contractor will initiate mitigation measures designed to minimize Project impacts on marine mammals, as identified in the Marine Shipping Mitigation Summary Booklet and summarized in Attachment B.

2.2 Training

The captain is responsible to assign an MMSO to the bridge, and to ensure that the MMSO has been trained to identify marine mammals and seabirds.

Training for the assigned MMSOs includes:

- The pre-trip training live webinar, or review of the recorded webinar prior to beginning the MMSO duties. The recorded webinar will also be available on the ship for review as needed;
- Review the Marine Mammal Monitoring SOP (this document), the Marine Shipping Mitigation Summary Booklet, and the Seabird Monitoring SOP (SOP # SHIP-02);
- Review marine mammal identification, including common species provided in Attachment C (Whale ID Guide and Pinniped ID Guide);
- Know how to estimate distances to animals observed; and

- Review how to fill out the *Marine Mammal Sightings Form* (Attachment A) and the *Marine Mammal and Seabird Observer (MMSO) Incident Report Form* (Attachment D).

2.3 Equipment

Bridge staff participating in wildlife monitoring will require the following when conducting surveys:

1. This SOP;
2. Whale ID Guide and Pinniped ID Guide (Attachment C);
3. *Marine Mammal Sightings Form* (Attachment A);
4. *MMSO Incident Report Form* (Attachment D);
5. Binoculars;
6. GPS (only required if unable to get GPS coordinates from the ship); and
7. Clipboard and pencil.

2.4 Marine Mammal Monitoring Methods

Marine mammal surveys are required along the shipping route from Hudson Strait to Helicopter Island/Rankin Inlet, and during the return journey from Helicopter Island/Rankin Inlet through Hudson Strait (Figure 2.4-1). Surveys must be conducted at least once per day, but two surveys per day is preferred.

General environmental and marine mammal sightings information is to be collected and recorded by filling out the form in Attachment A. The protocol outlined in this section are best conducted along a transect line, therefore, it is best to start a marine mammal observation period when the vessel is and will be moving in a straight line for an extended period of time.

2.4.1 Observation Period

- Marine mammal monitoring is required from Hudson Strait to Helicopter Island (Meadowbank) or Rankin Inlet (Meliadine), along the shipping route presented in Figure 2.4-1.
- Conduct a minimum of 1 survey per day; however, 2 surveys per day is preferred when timing allows.
- Prioritize conducting surveys around Coats Island, Hudson Strait, and/or approaching Helicopter Island/Rankin Inlet.
- MMSO observation periods should last approximately 1.5 hours, but should not last longer than 2 hours to mitigate observer fatigue and eyestrain.
- During dedicated surveys, sightings are only recorded by the MMSO, with no assistance permitted by other crew members.
- For each observation period, document information on the ship's location, travelling speed and direction, environmental conditions on a *Marine Mammal Sightings Form*.

2.4.2 Observer Position

- Observations will be done from a high location on the vessel and ideally outdoors if possible and will be conducted at the same location each time.
- For marine mammal observations, depending on the weather conditions and safety requirements for the crew, the MMSO will position themselves in the middle of the ship at the front (bow) to observe marine mammals on both the starboard and the port side (Figure 2.4-2).

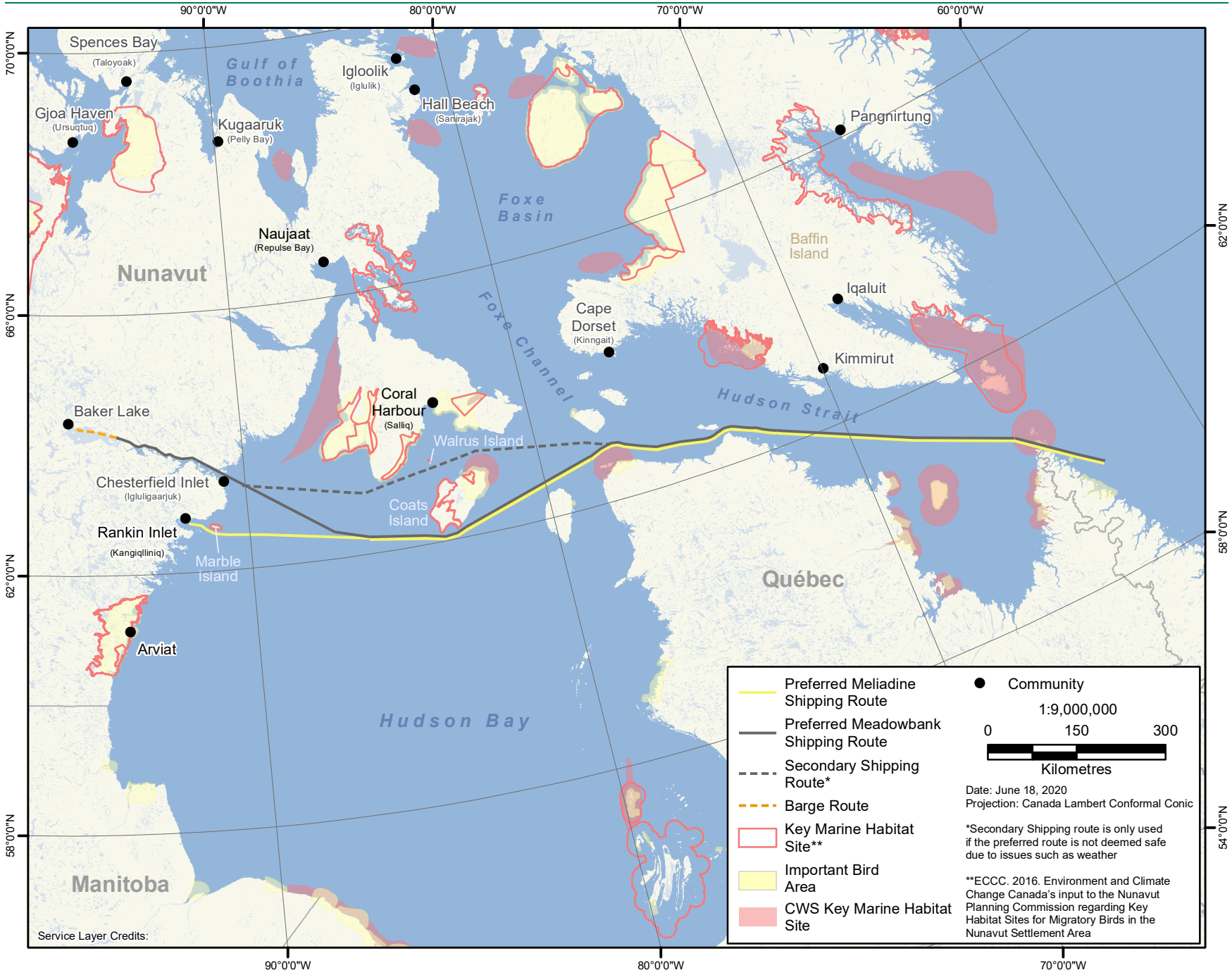


Figure 2.4-1: Shipping Routes during the Open Water Season

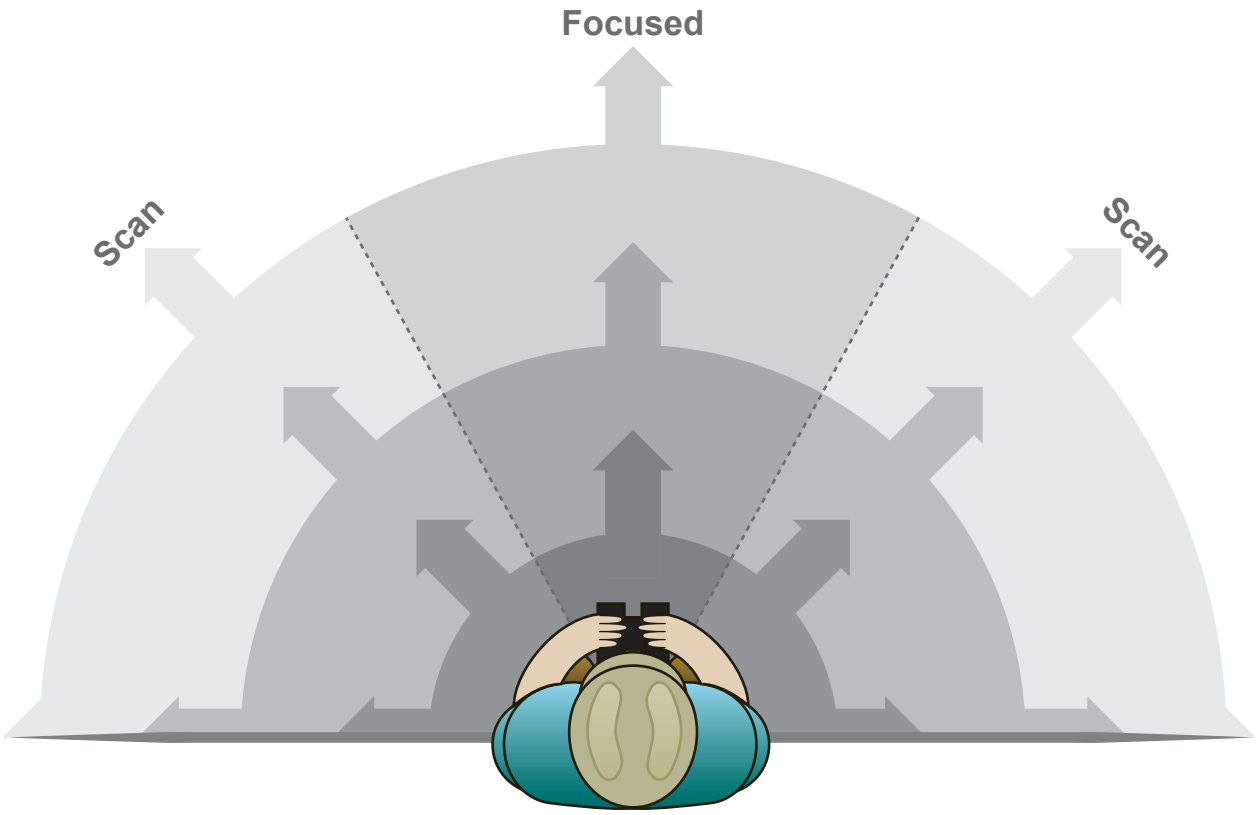


Figure 2.4-2: Illustration of MMSO Position and Observation Field on a Vessel

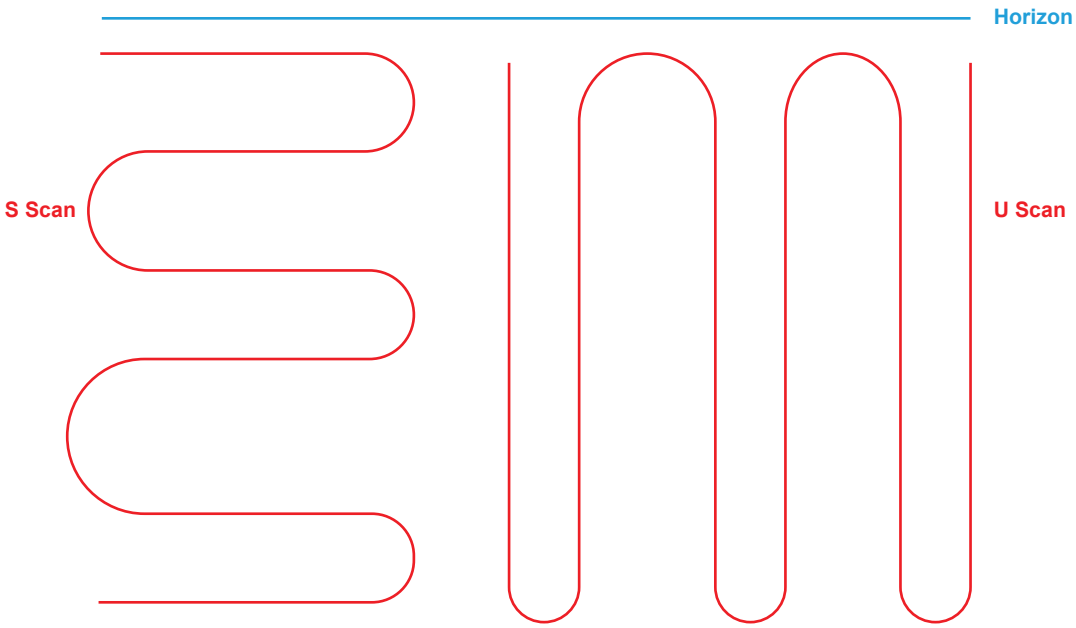
2.4.3 Scan Routine

1. How to Scan for Marine Mammals

- Scan the water from the vessel out to the horizon with the naked eye and use binoculars only to focus on possible sightings.
- Scans should be made from the middle of the vessel and cover the scan area shown in Figure 2.4-2 with a focus on the water ahead and to the side to the moving vessel (e.g., focused scan area in Figure 2.4-2).
- Perform S and U scans (Figure 2.4-3) of the observation field about every 20 seconds looking for whale cues (e.g., blow, back surfacing). The most important aspect of marine mammal observing is to constantly scan the observation field to capture animals that could be located in the peripheral view for brief moments (e.g., surfacing).
- If a whale or pinniped (seal or walrus) is observed, record the sighting on the *Marine Mammal Sightings Form*, as per instructions in Step 2 below.
- Surveys are prioritized when the vessel is moving; however, if the vessel is stationary (e.g., anchored) for a day or portion of a day, then a marine mammal survey will be required while anchored. If this is required, scans should be conducted over the entire scan area in a uniform fashion.

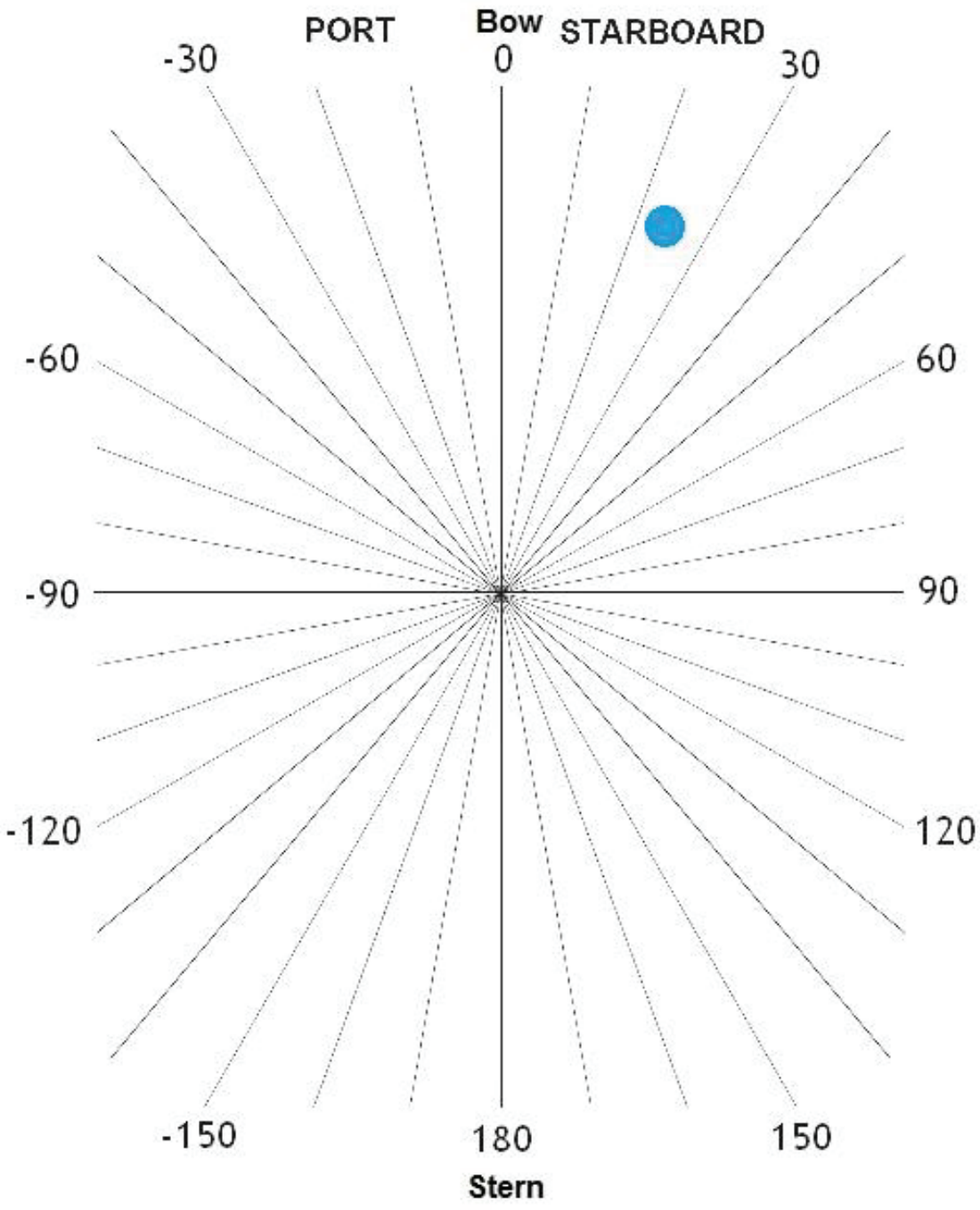
2. What to Do When a Marine Mammal is Observed

- Marine mammals observed during the dedicated marine mammal observational periods will be recorded on the *Marine Mammal Sightings Form*, including:
  - GPS location;
  - Distance to animal from vessel;
  - Angle to animal (Figure 2.4-4 shows how an angle to a marine mammal from the vessel should be estimated);
  - Number of marine mammal individuals;
  - Unknown species – if a species is unknown or if a blow is the only detection of the animal observed, then mark the sighting as unknown or record the general species group (e.g., whale, seal, walrus, polar bear), and provide a description of what was seen (e.g., colour of animal, how many were observed, behaviour, dorsal fin present or absent, etc.); and
  - Behaviour (e.g., travelling, feeding, other).
- Marine mammals in large groups that are close together should be marked as a single sighting.
- Sightings of pinnipeds (seals, walrus) hauled-out on land or of a polar bear on land will be recorded with a description in the “Notes” section indicating the animal(s) were observed on land.
- If a marine mammal is counted twice or more in the sightings record, then a note of a re-sighting should be marked.
- When possible, take photographs of marine mammal sightings and record the photo name/number alongside sightings records. These photos must be provided to Agnico Eagle along with the completed datasheets.
- If no marine mammals are observed during a survey period, then the top sections of the *Marine Mammal Sightings Form* must still be completed (including “General Information”, “Vessel Information”, and “Environmental Information”) with “No animals observed” entered into the “Notes” section.
- If a marine mammal sighting is close to the vessel and requires mitigation measures, or if a ship strike occurs, refer to Section 3 of this SOP and complete the *MMSO Incident Report Form* (Attachment D);
- Ensure no cell on the *Marine Mammal Sightings Form* is left blank.



Source: Agnico Eagle 2020.

Figure 2.4-3: Illustration Showing How to Conduct S & U Scanning Techniques



Note: Example shows angle to the animal (blue dot) is approximately 22º.

Source: Agnico Eagle 2020.

Figure 2.4-4: How to Determine Angle to Marine Mammal

2.5 Incidental Marine Mammal Sightings – "Off Effort"

During sailing from Hudson Strait to Helicopter Island/Rankin Inlet, the ship's crew is required to keep watch for marine mammals along the shipping route. This is not part of the MMSO dedicated surveys. Whenever a marine mammal is observed outside of the dedicated survey time, this is called an incidental sighting, or "off-effort". These sightings are recorded on the *Incidental Marine Wildlife Sightings Form* (Attachment E) and provided to Agnico Eagle for reporting. This includes all sightings of whales, seals, walruses, polar bears, and hauled-out animals.

If an incidental sighting is close to the vessel and requires mitigation measures, or if a ship strike occurs, refer to Section 3 of this SOP and complete the *MMSO Incident Report Form* (Attachment D).

3. MITIGATION AND REPORTING

In the event bridge crew observe marine mammals within 100 m of the vessel for Meliadine, and 500 m of the vessel for Meadowbank, refer to the Marine Shipping Mitigation Summary Booklet for recommended responses (e.g., slowing vessel, change direction). Management responses will be documented on the *Marine Mammal Sightings Form* for that observation. In addition, if a ship strike occurred or other incident (e.g., animal appears affected by the vessel), the MMSO must also fill in the *MMSO Incident Report Form* (Attachment D). Mitigation measures are also summarized in Attachment B.

If bridge crew determine a ship strike of a marine mammal has occurred, complete the *Marine Mammal Sightings Form* and indicate that the observation was the result of a ship strike. If the ship strike is a marine mammal the ship's captain is to report the strike to Agnico Eagle (contact listed at the top of this SOP) as soon as practical and within 24 hours.

In addition, as per *Marine Mammal Regulations* s.39, the captain must also report a strike to the DFO minister, including the following information:

- the date, time and location of the incident;
- the species of marine mammal involved in the incident;
- the circumstances of the incident;
- the size and type of vehicle and, if applicable, the type of fishing gear involved in the incident;
- the weather and sea conditions at the time of the incident;
- the observed state of the marine mammal after the incident; and
- the direction of travel of the marine mammal after the incident, to the extent that it can be determined.

DFO Contact Information:

- Central and Arctic, Nunavut – Iqaluit: 1-867-979-8000.

4. END OF TRIP REPORTING REQUIREMENTS

The following information will be submitted to the Agnico Eagle Environment Team (contact information provided at the top of this SOP) after each shipping trip for collation into a database:

1. Spatial file of the shipping route;
2. Completed *Marine Mammal Sightings Forms*;
3. Completed *MMSO Incident Report Forms* (if required); and
4. Photographs taken of sightings.

5. RECOMMENDED GUIDES

Reeves et al. 2002. *National Audubon Society's Guide to marine Mammals of the World.*

Additional Recommended Training/Practice*: http://www.dfo-mpo.gc.ca/species-especes/mammals-mammiferes/identification-guide/index-eng.html.*

ATTACHMENT A MARINE MAMMAL SIGHTINGS FORM

Marine Mammal Sightings Form (circle options that are *italicized* as appropriate)

General Information					
Date (DD/MMM/YYYY)		**Observer Name**		**Height of Eye (m)**	
Vessel Information					
Company/Agency		**Vessel Type**		**Vessel Heading (compass)**	
Vessel Name		**Vessel Activity**	*Moving* *Stationary*	**Vessel Speed (kt)**	
Environmental Information					
Weather	*Clear* *Partly Cloudy* *100% Cloud* *Fog* *Rain* *Snow*			**Sea State (0-9)**	
Beaufort Wind Force	*Calm* *Light Wind* *Strong Wind* *Gale Force Wind* *Stormy*			**Wave Height (m)**	
Wind Direction (deg.)		**Glare Conditions**	*None* *Slight Grey* *Bright*	**Visibility (km)**	

Survey Information							
Transect Start	**Local Time (24 hr)**		**Latitude (DD)**			**Longitude (DD)**	
Transect End	**Local Time (24 hr)**		**Latitude (DD)**			**Longitude (DD)**	
Observer Location	***Outdoors***	***Indoors***	**Observation Side**	***Starboard***	***Port***	***Bow***	
Notes							

Marine Mammal Sighting Information

Time of Sighting	Distance to Sighting (m)	Angle to Sighting (deg.)	Sighting Coordinates			Species	Count	Age (Adult/Young)	Sex (M/F/UNK)	Re-Sighting (Y/N)	Behaviour (Travel, Feeding, Other)	Mitigation Required?	Photo Number	Comments/Notes
			WPT	Latitude (DD)	Longitude (DD)									

ATTACHMENT B MARINE SHIPPING MITIGATION SUMMARY

General Guidance on the Water

Vessels maintain > 500 meters from aggregations of seabirds and marine mammals on the water*



Whales Always Have Right-of-Way

Vessel Operation: Maintain straight course, constant speed, avoid erratic behavior

As per **Marine Mammal Regulations s.7(3)**, maintain a minimum of 100 m from marine mammals at all times

What to do if a Marine Mammal Approaches the Vessel

Option 1

Reduce its speed and, if possible, cautiously move away from the animal

Option 2

if it is not possible for the ship to move away from or detour around a stationary marine mammal or group of marine mammals, the ship will reduce its speed and wait until the animal(s) move to the side and remain at least 100 m (Meliadine) or 500 m (Meadowbank)

Option 3

If animals appear to be trapped or disturbed by ship movements, the ship will mitigate disturbance (e.g., stoppage of movement) until the animal(s) has moved away

*** The two projects have slightly different guidance on setbacks:**
Meadowbank – Maintain 500 m away from feeding marine mammals and aggregations of seabirds and marine mammals
Meliadine – Maintain 300 m from feeding marine mammals.
Meliadine – Maintain 100 m away at all times.

ATTACHMENT C MARINE MAMMAL ID GUIDES

COMMON WHALE ID GUIDE

Narwhal

Size: 4 - 5 m

Body: Small head, stocky body, short/round flippers, tusk

Dorsal Fin: No

Colour: Mottled black and white, grey or brownish





Beluga

Size: 4 - 5 m

Body: Stout body, small head, short, broad paddle-shaped flippers

Dorsal Fin: No

Colour: Adults white, calves brown/grey





Bowhead Whale

Size: up to 19 m

Body: Large and rotund

Dorsal Fin: No

Colour: Black/brown, white lower jaw

Blow: Bushy V-shaped

Fluke: Shows fluke when diving





Fin Whale

Size: up to 23m

Body: Streamlined and long

Dorsal Fin: hooked

Colour: Grey body, white lower jaw right-side only

Blow: Tall and straight

Fluke: Rarely shows fluke





Orca/ Killer Whale

Size: 7-9 m

Body: Long rounded body

Dorsal Fin: Tall dorsal fin

Colour: Black-and-white, saddle patch (grey area) behind dorsal fin, white underside





COMMON PINNIPED ID GUIDE

Walrus

Size: 2.5 - 3m

Body: large, blubbery, long tusks

Head: Large thick neck, dark mouth with whiskers

Colour: Dark brown





Harbour Seal

Size: 2m

Body: Medium size, spindle shaped body

Head: like dog, heart-shaped snout

Colour: Blue-grey with dark spots/speckles





Hooded Seal

Size: 2.5 m

Body: Large, robust

Head: Broad head short narrow snout, males of “hood” they inflate

Colour: Black head, silver/grey fur, dark patches





Harp Seal

Size: 1.5 - 2 m

Body: Medium size, robust

Head: Small head, pointy snout

Colour: Light grey, harp-shaped black patch on back, black face





Bearded Seal

Size: 2 - 2.5 m

Body: Large, robust

Head: Small head, short snout, long whiskers

Colour: Dark brown/grey with dark rings/spots





ATTACHMENT D MMSO INCIDENT REPORT FORM

AGNICO EAGLE

Marine Mammals and Seabird Observer (MMSO) Incident Report

Project Information			
Client: Agnico Eagle		**Date:**	
Project Name (circle one): *Meadowbank* *Meliadine*		**General Location:**	
Latitude (DD):		**Longitude (DD):**	
Vessel Contractor Information			
Vessel Contractor Name:		**Site Supervisor or Captain:**	
Vessel Name/Type:		**MMSO Name:**	
General Weather Conditions (throughout the day):	**Wind (knots)**:		
	Sea State:		
	Swell Height (m):		
	Temperature (°C):		
	Notes:		
Time Start/Time End MMSO Duties (HH:MM):	**Start:**	**End:**	

Record of Vessel-Animal Collisions/Interactions in Water

Species	Number of Individuals	Time (HH:MM)	Location		Visibility (m)/ Sea State	Comments
			Latitude (DD)	Longitude (DD)		

Record of Bird on Deck

Species	Number of Individuals	State of Bird (injured, stranded, or dead)	Time (HH:MM)	Visibility (m)/ Sea State	Comments

Mitigation Log

Time (UTC; HH:MM)	Was Mitigation Implemented?	Location		Rationale for Implementation
		Latitude (DD)	Longitude (DD)	

ATTACHMENT E INCIDENTAL MARINE WILDLIFE SIGHTINGS FORM

AGNICO EAGLE

Incidental Marine Wildlife Sightings Form

(1 form per observation; PLEASE PRINT; circle options provided in *italics* as appropriate)

General Information			
Vessel Name		**Date**	
Observer Name		**Local Time (24 hr)**	
Vessel Information			
Ship Speed (kt)		**Ship Heading (compass)**	
Latitude (decimal degrees)		**Longitude (decimal degrees)**	
Environmental Information			
Beaufort Wind Force		**Visibility (km)**	
Wind Direction			
Observation Information			
Species[1]		**ID Reliability**	*Positive / Probable / Maybe*
Distance from vessel when first seen (m)		**How close did the animal get to the vessel (m)?**	
Number of Individuals	*Best Estimate:* **OR** *Maximum/Minimum:*		
Behaviour	**Mammals:** *Swimming* *Diving* *Feeding*		
	Dead *Resting on land* *Resting on ice* *Other:*		
	Birds: *Flying* *Feeding* *Resting on ocean surface*		
	Resting on land *Escape Ship - Flying* *Escape Ship - Diving* *Dead*		
	Other (describe):		
Other notes (e.g., physical descriptions, distinctive behaviours, drawing)		**Position & Travel Relative to Ship [draw arrow]**	**OR** *Variable Travel Directions*
Was this observation the result of a SHIP STRIKE?		*Yes* *No* *If yes, fill out "MMSO Incident Report"*	
Mitigation Action Taken			
	Yes *No*		
If yes, describe mitigation actions (e.g., change in course or speed) and result (e.g., maintained a buffer of x metres from wildlife)	**ACTION:** **RESULT:**		

[1] *Refer to list of species in the ID Guides.*

APPENDIX C SEABIRD MONITORING STANDARD OPERATING PROCEDURE

Meadowbank and Meliadine Projects

Seabird Monitoring

STANDARD OPERATING PROCEDURE SHIP-02

June 25, 2024 Version C.3

Scope of Work: This SOP provides guidance for seabird monitoring procedures for shipping companies contracted by Agnico Eagle. Monitoring is conducted to avoid potential effects to seabirds. The shipping companies are required to record seabird observations based on the protocols outlined in this SOP along the shipping route between Hudson Strait and Helicopter Island/Rankin Inlet.

Contacts: **Agnico Eagle**
mmso@agnicoeagle.com

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5. REFERENCES AND RECOMMENDED GUIDES 11

ATTACHMENT A SEABIRD SIGHTINGS FORM
ATTACHMENT B MMSO INCIDENT REPORT FORM
ATTACHMENT C COMMON SEABIRD ID GUIDE
ATTACHMENT D INCIDENTAL MARINE WILDLIFE SIGHTINGS FORM

1. PROGRAM DESCRIPTION AND OBJECTIVES

A Seabird Monitoring Standard Operating Procedure (SOP) has been developed to guide onboard monitoring for seabirds. This SOP satisfies the Meadowbank Mine NIRB Project Certificate No. 008 Condition 40 and the Meliadine NIRB Project Certificate No.006 Condition 82.

The purpose of this SOP is to identify the monitoring and mitigation procedures for shipping companies contracted by Agnico Eagle to avoid potential effects to seabirds, as per the Marine Mammal and Seabird Monitoring (MMSO) program. This document outlines the following:

- How to avoid or adjust shipping speed near sensitive wildlife habitat along shipping routes;
- How to record observations of seabirds;
- Potential mitigation if large groups of seabirds are observed;
- How to record and report mitigation measures taken, if applicable; and
- How to record and report ship strikes of seabirds, if they occur.

Agnico Eagle will update this SOP as necessary, in response to feedback from Environment and Climate Change Canada (ECCC) or in response to data collected in the field or scientific advances.

2. SEABIRD MONITORING

2.1 Overview

The following protocol will be implemented during the Marine Mammal and Seabird Observer (MMSO) program:

- A minimum of one assigned MMSO will be present on-board vessels during all transits;
- The MMSO will conduct seabird observations along the shipping route from the bridge during daylight hours and record sightings into the *Seabird Sightings Form* (Attachment A); and
- The shipping contractor will initiate mitigation measures designed to minimize Project impacts on seabirds, as identified in the Marine Shipping Mitigation Summary Booklet (e.g., remain 500 m from bird colonies on land, remain 2 km from Marble Island, remain 500 m from large aggregations of seabirds on water).

2.2 Training

The captain is responsible to assign an MMSO to the bridge, and to ensure that the MMSO has been trained to identify marine mammals and seabirds.

Training for the assigned MMSOs includes:

- The pre-trip training live webinar, or review of the recorded webinar prior to beginning the MMSO duties. The recorded webinar will also be available on the ship for review as needed;
- Review the Seabird Monitoring SOP (this document), the Marine Shipping Mitigation Summary Booklet, and the Marine Mammal Monitoring SOP (SOP #SHIP-01);
- Review how to fill out the *Seabird Sightings Form* (Attachment A) and the *Marine Mammal and Seabird Observer (MMSO) Incident Report Form* (Attachment B);
- Review seabird identification, including common species provided in Attachment C; and
- Know how to estimate distances to animals observed.

2.3 Equipment Checklist

Bridge staff participating in wildlife monitoring will require the following:

1. This SOP;
2. *Seabird Sightings Form* (Attachment A);
3. Seabird ID Guide (Attachment C);
4. *MMSO Incident Report Form* (Attachment B);
5. Binoculars;
6. GPS (only required if unable to get GPS coordinates from the ship); and
7. Clipboard and pencil.

2.4 Seabird Monitoring Methods

Seabird surveys are required along the shipping route from Hudson Strait to Helicopter Island/Rankin Inlet, and during the return journey from Helicopter Island/Rankin Inlet through Hudson Strait (Figure 2.4-1). Surveys must be conducted a minimum of once daily, but three times per day is preferred.

General environmental and seabird sightings information is to be collected and recorded by filling out the *Seabird Sightings Form* (Attachment A). The protocol outlined in this section are best conducted along a transect line, therefore, it is best to start a seabird observation period when the vessel is and will be moving in a straight line for an extended period of time.

2.4.1 Observation Period

- Seabird monitoring is required from Hudson Strait to Helicopter Island (Meadowbank) or Rankin Inlet (Meliadine), along the shipping route presented in Figure 2.4-1.
- If possible, attempt to prioritize conducting surveys around Coats Island, when passing near the shore entering Hudson Bay, and/or approaching Helicopter Island/Rankin Inlet.
- If the vessel is moving (preferred), use methods in Section 2.4.3; if vessel is not moving (stationary), use the methods in Section 2.4.4 below.
- For moving vessel:
    - Conduct three surveys per day, when possible: one morning, one afternoon, and one evening.
    - Each seabird survey period will be conducted during **six consecutive five-minute periods** (total of 30 minutes each session). Take a short break at the end of each five-minute period to record the vessel's position and any conditions (ship speed, direction, weather, etc.) that may have changed since the last five-minute survey period.
    - Each five-minute survey should be dedicated to surveying for seabirds only and should be completed regardless if birds are present or not.
- For each observation period, document information on the ship's location, travelling speed and direction, environmental conditions on a *Seabird Sightings Form* (one form per observation period).

2.4.2 Observer Position

- Observations should be done from a high location on the vessel, when possible, at a location as close to the port or starboard edge of the platform as possible to increase the detection of seabirds.

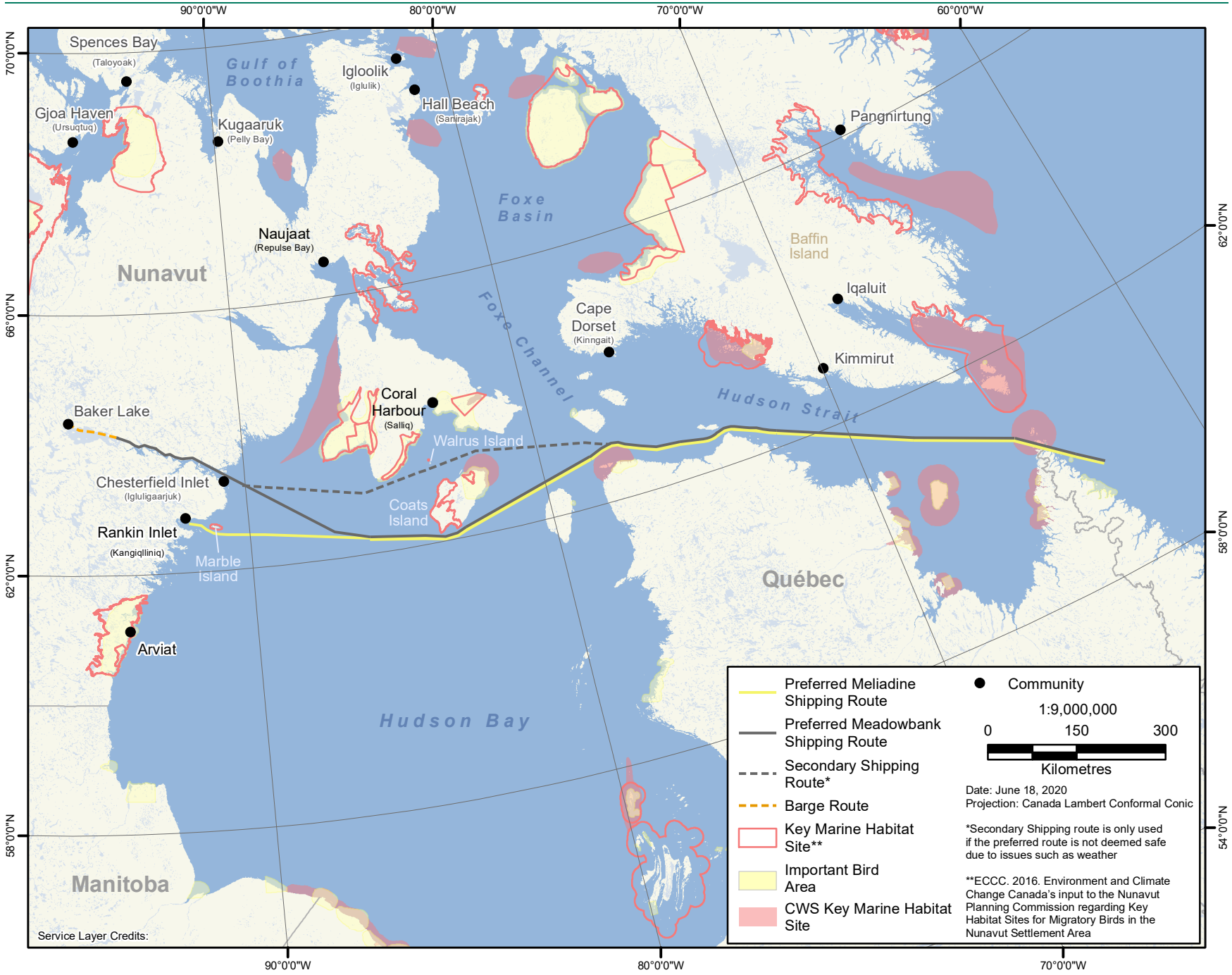


Figure 2.4-1: Shipping Routes during the Open Water Season

2.4.3 Survey Methods – Moving Vessel

- Conduct 1 to 3 dedicated surveys per day
- Each survey lasts 30 min, made up of ***6 separate 5-min observation periods***, beginning in Hudson Strait (see Figure 2.4-2).
- Look forward from the side of the vessel, scanning at a 90° angle from either the port or starboard side depending where the observer is located.
- The transect width within which seabirds are recorded is 300 m from the side of the vessel (see Figure 2.4-3).
- Begin all five-minute surveys by conducting a snapshot survey of birds in flight – i.e., an initial count of all birds seen flying (Section 2.4.3.1).
- Scan ahead regularly (e.g., every minute) to spot birds that may dive as the vessel approaches.
- All birds observed within the 300 m transect, whether flying or on the water, or on sea ice or land, are recorded and are considered in-transect sightings. (Figure 2.4-3).
- Use Figure 2.4-3 (A to E, or T) to record the distance to each bird or flock of birds (to the center of the flock). Ensure to record birds/group of birds only once.
- Birds observed outside the 300 m transect are also recorded if this does not affect observations within the 300 m transect. Distance categories “E” and “T” in Figure 2.4-3 are both considered not in transect.
- Binoculars and spotting scopes can be used to confirm species identification and other details as necessary.
- When a survey period cannot be done because of poor visibility (i.e., when the entire width of the 300 m transect is not visible), the extent of visibility should be noted on the *Seabird Sightings Form*.
- If no birds are observed during a five-minute survey period, “no seabirds observed” must be noted in the “Notes” on the *Seabird Sightings Form*.
- For each observation period crew will document information on the ship’s location, travelling speed and direction, environmental conditions and the details of the wildlife observation (species, behaviour, distance from ship, etc.) on a *Seabird Sightings Form*.
- Attachment C (Common Seabird ID Guide) summarizes general species groups and individual species that are most likely to be observed and is meant to provide a cheat-sheet for only the most common species – other species may occur and Bird ID book can be used. Note that recording a general species group or “unknown species” with a description of the bird in the comments column is better than an incorrect species identification.
- When possible, take photographs of seabird sightings and record the photo name/number alongside sightings records. These photos must be provided to Agnico Eagle along with the completed datasheets
- Ensure no cell on the *Seabird Sightings Form* is left blank.

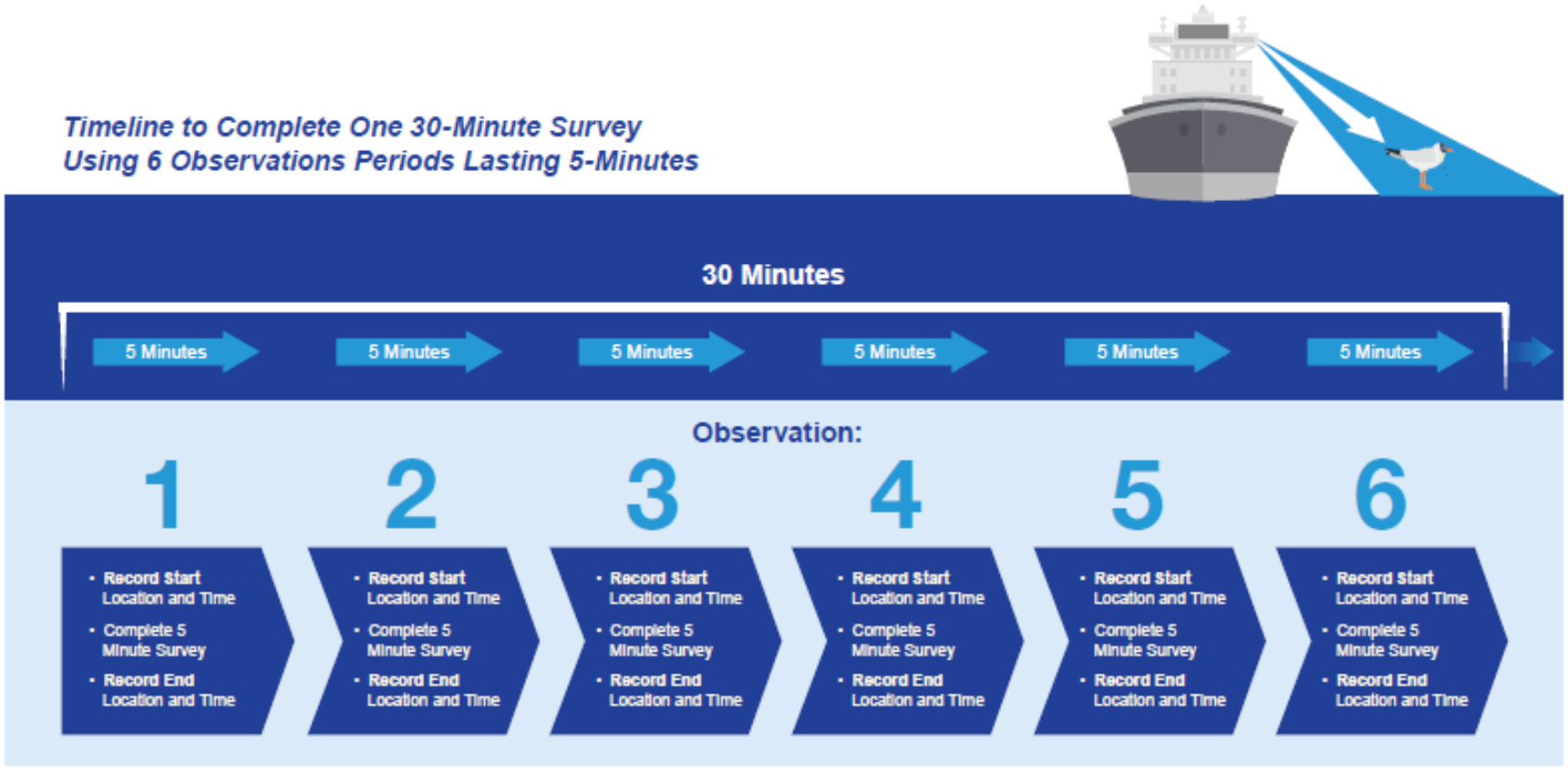
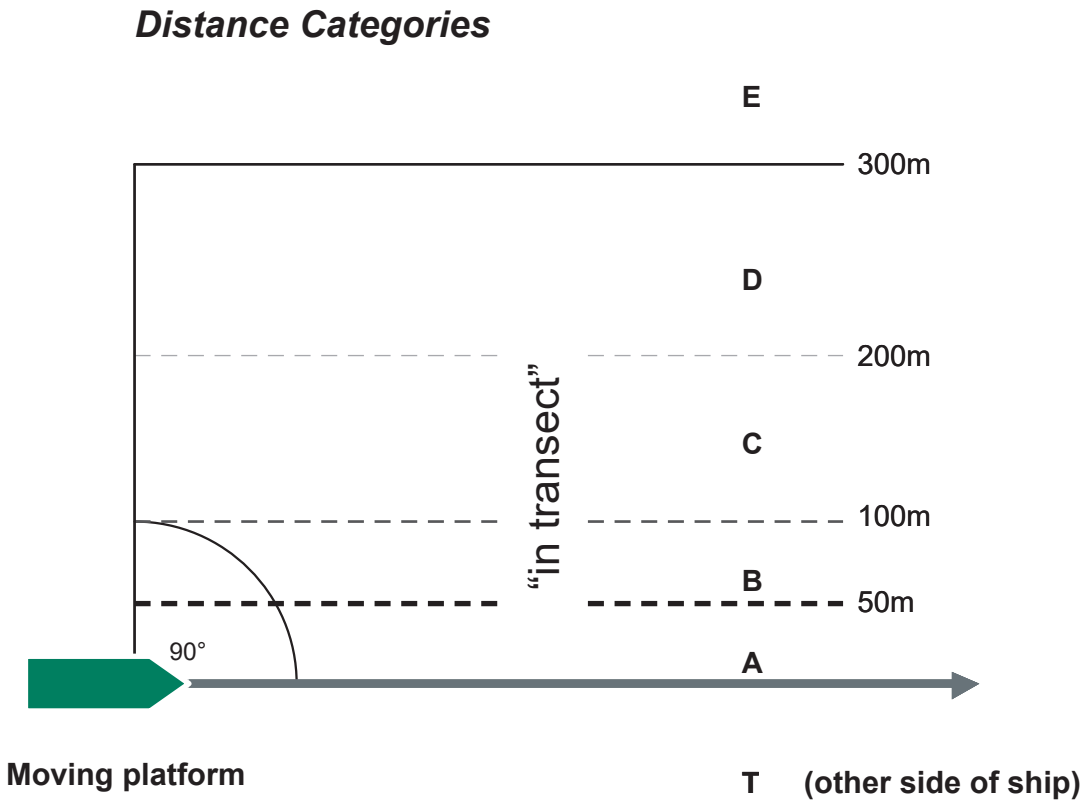


Figure 2.4-2: Seabird Survey Methodology using Six Consecutive 5-Minute Observation Periods



Extracted from Gjerdrum et al. 2012

Figure 2.4-3: Average Proportion of Each Behaviour Type Observed Among at the Start of the Survey.

2.4.3.1 Tips for Recording Birds

If the species of seabird cannot be identified, please ensure to indicate the species group (e.g., gull, puffin-like seabird) as described in the Common Seabird ID Guide (Attachment C), and provide a description of the bird in the comments column of the *Seabird Sightings Form*.

Birds on the Water

- All birds observed on the water are recorded throughout the five-minute survey period. If birds in the transect fly off the surface of the water as the vessel approaches, use binoculars to help count them, and record these birds as being on the water. Ensure not to record twice as flying birds during a snapshot survey.

Large Groups of Birds

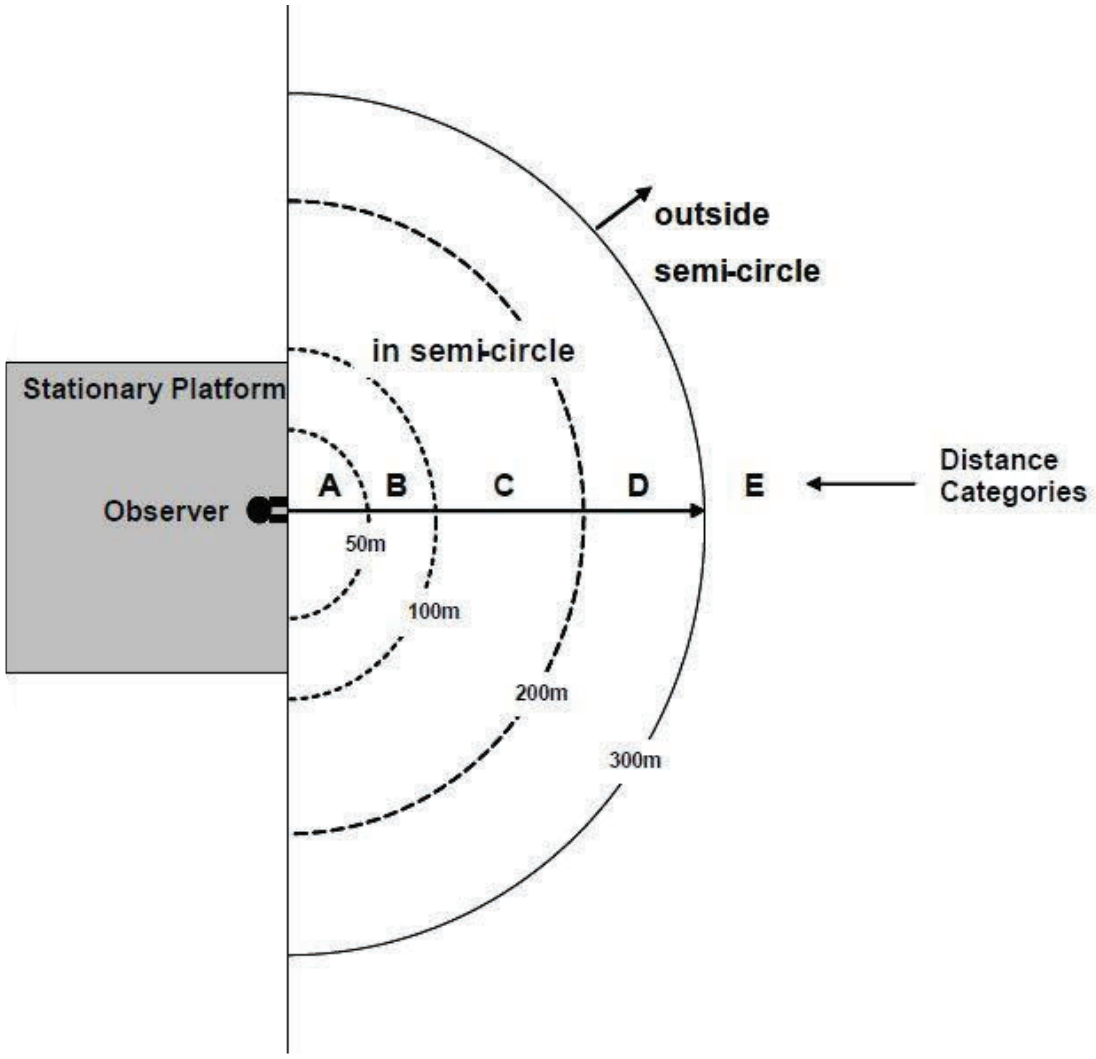
- If it is not practical to estimate distance to each bird or flock of birds, record whether the birds were observed in or out of transect. If it is not practical to note which birds are on the water and which are in flight use the following guidelines:
  - If the majority of the birds are in the air, they can be recorded as flying.
  - If birds appear first on the water and then fly away as the vessel approached, or they continuously move between the water and air, recorded them being as on the water.

Birds that Follow the Vessel

- To avoid double counting birds, once a bird is recorded in-flight it is not subsequently recorded again if it follows the ship.

2.4.4 Survey Methods – Stationary Vessel

- If the vessel is stationary (e.g., anchored) for a day or portion of a day, then a seabird survey will be required every hour while anchored. A minimum of one survey per day should be conducted.
- Surveys when the vessel is stationary are conducted from the bow (front) of the vessel.
- The length of each scan will depend on the number of birds present at the time of the scan (e.g., it may only last a few seconds if there are no birds present).
- Surveys while the vessel is stationary (e.g., on standby or anchored) are done using counts of birds within a 300 m “semi-circle” area from the vessel, scanning through a 180° arc (Figure 2.4-4).
- All seabirds on water and in flight that are observed within 300 m are recorded. If seabirds are visible beyond 300 m, they are recorded as outside of the 300 m semi-circle.
- The distance to seabirds (inside and outside the 300 m area) from the observer is estimated and recorded for all birds, using Figure 2.4-4 (A to E).
- Binoculars and spotting scopes can be used to confirm species identification and other details as necessary.
- If no birds are observed during the survey, “no seabirds observed” must be noted on the *Seabird Sightings Form*.



Source: extracted from Gjerdrum et al. 2012

Figure 2.4-4: Seabird Survey Using an 180º Scan from the Bow, Surveying an Area 300 m from a Stationary Observer

2.5 Incidental Seabird Sightings – "Off Effort"

During sailing between Hudson Strait and Helicopter Island/Rankin Inlet, the ship's crew is required to keep watch for groups of seabirds along the shipping route. This is in addition to the MMSO dedicated surveys. Whenever a group of seabirds is observed outside of the dedicated survey time, this is called an incidental sighting, or "off-effort" sighting. These sightings are recorded on the *Incidental Marine Wildlife Sightings Form* (Attachment D) and provided to Agnico Eagle for reporting. This includes sightings of large groups of seabirds on water, colonies of seabirds on land, or large flocks of seabirds flying.

If an incidental sighting is close to the vessel and requires mitigation measures, or if a ship strike occurs, refer to Section 3 of this SOP and complete the *MMSO Incident Report Form* (Attachment B).

3. MITIGATION AND COLLISION REPORTING

In the event bridge crew observe large groups of seabirds requiring mitigation or management measures, recommended responses are outlined in Table 3-1. Mitigation responses will be documented on the *Seabird Sightings Form* in the "Comments" column for that observation.

Table 3-1: Recommended Shipping Mitigation Responses for Seabirds

Observation	Management Response
Seabirds	
Marble Island	2 km
Colonies and aggregations of seabirds (on water or land) during Project shipping transiting through Hudson Strait, Hudson Bay, and Chesterfield Inlet	500 m setback

If bridge crew determine a ship strike of a group of seabirds has occurred, they will complete the *MMSO Incident Report Form* (Attachment B), and indicate on the *Seabird Sightings Form* that the observation was the result of a ship strike. In the event of a suspected ship strike with birds on the water, the water will be scanned for any evidence of injured or deceased birds. In the event of a suspected ship strike with birds flying into the vessel, the MMSO will be tasked with immediately scanning the water and with undertaking a systematic walk-through to search the vessel deck for dead, stranded or injured birds.

In addition, as vessel strikes with marine birds often occur at night due to birds being attracted to vessel lights, the MMSO will also be tasked with undertaking opportunistic walk-throughs of the deck in the mornings. All birds found injured, stranded or dead on each vessel will be documented in accordance with the *Procedures for handling and documenting stranded birds encountered on infrastructure offshore Atlantic Canada* (ECCC-CWS 2017) on the *Incident Report Form* (Attachment B).

All records of bird collisions will be provided to Canadian Wildlife Service (CWS) on a weekly basis, as vessel communications allow (i.e., as internet connections allow). Immediate reporting will be required in the event that multiple bird collisions occur (involving more than five individuals) and the incidents appear related (i.e., similar time period, location, and weather conditions). In this instance, the regional Environment and Climate Change Canada (ECCC) Wildlife Enforcement Officer (contact information provided below) will be contacted to provide advice on the implementation of adaptive management techniques to attempt to reduce the likelihood of collisions occurring in the future.

If a seabird and vessel collision occurs, contact:

- ECCC Wildlife Enforcement: ec.dalfnord-wednorth.ec@canada.ca

4. END OF TRIP REPORTING REQUIREMENTS

The following information will be submitted to the Agnico Eagle Environment Team (contact information provided at the top of this SOP) after each shipping trip for collation into a database:

1. Spatial file of the shipping route;
2. Completed *Seabird Sightings Form*s;
3. Completed *MMSO Incident Report Form* (if required); and
4. Photographs taken of sightings.

5. REFERENCES AND RECOMMENDED GUIDES

ECCC. 2016. *Environment and Climate Change Canada's input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area*. Revised May 2016. 140 pp.

Gjerdrum et al. 2012. *Eastern Canada Seabirds at Sea (ECSAS) Standardized Protocol for Pelagic Seabird Surveys from Moving and Stationary Platforms*.

Latour, P. B., J. Leger, J. E. Hines, M. L. Mallory, D. L. Mulders, H. G. Gilchrist, P. A. Smith, and D. L. Dickson. 2008. *Key Migratory Bird Terrestrial Habitat Sites in the Northwest Territories and Nunavut*. Canadian Wildlife Service Occasional Paper Number 114. Canadian Wildlife Service: Ottawa, ON.

Mallory, M. L. and A. J. Fontaine. 2004. *Key Marine Habitat Sites for Migratory Birds in Nunavut and the Northwest Territories*. Canadian Wildlife Service Occasional Paper Number 109. Canadian Wildlife Service: Ottawa, ON.

Sibley. 2016. *Field Guide to the Birds of Eastern North America: Second Edition.*

ATTACHMENT A SEABIRD SIGHTINGS FORM

AGNICO EAGLE

Seabird Sightings Form (circle options that are *italicized* as appropriate)

Survey Type (*circle one*)**:**	***Moving Vessel***	***Stationary Vessel***			
General Information					
Date (DD/MMM/YYYY)		**Observer Name**		**Height of Eye (m)**	
Vessel Information					
Company/Agency		**Vessel Type**		**Vessel Heading**	
Vessel Name		**Vessel Activity**	*Moving* *Stationary*	**Vessel Speed (kt)**	
Environmental Information					
Weather	*Clear* *Partly Cloudy* *100% Cloud* *Fog* *Rain* *Snow*			**Sea State (0-9)**	
Beaufort Wind Force	*Calm* *Light Wind* *Strong Wind* *Gale Force Wind* *Stormy*			**Wave Height (m)**	
Wind Direction (Deg)		**Glare Conditions**	*None* *Slight* *Grey* *Bright*	**Visibility (km)**	
Survey Information					
Observer Location	*Outdoors* *Indoors*	**Observation Side**	*Starboard*	*Port*	*Bow*
Notes:					

5-min Survey #1 of 6 Start		**Local Time (24 hr)**		**Latitude (DD)**		**Longitude (DD)**			
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #1 of 6 End		**Local Time (24 hr)**		**Latitude (DD)**		**Longitude (DD)**			

5-min Survey #2 of 6 Start		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #2 of 6 End		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	

5-min Survey #3 of 6 Start		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #3 of 6 End		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	

5-min Survey #4 of 6 Start		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #4 of 6 End		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	

5-min Survey #5 of 6 Start		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #5 of 6 End		Local Time (24 hr)			Latitude (DD)			Longitude (DD)	

5-min Survey #6 of 6 Start		**Local Time (24 hr)**			**Latitude (DD)**			**Longitude (DD)**	
Species	**Count**	**Observation Type (Fly or Water)**	**In Transect (Y/N)**	**Distance Zone (A,B,C,D,E)**	**Behaviour (escape flight, rafting, other)**	**Flight Direction (Deg)**	**Age (Adult/ Young)**	**Plumage (breeding/ non-breeding/molt)**	**Comments***
5-min Survey #6 of 6 End		**Local Time (24 hr)**			**Latitude (DD)**			**Longitude (DD)**	

ATTACHMENT B MMSO INCIDENT REPORT FORM

AGNICO EAGLE

Marine Mammals and Seabird Observer (MMSO) Incident Report

Project Information			
Client: Agnico Eagle		**Date:**	
Project Name (circle one): *Meadowbank* *Meliadine*		**General Location:**	
Latitude (DD):		**Longitude (DD):**	
Vessel Contractor Information			
Vessel Contractor Name:		**Site Supervisor or Captain:**	
Vessel Name/Type:		**MMSO Name:**	
General Weather Conditions (throughout the day):	**Wind (knots)**:		
	Sea State:		
	Swell Height (m):		
	Temperature (°C):		
	Notes:		
Time Start/Time End MMSO Duties (HH:MM):	**Start:**	**End:**	

Record of Vessel-Animal Collisions/Interactions in Water

Species	Number of Individuals	Time (HH:MM)	Location		Visibility (m)/ Sea State	Comments
			Latitude (DD)	Longitude (DD)		

Record of Bird on Deck

Species	Number of Individuals	State of Bird (injured, stranded, or dead)	Time (HH:MM)	Visibility (m)/ Sea State	Comments

Mitigation Log

Time (UTC; HH:MM)	Was Mitigation Implemented?	Location		Rationale for Implementation
		Latitude (DD)	Longitude (DD)	

ATTACHMENT C COMMON SEABIRD ID GUIDE

COMMON SEABIRD ID GUIDE

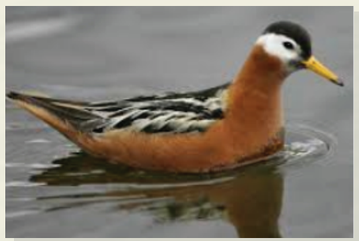
AGNICO EAGLE

Small Seabirds

Red Phalarope

Size: L 8.5” WS 17” WT 1.9 oz (55 g)

Body: Very small, shorebird-like seabird





Red-necked Phalarope

Size: L 7.75” WS 15” WT 1.2 oz (35 g)

Body: Very small, shorebird-like seabird





Puffin-like Seabirds

Atlantic Puffin

Size: L 12.5” WS 21” WT 13 oz (380 g)

Body: Small, stocky, bright bill, black and white plumage

DCs:
- Colourful bill
- Black band around neck while flying



Razorbill

Size: L 17” WS 26” WT 1.6 lbs

Body: Medium, long tail, black and white plumage

DCs:
- Large, thick bill
- Long- pointed tail
- Dark rump



Thick-billed Murre

Size: L 18” WS 28” WT 2.1 lbs

Body: Medium, stocky; black and white plumage

DCs:
- Short bill
- Pure white belly
- Larger head than Common



COMMON SEABIRD ID GUIDE

AGNICO EAGLE

Long-winged Seabirds

Northern Fulmar

Size: L 18” WS 42” WT 1.3 lbs

Body: Large, stocky and thick-necked





Gulls

Herring Gull

Size: L 25” WS 58” WT 2.5 lbs

Body: Large, white-headed

DCs:
- Medium grey back
- Black and white wing tips



Iceland Gull

Size: L 22” WS 548” WT 1.8 lbs

Body: Medium, white-headed

DCs:
- Light- great back
- No or less dark marks on wing tips



Glaucous Gull

Size: L 27” WS 60” WT 3.1 lbs

Body: Large, white-headed

DCs:
- Light- great back
- White wing tips



Black-legged Kittiwake

Size: L 17” WS 36” WT 14 oz (400g)

Body: Small, white-headed

DCs:
- Black legs
- Solid yellow bill
- Black tipped wings



Gull-like Seabirds

Long-tailed Jaeger

Size: L 15” WS 43” WT 11 oz (300 g)

Body: Medium, Slender gull-like seabird

DCs:
- Very long tail
- State grey back, dark cap
- No chest band



Parasitic Jaeger

Size: L 16.5” WS 46” WT 1 lb

Body: Medium, Slender gull-like seabird

DCs:
- Dark back and wings; dark cap
- Pale chest with weak dark band
- Longer tail



Pomarine Jaeger

Size: L 18.5” WS 52” WT 1.5 lbs

Body: Medium, heavy body, broad wings

DCs:
- Dark back and wings; dark head
- Pale chest with dark band



COMMON SEABIRD ID GUIDE

AGNICO EAGLE

Sea Ducks

Greater Scaup

Size: L 18” WS 28” WT 2.3 lbs

Body: Medium; black and white duck (male)



Common Eider

Size: L 24” WS 38” WT 4.7 lbs

Body: Large; wedge-shaped head, mainly white face, neck and back (male)



Long-tailed Duck

Size: L 16.5” WS 28” WT 1.6 lbs

Body: Small; round body, dark wings, distinctive patterns and long tail (male)





Sea Ducks/Seabirds

Surf Scoter

Size: L 20” WS 30” WT 2.1 lbs

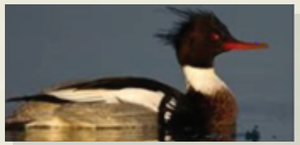
Body: Medium; dark- bodied sea duck; large multicoloured bill (male)

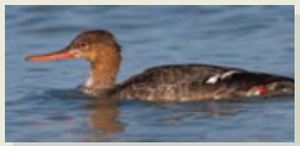


Red-breasted Merganser

Size: L 25” WS 34” WT 2.3 lbs

Body: Large; thin-billed, black, tufted- head, white neck (male)





Black Guillemot

Size: L 13” WS 21”
WT 15 oz (430g)

Body: Small; chunky, black body, white wings



Loons

Common Loon

Size: L 32” WS 46”
WT 9 lbs

Body: Very large;
thick body, boldly patterned back and neck; heavy bill

DCs:
- Black head and bill
- Black and white pattern on back
- White chest and belly



Red-throated Loon

Size: L 25” WS 38”
WT 3.1 lbs

Body: Large; smaller, slender body, short neck compared to Common

DCs:
- Grey head and back
- Rust coloured throat
- White chest and belly



ATTACHMENT D INCIDENTAL MARINE WILDLIFE SIGHTINGS FORM

AGNICO EAGLE

Incidental Marine Wildlife Sightings Form

(1 form per observation; PLEASE PRINT; circle options provided in *italics* as appropriate)

General Information			
Vessel Name		**Date**	
Observer Name		**Local Time (24 hr)**	
Vessel Information			
Ship Speed (kt)		**Ship Heading (compass)**	
Latitude (decimal degrees)		**Longitude (decimal degrees)**	
Environmental Information			
Beaufort Wind Force		**Visibility (km)**	
Wind Direction			
Observation Information			
Species[1]		**ID Reliability**	*Positive / Probable / Maybe*
Distance from vessel when first seen (m)		**How close did the animal get to the vessel (m)?**	
Number of Individuals	*Best Estimate:* **OR** *Maximum/Minimum:*		
Behaviour	**Mammals:** *Swimming* *Diving* *Feeding*		
	Dead *Resting on land* *Resting on ice* *Other:*		
	Birds: *Flying* *Feeding* *Resting on ocean surface*		
	Resting on land *Escape Ship - Flying* *Escape Ship - Diving* *Dead*		
	Other (describe):		
Other notes (e.g., physical descriptions, distinctive behaviours, drawing)		**Position & Travel Relative to Ship [draw arrow]**	 **OR** *Variable Travel Directions*
Was this observation the result of a SHIP STRIKE?		*Yes* *No* *If yes, fill out "MMSO Incident Report"*	
Mitigation Action Taken			
	Yes *No*		
If yes, describe mitigation actions (e.g., change in course or speed) and result (e.g., maintained a buffer of x metres from wildlife)	**ACTION:** **RESULT:**		

[1] *Refer to list of species in the ID Guides*

APPENDIX D MARINE MAMMAL SURVEY DATA AND SIGHTINGS INFORMATION, 2024

APPENDIX D: MARINE MAMMAL SURVEY DATA AND SIGHTINGS INFORMATION, 2024

Survey Target	Project	Date	Survey Type	Time at Start	Time at End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Visibility (km)	Weather Notes	Glare Condition Notes	Sea State Code	Wave Height (m)	Wind Speed (Beaufort Scale)	True Wind Direction (deg)	Height of Eye (m)	Species Observed?	Species	Count
Mammals	Meliadine	08-Aug-24	Transect	13:25	-	-	063°56.30'N	093°57.60'W	062°47.60'N	092°05.50'W	20	Clear	None	1	0.1	Light Wind	270	25	Yes	Muskox	1
Mammals	Meliadine	09-Aug-24	Transect	9:00	10:12	01:12:00	062°34.10'N	090°11.20'W	062°47.70'N	092°05.20'W	16	Clear	None	2	0.2	Light Wind	270	25	No	No Observations	N/A
Mammals	Meliadine	10-Aug-24	Stationary	0:00	23:59	23:59:00	062°47.70'N	092°05.70'W	062°47.70'N	042°05.70'W	10	Clear	None	1	0.2	Light Wind	270	25	No	No Observations	N/A
Mammals	Meliadine	20-Aug-24	Transect	14:00	16:00	02:00:00	061°36.60'N	068°18.30'W	061°45.00'N	068°56.20'W	20	Clear	None	5	2	Strong Wind	316	25	No	No Observations	N/A
Mammals	Meliadine	21-Aug-24	Transect	12:00	14:00	02:00:00	062°49.40'N	076°07.80'W	062°46.20'N	077°04.30'W	20	Clear	None	3	0.75	Strong Wind	250	20	No	No Observations	N/A
Mammals	Meliadine	22-Aug-24	Transect	12:00	14:00	02:00:00	062°03.20'N	085°25.50'W	062°08.00'N	086°11.10'W	15	Clear	None	3	0.5	Light Wind	225	20	No	No Observations	N/A
Mammals	Both	30-Sep-24	Transect	12:00	13:30	01:30:00	060°49.10'N	066°00.40'W	060°56.30'N	066°33.40'W	10	Clear	Bright	3	1	Calm	270	30	Yes	White Sided Dolphin	2
Mammals	Both	30-Sep-24	Transect	12:00	13:30	01:30:00	060°49.10'N	066°00.40'W	060°56.30'N	066°33.40'W	10	Clear	Bright	3	1	Calm	270	30	Yes	White Sided Dolphin	2
Mammals	Both	01-Oct-24	Transect	14:00	15:00	01:00:00	062°36.00'N	076°36.00'W	062°36.00'N	077°14.00'W	20	Partly Cloudy	None	5	2	Gale Force Wind	150	30	No	No Observations	N/A
Mammals	Both	02-Oct-24	Transect	14:00	16:00	02:00:00	-	-	-	-	20	Clear	-	6	3	Strong Wind	175	30	No	No Observations	N/A
Mammals	Both	03-Oct-24	Transect	8:10	-	-	063°01.00'N	085°11.00'W	-	-	10	100% Cloud	None	6	3	Strong Wind	135	30	Yes	Atlantic Walrus	1
Mammals	Both	03-Oct-25	Transect	8:20	-	-	063°01.00'N	085°11.00'W	-	-	11	100% Cloud	None	6	3	Strong Wind	135	30	Yes	Atlantic Walrus	1
Mammals	Both	03-Oct-26	Transect	8:20	-	-	063°01.00'N	085°11.00'W	-	-	12	100% Cloud	None	6	3	Strong Wind	135	30	Yes	Atlantic Walrus	1
Mammals	Both	03-Oct-24	Transect	15:00	16:00	01:00:00	-	-	-	-	10	Partly Cloudy	None	5	2	Strong Wind	150	30	No	No Observations	N/A
Mammals	Both	06-Aug-24	Transect	15:00	17:00	02:00:00	061°50.10'N	069°29.30'W	061°58.40'N	070°12.80'W	15	100% Cloud	Slight Grey	2	0.3	Calm	294	33	No	No Observations	N/A
Mammals	Both	07-Aug-24	Transect	15:00	17:00	02:00:00	062°40.00'N	080°10.00'W	062°34.40'N	081°91.30'W	20	Partly Cloudy	Slight Grey	3	0.5	Light Wind	340	33	No	No Observations	N/A
Mammals	Both	08-Aug-24	Transect	14:00	17:00	03:00:00	062°35.20'N	090°44.30'W	062°41.60'N	091°53.90'W	15	Clear	Slight Grey	2	0.2	Light Wind	230	33	No	No Observations	N/A
Mammals	Both	10-Aug-24	Stationary	18:00	20:00	02:00:00	-	-	-	-	20	Partly Cloudy	Slight Grey	0	0	Calm	-	33	No	No Observations	N/A
Mammals	Both	12-Aug-24	Transect	17:35	19:05	01:30:00	060°38.90'N	063°58.00'W	060°42.50'N	094°15.80'W	-	Clear	None	0	0.5	Calm	-	21.7	No	No Observations	N/A
Mammals	Both	13-Aug-24	Transect	18:00	-	-	062°31.30'N	073°56.00'W	062°30.50'N	074°40.70'W	7.4	Fog	-	1	0	Light Wind	270	-	No	No Observations	N/A
Mammals	Both	14-Aug-24	Transect	18:05	-	-	062°02.00'N	089°48.70'W	-	-	50	Partly Cloudy	-	3	0.5	Light Wind	-	21.7	No	No Observations	N/A
Mammals	Both	15-Aug-24	Stationary	15:00	17:00	02:00:00	-	-	-	-	10	Partly Cloudy	Slight Grey	1	0.1	Light Wind	210	33	No	No Observations	N/A
Mammals	Both	15-Aug-24	Transect	21:00	22:00	01:00:00	062°39.60'N	091°20.10'W	-	-	14	Partly Cloudy	None	1	1	Light Wind	45	21	No	No Observations	N/A
Mammals	Both	16-Aug-24	Stationary	18:00	-	-	063°57.30'N	093°34.90'W	-	-	-	Partly Cloudy	-	-	-	Light Wind	-	21.7	No	No Observations	N/A
Mammals	Both	17-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Partly Cloudy	None	1	1	Light Wind	45	21	No	No Observations	N/A
Mammals	Both	18-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Partly Cloudy	None	1	1	Light Wind	45	21	No	No Observations	N/A
Mammals	Both	19-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Clear	None	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Both	20-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Clear	None	1	1	Light Wind	135	21	No	No Observations	N/A
Mammals	Both	21-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Partly Cloudy	None	1	1	Light Wind	180	21	No	No Observations	N/A
Mammals	Both	21-Aug-24	Transect	15:00	17:00	02:00:00	062°32.00'N	090°12.60'W	062°27.30'N	089°25.70'W	0.5	Fog	Slight Grey	4	1	-	225	33	No	No Observations	N/A
Mammals	Both	22-Aug-24	Stationary	20:00	21:00	01:00:00	063°57.20'N	093°34.60'W	063°57.20'N	093°34.60'W	10	Partly Cloudy	None	1	1	Light Wind	315	21	No	No Observations	N/A
Mammals	Both	22-Aug-24	Transect	15:00	17:00	02:00:00	062°40.00'N	079°16.30'W	062°39.70'N	078°23.20'W	2	Fog	Slight Grey	4	1.5	Strong Wind	225	33	No	No Observations	N/A
Mammals	Both	23-Aug-24	Transect	13:00	14:00	01:00:00	061°42.50'N	068°50.80'W	061°37.90'N	068°25.10'W	10	Rain	-	3	1	Light Wind	-	33	No	No Observations	N/A
Mammals	Both	23-Aug-24	Transect	15:20	16:40	01:20:00	062°39.60'N	077°57.70'W	062°38.20'N	077°20.90'W	-	Clear	-	3	-	Light Wind	0	21.7	No	No Observations	N/A
Mammals	Both	23-Aug-24	Transect	18:30	-	-	062°45.80'N	087°42.20'W	062°38.50'N	087°05.40'W	-	Clear	-	3	-	Light Wind	315	21.7	No	No Observations	N/A
Mammals	Both	24-Aug-24	Transect	8:00	9:00	01:00:00	062°10.30'N	081°33.70'W	-	-	10	Clear	-	1	1	Light Wind	0	21	No	No Observations	N/A
Mammals	Both	25-Aug-24	Transect	-	-	-	-	-	-	-	-	Clear	-	1	0.5	Calm	225	25	No	No Observations	N/A
Mammals	Both	26-Sep-24	Transect	8:46	10:16	01:30:00	061°45.70'N	070°07.60'W	061°54.80'N	070°48.40'W	12	Partly Cloudy	None	1	0.3	Light Wind	129	20.5	No	No Observations	N/A
Mammals	Both	27-Sep-24	Transect	9:00	10:30	01:30:00	061°19.30'N	079°47.60'W	061°09.90'N	080°28.40'W	0.4	Fog	None	2	1.5	Strong Wind	155	20.5	No	No Observations	N/A
Mammals	Both	28-Sep-24	Transect	8:45	10:15	01:30:00	062°21.80'N	089°52.60'W	062°30.90'N	090°33.80'W	12	Clear	None	3	1.5	Strong Wind	277	20.5	No	No Observations	N/A
Mammals	Both	29-Sep-24	Stationary	18:45	20:15	01:30:00	063°56.60'N	093°36.40'W	063°56.60'N	093°36.40'W	12	Partly Cloudy	None	1	0.8	Light Wind	195	20.5	No	No Observations	N/A
Mammals	Both	30-Sep-24	Stationary	18:40	20:10	01:30:00	063°56.50'N	093°36.80'W	063°56.50'N	093°36.80'W	12	100% Cloud	None	2	1.5	Strong Wind	42	20.5	No	No Observations	N/A
Mammals	Both	01-Oct-24	Stationary	18:45	20:15	01:30:00	063°56.40'N	093°36.80'W	063°56.40'N	093°36.80'W	10	Rain	None	2	1	Strong Wind	5	20.5	No	No Observations	N/A
Mammals	Both	02-Oct-24	Stationary	18:40	20:10	01:30:00	063°56.40'N	093°36.90'W	063°56.40'N	093°36.90'W	10	100% Cloud	None	2	1	Strong Wind	2	20.5	No	No Observations	N/A
Mammals	Both	03-Oct-24	Stationary	19:00	20:30	01:30:00	063°56.40'N	093°36.70'W	063°56.40'N	093°36.60'W	12	Rain	None	2	0.8	Strong Wind	320	20.5	No	No Observations	N/A
Mammals	Both	04-Oct-24	Stationary	18:50	20:20	01:30:00	063°56.40'N	093°36.50'W	063°56.40'N	093°36.50'W	12	100% Cloud	None	2	0.8	Strong Wind	332	20.5	No	No Observations	N/A
Mammals	Both	05-Oct-24	Stationary	18:45	20:15	01:30:00	063°56.50'N	093°36.40'W	063°56.50'N	093°36.40'W	12	100% Cloud	None	2	0.8	Strong Wind	280	20.5	No	No Observations	N/A
Mammals	Both	06-Oct-24	Stationary	18:40	20:10	01:30:00	063°56.50'N	093°36.40'W	063°56.50'N	093°36.40'W	12	Partly Cloudy	None	1	0.3	Light Wind	215	20.5	No	No Observations	N/A
Mammals	Both	07-Oct-24	Stationary	18:40	20:10	01:30:00	063°56.40'N	093°36.50'W	063°56.40'N	093°36.70'W	12	Partly Cloudy	None	1	0.3	Light Wind	15	20.5	No	No Observations	N/A
Mammals	Both	08-Oct-24	Stationary	18:50	20:20	01:30:00	063°56.60'N	093°36.80'W	063°56.60'N	093°36.80'W	12	100% Cloud	None	2	1	Strong Wind	140	20.5	No	No Observations	N/A
Mammals	Both	09-Oct-24	Stationary	18:50	20:20	01:30:00	063°56.70'N	093°36.90'W	063°56.70'N	093°37.00'W	12	Rain	None	2	1.2	Strong Wind	137	20.5	No	No Observations	N/A
Mammals	Both	10-Oct-24	Stationary	19:00	20:30	01:30:00	063°56.60'N	093°36.60'W	063°56.60'N	093°36.60'W	12	100% Cloud	None	1	0.3	Light Wind	180	20.5	No	No Observations	N/A
Mammals	Both	11-Oct-24	Stationary	18:50	20:20	01:30:00	063°56.40'N	093°36.40'W	063°56.50'N	093°36.40'W	12	100% Cloud	None	2	1.3	Strong Wind	300	20.5	No	No Observations	N/A
Mammals	Both	12-Oct-24	Stationary	13:00	14:30	01:30:00	063°56.40'N	093°36.40'W	063°56.40'N	093°36.50'W	12	100% Cloud	None	2	1.3	Strong Wind	325	20.5	No	No Observations	N/A

APPENDIX D: MARINE MAMMAL SURVEY DATA AND SIGHTINGS INFORMATION, 2024

Survey Target	Project	Date	Survey Type	Time at Start	Time at End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Visibility (km)	Weather Notes	Glare Condition Notes	Sea State Code	Wave Height (m)	Wind Speed (Beaufort Scale)	True Wind Direction (deg)	Height of Eye (m)	Species Observed?	Species	Count
Mammals	Both	13-Oct-24	Stationary	18:00	19:30	01:30:00	063°56.40'N	093°36.50'W	063°56.40'N	093°36.50'W	12	100% Cloud	None	2	1.3	Strong Wind	340	21.8	No	No Observations	N/A
Mammals	Both	14-Oct-24	Transect	16:45	18:15	01:30:00	062°15.00'N	085°05.80'W	062°06.50'N	084°19.40'W	8	100% Cloud	None	1	0.5	Strong Wind	264	21.8	No	No Observations	N/A
Mammals	Both	15-Oct-24	Transect	8:45	10:15	01:30:00	062°36.50'N	076°33.00'W	062°35.10'N	075°42.60'W	12	100% Cloud	None	2	1.3	Strong Wind	276	21.8	No	No Observations	N/A
Mammals	Both	16-Oct-24	Stationary	9:15	10:15	01:00:00	060°30.30'N	064°20.20'W	060°22.90'N	064°00.80'W	12	100% Cloud	None	2	1.3	Light Wind	270	21.8	No	No Observations	N/A
Mammals	Meadowbank	26-Jun-24	Transect	8:00	10:00	02:00:00	060°50.90'N	061°22.50'W	-	-	3	Rain	None	3	0.5	Light Wind	20	33	No	No Observations	N/A
Mammals	Meadowbank	27-Jun-24	Transect	8:00	10:00	02:00:00	062°13.80'N	070°58.30'W	062°23.30'N	071°43.60'W	50	100% Cloud	Slight Grey	2	0.5	Strong Wind	270	33	No	No Observations	N/A
Mammals	Meadowbank	28-Jun-24	Transect	8:00	10:00	02:00:00	061°24.90'N	079°33.10'W	061°25.90'N	080°29.30'W	2	Fog	-	2	0.2	Light Wind	10	33	No	No Observations	N/A
Mammals	Meadowbank	29-Jun-24	Stationary	15:00	17:00	02:00:00	063°14.30'N	087°25.20'W	063°12.40'N	087°16.10'W	20	Partly Cloudy	Bright	3	0.5	Light Wind	250	33	No	No Observations	N/A
Mammals	Meadowbank	30-Jun-24	Stationary	15:00	17:00	02:00:00	063°11.90'N	087°22.10'W	063°12.10'N	087°17.50'W	20	Partly Cloudy	None	0	0	Calm	240	33	No	No Observations	N/A
Mammals	Meadowbank	01-Jul-24	Transect	15:00	17:00	02:00:00	063°51.50'N	087°30.90'W	063°52.90'N	088°05.80'W	10	100% Cloud	Slight Grey	1	0	Light Wind	180	33	No	No Observations	N/A
Mammals	Meadowbank	02-Jul-24	Stationary	15:00	17:00	02:00:00	062°38.90'N	090°55.20'W	062°38.90'N	090°52.20'W	15	Clear	Bright	0	0	Calm	180	33	No	No Observations	N/A
Mammals	Meadowbank	03-Jul-24	Stationary	15:00	17:00	02:00:00	062°35.10'N	090°49.50'W	062°37.70'N	090°51.80'W	25	Partly Cloudy	Bright	0	0	Calm	90	33	No	No Observations	N/A
Mammals	Meadowbank	04-Jul-24	Stationary	8:00	-	-	062°28.40'N	090°54.80'W	062°27.90'N	090°54.50'W	30	Clear	Bright	0	0	Calm	270	33	No	No Observations	N/A
Mammals	Meadowbank	05-Jul-24	Stationary	8:00	10:00	02:00:00	062°40.30'N	090°51.10'W	062°41.50'N	090°50.20'W	20	100% Cloud	Slight Grey	0	0	Light Wind	270	33	Yes	Unknown Seal	1
Mammals	Meadowbank	06-Jul-24	Stationary	15:00	17:00	02:00:00	062°44.60'N	090°19.20'W	062°43.50'N	090°19.10'W	20	Partly Cloudy	Bright	1	0.2	Light Wind	270	33	No	No Observations	N/A
Mammals	Meadowbank	07-Jul-24	Stationary	13:00	15:00	02:00:00	062°39.20'N	090°39.20'W	062°38.80'N	090°36.70'W	20	Partly Cloudy	Slight Grey	4	1	Strong Wind	270	33	No	No Observations	N/A
Mammals	Meadowbank	08-Jul-24	Stationary	22:00	12:00	10:00:00	-	-	-	-	15	Partly Cloudy	None	1	0.2	Light Wind	315	33	No	No Observations	N/A
Mammals	Meadowbank	09-Jul-24	Stationary	20:00	22:00	02:00:00	-	-	-	-	15	Partly Cloudy	None	1	0.5	Light Wind	315	33	No	No Observations	N/A
Mammals	Meadowbank	10-Jul-24	Stationary	18:00	20:00	02:00:00	-	-	-	-	15	Partly Cloudy	None	3	0.5	Strong Wind	315	33	No	No Observations	N/A
Mammals	Meadowbank	10-Jul-24	Transect	9:30	10:30	01:00:00	060°41.80'N	061°21.60'W	060°51.60'N	061°40.40'W	40	100% Cloud	None	-	1	Strong Wind	-	20	No	No Observations	N/A
Mammals	Meadowbank	10-Jul-24	Transect	19:00	20:00	01:00:00	061°20.10'N	065°59.30'W	061°24.50'N	066°25.60'W	0.2	Fog	Bright	1	1	Strong Wind	-	20	No	No Observations	N/A
Mammals	Meadowbank	11-Jul-24	Transect	6:45	8:00	01:15:00	062°08.20'N	071°11.60'W	062°13.20'N	071°43.00'W	20	100% Cloud	None	4	1	Light Wind	150	20	No	No Observations	N/A
Mammals	Meadowbank	11-Jul-24	Transect	19:01	20:01	1:00:00	062°35.50'N	076°32.10'W	062°37.40'N	076°56.20'W	-	100% Cloud	None	4	5	Strong Wind	-	20	No	No Observations	N/A
Mammals	Meadowbank	12-Jul-24	Transect	6:50	8:00	01:10:00	062°14.30'N	081°28.30'W	062°09.80'N	081°58.90'W	25	Partly Cloudy	None	4	2	Light Wind	270	20	No	No Observations	N/A
Mammals	Meadowbank	12-Jul-24	Transect	19:01	20:01	01:00:00	062°54.00'N	086°09.80'W	063°03.10'N	086°32.80'W	1	Clear	None	2	1	Strong Wind	287	20	No	No Observations	N/A
Mammals	Meadowbank	13-Jul-24	Transect	5:42	7:00	01:18:00	063°24.20'N	090°43.40'W	063°35.30'N	091°07.20'W	20	Clear	None	1	0.5	Light Wind	310	20	Yes	Unknown Seal	1
Mammals	Meadowbank	13-Jul-24	Transect	5:42	7:00	01:18:00	063°24.20'N	090°43.40'W	063°35.30'N	091°07.20'W	20	Clear	None	1	0.5	Light Wind	310	20	Yes	Unknown Seal	1
Mammals	Meadowbank	13-Jul-24	Transect	5:42	7:00	01:18:00	063°24.20'N	090°43.40'W	063°35.30'N	091°07.20'W	20	Clear	None	1	0.5	Light Wind	310	20	Yes	Unknown Seal	1
Mammals	Meadowbank	14-Jul-24	Stationary	1:00	2:00	01:00:00	063°56.00'N	093°37.20'W	063°56.00'N	093°37.20'W	10	Clear	Bright	0	0	Calm	270	20	No	No Observations	N/A
Mammals	Meadowbank	15-Jul-24	Stationary	2:00	3:00	01:00:00	063°56.10'N	093°37.50'W	063°56.10'N	093°37.50'W	10	Clear	None	1	0	Calm	160	20	No	No Observations	N/A
Mammals	Meadowbank	16-Jul-24	Stationary	3:00	4:00	01:00:00	063°56.00'N	093°37.30'W	063°56.00'N	093°37.30'W	10	Partly Cloudy	None	2	0.3	Strong Wind	236	20	No	No Observations	N/A
Mammals	Meadowbank	16-Jul-24	Transect	21:00	22:30	01:30:00	062°30.90'N	072°11.40'W	062°35.60'N	072°49.80'W	13	Partly Cloudy	Bright	1	0.2	Light Wind	143	22	Yes	Harbour Seal	1
Mammals	Meadowbank	17-Jul-24	Stationary	7:00	8:00	01:00:00	063°56.00'N	093°37.30'W	063°56.00'N	093°37.30'W	18	Partly Cloudy	Slight Grey	1	0	Light Wind	300	20	No	No Observations	N/A
Mammals	Meadowbank	17-Jul-24	Transect	10:00	11:30	01:30:00	062°37.40'N	077°38.20'W	062°39.20'N	078°11.20'W	10	100% Cloud	Slight Grey	1	0.3	Light Wind	200	22	No	No Observations	N/A
Mammals	Meadowbank	18-Jul-24	Stationary	4:30	5:30	01:00:00	063°55.90'N	093°37.50'W	063°55.90'N	093°37.50'W	18	Clear	Bright	1	0	Calm	-	20	No	No Observations	N/A
Mammals	Meadowbank	18-Jul-24	Transect	9:20	10:50	01:30:00	062°50.20'N	085°43.10'W	062°57.00'N	086°02.60'W	12	Clear	None	1	0.3	Light Wind	337	22	No	No Observations	N/A
Mammals	Meadowbank	18-Jul-24	Transect	15:00	17:00	02:00:00	061°56.90'N	083°05.90'W	061°56.40'N	082°51.50'W	20	100% Cloud	Slight Grey	3	1	Strong Wind	0	33	No	No Observations	N/A
Mammals	Meadowbank	19-Jul-24	Stationary	5:00	6:00	01:00:00	063°35.90'N	093°37.40'W	063°55.90'N	093°37.40'W	18	100% Cloud	Slight Grey	0	0	Calm	-	20	No	No Observations	N/A
Mammals	Meadowbank	19-Jul-24	Stationary	22:00	23:30	01:30:00	063°55.60'N	093°36.80'W	063°55.60'N	093°36.80'W	12	100% Cloud	None	0	0	-	210	22	No	No Observations	N/A
Mammals	Meadowbank	19-Jul-24	Transect	15:00	17:00	02:00:00	062°31.00'N	073°18.00'W	062°27.70'N	072°42.80'W	0.5	Fog	None	6	2.5	-	90	33	No	No Observations	N/A
Mammals	Meadowbank	20-Jul-24	Stationary	4:30	5:30	01:00:00	063°56.00'N	093°37.30'W	063°56.00'N	093°37.30'W	18	100% Cloud	Slight Grey	0	0	Calm	-	20	No	No Observations	N/A
Mammals	Meadowbank	20-Jul-24	Stationary	19:15	20:45	01:30:00	063°55.50'N	093°36.80'W	063°55.40'N	093°36.90'W	12	Clear	None	0	0	Calm	238	22	No	No Observations	N/A
Mammals	Meadowbank	20-Jul-24	Transect	8:00	10:00	02:00:00	061°14.20'N	066°29.60'W	061°04.50'N	065°49.00'W	20	Partly Cloudy	Slight Grey	2	1	Strong Wind	90	33	No	No Observations	N/A
Mammals	Meadowbank	21-Jul-24	Stationary	4:30	5:30	01:00:00	063°55.90'N	093°37.50'W	063°55.90'N	093°37.50'W	-	Partly Cloudy	Bright	1	0	Calm	40	20	No	No Observations	N/A
Mammals	Meadowbank	21-Jul-24	Stationary	22:00	23:30	01:30:00	063°55.50'N	093°36.80'W	063°55.50'N	093°36.80'W	12	Partly Cloudy	None	1	0.3	-	280	22	No	No Observations	N/A
Mammals	Meadowbank	22-Jul-24	Stationary	3:30	4:30	01:00:00	063°55.90'N	093°37.30'W	063°55.90'N	093°37.30'W	18	Partly Cloudy	Slight Grey	1	0	Light Wind	320	20	No	No Observations	N/A
Mammals	Meadowbank	22-Jul-24	Stationary	22:00	23:00	01:00:00	063°55.50'N	093°37.00'W	063°55.50'N	093°37.00'W	12	Partly Cloudy	None	0	0	Calm	170	22	No	No Observations	N/A
Mammals	Meadowbank	23-Jul-24	Stationary	4:30	5:30	01:00:00	063°56.00'N	093°37.20'W	063°56.00'N	093°37.20'W	18	100% Cloud	Slight Grey	0	0	Light Wind	270	20	No	No Observations	N/A
Mammals	Meadowbank	23-Jul-24	Stationary	19:45	20:15	00:30:00	063°55.50'N	093°36.60'W	063°55.50'N	093°36.60'W	12	100% Cloud	None	1	0.3	Strong Wind	270	22	No	No Observations	N/A
Mammals	Meadowbank	24-Jul-24	Stationary	18:05	19:35	01:30:00	063°55.40'N	093°36.80'W	063°55.40'N	093°36.80'W	12	Partly Cloudy	None	3	0.7	Strong Wind	350	22	No	No Observations	N/A
Mammals	Meadowbank	24-Jul-24	Transect	5:33	7:00	01:27:00	062°09.00'N	086°40.80'W	062°06.20'N	085°56.00'W	20	Partly Cloudy	Slight Grey	3	2	Strong Wind	250	20	No	No Observations	N/A
Mammals	Meadowbank	24-Jul-24	Transect	18:40	19:40	01:00:00	062°19.80'N	080°55.80'W	062°23.80'N	080°29.40'W	-	Rain	-	7	5	Strong Wind	180	-	No	No Observations	N/A
Mammals	Meadowbank	25-Jul-24	Stationary	19:00	20:30	01:30:00	063°55.50'N	093°36.60'W	063°55.50'N	093°36.60'W	12	Partly Cloudy	None	2	0.5	Strong Wind	268	22	No	No Observations	N/A
Mammals	Meadowbank	25-Jul-24	Transect	6:34	8:00	01:26:00	062°33.40'N	075°04.60'W	062°31.90'N	074°16.60'W	20	100% Cloud	None	3	1	Strong Wind	290	20	No	No Observations	N/A

APPENDIX D: MARINE MAMMAL SURVEY DATA AND SIGHTINGS INFORMATION, 2024

Survey Target	Project	Date	Survey Type	Time at Start	Time at End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Visibility (km)	Weather Notes	Glare Condition Notes	Sea State Code	Wave Height (m)	Wind Speed (Beaufort Scale)	True Wind Direction (deg)	Height of Eye (m)	Species Observed?	Species	Count
Mammals	Meadowbank	25-Jul-24	Transect	18:45	19:45	01:00:00	061°27.60'N	068°33.20'W	061°21.30'N	068°25.50'W	20	100% Cloud	None	5	3	Light Wind	278	-	No	No Observations	N/A
Mammals	Meadowbank	26-Jul-24	Stationary	19:00	20:30	01:30:00	063°55.40'N	093°36.80'W	063°55.40'N	093°36.80'W	12	Partly Cloudy	None	0	0	Light Wind	15	22	No	No Observations	N/A
Mammals	Meadowbank	27-Jul-24	Stationary	19:00	20:30	01:30:00	063°55.50'N	093°37.00'W	063°55.40'N	093°36.90'W	12	Clear	-	1	0.2	Calm	10	22	No	No Observations	N/A
Mammals	Meadowbank	28-Jul-24	Stationary	19:00	20:30	01:30:00	063°55.40'N	093°37.00'W	063°55.50'N	093°36.90'W	12	100% Cloud	None	1	0.2	Calm	20	22	No	No Observations	N/A
Mammals	Meadowbank	29-Jul-24	Stationary	18:30	20:00	01:30:00	063°55.60'N	093°37.00'W	063°55.60'N	093°37.00'W	12	Partly Cloudy	None	1	0.3	Strong Wind	192	22	No	No Observations	N/A
Mammals	Meadowbank	30-Jul-24	Transect	21:26	-	-	062°03.00'N	082°44.40'W	062°09.10'N	082°03.30'W	12	Clear	None	2	0.3	Light Wind	152	22	No	No Observations	N/A
Mammals	Meadowbank	31-Jul-24	Transect	8:55	10:34	01:39:00	062°37.80'N	077°11.00'W	062°36.20'N	076°23.10'W	12	Clear	None	1	0.2	Light Wind	95	23	No	No Observations	N/A
Mammals	Meadowbank	01-Aug-24	Transect	9:20	-	-	061°00.80'N	066°55.00'W	060°51.70'N	066°18.50'W	12	100% Cloud	None	4	1.5	Strong Wind	73	23	No	No Observations	N/A
Mammals	Meadowbank	20-Aug-24	Transect	8:55	10:25	01:30:00	061°02.80'N	067°09.60'W	061°16.90'N	067°41.90'W	12	Partly Cloudy	None	4	1.3	Strong Wind	280	22	Yes	Common Dolphin	2
Mammals	Meadowbank	21-Aug-24	Transect	9:00	10:30	01:30:00	062°36.90'N	076°46.00'W	062°38.00'N	077°22.90'W	12	Partly Cloudy	None	2	1	Light Wind	225	22	No	No Observations	N/A
Mammals	Meadowbank	22-Aug-24	Transect	8:50	10:20	01:30:00	062°14.90'N	086°47.00'W	062°18.60'N	087°27.40'W	12	Partly Cloudy	None	3	1	Light Wind	180	22	No	No Observations	N/A
Mammals	Meadowbank	23-Aug-24	Stationary	9:00	10:30	01:30:00	063°09.90'N	090°13.00'W	063°09.00'N	090°15.10'W	12	Partly Cloudy	None	2	0.5	Strong Wind	349	22	No	No Observations	N/A
Mammals	Meadowbank	24-Aug-24	Stationary	19:00	20:30	01:30:00	063°56.10'N	093°37.00'W	063°56.10'N	093°37.00'W	12	Partly Cloudy	None	2	0.5	Light Wind	250	22	No	No Observations	N/A
Mammals	Meadowbank	25-Aug-24	Stationary	18:40	20:10	01:30:00	063°56.10'N	093°37.60'W	063°56.10'N	093°37.60'W	8	Rain	None	2	1	Strong Wind	97	22	No	No Observations	N/A
Mammals	Meadowbank	26-Aug-24	Stationary	20:50	22:20	01:30:00	063°56.00'N	093°37.50'W	063°56.00'N	093°37.50'W	12	Partly Cloudy	None	1	0.5	Light Wind	355	22	No	No Observations	N/A
Mammals	Meadowbank	27-Aug-24	Stationary	21:00	22:30	01:30:00	063°56.10'N	093°37.50'W	063°56.10'N	093°37.50'W	12	Rain	None	1	0.3	Light Wind	183	22	No	No Observations	N/A
Mammals	Meadowbank	28-Aug-24	Stationary	19:00	20:30	01:30:00	063°56.20'N	093°37.70'W	063°56.20'N	093°37.60'W	12	100% Cloud	None	1	6.3	Light Wind	177	22	No	No Observations	N/A
Mammals	Meadowbank	29-Aug-24	Stationary	19:00	20:30	01:30:00	063°56.00'N	093°37.90'W	063°56.10'N	093°38.00'W	10	Rain	None	2	1	Strong Wind	92	22	No	No Observations	N/A
Mammals	Meadowbank	30-Aug-24	Stationary	19:00	20:30	01:30:00	063°56.10'N	093°38.10'W	063°56.10'N	093°38.10'W	12	100% Cloud	None	2	1	Light Wind	3	22	No	No Observations	N/A
Mammals	Meadowbank	31-Aug-24	Stationary	18:40	20:10	01:30:00	063°56.00'N	093°37.80'W	063°56.00'N	093°37.80'W	12	Partly Cloudy	None	1	0.3	Light Wind	355	22	No	No Observations	N/A
Mammals	Meadowbank	01-Sep-24	Stationary	18:45	20:15	01:30:00	063°56.00'N	093°37.60'W	063°56.00'N	093°37.60'W	12	Partly Cloudy	None	0	0	Light Wind	0	22	No	No Observations	N/A
Mammals	Meadowbank	02-Sep-24	Stationary	18:40	20:10	01:30:00	063°56.20'N	093°37.90'W	063°56.20'N	093°37.80'W	12	100% Cloud	None	1	0.3	Light Wind	165	23	No	No Observations	N/A
Mammals	Meadowbank	03-Sep-24	Stationary	18:50	20:20	01:30:00	063°56.00'N	093°37.80'W	063°56.00'N	093°37.70'W	10	100% Cloud	None	2	1	Strong Wind	5	23	No	No Observations	N/A
Mammals	Meadowbank	04-Sep-24	Stationary	12:00	13:30	01:30:00	063°56.00'N	093°37.70'W	063°56.00'N	093°37.70'W	12	100% Cloud	None	2	1.2	Strong Wind	300	23	No	No Observations	N/A
Mammals	Meadowbank	05-Sep-24	Transect	9:20	10:50	01:30:00	062°18.20'N	085°22.00'W	062°09.90'N	084°37.70'W	12	100% Cloud	None	3	1.5	Strong Wind	346	23	No	No Observations	N/A
Mammals	Meadowbank	06-Sep-24	Transect	9:05	10:35	01:30:00	062°29.10'N	073°15.00'W	062°18.90'N	072°29.90'W	12	Partly Cloudy	None	3	1.2	Strong Wind	270	23	No	No Observations	N/A
Mammals	Meliadine	03-Jul-24	Transect	13:30	14:30	01:00:00	061°52.70'N	069°35.70'W	061°57.20'N	069°56.90'W	25	Clear	Slight Grey	2	0.5	Calm	120	21.7	No	No Observations	N/A
Mammals	Meliadine	04-Jul-24	Transect	14:20	15:20	01:00:00	062°39.00'N	079°40.00'W	062°31.20'N	080°00.20'W	1	Fog	-	5	2	Strong Wind	-	21.7	No	No Observations	N/A
Mammals	Meliadine	05-Jul-24	Stationary	19:00	20:00	01:00:00	062°20.00'N	082°26.80'W	062°20.00'N	082°26.80'W	25	Clear	-	2	0	Calm	-	2	No	No Observations	N/A
Mammals	Meliadine	06-Jul-24	Stationary	18:30	19:30	01:00:00	062°20.00'N	082°26.00'W	062°20.00'N	082°26.00'W	30	Clear	-	2	1	Calm	-	21.7	No	No Observations	N/A
Mammals	Meliadine	07-Jul-24	Stationary	18:30	19:30	01:00:00	062°20.90'N	082°26.94'W	062°20.90'N	082°26.94'W	35	Clear	Slight Grey	2	1	Calm	270	21	No	No Observations	N/A
Mammals	Meliadine	09-Jul-24	Transect	19:30	20:30	01:00:00	062°52.60'N	090°10.20'W	062°48.40'N	090°23.70'W	30	Partly Cloudy	None	3	1.5	Light Wind	-	21	No	No Observations	N/A
Mammals	Meliadine	13-Jul-24	Stationary	19:30	20:30	01:00:00	062°45.10'N	092°02.30'W	062°45.10'N	092°02.30'W	10	Clear	-	1	0	Calm	270	21.7	No	No Observations	N/A
Mammals	Meliadine	14-Jul-24	Stationary	19:20	20:20	01:00:00	062°45.17'N	092°03.30'W	062°45.17'N	092°03.30'W	10	Clear	-	1	0	Calm	270	21.7	No	No Observations	N/A
Mammals	Meliadine	15-Jul-24	Stationary	20:00	21:00	01:00:00	062°45.20'N	092°03.30'W	062°45.20'N	092°03.30'W	15	Clear	None	1	0	Calm	270	21.7	No	No Observations	N/A
Mammals	Meliadine	16-Jul-24	Stationary	19:30	20:30	01:00:00	062°45.10'N	092°03.30'W	062°45.10'N	092°03.30'W	15	Clear	Bright	1	1	Calm	270	21.7	No	No Observations	N/A
Mammals	Meliadine	17-Jul-24	Stationary	20:00	21:00	01:00:00	062°46.50'N	092°05.40'W	062°46.50'N	092°05.40'W	15	Partly Cloudy	None	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Meliadine	18-Jul-24	Stationary	-	-	-	062°46.50'N	092°05.40'W	062°46.50'N	092°05.40'W	15	Clear	-	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Meliadine	19-Jul-24	Stationary	20:00	21:00	01:00:00	062°46.50'N	092°05.40'W	062°46.50'N	092°05.40'W	15	Clear	None	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Meliadine	20-Jul-24	Stationary	22:00	23:00	01:00:00	062°45.60'N	092°05.40'W	062°45.60'N	092°05.40'W	15	Partly Cloudy	None	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Meliadine	21-Jul-24	Stationary	20:00	21:00	01:00:00	062°46.50'N	092°05.40'W	062°46.50'N	092°05.40'W	15	Partly Cloudy	None	1	1	Calm	-	21	No	No Observations	N/A
Mammals	Meliadine	22-Jul-24	Stationary	20:00	21:00	01:00:00	062°45.60'N	092°05.40'W	062°45.60'N	092°05.40'W	15	Partly Cloudy	-	2	0.5	Light Wind	-	21	No	No Observations	N/A
Mammals	Meliadine	23-Jul-24	Stationary	23:00	23:59	00:59:00	062°45.60'N	092°04.40'W	062°45.60'N	092°04.40'W	15	Partly Cloudy	None	2	1	Strong Wind	280	21	No	No Observations	N/A
Mammals	Meliadine	14-Aug-24	Transect	-	-	-	-	-	-	-	0.5	Fog	Slight Grey	3	2	Light Wind	315	10	No	No Observations	N/A
Mammals	Meliadine	15-Aug-24	Transect	13:00	14:00	01:00:00	062°28.70'N	089°43.20'W	062°26.50'N	089°15.80'W	20	Clear	Bright	2	1	Light Wind	270	30	No	No Observations	N/A
Mammals	Meliadine	22-Aug-24	Transect	13:00	14:00	01:00:00	062°28.70'N	089°43.20'W	062°26.20'N	089°12.80'W	5	Fog	Bright	1	0	Calm	90	15	No	No Observations	N/A
Mammals	Meliadine	23-Aug-24	Transect	13:00	-	-	062°38.80'N	079°26.20'W	-	-	0.3	Fog	-	2	1	Light Wind	0	15	No	No Observations	N/A
Mammals	Meliadine	24-Oct-24	Transect	14:00	16:00	02:00:00	060°07.60'N	063°42.60'W	060°22.00'N	063°39.90'W	10	Partly Cloudy	Slight Grey	4	2	Gale Force Wind	270	23.5	No	No Observations	N/A
Mammals	Meliadine	24-Oct-24	Transect	16:00	17:00	01:00:00	060°24.40'N	064°03.00'W	060°28.50'N	064°20.20'W	2	Partly Cloudy	None	4	3.5	Strong Wind	314	23.5	No	No Observations	N/A
Mammals	Meliadine	25-Oct-24	Transect	14:00	16:00	02:00:00	062°26.90'N	072°07.10'W	062°28.70'N	072°48.30'W	15	100% Cloud	Slight Grey	2	0.2	Light Wind	180	23.5	No	No Observations	N/A
Mammals	Meliadine	25-Oct-24	Transect	16:00	17:00	01:00:00	062°30.00'N	072°54.90'W	062°30.90'N	073°18.10'W	10	Snow	None	2	2	Light Wind	184	23.5	No	No Observations	N/A
Mammals	Meliadine	26-Oct-24	Transect	14:00	16:00	02:00:00	061°55.00'N	082°44.10'W	061°55.00'N	082°59.90'W	15	Partly Cloudy	Slight Grey	3	1	Light Wind	315	23.5	No	No Observations	N/A
Mammals	Meliadine	26-Oct-24	Transect	16:00	17:00	01:00:00	061°54.90'N	083°02.40'W	061°54.90'N	083°29.10'W	10	Partly Cloudy	Bright	2	2	Light Wind	-	23.5	Yes	Harp Seal	1
Mammals	Meliadine	27-Oct-24	Stationary	18:00	21:00	03:00:00	062°47.40'N	092°05.38'W	062°47.40'N	092°05.38'W	16	100% Cloud	Slight Grey	2	0.5	Strong Wind	90	24	No	No Observations	N/A

APPENDIX D: MARINE MAMMAL SURVEY DATA AND SIGHTINGS INFORMATION, 2024

Survey Target	Project	Date	Survey Type	Time at Start	Time at End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Visibility (km)	Weather Notes	Glare Condition Notes	Sea State Code	Wave Height (m)	Wind Speed (Beaufort Scale)	True Wind Direction (deg)	Height of Eye (m)	Species Observed?	Species	Count
Mammals	Meliadine	28-Oct-24	Stationary	18:00	21:00	03:00:00	062°47.40'N	092°05.38'W	062°47.40'N	092°05.38'W	16	Clear	Slight Grey	2	1	Light Wind	315	24	No	No Observations	N/A
Mammals	Meliadine	31-Oct-24	Stationary	18:00	21:00	03:00:00	062°47.40'N	092°05.38'W	062°47.40'N	092°05.38'W	8	Snow	Slight Grey	4	1.5	Gale Force Wind	5	24	No	No Observations	N/A
Mammals	Meliadine	05-Nov-24	Transect	15:40	16:45	01:05:00	063°05.00'N	087°11.90'W	063°06.90'N	087°44.60'W	5	Snow	None	4	2	Strong Wind	45	20	No	No Observations	N/A
Mammals	Meliadine	06-Nov-24	Stationary	9:00	10:00	01:00:00	063°31.00'N	091°04.50'W	063°31.00'N	091°04.50'W	8	Partly Cloudy	None	2	0.5	Strong Wind	315	20	No	No Observations	N/A
Mammals	Meliadine	07-Nov-24	Transect	10:00	11:00	01:00:00	062°54.30'N	090°29.00'W	062°37.10'N	091°03.70'W	6	Snow	None	2	0.4	Light Wind	130	20	No	No Observations	N/A
Mammals	Meliadine	08-Nov-24	Stationary	10:30	11:30	01:00:00	062°47.50'N	091°58.90'W	062°47.50'N	091°58.90'W	8	Partly Cloudy	None	1	0.1	Light Wind	270	20	No	No Observations	N/A
Mammals	Meliadine	09-Nov-24	Stationary	9:45	10:45	01:00:00	062°47.80'N	091°59.00'W	062°47.80'N	091°59.00'W	1	Snow	None	2	0.5	Strong Wind	220	20	No	No Observations	N/A
Mammals	Meliadine	10-Nov-24	Stationary	10:00	11:00	01:00:00	062°47.50'N	091°58.70'W	062°47.50'N	091°58.70'W	8	Partly Cloudy	None	2	0.5	Strong Wind	300	20	No	No Observations	N/A
Mammals	Meliadine	11-Nov-24	Stationary	11:00	12:00	01:00:00	062°47.50'N	091°58.80'W	062°47.50'N	091°58.80'W	6	100% Cloud	None	3	1	Gale Force Wind	315	20	No	No Observations	N/A
Mammals	Meliadine	12-Nov-24	Stationary	9:30	10:30	01:00:00	062°47.50'N	091°58.80'W	062°47.50'N	091°58.80'W	8	Partly Cloudy	None	0	0	Strong Wind	300	20	No	No Observations	N/A
Mammals	Meliadine	13-Nov-24	Stationary	9:45	10:45	01:00:00	062°47.60'N	091°59.40'W	062°47.60'N	091°59.40'W	4	Snow	None	4	1.5	Strong Wind	70	20	No	No Observations	N/A
Mammals	Meliadine	14-Nov-24	Stationary	9:15	10:15	01:00:00	062°47.50'N	091°59.00'W	062°47.50'N	091°59.00'W	8	Partly Cloudy	None	2	0.5	Strong Wind	0	20	No	No Observations	N/A
Mammals	Meliadine	14-Nov-24	Transect	12:00	13:00	01:00:00	061°14.70'N	067°33.10'W	061°28.70'N	067°10.10'W	6	Fog	None	4	2	Strong Wind	0	24	No	No Observations	N/A
Mammals	Meliadine	15-Nov-24	Transect	13:00	14:00	01:00:00	062°19.10'N	088°00.70'W	062°17.30'N	087°43.50'W	8	100% Cloud	None	2	0.5	Strong Wind	55	20	No	No Observations	N/A
Mammals	Meliadine	16-Nov-24	Transect	10:30	11:30	01:00:00	062°06.40'N	081°57.30'W	062°09.80'N	081°41.70'W	8	100% Cloud	None	4	1.5	Strong Wind	95	20	No	No Observations	N/A
Mammals	Meliadine	17-Nov-24	Transect	10:00	11:00	01:00:00	062°49.60'N	074°58.80'W	062°50.00'N	074°42.20'W	8	Partly Cloudy	None	4	2	Gale Force Wind	135	20	No	No Observations	N/A
Mammals	Meliadine	18-Nov-24	Transect	11:30	12:30	01:00:00	061°54.50'N	067°29.70'W	061°51.20'N	067°07.60'W	8	Partly Cloudy	Slight Grey	4	2	Strong Wind	90	20	No	No Observations	N/A
Mammals	Meliadine	12-Aug-24	Incidental	14:19	N/A	N/A	064°07.50'N	094°36.80'W	N/A	N/A	9	-	-	-	-	3	240	-	Yes	Harbour Seal	1
Mammals	Meadowbank	16-Jul-24	Incidental	15:05	N/A	N/A	062°06.10'N	069°37.80'W	N/A	N/A	20	-	-	-	-	2	45	-	Yes	Hooded Seal	2
Mammals	Meadowbank	16-Jul-24	Incidental	17:00	N/A	N/A	062°15.00'N	070°25.90'W	N/A	N/A	20	-	-	-	-	2	45	-	Yes	Hooded Seal	3
Mammals	Meadowbank	16-Jul-24	Incidental	22:09	N/A	N/A	062°34.40'N	072°41.10'W	N/A	N/A	20	-	-	-	-	2	45	-	Yes	Harbour Seal	1
Mammals	Meadowbank	19-Jul-24	Incidental	16:00	N/A	N/A	063°19.80'N	089°32.20'W	N/A	N/A	15	-	-	-	-	3	157.5	-	Yes	Harbour Seal	10
Mammals	Both	06-Aug-24	Incidental	12:42	N/A	N/A	061°28.80'N	068°32.30'W	N/A	N/A	5	-	-	-	-	1	315	-	Yes	Unknown Dolphin	3
Mammals	Meadowbank	06-Sep-24	Incidental	18:15	N/A	N/A	061°28.00'N	068°53.50'W	N/A	N/A	30	-	-	-	-	4	270	-	Yes	Common Dolphin	7
Mammals	Both	29-Sep-24	Incidental	18:19	N/A	N/A	062°32.40'N	074°13.50'W	N/A	N/A	12	-	-	-	-	3	135	-	Yes	Unknown Seal	1
Mammals	Meadowbank	01-Jul-24	Incidental	18:24	N/A	N/A	063°42.50'N	088°36.90'W	N/A	N/A	-	-	-	-	-	4	-	-	Yes	Unknown Dolphin	6
Mammals	Both	06-Aug-24	Incidental	5:43	N/A	N/A	061°28.80'N	068°32.30'W	N/A	N/A	5	-	-	-	-	3	-	-	Yes	Unknown Dolphin	5
Mammals	Meadowbank	23-Aug-24	Incidental	18:26	N/A	N/A	063°45.00'N	092°15.60'W	N/A	N/A	12	-	-	-	-	1	135	-	Yes	Harbour Seal	1

APPENDIX E SEABIRD SURVEY DATA, 2024

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:25	11:30	00:05	60.01250076	-60.76750183	60.02500153	-60.78333282	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:30	11:35	00:05	60.02500153	-60.78333282	60.03450012	-60.79416656	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:35	11:40	00:05	60.03450012	-60.79416656	60.04383469	-60.80500031	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:40	11:45	00:05	60.04383469	-60.80500031	60.05333328	-60.81583405	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:45	11:45	00:00	60.05333328	-60.81583405	60.06216812	-60.82666779	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-02 00:00:00	11:20	11:25	00:05	60	-60.75	60.01250076	-60.76750183	Moving	55	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:00	09:05	00:05	61.56083298	-67.96583557	61.56666565	-68.00133514	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:10	09:15	00:05	61.57116699	-68.03133392	61.57666779	-68.06666565	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:20	09:25	00:05	61.58116531	-68.09549713	61.58666611	-68.13500214	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:30	09:35	00:05	61.5921669	-68.16000366	61.59833145	-68.19166565	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:40	09:45	00:05	61.60333252	-68.21916962	61.61000061	-68.25166321	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	09:50	09:55	00:05	61.61949921	-68.27616882	61.6313324	-68.3041687	Moving	50	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	13:30	13:35	00:05	61.87833405	-69.59500122	61.88499832	-69.63666534	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	13:40	13:45	00:05	61.87166595	-69.66166687	61.89333344	-69.74500275	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	13:50	13:55	00:05	61.90000153	-69.72666931	61.9066658	-69.76166534	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	14:00	14:05	00:05	61.91333389	-69.78666687	61.91999817	-69.81999969	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-03 00:00:00	14:10	14:15	00:05	61.92833328	-69.85500336	61.9366684	-69.88999939	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:00	09:05	00:05	62.63166809	-77.36000061	62.63366699	-77.40499878	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:10	09:15	00:05	62.63550186	-77.43283081	62.63783264	-77.47533417	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:20	09:25	00:05	62.63883209	-77.5083313	62.64116669	-77.54916382	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:30	09:35	00:05	62.64333344	-77.58166504	62.64450073	-77.62000275	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:40	09:45	00:05	62.64583206	-77.64949799	62.64716721	-77.69166565	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	09:50	09:55	00:05	62.6495018	-77.72366333	62.65133286	-77.76583099	Moving	7	Fog	None	Slight	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	18:30	18:35	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	18:40	18:45	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	18:50	18:55	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	19:00	19:05	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	19:10	19:15	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-07 00:00:00	19:20	19:25	00:05	62.34833145	-82.44833374	62.34833145	-82.44833374	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-06 00:00:00	18:30	18:35	00:05	62.33333206	-82.43333435	62.33333206	-82.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-06 00:00:00	18:40	18:45	00:05	62.33333206	-82.43333435	62.33333206	-82.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-06 00:00:00	18:50	18:55	00:05	62.33333206	-82.43333435	62.33333206	-82.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-06 00:00:00	19:00	19:05	00:05	62.33333206	-82.43333435	62.33333206	-82.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-06 00:00:00	19:10	19:15	00:05	62.33333206	-82.43333435	62.33333206	-82.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:00	19:05	00:05	62.33333206	-82.41333008	62.33333206	-82.41333008	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:10	19:15	00:05	62.33333206	-82.4466629	62.33333206	-82.4466629	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:20	19:25	00:05	62.33333206	-82.4466629	62.33499908	-82.4466629	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:30	19:35	00:05	62.33333206	-82.4466629	62.33333206	-82.4466629	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:40	19:45	00:05	62.33333206	-82.4466629	62.33333206	-82.4466629	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-05 00:00:00	19:50	19:55	00:05	62.33333206	-82.44499969	62.33333206	-82.4466629	Stationary		Clear or Partly Cloudy	None	Wavelets		Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	14:20	14:25	00:05	62.65000153	-79.66666412	62.65999985	-79.68333435	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	14:30	14:35	00:05	62.65000153	-79.71666718	62.65000153	-79.75	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	14:40	14:45	00:05	62.63333511	-79.80000305	62.63333511	-79.66666412	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	14:50	14:55	00:05	62.63333511	-79.8666687	62.63333511	-79.90000153	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	15:00	15:05	00:05	62.62666702	-79.9466629	62.625	-79.98666382	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-04 00:00:00	15:10	15:15	00:05	62.62166595	-80.03500366	62.61999893	-80.00333405	Moving	6	Fog	None	Moderate	2.6	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:00	19:05	00:05	62.01250076	-83.21616364	62.01050186	-83.26083374	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:10	19:15	00:05	62.00783157	-83.28083038	62.00533295	-83.31466675	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:20	19:25	00:05	62.00299835	-83.34333038	62.00049973	-83.3758316	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:30	19:35	00:05	61.99833298	-83.40550232	61.99583435	-83.43783569	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:40	19:45	00:05	61.9936676	-83.46883392	61.99116516	-83.50033569	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-08 00:00:00	19:50	19:55	00:05	61.98916626	-83.52916718	61.98716736	-83.5644989	Moving	30	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:00	19:05	00:05	62.95999908	-90.16999817	62.99833298	-90.1866684	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:10	19:15	00:05	62.93333435	-90.22333527	62.91833496	-90.23166656	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:20	19:25	00:05	62.9383316	-90.24833679	62.89333344	-90.26499939	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:30	19:35	00:05	62.875	-90.28666687	62.86333466	-90.30500031	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:40	19:45	00:05	62.8516655	-90.32499695	62.83833313	-90.34666443	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-09 00:00:00	19:50	19:55	00:05	62.82333374	-90.36833191	62.80666733	-90.38500214	Moving	20	Clear or Partly Cloudy		Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:00	19:05	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:10	19:15	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:20	19:25	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:30	19:35	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:40	19:45	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-10 00:00:00	19:50	19:55	00:05	62.77166748	-90.75499725	62.77166748	-90.75499725	Moving	6	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	19:00	19:05	00:05	62.7511673	-92.0533371	62.7511673	-92.0533371	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	19:10	19:15	00:05	62.75016785	-92.05349731	62.75016785	-92.05349731	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	19:20	19:25	00:05	62.75016785	-92.05349731	62.7511673	-92.05349731	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	19:30	19:35	00:05	62.7511673	-92.05349731	62.7511673	-92.05349731	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	19:40	19:45	00:05	62.7511673	-92.05349731	62.7511673	-92.05349731	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-12 00:00:00	20:10	20:15	00:05	62.75283432	-92.05483246	62.75283432	-92.05483246	Stationary	25	Clear or Partly Cloudy	None			Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	19:20	19:25	00:05	62.75283432	-92.05483246	62.75283432	-92.05483246	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	19:30	19:35	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	19:40	19:45	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	19:50	19:55	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	20:00	20:05	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-14 00:00:00	20:10	20:15	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	25	Clear or Partly Cloudy		Wavelets	0.25	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:00	20:05	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:10	20:15	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:20	20:25	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:30	20:35	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:40	20:45	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-15 00:00:00	20:50	20:55	00:05	62.75283432	-92.05500031	62.75283432	-92.05500031	Stationary	15	Clear or Partly Cloudy		Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	19:30	19:35	00:05	62.75166702	-92.04833221	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	19:40	19:45	00:05	62.75166702	-92.03833008	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	19:50	19:55	00:05	62.75166702	-92.03833008	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	20:00	20:05	00:05	62.75166702	-92.04833221	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	20:10	20:15	00:05	62.75166702	-92.04833221	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-16 00:00:00	20:20	20:25	00:05	62.75166702	-92.04833221	62.75166702	-92.04833221	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.75833511	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:20	20:25	00:05	62.76750183	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-17 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	-1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:20	20:25	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-18 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:20	20:25	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-19 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Rippled	1	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:20	20:25	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-20 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:20	20:25	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-21 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	20	Clear or Partly Cloudy	None	Rippled	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:00	20:05	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:10	20:15	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:20	20:25	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:30	20:35	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:40	20:45	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-22 00:00:00	20:50	20:55	00:05	62.77500153	-92.08999634	62.77500153	-92.08999634	Stationary	15	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:00	23:05	00:05	62.77500153	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:10	23:15	00:05	62.75999832	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:20	23:25	00:05	62.75999832	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:30	23:35	00:05	62.75999832	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:40	23:45	00:05	62.75999832	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-07-23 00:00:00	23:50	23:55	00:05	62.75999832	-92.07333374	62.75999832	-92.07333374	Stationary	15	Clear or Partly Cloudy	None	Wavelets	2	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:00	18:05	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:05	18:10	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:10	18:15	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:15	18:20	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:20	18:25	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:25	18:30	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:50	18:55	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:55	19:00	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:30	18:35	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:35	18:40	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:40	18:45	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	18:45	18:50	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:00	19:05	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:05	19:10	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:10	19:15	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:15	19:20	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:20	19:25	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-17 00:00:00	19:25	19:30	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:00	20:05	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:10	20:15	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:20	20:25	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:30	20:35	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:40	20:45	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-18 00:00:00	20:50	20:55	00:05	63.95333481	-93.57666779	63.95333481	-96.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:00	20:05	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:10	20:15	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:20	20:25	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:30	20:35	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:40	20:45	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-08-19 00:00:00	20:50	20:55	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:00	20:05	00:05	63.95333481	-93.57666779	63.95033264	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:10	20:15	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:20	20:25	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:30	20:35	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:40	20:45	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-20 00:00:00	20:50	20:55	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:00	20:05	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:10	20:15	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:20	20:25	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:30	20:35	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:40	20:45	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-21 00:00:00	20:50	20:55	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Wavelets	1	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:00	20:05	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:10	20:15	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:20	20:25	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:30	20:35	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:40	20:45	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-22 00:00:00	20:50	20:55	00:05	63.95333481	-93.57666779	63.95333481	-93.57666779	Stationary	10	Cloudy	None	Rippled	1	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:50	15:50	00:00	62.65333176	-77.76999664	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:55	16:00	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	16:00	16:05	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	16:05	16:10	00:05	-	-	62.64166641	-77.51667023	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:10	16:15	00:05	62.64166641	-77.51667023	-	-	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:15	16:20	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:20	16:25	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:25	16:30	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:30	16:35	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	16:35	16:40	00:05	-	-	62.63666534	-77.34833527	Moving		Clear or Partly Cloudy		Rough		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:30	18:35	00:05	62.76333237	-87.70333099	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:35	18:40	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:40	18:45	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:45	18:50	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:50	18:55	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	18:55	19:00	00:05	-	-	62.72499847	-87.51833344	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:30	19:35	00:05	62.67666626	-87.26667023	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:35	19:40	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:40	19:45	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:45	19:50	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:50	19:55	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:55	20:00	00:05	-	-	62.64166641	-87.08999634	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:00	19:05	00:05	62.72499847	-87.51833344	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:05	19:10	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:10	19:15	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:15	19:20	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:20	19:25	00:05	-	-	-	-	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-23 00:00:00	19:25	19:30	00:05	-	-	62.67666626	-87.26667023	Moving		Clear or Partly Cloudy		Slight		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:45	15:50	00:05	-	-	62.65333176	-77.76999664	Moving		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:20	15:25	00:05	62.65999985	-77.96166992	-	-	Moving		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:25	15:30	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:30	15:35	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:35	15:40	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-24 00:00:00	15:40	15:45	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:10	18:15	00:05	60.56666565	-65.05000305	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:15	18:20	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:20	18:25	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:25	18:30	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:30	18:35	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:35	18:40	00:05	-	-	60.52500153	-64.73332977	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:40	18:45	00:05	60.52500153	-64.73332977	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:45	18:50	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:50	18:55	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	18:55	19:00	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	19:00	19:05	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	19:05	19:10	00:05	-	-	60.49666595	-64.47499847	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	19:10	19:15	00:05	60.49666595	-64.47499847	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	19:15	19:20	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-25 00:00:00	19:20	19:25	00:05	-	-	-	-	Moving	30	Clear or Partly Cloudy	None	Rippled	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-12 00:00:00	17:35	18:05	00:30	60.55833435	-63.8516655	60.6483345	-63.96666718	Moving	55	Clear or Partly Cloudy	None	Glassy	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-12 00:00:00	18:05	18:35	00:30	60.6483345	-63.96666718	60.72999954	-	Moving	55	Clear or Partly Cloudy	None	Glassy	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-12 00:00:00	18:55	19:05	00:10	60.72999954	-64.10166931	60.79166794	-64.26333618	Moving	55	Clear or Partly Cloudy	None	Glassy	0.5	Calm
Desgagnes	Marcellin A. Desgagnés	2024-08-13 00:00:00	18:00	18:30	00:30	62.52166748	-73.93333435	62.51499939	-74.19333649	Moving	7.4	Fog		Rippled	0	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-13 00:00:00	18:30	19:00	00:30	62.51499939	-74.19333649	62.50833511	-74.46166992	Moving	7.4	Fog		Rippled	0	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-13 00:00:00	19:00	19:30	00:30	62.50833511	-74.46166992	62.50833511	-74.6783371	Moving	7.4	Fog		Rippled	0	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:02	18:08	00:06	62.03333282	-84.8116684	62.03666687	-84.86166382	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:08	18:13	00:05	62.03666687	-84.86166382	62.04000092	-84.8833313	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:13	18:18	00:05	62.04000092	-84.8833313	62.04333496	-84.94833374	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:18	18:23	00:05	62.03666687	-84.94833374	62.04499817	-84.98166656	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:23	18:28	00:05	62.04499817	-84.98166656	62.04999924	-85.01499939	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:28	18:33	00:05	62.04999924	-85.01499939	62.05500031	-85.05500031	Moving	50	Clear or Partly Cloudy		Moderate	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:55	19:00	00:05	62.06999969	-85.21499634	62.07166672	-85.25333405	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:00	19:05	00:05	62.07166672	-85.25333405	62.07500076	-85.5533371	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:05	19:10	00:05	62.07500076	-85.5533371	62.08000183	-85.32666779	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:35	18:40	00:05	62.05500031	-85.05500031	62.05666733	-85.09500122	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:40	18:45	00:05	62.05666733	-85.09500122	62.06000137	-85.14167023	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	18:50	18:55	00:05	62.06000137	-85.14167023	62.06999969	-85.21499634	Moving	55	Clear or Partly Cloudy		Slight	0.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:10	19:15	00:05	62.08000183	-85.32666779	62.08333206	-85.37000275	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:15	19:20	00:05	62.08333206	-85.37000275	62.08666611	-	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:20	19:25	00:05	62.08666611	-85.40833282	62.09000015	-85.44333649	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:25	19:30	00:05	62.09000015	-85.44333649	62.09500122	-85.48500061	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:30	19:35	00:05	62.09500122	-85.48500061	62.09999847	-85.52999878	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-14 00:00:00	19:35	19:40	00:05	62.09999847	-85.52999878	62.10333252	-85.56500244	Moving	50	Clear or Partly Cloudy		Slight	1.5	Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:35	19:40	00:05	62.66666794	-91.74500275	62.66666794	-94.74500275	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:40	19:45	00:05	-	-	-	-	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:45	19:50	00:05	-	-	-	-	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:50	19:55	00:05	-	-	-	-	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:55	20:00	00:05	-	-	62.68333435	-91.55000305	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	20:00	20:05	00:05	-	-	62.68333435	-91.55000305	Moving		Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:05	19:10	00:05	62.6883316	-91.89167023	-	-	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:10	19:15	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:15	19:20	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:25	19:30	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:30	19:35	00:05	-	-	-	-	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:35	19:40	00:05	-	-	60.46500015	-64.22499847	Moving		Clear or Partly Cloudy				Strong Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	18:35	18:40	00:05	62.73166656	-92.00333405	62.73166656	-92.00333405	Moving						
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	18:40	18:45	00:05	62.73166656	-92.00333405	62.73166656	-92.00333405	Moving						

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	18:45	18:50	00:05	62.73166656	-92.00333405	62.73166656	-92.00333405	Moving						
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	18:50	18:55	00:05	62.73166656	-92.00333405	-	-	Moving						
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	18:55	19:00	00:05	-	-	-	-	Moving						
Desgagnes	Marcellin A. Desgagnés	2024-08-15 00:00:00	19:00	19:05	00:05	-	-	62.6883316	-91.89167023	Moving						
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:00	18:05	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:05	18:10	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:10	18:15	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:15	18:20	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:20	18:25	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:25	18:30	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary	55	Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:00	19:05	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:05	19:10	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:10	19:15	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:15	19:20	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:20	19:25	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	19:25	19:30	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:30	18:35	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:35	18:40	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:40	18:45	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:45	18:50	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:50	18:55	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Marcellin A. Desgagnés	2024-08-16 00:00:00	18:55	19:00	00:05	63.95500183	-93.58166504	63.95500183	-93.58166504	Stationary		Clear or Partly Cloudy		Rippled		Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	11:05	11:10	00:05	61.77000046	-68.00333405	61.7816658	-68.04166412	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.25	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	11:28	11:33	00:05	61.80833435	-68.14833069	61.81499863	-68.17333221	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.25	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	11:34	11:39	00:05	61.81833267	-68.18499756	61.82666779	-68.22000122	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.25	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	20:15	20:20	00:05	62.48666763	-71.85666656	62.49000168	-71.89833069	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	20:36	20:41	00:05	62.5	-72.01999664	62.50166702	-72.04666901	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	20:42	20:47	00:05	62.50333405	-72.05833435	62.50666809	-72.09666443	Moving	13	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	22:40	22:45	00:05	62.6016655	-72.89666748	62.60666656	-72.93000031	Moving	13	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	23:00	23:05	00:05	62.61833191	-73.03333282	62.62333298	-73.06833649	Moving	13	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-16 00:00:00	23:10	23:15	00:05	62.62833405	-73.10666656	62.63333511	-73.13833618	Moving	13	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	08:55	09:00	00:05	62.64166641	-77.13999939	62.63999939	-77.17500305	Moving	12	Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	09:23	09:28	00:05	62.62833405	-77.33833313	62.625	-77.38666534	Moving	12	Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	09:35	09:40	00:05	62.625	-77.41833496	62.625	-77.45333099	Moving	12	Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	13:20	13:25	00:05	62.58499908	-78.9383316	62.58000183	-78.91000366	Moving	12	Cloudy	Slight/ Grey	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	13:42	13:47	00:05	62.56999969	-79.08166504	62.56833267	-79.10832977	Moving	12	Cloudy	Slight/ Grey	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	13:49	13:54	00:05	62.56666565	-79.11833191	62.5633316	-79.15333557	Moving	12	Cloudy	Slight/ Grey	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	20:44	20:50	00:06	62.20333481	-81.73332977	62.19666672	-81.77833557	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Calm
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	21:10	21:15	00:05	62.17833328	-81.90666962	62.17333221	-81.93499756	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Calm
Desgagnes	Miena Desgagnés	2024-07-17 00:00:00	21:16	21:21	00:05	62.17166519	-81.9466629	62.16666794	-81.97666931	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Calm
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	08:29	08:34	00:05	62.75833511	-85.58333588	62.76666641	-85.59666443	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	08:50	08:55	00:05	62.79166794	-85.63666534	62.79833221	-85.64833069	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	09:00	09:05	00:05	62.80666733	-85.66333008	62.81499863	-85.67333221	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	12:36	12:41	00:05	63.09999847	-86.4366684	62.10666656	-86.44999695	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	12:55	13:00	00:05	63.125	-86.5	63.13000107	-86.51499939	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	13:01	13:06	00:05	63.13166809	-86.51833344	63.13666534	-86.53333282	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	20:10	20:15	00:05	63.17499924	-86.99833679	63.17333221	-86.99833679	Stationary		Clear or Partly Cloudy	None	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	20:34	20:39	00:05	63.16666794	-87.00166321	63.16333389	-87.00166321	Stationary		Clear or Partly Cloudy	None	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-18 00:00:00	20:44	20:49	00:05	63.16333389	-87.00166321	63.16166687	-87.00166321	Stationary		Clear or Partly Cloudy	None	Rippled	0.5	
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	09:17	09:22	00:05	63.29333496	-90.44166565	63.19649887	-90.47333527	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	09:42	09:47	00:05	63.33000183	-90.57666779	63.34166718	-90.59999847	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	09:48	09:53	00:05	63.34500122	-90.60666656	63.35499954	-90.625	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	16:34	16:39	00:05	63.91500092	-93.01999664	63.91166687	-93.07666779	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	16:53	16:58	00:05	63.94499969	-93.15000153	63.95166779	-93.1883316	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	17:00	17:05	00:05	63.95333481	-93.19999695	63.95833206	-93.24833679	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	21:10	21:15	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	21:36	21:41	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-19 00:00:00	21:43	21:48	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-20 00:00:00	18:28	18:33	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-20 00:00:00	18:44	18:54	00:10	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-20 00:00:00	18:56	19:01	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	1400-01-02 00:20	1400-01-02 00:25	00:05	63.92499924	-93.61833191	63.92499924	-93.62000275	Stationary	12	Cloudy	None	Rippled	0.3	
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	1400-01-02 00:45	1400-01-02 00:50	00:05	63.92499924	-93.62000275	63.92499924	-93.62000275	Stationary	12	Cloudy	None	Rippled	0.3	
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	1400-01-02 00:55	1400-01-02 01:00	00:05	63.92499924	-93.62000275	63.92499924	-93.62000275	Stationary	12	Cloudy	None	Rippled	0.3	
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	04:15	04:20	00:05	63.92333221	-9.561666489	63.92333221	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	04:35	04:40	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	04:41	04:46	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	21:07	21:12	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	21:21	21:26	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-21 00:00:00	21:28	21:33	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	01:00	01:05	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	01:20	01:25	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	01:27	01:32	00:05	63.92499924	-93.61333466	63.92499924	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	04:00	04:05	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	04:20	04:25	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	04:27	04:32	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	21:00	21:05	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	21:20	21:25	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-22 00:00:00	21:27	21:32	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	01:00	01:05	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	01:22	01:27	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	01:30	01:35	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	04:30	04:35	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	04:50	04:55	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	04:56	05:01	00:05	63.92666626	-93.61166382	63.92666626	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	20:30	20:35	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	20:52	20:57	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-23 00:00:00	21:00	21:05	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	01:10	01:15	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	01:32	01:37	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	01:38	01:43	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	05:50	05:55	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	06:09	06:14	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	06:15	06:20	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	19:40	19:45	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Slight	0.6	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	20:00	20:05	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Slight	0.6	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-24 00:00:00	20:07	20:12	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Slight	0.6	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	01:00	01:05	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary		Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	01:20	01:25	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary		Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	01:27	01:32	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary		Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	04:40	04:45	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	05:00	05:05	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	05:08	05:13	00:05	63.92499924	-93.61166382	63.92499924	-93.61166382	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	20:35	20:40	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Slight	0.5	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	20:50	20:55	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Slight	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-25 00:00:00	20:56	21:01	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Slight	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	01:00	01:05	00:05	63.92499924	-93.61000061	6.591666698	-93.61000061	Stationary	12		None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	01:20	01:25	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12		None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	01:28	01:33	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12		None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	05:00	05:05	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	05:20	05:25	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	05:26	05:31	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	18:05	18:10	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	18:27	18:32	00:05	63.92333221	-93.61333466	62.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-26 00:00:00	18:35	18:40	00:05	63.92333221	-93.61333466	63.92333221	-93.61333466	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	01:00	01:05	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12		None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	01:20	01:25	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12		None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	01:28	01:33	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12		None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	05:00	05:05	00:05	63.92666626	-93.61499786	63.92666626	-93.61499786	Stationary	12		None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	05:20	05:25	00:05	63.92666626	-93.61499786	63.92666626	-93.61499786	Stationary	12		None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	05:28	05:33	00:05	63.92666626	-93.61499786	63.92666626	-93.61499786	Stationary	12		None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	18:00	18:05	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Calm
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	18:20	18:25	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Calm
Desgagnes	Miena Desgagnés	2024-07-27 00:00:00	18:28	18:33	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	01:00	01:05	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	01:19	01:24	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	01:25	01:30	00:05	63.92499924	-93.6166687	63.92499924	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	05:00	05:05	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	05:20	05:25	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	05:27	05:32	00:05	63.92499924	-93.61000061	63.92499924	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	18:00	18:05	00:05	63.92333221	-93.61499786	63.92333221	-93.61499786	Stationary	12	Cloudy	None	Rippled	0.2	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	18:19	18:24	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Cloudy	None	Rippled	0.2	Calm
Desgagnes	Miena Desgagnés	2024-07-28 00:00:00	18:25	18:30	00:05	63.92333221	-93.6166687	63.92333221	-93.6166687	Stationary	12	Cloudy	None	Rippled	0.2	Calm
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	01:30	01:35	00:05	63.92666626	-93.61499786	63.92666626	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	01:50	01:55	00:05	63.92666626	-	63.92666626	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	01:57	02:02	00:05	63.92666626	-93.61499786	63.92666626	-93.61499786	Stationary	12	Cloudy	None	Glassy	0	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	05:00	05:05	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	05:20	05:25	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	05:26	05:31	00:05	63.92666626	-93.61333466	63.92666626	-93.61333466	Stationary	12	Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	17:50	17:55	00:05	63.92666626	-93.61000061	63.92666626	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	18:10	18:15	00:05	63.92666626	-93.61000061	63.92666626	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-29 00:00:00	18:17	18:22	00:05	63.92666626	-93.61000061	63.92666626	-93.61000061	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	16:23	16:28	00:05	62.25	-85.04166412	62.24166489	-85.00499725	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	16:45	16:50	00:05	62.21666718	-84.86833191	62.20999908	-84.83166504	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	16:52	16:57	00:05	62.20666504	-84.8133316	62.20000076	-84.77666473	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	20:45	20:50	00:05	62.01166534	-83.05000305	62.01666641	-83.00166321	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	21:04	21:09	00:05	62.02999878	-83.90499878	62.03499985	-83.86499786	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	21:11	21:16	00:05	62.03666687	-82.84999847	62.04000092	-82.81500244	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	23:08	23:13	00:05	62.16666794	-81.95666504	62.17166519	-81.93166351	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	23:28	23:33	00:05	62.18999863	-81.81666565	62.19499969	-81.78166962	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-30 00:00:00	23:34	23:39	00:05	62.19666672	-81.77333069	62.20333481	-81.73500061	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	08:17	08:23	00:06	62.63999939	-77.48500061	62.63999939	-77.4383316	Moving	12	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	08:32	08:37	00:05	62.63833237	-77.35832977	62.63666534	-77.32666779	Moving	12	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	08:44	08:49	00:05	62.63333511	-77.26999664	62.63166809	-77.23166656	Moving	12	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	20:15	20:20	00:05	62.28499985	-72.32833099	62.27666855	-72.28833008	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	20:33	20:38	00:05	62.25666809	-72.19999695	62.24666595	-72.16166687	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	20:39	20:44	00:05	62.24499893	-72.15499878	62.23666763	-72.11833191	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	23:10	23:15	00:05	61.97833252	-71.05833435	61.9683342	-71.02166748	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	23:30	23:35	00:05	61.94499969	-70.90833282	61.9366684	-70.87000275	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-07-31 00:00:00	23:36	23:41	00:05	-	-70.86333466	61.92666626	-70.82333374	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	08:00	08:05	00:05	61.16500092	-67.45833588	61.1566658	-67.42500305	Moving	12	Cloudy		Moderate	1.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	08:19	08:24	00:05	61.13333511	-67.32666779	61.12333298	-67.29333496	Moving	12	Cloudy		Moderate	1.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	08:25	08:30	00:05	61.12166595	-67.28833008	-	-	Moving	12	Cloudy		Moderate	1.5	Strong Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	20:00	20:05	00:05	60.05500031	-63.10333252	60.04000092	-63.07833481	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	20:18	20:23	00:05	60.00166702	-63.01333237	59.98666763	-62.98666763	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Miena Desgagnés	2024-08-01 00:00:00	20:25	20:30	00:05	59.98166656	-62.9766655	59.96666718	-62.95166779	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Coastal Shipping	Kivalliq W.	2024-07-31 00:00:00	13:02	13:07	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	6		Slight/ Grey	Glassy	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-08-01 00:00:00	13:10	13:15	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Light Wind
Coastal Shipping	Kivalliq W.	2024-08-02 00:00:00	15:33	15:38	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy	Slight/ Grey	Glassy	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-08-03 00:00:00	10:10	10:15	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy		Glassy	0	Calm
Coastal Shipping	Kivalliq W.	2024-08-04 00:00:00	14:20	14:25	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	5	Clear or Partly Cloudy	Slight/ Grey	Glassy	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-08-05 00:00:00	11:02	11:07	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy		Glassy	0	Calm
Coastal Shipping	Kivalliq W.	2024-08-06 00:00:00	12:44	12:49	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy		Glassy	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-08-07 00:00:00	08:00	08:05	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy		Glassy	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-07-30 00:00:00	10:10	10:15	00:05	64.30000305	-95.94833374	64.30000305	-95.94833374	Stationary	7	Clear or Partly Cloudy	Slight/ Grey	Glassy	0.5	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:00	14:05	00:05	63.03833389	-86.375	63.04166794	-86.41833496	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:10	14:15	00:05	63.04333496	-86.45500183	63.04499817	-86.5	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:20	14:25	00:05	63.04833221	-86.53500366	63.04999924	-86.58166504	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:30	14:35	00:05	63.05166626	-86.62166595	63.05500031	-86.66166687	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:40	14:45	00:05	63.05666733	-86.70166779	63.05833435	-86.74666595	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-05 00:00:00	14:50	14:55	00:05	63.06000137	-86.78500366	63.0616684	-86.82499695	Moving	8	Cloudy	Slight/ Grey	Slight	1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-06 00:00:00	10:20			63.51666641	-91.07499695	63.51666641	-91.07499695	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-06 00:00:00	12:30			63.49166489	-91.13166809	63.49166489	-91.13166809	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-06 00:00:00	15:00			63.49166489	-91.13166809	63.49166489	-91.13166809	Stationary	8	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:05	09:10	00:05	62.90499878	-90.48332977	62.89333344	-90.4916687	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:15	09:20	00:05	62.875	-90.51000214	62.85833359	-90.52833557	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:25	09:30	00:05	62.84166718	-90.54666901	62.82333374	-90.56500244	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:35	09:40	00:05	62.80666733	-90.58333588	62.79000092	-90.60333252	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:45	09:50	00:05	62.77166748	-90.62166595	62.75333405	-90.64167023	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	09:55	10:00	00:05	62.73833466	-90.66000366	62.72000122	-90.6783371	Moving	6	Snow	None	Wavelets	0.4	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-07 00:00:00	16:36			62.79166794	-91.98833466	62.79166794	-91.98833466	Stationary	8	Cloudy	None	Wavelets	0.4	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-08 00:00:00	10:20			62.79166794	-91.98166656	62.79166794	-91.98166656	Stationary	8	Clear or Partly Cloudy	None	Rippled	0.1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-08 00:00:00	12:40			62.79166794	-91.98166656	62.79166794	-91.98166656	Stationary	7	Clear or Partly Cloudy	None	Rippled	0.1	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-08 00:00:00	15:00			62.79333496	-91.98166656	62.79333496	-91.98166656	Stationary	7	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-09 00:00:00	09:30			62.79666519	-91.98332977	62.79666519	-91.98332977	Stationary	3	Snow	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-09 00:00:00	12:30			62.79333496	-91.98166656	62.79333496	-91.98166656	Stationary	8	Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-10 00:00:00	09:45			62.79333496	-91.98000336	62.79333496	-91.98000336	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-10 00:00:00	12:20			62.79166794	-91.97833252	62.79166794	-91.97833252	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-10 00:00:00	16:30			62.79166794	-91.98000336	62.79166794	-91.98000336	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-11 00:00:00	10:50			62.79166794	-91.98000336	62.79166794	-91.98000336	Stationary	6	Cloudy	None	Slight	1	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-11 00:00:00	13:45			62.79166794	-91.97833252	62.79166794	-91.97833252	Stationary	7	Clear or Partly Cloudy	None	Slight	1	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-11 00:00:00	16:15			62.79166794	-91.97833252	62.79166794	-91.97833252	Stationary	7	Clear or Partly Cloudy	None	Slight	1	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-12 00:00:00	09:20			62.79166794	-91.98000336	62.79166794	-91.98000336	Stationary	8	Clear or Partly Cloudy	None	Glassy	0	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-12 00:00:00	12:30			62.79166794	-91.98166656	62.79166794	-91.98166656	Stationary	8	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Coastal Shipping	Kitikmeot W.	2024-11-13 00:00:00	09:30			62.79333496	-91.9916687	62.79333496	-91.9916687	Stationary	4	Snow	None	Moderate	1.5	
Coastal Shipping	Kitikmeot W.	2024-11-13 00:00:00	11:55			62.79333496	-91.98999786	62.79333496	-91.98999786	Stationary	4	Snow	None	Moderate	1.5	
Coastal Shipping	Kitikmeot W.	2024-11-14 00:00:00	09:00			62.79166794	-91.98332977	62.79166794	-91.98332977	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-14 00:00:00	12:50			62.79166794	-91.98332977	62.79166794	-91.98332977	Stationary	8	Clear or Partly Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-14 00:00:00	15:25			62.79166794	-91.98332977	62.79166794	-91.98332977	Stationary	8	Cloudy	None	Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:00	15:05	00:05	62.25999832	-87.44166565	62.25666809	-87.41000366	Moving	8	Cloudy		Wavelets	0.5	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:10	15:15	00:05	62.25500107	-87.39167023	62.25333405	-87.36499786	Moving	8	Cloudy		Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:20	15:25	00:05	62.25	-87.34166718	62.24833298	-87.31666565	Moving	8	Cloudy		Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:30	15:35	00:05	62.24666595	-87.29333496	62.24499893	-87.26833344	Moving	8	Cloudy		Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:40	15:45	00:05	62.24166489	-87.23666382	62.24000168	-87.22000122	Moving	8	Cloudy		Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-15 00:00:00	15:50	15:55	00:05	62.23666763	-87.19333649	62.23333359	-87.16999817	Moving	8	Cloudy		Wavelets	0.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	09:20	09:25	00:05	62.04499817	-82.26166534	62.04833221	-82.24333191	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	09:30	09:35	00:05	62.05333328	-82.22499847	62.05666733	-82.19999695	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	09:40	09:45	00:05	62.0616684	-82.17500305	62.06666565	-82.15499878	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	09:50	09:55	00:05	62.06999969	-82.1333313	62.07500076	-82.11000061	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	10:00	10:05	00:05	62.07833481	-82.08166504	62.08333206	-82.04666901	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	10:10	10:15	00:05	62.08833313	-82.04166412	62.09166718	-82.01999664	Moving	8	Cloudy	None	Moderate	1.5	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	12:50	12:55	00:05	62.23666763	-81.33833313	62.24166489	-81.3216629	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	13:00	13:05	00:05	62.24499893	-81.30000305	62.25	-81.27666473	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	13:10	13:15	00:05	62.25500107	-81.25499725	62.25999832	-81.23166656	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	13:20	13:25	00:05	62.26499939	-81.20833588	62.27000046	-81.18499756	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	13:30	13:35	00:05	62.27666855	-81.16166687	62.2816658	-81.13666534	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-16 00:00:00	13:40	13:45	00:05	62.28666687	-81.11333466	62.29166794	-81.09166718	Moving	8	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:00	09:05	00:05	62.82500076	-75.26000214	62.82500076	-75.23332977	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:10	09:15	00:05	62.82500076	-75.20833588	62.82500076	-75.18333435	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:20	09:25	00:05	62.82500076	-75.16166687	62.82500076	-75.13999939	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:30	09:35	00:05	62.83166504	-75.1166687	62.83166504	-75.09333038	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:40	09:45	00:05	62.83166504	-75.0716629	62.82500076	-75.04833221	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	09:50	09:55	00:05	62.82500076	-75.03166962	62.82666779	-75.00333405	Moving	8	Clear or Partly Cloudy	None	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	12:20	12:25	00:05	62.83666611	-74.36000061	62.83666611	-74.34166718	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	12:30	12:35	00:05	62.83666611	-74.31666565	62.83499908	-74.29833221	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	12:40	12:45	00:05	62.83499908	-74.27833557	62.83499908	-74.2583313	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	12:50	12:55	00:05	62.83333206	-74.23332977	62.83333206	-74.21333313	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	13:00	13:05	00:05	62.83333206	-74.19166565	62.83166504	-74.16833496	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-17 00:00:00	13:10	13:15	00:05	62.83166504	-74.14833069	62.83000183	-74.125	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	10:25	10:30	00:05	61.94499969	-67.82833099	61.94166565	-67.80500031	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	10:35	10:40	00:05	61.93999863	-67.78333282	61.9366684	-67.7583313	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	10:45	10:50	00:05	61.93500137	-67.73666382	61.93166733	-67.71166992	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	10:55	11:00	00:05	61.92666626	-67.68499756	61.92666626	-67.66166687	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	11:05	11:10	00:05	61.92499924	-67.63666534	61.92166519	-67.61000061	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	11:15	11:20	00:05	61.91666794	-67.58166504	61.91500092	-67.55166626	Moving	8	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Strong Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:05	14:10	00:05	61.77500153	-	61.77166748	-66.49500275	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:15	14:20	00:05	61.77000046	-66.46166992	61.77000046	-66.4283371	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:25	14:30	00:05	61.77000046	-66.39499664	61.77000046	-66.36166382	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:35	14:40	00:05	61.77000046	-66.32833099	61.77000046	-66.29499817	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:45	14:50	00:05	61.77166748	-66.26166534	61.77500153	-66.23000336	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Kitikmeot W.	2024-11-18 00:00:00	14:55	15:00	00:05	61.77999878	-66.1966629	61.78333282	-66.16666412	Moving	8	Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	14:50	14:55	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	14:57	15:02	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	15:04	15:09	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	15:12	15:17	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	15:21	15:26	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-15 00:00:00	15:35	15:40	00:05	63.92499924	-93.60832977	63.92499924	-93.60832977	Stationary	18		Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:30	13:35	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:35	13:40	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:40	13:45	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:45	13:50	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:50	13:55	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-19 00:00:00	13:55	14:00	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	20	Cloudy	Slight/ Grey	Rough	2	Gale Force Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	08:45	08:50	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	08:50	08:55	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	08:55	09:00	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	09:00	09:05	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	09:05	09:10	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	08:40	08:45	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	18	Cloudy	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:30	14:35	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:35	14:40	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:40	14:45	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:45	14:50	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:50	14:55	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Coastal Shipping	Tuvaq W.	2024-10-20 00:00:00	14:55	15:00	00:05	63.93999863	-93.63999939	63.93999863	-93.63999939	Stationary	15	Snow	None	Rough	2.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:10	15:15	00:05	60.30333328	-63.90499878	60.3133316	-63.91666794	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:16	15:21	00:05	60.31666565	-63.91833496	60.32500076	-63.93000031	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:22	15:27	00:05	60.32666779	-63.93166733	-	-63.94833374	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:28	15:33	00:05	60.34166718	-63.94833374	60.35499954	-63.96333313	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:34	15:39	00:05	60.35666656	-63.96500015	60.36833191	-63.98166656	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	15:40	15:45	00:05	60.37333298	-63.98666763	60.38333511	-63.99833298	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Moderate	2	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:00	16:05	00:05	60.4066658	-64.05000305	60.42499924	-64.10666656	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:10	16:15	00:05	60.42666626	-64.12666321	60.43166733	-64.15333557	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:20	16:25	00:05	60.43999863	-64.19000244	60.44833374	-64.21833038	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:30	16:35	00:05	60.44833374	-64.23166656	60.45500183	-64.25499725	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:40	16:45	00:05	60.45999908	-64.28833008	60.46500015	-64.3116684	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-24 00:00:00	16:50	16:55	00:05	60.4683342	-64.33166504	60.47499847	-64.33666992	Moving	2	Snow	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:10	15:15	00:05	62.4366684	-72.58166504	62.44333267	-72.61499786	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:16	15:21	00:05	62.44333267	-72.65333557	62.45000076	-72.65833282	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:22	15:27	00:05	62.45166779	-72.66166687	62.45666504	-72.69333649	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:28	15:33	00:05	62.45833206	-72.69833374	62.46500015	-72.73000336	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:34	15:39	00:05	62.46666718	-72.73166656	62.47166824	-72.76999664	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	15:40	15:45	00:05	62.47333145	-72.77333069	62.47833252	-72.80500031	Moving	15	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:00	16:05	00:05	62.5	-72.91500092	62.50833511	-72.95333099	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:10	16:15	00:05	62.51499939	-72.98833466	62.51666641	-73.02166748	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:20	16:25	00:05	62.51499939	-73.05500031	62.51499939	-73.09999847	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:30	16:35	00:05	62.51499939	-	62.51333237	-73.15833282	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:40	16:45	00:05	62.51499939	-73.1883316	62.51499939	-73.22333527	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-25 00:00:00	16:50	16:55	00:05	62.51499939	-73.28666687	62.51499939	-73.30166626	Moving	10	Snow	None	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:10	15:15	00:05	61.91666794	-82.73500061	61.91666794	-82.77166748	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:16	15:21	00:05	61.91666794	-82.77500153	61.91666794	-82.81999969	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:22	15:27	00:05	61.91666794	-82.82333374	61.91666794	-82.8666687	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:28	15:33	00:05	61.91666794	-82.87166595	61.91666794	-82.90833282	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:34	15:39	00:05	61.91666794	-82.91333008	61.91666794	-82.95666504	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	15:40	15:45	00:05	61.91666794	-82.96166992	61.91666794	-82.99833679	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:00	16:05	00:05	61.91500092	-83.12333679	61.91500092	-83.16999817	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:10	16:15	00:05	61.91500092	-83.20999908	61.91500092	-83.25333405	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:20	16:25	00:05	61.91500092	-83.27833557	61.91500092	-83.30666351	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:30	16:35	00:05	61.91500092	-83.37333679	61.91500092	-83.39333344	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:40	16:45	00:05	61.91500092	-83.41333008	61.91500092	-83.41999817	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-26 00:00:00	16:50	16:55	00:05	61.91500092	-83.44499969	61.91500092	-83.48500061	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	2	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	18:00	18:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	18:15	18:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	18:30	18:35	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	18:45	18:50	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	19:00	19:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transport Desgagnes	Nordika Desgagnés	2024-10-27 00:00:00	19:15	19:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	18:00	18:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	18:15	18:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	18:30	18:35	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	18:45	18:50	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	19:00	19:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-28 00:00:00	19:15	19:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	16	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Light Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	18:00	18:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	18:15	18:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	18:30	18:35	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	18:45	18:50	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	19:00	19:05	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-10-31 00:00:00	19:15	19:20	00:05	62.79000092	-92.08833313	62.79000092	-92.08833313	Stationary	8	Snow	Slight/ Grey	Moderate	1.5	Gale Force Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:00	16:05	00:05	62.62666702	-77.52166748	62.62666702	-77.49833679	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:06	16:11	00:05	62.62666702	-77.52833557	62.625	-77.44333649	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:12	16:17	00:05	62.62333298	-77.44000244	62.61833191	-77.36833191	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:18	16:23	00:05	62.61999893	-77.37999725	62.61333466	-77.3033371	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:24	16:29	00:05	62.60833359	-77.30000305	62.61000061	-77.23000336	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-13 00:00:00	16:30	16:35	00:05	62.60833359	-77.22666931	62.60833359	-77.19833374	Moving	4	Snow	None	Rough	1.5	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:00	12:05	00:05	61.24499893	-67.55166626	61.23166656	-67.54333496	Moving	6	Fog	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:10	12:15	00:05	61.23333359	-67.51000214	61.22333145	-67.47499847	Moving	6	Fog	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:20	12:25	00:05	61.21666718	-67.44499969	61.20500183	-67.39666748	Moving	6	Fog	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:30	12:35	00:05	61.19666672	-67.36833191	61.1883316	-67.33333588	Moving	6	Fog	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:40	12:45	00:05	61.17833328	-67.29333496	61.16666794	-67.25333405	Moving	6	Fog	None	Moderate	2	Strong Wind
Transport Desgagnes	Nordika Desgagnés	2024-11-14 00:00:00	12:50	12:55	00:05	61.15999985	-67.22333527	61.13499832	-67.16833496	Moving	6	Fog	None	Moderate	2	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:13	08:18	00:05	60.97999954	-66.88833618	60.98666763	-66.91999817	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:22	08:27	00:05	60.99333191	-66.94833374	61.00999832	-66.98166656	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:29	08:34	00:05	61.00333405	-66.99333191	61.00999832	-67.02500153	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:35	08:40	00:05	61.01333237	-67.03666687	61.02166748	-67.06833649	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:42	08:47	00:05	61.0233345	-67.07833099	61.02999878	-67.10832977	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	08:49	08:54	00:05	61.03333282	-67.12000275	61.04499817	-67.15166473	Moving	12	Clear or Partly Cloudy	None	Moderate	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	13:30	13:35	00:05	61.42333221	-68.77500153	61.43500137	-68.81999969	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	13:40	13:45	00:05	61.44166565	-68.84333038	61.44666672	-68.86833191	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	13:48	13:53	00:05	61.45166779	-68.88500214	61.45833206	-68.90666962	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	13:58	14:03	00:05	61.4683342	-68.95166779	61.47333145	-68.97333527	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	14:05	14:10	00:05	61.4766655	-68.98500061	61.48500061	-69.01833344	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	14:14	14:19	00:05	61.49000168	-69.03666687	61.49666595	-69.0616684	Moving	12	Clear or Partly Cloudy	None	Rough	2	
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:19	20:24	00:05	62.01833344	-71.20833588	62.02500153	-71.23500061	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:25	20:30	00:05	62.02666855	-71.2416687	62.03499985	-71.27333069	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:30	20:35	00:05	61.03499985	-71.27333069	62.04333496	-71.305336	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:36	20:41	00:05	62.04499817	-71.3116684	62.05333328	-71.34500122	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:41	20:46	00:05	62.05333328	-71.34500122	62.06000137	-71.37833405	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-20 00:00:00	20:47	20:52	00:05	62.0616684	-71.38500214	62.06999969	-71.41833496	Moving	12	Clear or Partly Cloudy	None	Rough	1	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:19	08:24	00:05	62.60833359	-76.48332977	62.60833359	-76.52833557	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:26	08:31	00:05	62.60833359	-76.53833008	62.60833359	-76.57499695	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:32	08:37	00:05	62.60833359	-76.58166504	62.61000061	-76.61499786	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:38	08:43	00:05	62.61000061	-76.62666321	62.61166763	-76.66000366	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:44	08:49	00:05	62.61166763	-76.66833496	62.61333466	-76.69833374	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	08:51	08:56	00:05	62.61333466	-76.70999908	62.61500168	-76.74333191	Moving	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:20	14:25	00:05	62.55833435	-79.16500092	62.55500031	-79.20333099	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:33	14:38	00:05	62.54833221	-79.26833344	62.54499817	-79.30833435	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:39	14:44	00:05	62.54333496	-79.3216629	62.54000092	-79.34999847	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:44	14:47	00:03	62.53833389	-79.36166382	62.53666687	-79.38999939	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:50	14:55	00:05	62.53499985	-79.40000153	62.5316658	-79.4383316	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	14:55	15:00	00:05	62.5316658	-79.44833374	62.52833176	-79.48000336	Moving	12	Clear or Partly Cloudy		Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:08	18:12	00:04	62.34500122	-80.79333496	62.34166718	-80.8133316	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:12	18:17	00:05	62.34166718	-80.81833649	62.33666611	-80.84666443	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:17	18:22	00:05	62.33666611	-80.84666443	62.33166504	-80.87833405	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:23	18:28	00:05	62.3133316	-80.88833618	62.32500076	-80.91666412	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:28	18:33	00:05	62.32500076	-80.91666412	62.31999969	-80.95166779	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-21 00:00:00	18:34	18:39	00:05	62.31833267	-80.95500183	62.31499863	-80.98166656	Moving	12	Clear or Partly Cloudy	None	Very Rough	4	Strong Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:00	08:05	00:05	62.21666718	-86.40833282	62.22000122	-86.45999908	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:07	08:12	00:05	62.22166824	-86.45999908	62.22499847	-86.49833679	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:13	08:18	00:05	62.22499847	-86.50499725	62.22833252	-86.54166412	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:20	08:25	00:05	62.22999954	-86.55666351	62.23333359	-86.59333038	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:26	08:31	00:05	62.23333359	-86.60166931	62.23666763	-86.63833618	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	08:32	08:37	00:05	62.23666763	-86.64666748	62.24000168	-86.68333435	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	13:30	13:35	00:05	62.44499969	-88.83666992	62.44833374	-88.86833191	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	13:36	13:41	00:05	62.45000076	-88.87833405	62.45500183	-88.91333008	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	13:42	13:47	00:05	62.45500183	-88.91833496	62.45999908	-88.95500183	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	13:51	13:56	00:05	62.46500015	-88.98666382	62.47833252	-89.02166748	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	14:03	14:08	00:05	62.47833252	-89.08166504	62.48166656	-89.11000061	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	14:09	14:14	00:05	62.48166656	-89.12166595	62.48500061	-89.15833282	Moving	1	Fog	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	19:59	20:04	00:05	62.72499847	-91.77999878	62.72499847	-91.81833649	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	20:05	20:10	00:05	62.72499847	-91.8216629	62.7266655	-91.85500336	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	20:11	20:16	00:05	62.7266655	-91.85832977	62.7266655	-91.89833069	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	20:17	20:22	00:05	62.7266655	-91.90666962	62.73166656	-91.9383316	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	20:23	20:28	00:05	62.73166656	-91.94166565	62.73500061	-91.96833038	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-22 00:00:00	20:29	20:34	00:05	62.73500061	-91.97166443	62.73833466	-91.98999786	Moving	12	Cloudy	None	Wavelets	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:18	08:23	00:05	63.16999817	-90.19333649	63.16833496	-90.1966629	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:24	08:29	00:05	63.16833496	-90.1966629	63.16833496	-90.19999695	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:30	08:35	00:05	63.16833496	-90.20166779	63.16666794	-90.20500183	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:36	08:41	00:05	63.16666794	-90.20500183	63.16666794	-90.20833588	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:42	08:47	00:05	63.16666794	-90.20833588	63.16666794	-90.21166992	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	08:48	08:53	00:05	63.16666794	-90.21166992	63.16666794	-90.21333313	Stationary	12	Clear or Partly Cloudy	None	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	13:47	13:52	00:05	63.38333511	-90.68166351	63.39333344	-90.70500183	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	13:53	13:58	00:05	63.39500046	-90.70666504	63.40999985	-90.71666718	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	14:00	14:05	00:05	63.41166687	-90.73166656	63.42499924	-90.76333618	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	14:10	14:15	00:05	63.4366684	-90.78666687	63.44833374	-90.80999756	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	14:16	14:21	00:05	63.44933319	-90.81500244	63.45833206	-90.83166504	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	14:21	14:26	00:05	63.45999908	-90.83499908	63.47000122	-90.85333252	Moving	12	Clear or Partly Cloudy	None	Rippled	0	Light Wind
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:04	18:09	00:05	63.72000122	-92.12000275	63.7266655	-92.16999817	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:16	18:21	00:05	63.73833466	-92.19999695	63.75	-92.24666595	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:28	18:33	00:05	63.75166702	-92.29333496	63.75166702	-92.32833099	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:33	18:38	00:05	63.75166702	-92.33166504	63.75166702	-92.36499786	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:38	18:43	00:05	63.75166702	-92.36499786	63.76333237	-92.39499664	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-23 00:00:00	18:44	18:50	00:06	63.76499939	-92.39666748	63.77999878	-92.42166901	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transartik	Miena Desgagnés	2024-08-24 00:00:00	20:31	20:36	00:05	63.93333435	-93.6166687	63.93333435	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-24 00:00:00	20:37	20:42	00:05	63.93333435	-93.6166687	63.93333435	-93.6166687	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-24 00:00:00	20:44	20:49	00:05	63.93333435	-93.6166687	63.93333435	-93.61833191	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-24 00:00:00	20:50	20:55	00:05	63.93333435	-93.61833191	63.93333435	-93.61833191	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-24 00:00:00	20:56	21:01	00:05	63.93333435	-93.61833191	63.93333435	-93.61833191	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-24 00:00:00	21:03	21:08	00:05	63.93333435	-93.61833191	63.93333435	-93.61833191	Stationary	12	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:00	18:05	00:05	63.93333435	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:06	18:11	00:05	63.93500137	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:13	18:18	00:05	63.93500137	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:19	18:24	00:05	63.93500137	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:25	18:30	00:05	63.93500137	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-08-25 00:00:00	18:31	18:36	00:05	63.93500137	-93.62666321	63.93500137	-93.62666321	Stationary	8		None	Wavelets	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:00	20:05	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:06	20:11	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:12	20:17	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:18	20:23	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:25	20:30	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-26 00:00:00	20:31	20:36	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:21	07:26	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:27	07:32	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:33	07:38	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:40	07:45	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:46	07:51	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-27 00:00:00	07:53	07:58	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	12		None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:04	18:09	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:10	18:15	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:17	18:22	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:23	18:28	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:30	18:35	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-28 00:00:00	18:37	18:42	00:05	63.9366684	-93.62833405	63.9366684	-93.62833405	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:03	18:08	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:06	18:11	00:05	63.93500137	-93.63500214	63.93500137	-93.63500214	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:13	18:18	00:05	63.93500137	-93.63500214	63.93500137	-93.63500214	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:14	18:24	00:10	63.93500137	-93.63500214	63.93500137	-93.63500214	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:25	18:30	00:05	63.93500137	-93.63500214	63.93500137	-93.63500214	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-29 00:00:00	18:31	18:36	00:05	63.93500137	-93.63500214	63.93500137	-93.63500214	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:00	18:05	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:06	18:11	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:13	18:18	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:20	18:25	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:26	18:31	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-08-31 00:00:00	18:32	18:37	00:05	63.93333435	-93.63166809	63.93333435	-93.63166809	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:00	18:05	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:06	18:11	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:12	18:17	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:19	18:24	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:25	18:30	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-01 00:00:00	18:31	18:36	00:05	63.93333435	-93.62666321	63.93333435	-93.62666321	Stationary	12	Clear or Partly Cloudy	None	Glassy	0	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:00	18:05	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:06	18:11	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:13	18:18	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:19	18:24	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:25	18:30	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-02 00:00:00	18:31	18:36	00:05	63.9366684	-93.63166809	63.9366684	-93.63166809	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:00	18:05	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:06	18:11	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:12	18:17	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:19	18:24	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:25	18:30	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-03 00:00:00	18:31	18:36	00:05	63.93333435	-93.62999725	63.93333435	-93.62999725	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-04 00:00:00	19:54	19:59	00:05	60.67499924	-91.60500336	60.66333389	-91.57333374	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-04 00:00:00	20:00	20:05	00:05	63.66166687	-91.56833649	63.64500046	-91.54499817	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-09-04 00:00:00	20:16	20:21	00:05	63.63333511	-91.46166992	63.63333511	-91.43333435	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-04 00:00:00	20:33	20:38	00:05	63.61666489	-91.34666443	63.60499954	-91.3033371	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-04 00:00:00	20:44	20:49	00:05	63.59500122	-91.26499939	63.59166718	-91.21833038	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-04 00:00:00	20:52	20:57	00:05	63.59166718	-91.19333649	63.59166718	-91.15666962	Moving	12	Clear or Partly Cloudy	None	Rippled	0.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	08:40	08:45	00:05	62.36500168	-85.69833374	62.35666656	-85.65333557	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	08:46	08:51	00:05	62.35666656	-85.64666748	62.3433342	-85.59666443	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	08:53	08:58	00:05	62.3433342	-85.58166504	62.33666611	-85.54000092	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	09:03	09:08	00:05	62.32833481	-85.50166321	62.32166672	-85.46166992	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	09:09	09:14	00:05	62.31999969	-85.45166779	62.3116684	-85.41500092	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	09:15	09:20	00:05	62.31000137	-85.40499878	62.30333328	-85.3666687	Moving	12	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	15:37	15:44	00:07	62.09166718	-82.42500305	62.1016655	-82.36333466	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	15:45	15:50	00:05	62.1016655	-82.35832977	62.10666656	-82.32666779	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	15:51	16:17	00:26	62.10833359	-82.31833649	62.13833237	-82.11833191	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	16:20	16:25	00:05	62.13850021	-82.19000244	62.13750076	-82.16816711	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	16:25	16:30	00:05	62.13750076	-82.16816711	62.13999939	-82.13833618	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	16:30	16:35	00:05	62.14033508	-82.14550018	62.14466476	-82.12166595	Moving	12	Clear or Partly Cloudy	None	Slight	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	18:34	18:39	00:05	62.30333328	-81.06500244	62.31000137	-81.02166748	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	18:40	18:45	00:05	62.31000137	-81.01667023	62.31666565	-80.97833252	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	18:45	18:50	00:05	62.31666565	-80.97833252	62.32333374	-80.93333435	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	18:51	18:56	00:05	62.32500076	-80.9283371	62.33166504	-80.88999939	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	18:56	19:01	00:05	62.33166504	-80.88999939	62.33833313	-80.84666443	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-05 00:00:00	19:02	19:07	00:05	62.34000015	-80.83999634	-	-	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	08:28	08:33	00:05	62.52500153	-73.62000275	62.5233345	-73.56833649	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	08:34	08:39	00:05	62.5233345	-73.55666351	62.52166748	-73.49333191	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	08:41	08:46	00:05	62.52166748	-73.48666382	62.51666641	-73.43166351	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	08:47	08:52	00:05	62.51666641	-73.42333221	62.50999832	-73.375	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	08:53	08:58	00:05	62.50833511	-73.3666687	62.49833298	-73.30999756	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	09:00	09:05	00:05	62.48333359	-73.29666901	62.48500061	-73.25	Moving	12	Clear or Partly Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	13:32	13:37	00:05	62.00500107	-71.14167023	61.99833298	-71.1103363	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	13:38	13:43	00:05	61.99666595	-71.10500336	61.98833466	-71.06666565	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	13:44	13:49	00:05	61.98500061	-71.05500031	61.9766655	-71.00666809	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	13:50	13:55	00:05	61.97499847	-71.00666809	61.96666718	-70.97000122	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	14:05	14:10	00:05	61.94666672	-70.88166809	61.93999863	-70.84833527	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-06 00:00:00	14:12	14:17	00:05	61.9366684	-70.83666992	61.92666626	-70.80000305	Moving	12	Clear or Partly Cloudy	None	Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	17:43	17:48	00:05	60.24000168	-63.50666809	60.24833298	-63.53499985	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	17:50	17:55	00:05	60.25166702	-63.54499817	60.26166534	-63.57666779	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	17:56	18:03	00:07	60.26333237	-63.58166504	60.27666855	-63.62666702	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	18:05	18:10	00:05	60.27999878	-63.63166809	60.28833389	-63.65833282	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	18:12	18:17	00:05	60.29333496	-63.67333221	60.30333328	-63.69833374	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-25 00:00:00	18:18	18:23	00:05	60.30500031	-63.70666504	60.31499863	-63.73666763	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:09	18:14	10:05	61.6883316	-69.83999634	61.69666672	-69.875	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:15	08:20	00:05	61.69833374	-69.88500214	61.70999908	-69.92666626	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:22	08:27	00:05	61.71166611	-69.9383316	61.72166824	-69.97666931	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:28	08:33	00:05	61.72333145	-69.98500061	61.73500061	-70.02333069	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:34	08:39	00:05	61.73666763	-70.03500366	61.74666595	-70.06999969	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	08:40	08:45	00:05	61.74833298	-70.07666779	61.75999832	-70.11833191	Moving	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:17	16:22	00:05	62.45666504	-73.14666748	62.46666718	-73.18499756	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:23	16:28	00:05	62.4683342	-73.19000244	62.4766655	-73.22666931	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:28	16:33	00:05	62.4766655	-73.22666931	62.48666763	-73.26499939	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:33	16:38	00:05	62.48666763	-73.26499939	62.49833298	-73.30833435	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:39	16:44	00:05	62.49833298	-73.30833435	62.50833511	-73.34999847	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	16:44	16:49	00:05	62.50833511	-73.35333252	62.50999832	-73.38999939	Moving	12	Cloudy	None	Wavelets	0.5	Light Wind
Transartik	Miena Desgagnés	2024-09-26 00:00:00	17:36	17:41	00:05	62.52666855	-73.79833221	62.52666855	-73.83166504	Moving	7	Cloudy	None	Slight	1	

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-09-26 00:00:00	17:42	17:47	00:05	62.52666855	-73.83999634	62.52999878	-73.88666534	Moving	7	Cloudy	None	Slight	1	
Transartik	Miena Desgagnés	2024-09-26 00:00:00	17:48	17:52	00:04	62.52999878	-73.89666748	62.5316658	-73.94166565	Moving	7	Cloudy	None	Slight	1	
Transartik	Miena Desgagnés	2024-09-26 00:00:00	17:54	17:59	00:05	62.5316658	-73.95333099	62.53333282	-73.99833679	Moving	7	Cloudy	None	Slight	1	
Transartik	Miena Desgagnés	2024-09-26 00:00:00	18:00	18:05	00:05	62.53333282	-74.0083313	62.53499985	-74.0533371	Moving	7	Cloudy	None	Slight	1	
Transartik	Miena Desgagnés	2024-09-26 00:00:00	18:06	18:11	00:05	62.53499985	-74.06500244	62.53666687	-74.11333466	Moving	7	Cloudy	None	Slight	1	
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:11	08:16	00:05	61.41166687	-79.42500305	61.40333176	-79.46166992	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:17	08:22	00:05	61.40166855	-79.47166443	61.39166641	-79.51333618	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:23	08:28	00:05	61.38999939	-79.52333069	61.38166809	-79.5533371	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:29	08:34	00:05	61.38000107	-74.5616684	61.36999893	-74.59833527	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:35	08:40	00:05	61.36833191	-79.60832977	61.36000061	-79.64167023	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	08:41	08:46	00:05	61.35833359	-79.65000153	61.34666824	-79.69166565	Moving	0.4	Fog	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:15	16:20	00:05	60.81666565	-82.73166656	60.82500076	-82.76999664	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:21	16:26	00:05	60.82500076	-82.77166748	60.83333206	-82.80833435	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:26	16:31	00:05	60.83499908	-82.80500031	60.84166718	-82.83999634	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:31	16:36	00:05	60.84166718	-82.83999634	60.84999847	-82.87999725	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:36	16:41	00:05	60.84999847	-82.87999725	60.85666656	-82.91166687	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	16:41	16:46	00:05	60.85833359	-82.91500092	60.86500168	-82.94833374	Moving	2	Fog	None	Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	17:50	17:55	00:05	60.96500015	-83.37999725	60.97333145	-83.41833496	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	17:57	18:04	00:07	60.97499847	-83.42666626	60.98666763	-83.47833252	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	18:05	18:10	00:05	60.98666763	-83.48000336	60.99499893	-83.51999664	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	18:12	18:17	00:05	60.99666595	-83.52999878	61.00333405	-83.55833435	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	18:18	18:23	00:05	61.00500107	-83.56999969	61.01166534	-83.60166931	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-27 00:00:00	18:24	18:29	00:05	61.01499939	-83.61166382	61.02000046	-83.64333344	Moving	4	Cloudy		Very Rough	3	Gale Force Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:06	08:11	00:05	62.30333328	-89.59166718	62.3116684	-89.62999725	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:12	08:17	00:05	62.3133316	-89.63666534	62.31999969	-89.67166901	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:18	08:23	00:05	62.32166672	-89.67666626	62.33000183	-89.71333313	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:24	08:29	00:05	62.24833298	-89.72499847	62.33833313	-89.75499725	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:30	08:35	00:05	62.34166718	-89.76999664	62.34833145	-89.80166626	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-28 00:00:00	08:36	08:41	00:05	62.34999847	-89.80999756	62.35833359	-89.84666443	Moving	12	Clear or Partly Cloudy	None	Slight	1.5	Strong Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:06	18:11	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:12	18:17	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:19	18:24	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:25	18:30	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:31	18:36	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:31	18:36	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-29 00:00:00	18:00	18:05	00:05	63.94333267	-93.60666656	63.94333267	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.8	Light Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:00	18:05	00:05	63.94166565	-93.61333466	63.94166565	-93.61333466	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:06	18:11	00:05	63.94166565	-93.61333466	63.94166565	-93.61333466	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:12	18:17	00:05	63.94166565	-93.61333466	63.94166565	-93.61333466	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:19	18:24	00:05	63.94166565	-93.61333466	63.94166565	-93.61333466	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:25	18:30	00:05	63.94166565	-93.61333466	63.94166565	-93.61333466	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-09-30 00:00:00	18:31	18:36	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Rippled	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:02	18:07	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:08	18:13	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:15	18:20	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:21	18:26	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:28	18:33	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-01 00:00:00	18:35	18:40	00:05	63.93999863	-93.61333466	63.93999863	-93.61333466	Stationary	10		None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-02 00:00:00	17:57	18:02	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-02 00:00:00	18:03	18:08	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-02 00:00:00	18:10	18:15	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-02 00:00:00	18:16	18:21	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-02 00:00:00	18:23	18:28	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-10-02 00:00:00	18:30	18:35	00:05	63.93999863	-93.61499786	63.93999863	-93.61499786	Stationary	10	Cloudy	None	Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:06	18:11	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:12	18:17	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:18	18:23	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:24	18:29	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:30	18:35	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-03 00:00:00	18:36	18:41	00:05	63.93999863	-93.61166382	63.93999863	-93.61166382	Stationary	12		None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	17:59	18:04	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	18:05	18:10	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	18:11	18:16	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	18:18	18:23	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	18:25	18:30	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-04 00:00:00	18:31	18:36	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	17:56	18:01	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	18:02	18:07	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	18:09	18:14	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	18:15	18:20	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	18:21	18:26	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-05 00:00:00	18:27	18:32	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Cloudy	None	Wavelets	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	17:58	18:03	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	18:04	18:09	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	18:10	18:15	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	18:16	18:21	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	18:23	18:28	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-06 00:00:00	18:30	18:35	00:05	63.94166565	-93.60666656	63.94166565	-93.60666656	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:14	18:19	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:20	18:25	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:26	18:31	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:33	18:38	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:02	18:07	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-07 00:00:00	18:08	18:13	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Clear or Partly Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:01	18:06	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:07	18:12	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:13	18:18	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:19	18:24	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:25	18:30	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-08 00:00:00	18:32	18:37	00:05	63.94333267	-93.61333466	63.94333267	-93.61333466	Stationary	12	Cloudy		Wavelets	1	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	17:56	18:01	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	18:02	18:07	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	18:08	18:13	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	18:14	18:19	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	18:20	18:25	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-09 00:00:00	18:26	18:31	00:05	63.94499969	-93.61499786	63.94499969	-93.61499786	Stationary	12		None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	17:59	18:04	00:05	63.94499969	-93.61000061	63.94499969	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	18:05	18:10	00:05	63.94499969	-93.61000061	63.94499969	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	18:11	18:16	00:05	63.94499969	-93.61000061	63.94499969	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	18:17	18:22	00:05	63.94499969	-93.61000061	63.94499969	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	18:24	18:29	00:05	63.94499969	-93.61000061	63.94499969	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-10 00:00:00	18:30	18:35	00:05	63.94333267	-93.61000061	63.94333267	-93.61000061	Stationary	12	Cloudy	None	Rippled	0.3	Light Wind
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:01	18:06	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:07	18:12	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:13	18:18	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:20	18:25	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:26	18:31	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-11 00:00:00	18:32	18:37	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:01	12:06	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:07	12:12	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:13	12:18	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:19	12:24	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:25	12:30	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-12 00:00:00	12:31	12:36	00:05	63.93999863	-93.60666656	63.93999863	-93.60666656	Stationary	12	Cloudy	None	Wavelets	1.2	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:01	16:06	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:07	16:12	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:13	16:18	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:19	16:24	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:25	16:30	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-13 00:00:00	16:31	16:36	00:05	63.93999863	-93.60832977	63.93999863	-93.60832977	Stationary	12	Cloudy		Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:18	10:13	23:55	62.89166641	-88.30000305	62.88000107	-88.24500275	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:24	10:29	00:05	62.87833405	-88.23999786	62.86999893	-88.20166779	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:29	10:34	00:05	62.86999893	-88.20166779	62.86000061	-88.15833282	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:35	10:40	00:05	62.86000061	-88.15333557	62.84999847	-88.10500336	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:41	10:46	00:05	62.84999847	-88.10166931	62.84166718	-88.05666351	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	10:47	10:52	00:05	62.84000015	-88.05000305	62.83333206	-88.01333618	Moving	10	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:07	16:12	00:05	62.3133316	-85.41333008	62.30500031	-85.375	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:13	16:18	00:05	62.30333328	-85.3666687	62.29499817	-85.32499695	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:19	16:24	00:05	62.29333496	-85.31666565	62.28499985	-85.27500153	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:25	16:30	00:05	62.28333282	-85.26499939	62.27500153	-85.22333527	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:31	16:36	00:05	62.27166748	-85.21499634	62.26499939	-85.17166901	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	16:37	16:42	00:05	62.26333237	-85.16500092	62.25500107	-85.12333679	Moving	8	Cloudy	None	Rippled	0.8	Strong Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	17:37	17:42	00:05	62.16833496	-84.64833069	62.16166687	-84.61000061	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	17:43	17:48	00:05	62.15833282	-84.59833527	62.15166855	-84.55833435	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	17:49	17:54	00:05	62.15000153	-	62.14166641	-84.5	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	17:55	18:01	00:06	62.13999939	-84.49333191	62.13000107	-84.43333435	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	18:02	18:12	00:10	62.12833405	-84.4283371	62.11333466	-84.34500122	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-14 00:00:00	18:13	18:18	00:05	62.11166763	-	62.10499954	-84.30166626	Moving	9	Cloudy	None	Rippled	0.5	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:09	18:14	10:05	62.62333298	-76.91833496	62.62166595	-76.86166382	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:15	08:20	00:05	62.61999893	-76.85166931	62.61833191	-76.80833435	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:21	08:26	00:05	62.61833191	-76.79833221	62.61666489	-76.74833679	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:27	08:32	00:05	62.61500168	-76.73833466	62.61333466	-76.69000244	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:33	08:38	00:05	62.61333466	-	62.61000061	-76.62833405	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	08:39	08:44	00:05	62.61000061	-76.61000061	62.60833359	-76.55833435	Moving	12	Cloudy	None	Wavelets	1.3	Strong Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:18	15:23	00:05	62.40499878	-72.92500305	62.39500046	-72.8833313	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:24	15:29	00:05	62.39333344	-72.87999725	62.38000107	-72.8216629	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:30	15:35	00:05	62.38000107	-72.8216629	62.36999893	-72.77333069	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:36	15:41	00:05	62.36833191	-73.60166931	62.35833359	-72.72499847	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:41	15:46	00:05	62.35833359	-72.72499847	62.34833145	-72.68166351	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	15:47	15:52	00:05	62.34666824	-72.66999817	62.33666611	-72.62666321	Moving	10	Cloudy	None	Slight	0.7	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	17:45	17:50	00:05	62.11999893	-71.65833282	62.11166763	-71.62333679	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	17:51	17:56	00:05	62.11000061	-71.61499786	62.09999847	-71.57666779	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	17:56	18:01	00:05	62.09999847	-71.57666779	62.08933258	-71.53833008	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	18:02	18:07	00:05	62.08666611	-71.52833557	62.07666779	-71.48500061	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	18:07	18:12	00:05	62.07666779	-71.48500061	62.06999969	-71.44833374	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-15 00:00:00	18:12	18:17	00:05	62.06999969	-71.44000244	62.0616684	-71.41333008	Moving	10	Cloudy		Slight	1	Light Wind
Transartik	Miena Desgagnés	2024-10-16 00:00:00	08:33	08:38	00:05	60.52999878	-64.70166779	60.52833176	-64.65333557	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind
Transartik	Miena Desgagnés	2024-10-16 00:00:00	08:39	08:44	00:05	60.52833176	-64.64167023	60.52666855	-64.58499908	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind
Transartik	Miena Desgagnés	2024-10-16 00:00:00	08:45	08:50	00:05	60.52666855	-64.58666992	60.5233345	-64.53166962	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transartik	Miena Desgagnés	2024-10-16 00:00:00	08:51	08:56	00:05	60.5233345	-64.52333069	60.52166748	-64.47499847	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind
Transartik	Miena Desgagnés	2024-10-16 00:00:00	08:57	09:02	00:05	60.52166748	-64.46333313	60.52000046	-64.42166901	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind
Transartik	Miena Desgagnés	2024-10-16 00:00:00	09:03	09:08	00:05	60.52000046	-64.41333008	60.51666641	-64.37833405	Moving	12	Cloudy	None	Wavelets	1.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:15	16:20	00:05	61.92166519	-69.90666962	61.92499924	-69.95999908	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:21	16:26	00:05	61.92833328	-69.95666504	61.93333435	-70.00166321	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:27	16:32	00:05	61.93500137	-70.00499725	-	-70.03833008	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:33	16:38	00:05	61.94333267	-70.05000305	61.94666672	-70.0716629	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:39	16:44	00:05	61.94833374	-70.07333374	61.95333481	-70.09333038	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-06 00:00:00	16:45	16:50	00:05	61.95500183	-70.09500122	61.96166611	-70.15333557	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.25	Calm
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:05	16:10	00:05	62.66666794	-80.72833252	62.66666794	-80.75499725	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:11	16:16	00:05	62.66666794	-80.7583313	62.66666794	-80.80833435	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:17	16:22	00:05	62.66500092	-80.80999756	62.65499878	-80.85333252	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:23	16:28	00:05	62.65499878	-80.85500336	62.64666748	-80.90000153	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:29	16:34	00:05	62.64500046	-80.90166473	62.63833237	-80.95833588	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-07 00:00:00	16:35	16:40	00:05	62.63833237	-80.95833588	62.63000107	-81.00333405	Moving	-2	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:10	14:15	00:05	62.58833313	-90.77166748	62.59166718	-90.80500031	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:16	14:21	00:05	62.5933342	-90.80666351	62.59666824	-90.85166931	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:22	14:27	00:05	62.59833145	-90.85333252	62.59999847	-90.88500214	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:28	14:33	00:05	62.6016655	-90.88833618	62.60499954	-90.9283371	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:34	14:39	00:05	62.60499954	-90.93166351	62.60833359	-90.96499634	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-08 00:00:00	14:40	14:45	00:05	62.58416748	-90.96833038	62.61166763	-91.00333405	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:20	15:25	00:05	62.5233345	-90.10333252	62.51833344	-90.05999756	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:26	15:31	00:05	62.51833344	-90.05999756	62.52999878	-90.01999664	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:32	15:37	00:05	62.51333237	-90.01833344	62.50999832	-89.97333527	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:38	15:43	00:05	62.50833511	-89.96666718	62.50500107	-89.91666412	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:44	15:49	00:05	62.50166702	-89.90833282	62.5	-89.87166595	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	15:50	15:55	00:05	62.5	-89.8666687	62.49666595	-89.83000183	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:10	16:15	00:05	62.48333359	-89.71333313	62.47999954	-89.67333221	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:16	16:21	00:05	62.47833252	-89.66999817	62.47499847	-89.62333679	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:22	16:27	00:05	62.47166824	-89.61833191	62.4683342	-89.57499695	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:28	16:33	00:05	62.46666718	-89.5716629	62.46333313	-89.51833344	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:34	16:39	00:05	62.46166611	-89.51667023	62.45999908	-89.48000336	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-21 00:00:00	16:40	16:45	00:05	62.45833206	-89.47833252	62.45500183	-89.43333435	Moving	0.5	Fog	Slight/ Grey	Moderate	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:10	16:15	00:05	62.66666794	-78.77500153	62.66666794	-78.73000336	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:16	16:21	00:05	62.66666794	-78.73000336	62.66666794	-78.68333435	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:22	16:27	00:05	62.66666794	-78.67166901	62.66666794	-78.63833618	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:28	16:33	00:05	62.66666794	-78.6333313	62.66500092	-78.58666992	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:34	16:39	00:05	62.66500092	-78.58333588	62.66333389	-78.53166962	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-22 00:00:00	16:40	16:45	00:05	62.66333389	-78.53166962	62.66333389	-78.48999786	Moving	2	Fog	Slight/ Grey	Moderate	2	Strong Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:00	13:05	00:05	61.70833206	-68.84666443	61.6866684	-68.75166321	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:10	13:15	00:05	61.68500137	-68.73666382	61.68000031	-68.73000336	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:20	13:25	00:05	61.67833328	-68.70166779	61.67333221	-68.67166901	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:30	13:35	00:05	61.66833496	-68.63500214	61.65833282	-68.58999634	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:40	13:45	00:05	61.65333176	-68.55833435	61.64333344	-68.51499939	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Desgagnes	Nordika Desgagnés	2024-08-23 00:00:00	13:50	13:55	00:05	61.63166809	-68.47666931	61.61500168	-68.41833496	Moving	10	Clear or Partly Cloudy	None	Slight	3	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	20:05	20:10	00:05	63.99499893	-94.19333649	63.99499893	-94.21666718	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	22:10	22:15	00:05	64.13500214	-94.69833374	64.13833618	-94.72833252	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	20:20	20:25	00:05	64.14333344	-94.76999664	64.14666748	-94.80166626	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	22:30	22:35	00:05	64.15166473	-94.83666992	64.15499878	-94.875	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	22:35	22:40	00:05	64.15499878	-94.875	64.16000366	-94.91666412	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	23:10	23:15	00:05	64.1866684	-95.14333344	64.19166565	-95.18333435	Moving	10	Cloudy	Bright on Observer's Side	Wavelets	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	04:32	04:37	00:05	64.18333435	-95.10666656	64.18000031	-95.07666779	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	04:55	05:00	00:05	64.16833496	-94.96833038	64.16500092	-94.94166565	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	05:05	05:10	00:05	64.15833282	-94.88166809	64.15333557	-94.84999847	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	05:23	05:28	00:05	64.14833069	-94.80833435	64.14499664	-94.77500153	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	05:33	05:38	00:05	64.14167023	-94.74666595	64.13666534	-94.72000122	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-31 00:00:00	05:43	05:48	00:05	64.1333313	-94.69000244	64.12999725	-94.66166687	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	06:05	06:10	00:05	63.99499893	-94.21666718	63.99499893	-94.23666382	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	06:15	06:20	00:05	63.99333191	-94.25499725	63.99333191	-94.26333618	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	06:35	06:40	00:05	63.99166489	-94.30666351	63.99499893	-94.31999969	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	08:05	08:10	00:05	64.14167023	-94.72499847	64.14666748	-94.76000214	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	09:05	09:10	00:05	64.1966629	-95.15499878	64.19999695	-95.19000244	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-30 00:00:00	09:30	09:35	00:05	64.21499634	-95.33499908	64.22000122	-95.37000275	Moving	11	Clear or Partly Cloudy	Slight/ Grey	Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	16:20	16:25	00:05	64.11833191	-94.51833344	64.11833191	-94.49333191	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	16:27	16:32	00:05	64.11833191	-94.48332977	64.11833191	-94.45333099	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	17:12	17:17	00:05	64.05999756	-94.3666687	64.05500031	-94.34999847	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	17:21	17:26	00:05	64.04833221	-94.33666992	64.04000092	-94.31833649	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	17:29	17:34	00:05	64.03500366	-94.30999756	64.02333069	-94.31833649	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-29 00:00:00	17:36	17:41	00:05	64.01833344	-94.32499695	64.0083313	-94.32499695	Moving	10	Clear or Partly Cloudy	Slight/ Grey	Slight	0.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:05	16:10	00:05	64.00333405	-94.32499695	63.99666595	-94.32333374	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:10	16:15	00:05	63.99666595	-94.32333374	63.99333191	-94.3133316	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:15	16:20	00:05	63.99333191	-94.3133316	63.99333191	-94.30166626	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:20	16:25	00:05	63.99333191	-94.30166626	63.99166489	-94.27999878	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:25	16:30	00:05	63.98833466	-94.27999878	63.99333191	-94.25333405	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-23 00:00:00	16:30	16:35	00:05	63.99333191	-94.25333405	63.99499893	-94.20999908	Moving	14	Cloudy	Slight/ Grey	Rippled	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	18:30	18:35	00:05	64.12666321	-94.6166687	64.12999725	-94.66333008	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	18:45	18:50	00:05	64.13833618	-94.73500061	64.14333344	-94.77166748	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	19:30	19:35	00:05	64.1783371	-95.06833649	64.18166351	-95.09999847	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	19:45	19:50	00:05	64.19000244	-95.17166901	64.19499969	-95.20833588	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	20:20	20:25	00:05	64.22000122	-95.42666626	64.22499847	-95.46333313	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-07-28 00:00:00	20:40	20:45	00:05	64.23833466	-95.57666779	64.24333191	-95.61000061	Moving	12	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	15:42	15:47	00:05	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	15:49	15:54	00:05	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	16:00	16:05	00:05	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	16:06	16:11	00:05	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	16:13	16:18	00:05	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-04 00:00:00	16:21	16:20	23:59	64.29166412	-95.94999695	64.29166412	-95.94999695	Stationary	10	Clear or Partly Cloudy	None	Moderate	0.5	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	08:20	08:25	00:05	64.14499664	-94.77999878	64.14167023	-94.77166748	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	08:30	08:35	00:05	64.13833618	-94.72666931	64.13500214	-94.69333649	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	08:35	08:40	00:05	64.13500214	-94.69333649	64.13166809	-94.66666412	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	09:05	09:10	00:05	64.1166687	-94.53833008	64.1166687	-94.51499939	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	09:20	09:25	00:05	64.1166687	-94.46333313	64.1166687	-94.4383316	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-03 00:00:00	10:50	10:55	00:05	63.99499893	-94.26000214	63.99333191	-94.24666595	Moving	11	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	10:40	10:45	00:05	64.03333282	-94.43499756	64.1166687	-94.47000122	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	10:50	10:55	00:05	64.1166687	-94.50166321	64.1166687	-94.54000092	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	11:05	11:10	00:05	64.125	-94.61333466	64.12833405	-94.64833069	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	11:15	11:20	00:05	64.1333313	-94.68499756	64.13666534	-94.72499847	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	11:25	11:30	00:05	64.14167023	-94.75666809	64.14499664	-94.79499817	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-02 00:00:00	11:35	11:40	00:05	64.15000153	-94.83166504	64.15499878	-94.8666687	Moving	4	Cloudy	None	Moderate	1.3	Strong Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:15	10:20	00:05	64.16333008	-94.93166351	64.18000031	-94.96333313	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:20	10:25	00:05	64.18000031	-94.96333313	64.17166901	-95.0083313	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:25	10:30	00:05	64.17166901	-95.0083313	64.17500305	-95.04333496	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:30	10:35	00:05	64.17500305	-95.04333496	64.1783371	-95.07833099	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:35	10:40	00:05	64.1783371	-95.07833099	64.18333435	-95.11499786	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-16 00:00:00	10:40	10:45	00:05	64.18333435	-95.11499786	64.1883316	-95.15499878	Moving	11	Cloudy	None	Slight	0.6	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	14:33	14:38	00:05	64.26999664	-95.8133316	64.26499939	-95.78333282	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	15:31	15:36	00:05	64.23000336	-95.48833466	64.22666931	-95.46333313	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	15:41	15:46	00:05	64.22333527	-95.43333435	64.21833038	-95.40333557	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	15:49	15:54	00:05	64.21666718	-95.38833618	64.21333313	-95.35832977	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	16:01	16:06	00:05	64.20833588	-95.31666565	64.20500183	-95.29000092	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-15 00:00:00	16:16	16:21	00:05	64.19833374	-95.23166656	64.19499969	-95.20500183	Moving	18	Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:30	20:35	00:05	64.14666748	-94.79833221	64.15166473	-94.83833313	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:35	20:40	00:05	64.15166473	-94.83833313	64.15666962	-94.87999725	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:40	20:45	00:05	64.15666962	-94.87999725	64.16000366	-94.91666412	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:45	20:50	00:05	64.16000366	-94.91666412	64.16500092	-94.95166779	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:50	20:55	00:05	64.16500092	-94.95166779	64.16999817	-94.9916687	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-14 00:00:00	20:55	21:00	00:05	64.16999817	-94.9916687	64.17500305	-95.02999878	Moving	11	Cloudy	None	Slight	0.8	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	06:30	06:35	00:05	64.1333313	-94.68499756	64.13833618	-94.72166443	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	06:40	06:45	00:05	64.14167023	-94.75499725	64.14666748	-94.79333496	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	06:50	06:55	00:05	64.15000153	-94.83333588	64.15333557	-94.87000275	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	07:15	07:20	00:05	64.17333221	-95.02500153	64.17666626	-95.05666351	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	07:25	07:30	00:05	64.18166351	-95.09166718	64.18499756	-95.12333679	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-13 00:00:00	07:30	07:35	00:05	64.18499756	-95.12333679	64.19000244	-95.16000366	Moving	8	Cloudy	None	Wavelets	0.1	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	13:48	13:53	00:05	64.15333557	-94.79166412	64.14666748	-94.7583313	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	13:55	14:00	00:05	64.14499664	-94.74333191	64.13666534	-94.70833588	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	14:06	14:11	00:05	64.13166809	-94.66666412	64.12999725	-94.64333344	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	14:14	14:19	00:05	64.12833405	-94.62833405	64.125	-94.61333466	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	14:47	14:52	00:05	64.11833191	-94.5083313	64.11833191	-94.48666382	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-12 00:00:00	13:40	13:45	00:05	64.16000366	-94.85500336	64.15666962	-94.81666565	Moving	5		Slight/ Grey	Rippled	0	Light Wind
Coastal Shipping Ltd.	Tuvaq W.	2024-08-22 00:00:00		15:00		-	-	63.99499893	-94.22166443	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:30	13:35	00:05	62.5316658	-73.70500183	62.5316658	-73.73166656	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:35	13:40	00:05	62.5316658	-73.73166656	62.52999878	-73.77666473	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:40	13:45	00:05	62.52999878	-73.77666473	62.52999878	-73.78666687	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:45	13:50	00:05	62.52999878	-73.78666687	62.52833176	-73.81999969	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:50	13:55	00:05	62.52833176	-73.81999969	62.52666855	-75.86166382	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:55	14:00	00:05	62.52666855	-73.86166382	62.52666855	-73.88666534	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:30	09:35	00:05	62.09833145	-82.3116684	62.09833145	-82.33166504	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:35	09:40	00:05	62.09833145	-82.33166504	62.11000061	-82.39833069	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:40	09:45	00:05	62.11000061	-82.39833069	62.0933342	-82.41166687	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:45	09:50	00:05	62.0933342	-82.41166687	62.09000015	-82.44833374	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:50	09:55	00:05	62.09000015	-82.44833374	62.08833313	-82.48999786	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	09:55	10:00	00:05	62.08833313	-82.48999786	62.08666611	-82.52166748	Moving		Clear or Partly Cloudy	Bright on Observer's Side		2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:00	13:05	00:05	-	-	62.05500031	-83.98166656	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:05	13:10	00:05	62.05500031	-83.98166656	62.06000137	-84.02166748	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:10	13:15	00:05	62.06000137	-84.02166748	62.0616684	-84.04833221	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:15	13:20	00:05	62.0616684	-84.04833221	62.06499863	-84.08999634	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:20	13:25	00:05	62.06499863	-84.08999634	62.06833267	-84.125	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:25	13:30	00:05	62.06833267	-84.125	62.07166672	-84.16500092	Moving	15	Clear or Partly Cloudy		Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:30	13:35	00:05	62.07166672	-84.16500092	62.07500076	-84.20333099	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:35	13:40	00:05	62.07500076	-84.20333099	62.07833481	-84.24333191	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:40	13:45	00:05	62.07833481	-84.24333191	62.08166504	-84.29333496	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:45	13:50	00:05	62.08166504	-84.29333496	62.08333206	-84.31999969	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:50	13:55	00:05	62.08333206	-84.31999969	62.08666611	-84.36833191	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-16 00:00:00	13:55	14:00	00:05	62.08666611	-84.36833191	62.08833313	-84.38666534	Moving	15	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	11:30	11:35	00:05	62.54000092	-90.38666534	62.53666687	-90.35333252	Moving	1	Fog		Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	11:40	11:45	00:05	62.5316658	-90.3116684	62.52999878	-90.27999878	Moving	1	Fog		Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	11:45	11:50	00:05	62.52999878	-90.27999878	62.52500153	-90.24333191	Moving	1	Fog		Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	11:50	12:00	00:10	62.52500153	-90.24333191	-	-	Moving	1	Fog		Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:00	13:05	00:05	62.47833252	-89.72000122	62.47333145	-89.67333221	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:05	13:10	00:05	62.47333145	-89.67333221	62.47000122	-89.63666534	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:10	13:15	00:05	62.47000122	-89.63666534	62.4683342	-89.61333466	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:15	13:20	00:05	62.4683342	-89.61333466	62.46500015	-89.56666565	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:20	13:25	00:05	62.46500015	-89.56666565	62.46333313	-89.53166962	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:25	13:30	00:05	62.46333313	-89.53166962	62.45999908	-89.49666595	Moving	2	Fog	Bright on Observer's Side	Rippled	0	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:30	13:35	00:05	62.45999908	-89.49333191	62.45666504	-89.4466629	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:35	13:40	00:05	62.45666504	-89.44000244	62.45500183	-89.42500305	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:40	13:45	00:05	62.45500183	-89.42500305	62.45166779	-89.3833313	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:45	13:50	00:05	62.45166779	-89.3833313	62.44833374	-89.34666443	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:50	13:55	00:05	62.44833374	-89.34666443	62.44333267	-89.29499817	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-22 00:00:00	13:55	14:00	00:05	62.44333267	-89.29499817	62.44166565	-89.26333618	Moving	5	Fog	Bright on Observer's Side	Rippled	0	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:00	13:05	00:05	62.64666748	-79.4366684	62.65333176	-79.40499878	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:05	13:10	00:05	62.65333176	-79.40499878	62.65833282	-79.375	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:10	13:15	00:05	62.65833282	-79.375	62.66500092	-79.34333038	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:15	13:20	00:05	62.66666794	-79.33999634	62.67333221	-79.30166626	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:20	13:25	00:05	62.67333221	-79.30166626	62.68000031	-79.27166748	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:25	13:30	00:05	62.68000031	-79.27166748	62.6866684	-78.23833466	Moving	0.3	Fog	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:30	13:35	00:05	62.6866684	-79.23833466	62.6883316	-79.20166779	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:35	13:40	00:05	62.6883316	-79.20166779	62.69166565	-79.16333008	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:40	13:45	00:05	62.69166565	-79.16333008	62.69333267	-79.12999725	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:45	13:50	00:05	62.69333267	-79.12999725	62.69499969	-79.08999634	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:50	13:55	00:05	62.69499969	-79.08999634	62.69666672	-79.0616684	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	13:55	14:00	00:05	62.69666672	-	62.70000076	-79.01833344	Moving		Fog	Bright on Observer's Side		1	Calm
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:00	20:05	00:05	62.60833359	-76.19833374	62.60499954	-76.14833069	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:05	20:10	00:05	62.60499954	-76.14833069	62.59999847	-76.10333252	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:10	20:15	00:05	62.59999847	-76.10333252	62.59833145	-76.07833099	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:15	20:20	00:05	62.59833145	-76.07833099	62.59500122	-76.02666473	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:20	20:25	00:05	62.59500122	-76.02666473	62.5933342	-75.98666382	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-23 00:00:00	20:25	20:30	00:05	62.5933342	-75.98666382	62.59166718	-75.94999695	Moving	0.5			Wavelets	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:00	13:05	00:05	61.49833298	-69.01999664	61.49000168	-68.98332977	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:05	13:10	00:05	61.49000168	-68.98332977	61.48500061	-68.95500183	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:10	13:15	00:05	61.48500061	-68.95500183	61.47999954	-68.92666626	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:15	13:20	00:05	61.47999954	-68.92666626	61.47333145	-68.88999939	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:20	13:25	00:05	61.47333145	-68.88999939	61.46666718	-68.85832977	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:25	13:30	00:05	61.46666718	-68.85832977	61.45999908	-68.82499695	Moving	20		Bright on Observer's Side	Rippled	1	
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:30	13:35	00:05	61.45833206	-68.81833649	61.45333481	-68.79499817							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:35	13:40	00:05	61.45333481	-68.79499817	61.44666672	-68.76000214							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:40	13:45	00:05	61.44666672	-68.76000214	61.4383316	-68.72000122							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:45	13:50	00:05	61.4383316	-68.72000122	-	-							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:50	13:55	00:05	-	-	-	-							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	13:55	14:00	00:05	-	-	61.41833496	-68.61166382							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	20:00	20:05	00:05	60.83666611	-66.16500092	60.83166504	-66.14333344							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	20:05	20:10	00:05	60.83166504	-66.14333344	60.82500076	-66.11499786							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	20:10	20:15	00:05	60.82500076	-66.11499786	60.8133316	-66.07666779							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	20:20	20:25	00:05	60.79999924	-60.02833176	60.79666519	-66.0083313							
Desgagnes Transport	Acadia Desgagnés	2024-08-24 00:00:00	20:25	20:30	00:05	60.79666519	-66.0083313	60.78833389	-66.98000336							
Desgagnes Transport	Acadia Desgagnés	2024-08-14 00:00:00	10:00	10:30	00:30	60.32833481	-63.8116684	60.45333481	-64.125	Moving	0.5	Fog	Slight/ Grey	Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-14 00:00:00	13:00	13:30	00:30	60.55833435	-64.95166779	60.58166504	-65.13666534	Moving	0.5	Fog	Slight/ Grey	Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-14 00:00:00	13:30	14:00	00:30	60.58166504	-65.13666534	60.59666824	-65.33666992	Moving	0.5	Fog	Slight/ Grey	Slight	2	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:00	10:05	00:05	62.28833389	-72.40000153	62.29166794	-72.45666504	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:05	10:10	00:05	62.29166794	-72.45666504	62.30333328	-72.48666382	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:10	10:15	00:05	62.30333328	-72.48666382	62.3116684	-72.51499939	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:15	10:20	00:05	62.3116684	-72.51499939	-	-72.54166412	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:20	10:25	00:05	62.31999969	-72.54166412	62.33000183	-72.57833099	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	10:25	10:30	00:05	62.33000183	-72.57833099	62.53333282	-73.5	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:15	13:20	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:20	13:25	00:05	-	-	62.5316658	-73.66666412	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:25	13:30	00:05	62.5316658	-73.66666412	62.5316658	-73.69833374	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:00	13:05	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:05	13:10	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Desgagnes Transport	Acadia Desgagnés	2024-08-15 00:00:00	13:10	13:15	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	1	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	07:35	07:40	00:05	60.56733322	-61.12166595	60.57500076	-61.13499832	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	07:44	07:49	00:05	60.58499908	-61.15333176	60.59833145	-61.17666626	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	07:54	08:00	00:06	60.60833359	-61.19666672	60.62166595	-61.22166824	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	08:03	08:08	00:05	60.63166809	-61.24000168	60.64333344	-61.26333237	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	08:11	08:16	00:05	60.65166855	-61.27500153	60.66166687	-61.29333496	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	08:16	08:23	00:07	60.66500092	-61.29833221	60.68166733	-61.33166504	Moving	25	Fog	None	Slight	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:00	18:05	00:05	61.25999832	-64.34999847	-	-	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:06	18:10	00:04	-	-	-	-	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:11	18:16	00:05	-	-	-	-	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:17	18:22	00:05	-	-	-	-	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:23	18:28	00:05	-	-	-	-	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-10 00:00:00	18:29	18:34	00:05	-	-	61.29999924	-65.81999969	Moving	0.2	Fog	Bright on Observer's Side	Rippled	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:05	06:10	00:05	62.09166718	-70.90833282	62.09833145	-70.9466629	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:11	06:16	00:05	62.09833145	-70.95166779	62.10499954	-70.98666382	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:17	06:22	00:05	62.10666656	-71.00166321	62.11166763	-71.03333282	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:23	06:28	00:05	62.11333466	-71.03666687	62.11833191	-71.0716629	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:29	06:34	00:05	62.11833191	-71.07666779	62.125	-71.11499786	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	06:35	06:40	00:05	62.12666702	-71.12333679	62.13166809	-71.15833282	Stationary	20	Cloudy			1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	18:00	18:05	00:05	62.55500031	-76.20666504	-	-	Moving		Cloudy	None	Moderate	4.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	18:06	18:11	00:05	-	-	-	-	Moving		Cloudy	None	Moderate	4.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	18:12	18:17	00:05	62.5633316	-76.20666504	62.56666565	-76.23666382	Moving		Cloudy	None	Moderate	4.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	18:18	18:24	00:06	-	-	-	-	Moving		Cloudy	None	Moderate	4.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-11 00:00:00	18:25	18:30	00:05	-	-	62.57666779	-76.33333588	Moving		Cloudy	None	Moderate	4.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:00	06:05	00:05	62.29833221	-81.08666992	62.29000092	-81.1333313	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:07	06:12	00:05	62.28833389	-81.13999939	62.28333282	-81.16999817	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:13	06:18	00:05	62.2816658	-81.1866684	62.27500153	-81.22333527	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:21	06:26	00:05	62.27166748	-81.25	62.26499939	-81.28666687	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:27	06:32	00:05	62.26499939	-81.29166412	62.25833511	-81.33499908	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	06:33	06:38	00:05	62.25833511	-81.33833313	62.25166702	-81.37833405	Moving	25	Clear or Partly Cloudy	None	Moderate	2	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	18:30	18:35	00:05	62.81833267	-85.97833252	-	-	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	18:36	18:41	00:05	-	-	-	-	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	18:42	18:47	00:05	-	-	-	-	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	18:48	18:53	00:05	-	-	-	-	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	18:54	18:59	00:05	-	-	-	-	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-12 00:00:00	19:00	19:05	00:05	62.8983345	-86.15666962	62.91166687	-86.19000244	Moving	1	Clear or Partly Cloudy	None	Wavelets	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:00	05:05	00:05	-	-	63.3133316	-90.53833008	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:08	05:13	00:05	63.31999969	-90.55833435	63.33333206	-90.58333588	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:14	05:19	00:05	63.33499908	-90.58499908	63.34833145	-90.61333466	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:20	05:25	00:05	63.34833145	-90.6166687	63.36000061	-90.63666534	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:27	05:32	00:05	63.36500168	-90.64666748	63.37666702	-90.67166901	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-13 00:00:00	05:33	05:39	00:06	63.38000107	-90.67666626	63.39666748	-90.70666504	Moving	30	Clear or Partly Cloudy	None	Rippled	1	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:00	01:05	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:05	01:10	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:10	01:15	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:15	01:20	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:20	01:25	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-14 00:00:00	01:25	01:30	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:00	02:05	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:05	02:10	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:10	02:15	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:15	02:20	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:20	02:25	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-15 00:00:00	02:25	02:30	00:05	63.93500137	-93.625	63.93500137	-93.625	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:00	03:05	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:05	03:10	00:05	65.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:10	03:15	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:15	03:20	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:20	03:25	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-16 00:00:00	03:25	03:30	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:20	06:25	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:25	06:30	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:30	06:35	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:35	06:40	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:40	06:45	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-17 00:00:00	06:45	06:50	00:05	63.93166733	-93.62000275	63.93166733	-93.62000275	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:00	04:05	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:05	04:10	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:10	04:15	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:15	04:20	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:20	04:25	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-18 00:00:00	04:25	04:30	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:30	04:35	00:05	63.93166733	-93.62333679	63.93166733	-93.62333679	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:35	04:40	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:40	04:45	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:45	04:50	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:50	04:55	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-19 00:00:00	04:55	05:00	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:00	04:05	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:05	04:10	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:10	04:15	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:15	04:20	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:20	04:25	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-20 00:00:00	04:25	04:30	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:00	04:05	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:05	04:10	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:10	04:15	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:15	04:20	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:20	04:25	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-21 00:00:00	04:25	04:30	00:05	63.93166733	-93.625	63.93166733	-93.625	Stationary	18	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0	Calm
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:00	03:05	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:05	03:10	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:10	03:15	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:15	03:20	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:20	03:25	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-22 00:00:00	03:25	03:30	00:05	63.93166733	-93.62166595	63.93166733	-93.62166595	Stationary	18	Clear or Partly Cloudy	Slight/ Grey	Rippled	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:00	04:05	00:05	63.93333435	-93.62166595	63.93333435	-93.62166595	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:05	04:10	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:10	04:15	00:05	63.93333435	-93.62000275	63.93333435	-	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:15	04:20	00:05	63.93333435	-93.62000275	63.93333435	-	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:20	04:25	00:05	63.93333435	-93.62000275	63.93333435	-	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-23 00:00:00	04:25	04:30	00:05	63.93333435	-93.62000275	63.93333435	-93.62000275	Stationary	18	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:00	05:05	00:05	62.16500092	-86.96166992	62.16333389	-86.91833496	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:05	05:10	00:05	62.16333389	-86.91500092	62.16166687	-86.87833405	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:10	05:15	00:05	62.16166687	-86.875	62.15833282	-86.83166504	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:15	05:20	00:05	62.15833282	-86.82666779	62.1566658	-86.79333496	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:20	05:25	00:05	62.1566658	-86.79000092	62.15333176	-86.74333191	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	05:26	05:31	00:05	62.15333176	-86.73833466	62.15166855	-86.69999695	Moving	15	Clear or Partly Cloudy	Slight/ Grey	Slight	1.5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:00	18:05	00:05	62.28833389	-81.20333099	-	-	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:06	18:11	00:05	-	-	-	-	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:12	18:17	00:05	-	-	-	-	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:18	18:21	00:03	-	-	-	-	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:22	18:27	00:05	62.3116684	-81.04666901	62.31666565	-80.99333191	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-24 00:00:00	18:28	18:30	00:02	-	-	62.31999969	-80.99333191	Moving				Very Rough	5	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:00	06:05	00:05	62.56666565	-75.39333344	62.56499863	-75.34999847	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:05	06:10	00:05	62.56499863	-75.34333038	62.5633316	-75.30833435	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:10	06:15	00:05	62.5633316	-75.30500031	62.5616684	-75.25499725	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:15	06:20	00:05	62.5616684	-75.24833679	62.56000137	-75.20999908	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:20	06:25	00:05	62.56000137	-75.20500183	62.55833435	-75.16000366	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	06:25	06:30	00:05	62.55833435	-75.15499878	62.55833435	-75.12166595	Moving	25	Cloudy	None	Moderate	1	Strong Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:01	18:06	00:05	61.54833221	-69.23332977	61.53666687	-69.19166565	Moving	20	Cloudy	None	Rough	3	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:07	18:12	00:05	-	-	-	-	Moving	20	Cloudy	None	Rough	3	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:13	18:18	00:05	-	-	-	-	Moving	20	Cloudy	None	Rough	3	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:19	18:21	00:02	-	-	-	-	Moving	20	Cloudy	None	Rough	3	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:22	18:27	00:05	61.50666809	-69.07499695	61.49666595	-69.03333282	Moving	20	Cloudy	None	Rough	3	Light Wind
Transport Desgagnes	Berthe A. Desgagnés	2024-07-25 00:00:00	18:27	18:32	00:05	61.49666595	-69.03333282	61.48500061	-68.98833466	Moving	20	Cloudy	None	Rough	3	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	09:30	09:35	00:05	60.59999847	-65.1333313	60.61666489	-65.16666412	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	10:15	10:20	00:05	60.66666794	-65.3833313	60.66666794	-65.40000153	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	11:00	11:05	00:05	60.73333359	-65.66666412	60.75	-65.68333435	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	08:30	08:35	00:05	60.53333282	-64.73332977	60.59999847	-64.75	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	14:20	14:30	00:10	61.01666641	-66.8833313	61.03333282	-66.96666718	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	14:35	14:40	00:05	61.03333282	-66.98332977	61.03333282	-67.03333282	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	14:50	14:55	00:05	61.04999924	-67.08333588	61.06666565	-67.1166687	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	15:05	15:10	00:05	61.08333206	-67.18333435	61.09999847	-67.23332977	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	15:15	15:20	00:05	61.09999847	-67.25	61.09999847	-67.28333282	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-09-30 00:00:00	15:25	15:30	00:05	61.11666489	-67.31666565	61.11666489	-67.3666687	Moving	20	Clear or Partly Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	10:45	10:50	00:05	62.54999924	-75.01667023	62.54999924	-75.05000305	Moving	20	Clear or Partly Cloudy	None	Slight	1.5	
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	11:15	11:20	00:05	62.54999924	-75.25	62.54999924	-75.30000305	Moving	20	Clear or Partly Cloudy	None	Slight	1.5	
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	11:40	11:45	00:05	62.56666565	-75.44999695	62.56666565	-75.5	Moving	20	Clear or Partly Cloudy	None	Slight	1.5	
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	14:10	14:15	00:05	62.59999847	-76.59999847	62.59999847	-76.65000153	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	14:30	14:35	00:05	62.59999847	-76.76667023	62.59999847	-76.80000305	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	14:45	14:50	00:05	62.59999847	-76.8666687	62.59999847	-76.90000153	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	15:05	15:10	00:05	62.59999847	-77.01667023	62.59999847	-77.05000305	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	15:15	15:20	00:05	62.59999847	-77.08333588	62.59999847	-77.1333313	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-01 00:00:00	15:30	15:30	00:00	62.59999847	-77.19999695	62.59999847	-77.23332977	Moving	20	Clear or Partly Cloudy	None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	10:15	10:20	00:05	62.65999985	-77.62666321	-	-	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	10:30	10:35	00:05	62.67333221	-77.73332977	62.66666794	-77.76667023	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	10:40	10:45	00:05	62.68333435	-77.80000305	62.68333435	-77.83333588	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	11:05	11:10	00:05	62.70000076	-78.01667023	62.71666718	-78.03333282	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	11:30	11:35	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	11:45	11:50	00:05	62.75	-78.31666565	62.75	-78.34999847	Moving	20	Clear or Partly Cloudy	None	Slight	0.8	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	14:10	14:15	00:05	62.86666489	-79.33333588	62.88333511	-79.3833313	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	14:25	14:30	00:05	62.88333511	-79.44999695	62.88333511	-79.5	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	15:05	15:10	00:05	62.91666794	-79.73332977	62.91666794	-79.76667023	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	15:25	15:30	00:05	62.93333435	-79.84999847	62.93333435	-79.91666412	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	15:45	15:50	00:05	62.95000076	-80	62.95000076	-80.05000305	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-02 00:00:00	16:10	16:15	00:05	62.96666718	-80.19999695	62.96666718	-80.23332977	Moving	20	Clear or Partly Cloudy	None	Very Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	08:35	08:40	00:05	63	-85.30833435	63	-85.31666565	Moving	10	Cloudy		Rough	3	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	14:55	15:00	00:05	62.75	-88.1333313	62.75	-88.18333435	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	15:05	15:10	00:05	62.75	-88.23332977	62.73333359	-88.26667023	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	15:15	15:20	00:05	62.73333359	-88.31666565	62.73333359	-88.34999847	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	15:25	15:30	00:05	62.73333359	-88.40000153	62.71666718	-88.43333435	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	15:36	15:41	00:05	62.71666718	-88.48332977	62.71666718	-88.51667023	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-03 00:00:00	15:50	15:55	00:05	62.70000076	-88.58333588	62.70000076	-88.6166687	Moving	10	Clear or Partly Cloudy	None	Rough	2	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	13:20	13:25	00:05	63.86666489	-92.90000153	63.88333511	-92.93333435	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	13:35	13:40	00:05	63.90000153	-92.98332977	63.90000153	-93.03333282	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	13:46	13:51	00:05	63.90000153	-93.08333588	63.96666718	-93.1166687	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	14:08	14:13	00:05	63.95000076	-93.23332977	63.95000076	-93.28333282	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	14:33	14:38	00:05	63.96666718	-93.44999695	63.96666718	-93.5	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-09 00:00:00	15:00	15:05	00:05	-	-	-	-	Moving	20	Cloudy		Wavelets	1	Strong Wind
Desgagnes	Zeleda Desgagnés	2024-10-10 00:00:00	12:25	12:30	00:05	63.93333435	-93.6333313	63.93333435	-93.6333313	Stationary	10			Wavelets	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	08:35	08:40	00:05	63.04999924	-84.26667023	63.04999924	-84.23332977	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	08:50	08:55	00:05	63.06666565	-84.15000153	63.06666565	-84.1166687	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	09:10	09:15	00:05	63.09999847	-84	63.09999847	-83.93333435	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	09:30	09:35	00:05	63.11666489	-83.81666565	63.11666489	-83.76667023	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	10:05	10:10	00:05	63.15000153	-83.5	63.16666794	-83.44999695	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-18 00:00:00	10:40	10:45	00:05	63.16666794	-83.19999695	63.16666794	-83.16666412	Moving	10		None	Rough	2	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	10:20	10:25	00:05	62.11666489	-71.51667023	62.09999847	-71.5	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	11:00	11:05	00:05	62.03333282	-71.21666718	62.03333282	-71.18333435	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	11:15	11:20	00:05	62.01666641	-71.1166687	62	-71.08333588	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	11:25	11:30	00:05	61.98333359	-71.03333282	61.98333359	-71	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	11:40	11:45	00:05	61.96666718	-70.93333435	61.96666718	-70.90000153	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	11:55	12:00	00:05	61.93333435	-70.80000305	61.93333435	-70.76667023	Moving	30	Clear or Partly Cloudy	None	Rough	1.5	Gale Force Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	13:16	13:21	00:05	61.79999924	-70.18333435	61.78333282	-70.15000153	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	13:30	13:35	00:05	61.76666641	-70.06666565	61.75	-70.01667023	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	14:05	14:12	00:07	61.70000076	-69.76667023	61.70000076	-69.71666718	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	14:32	14:38	00:06	61.65000153	-69.55000305	61.63333511	-69.5	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	15:04	15:09	00:05	61.58333206	-69.26667023	61.58333206	-69.25	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Zeleda Desgagnés	2024-10-19 00:00:00	15:42	15:47	00:05	61.51666641	-68.96666718	61.5	-68.93333435	Moving	20	Cloudy	None	Slight	1	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:00	08:05	00:05	60.84833145	-61.375	60.86333466	-61.43333435	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:05	08:10	00:05	60.86333466	-61.43500137	60.86999893	-61.45500183	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:10	08:15	00:05	60.86999893	-61.45500183	60.87333298	-61.47833252	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:15	08:20	00:05	60.87333298	-61.47833252	60.88166809	-61.50666809	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:20	08:25	00:05	60.88166809	-61.50666809	60.89166641	-61.55500031	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-26 00:00:00	08:25	08:30	00:05	60.89166641	-61.55500031	60.90166855	-61.58833313	Moving	3		None	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:00	08:05	00:05	62.23666763	-71.00033569	62.24333191	-71.02833557	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:06	08:11	00:05	62.24333191	-71.02833557	62.25	-71.0616684	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:12	08:17	00:05	62.25	-71.0616684	62.25666809	-71.09500122	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:18	08:23	00:05	62.25666809	-71.09500122	62.26166534	-71.12166595	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:24	08:29	00:05	61.26166534	-71.12166595	62.26666641	-71.14833069	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-27 00:00:00	08:30	08:35	00:05	61.26666641	-71.14833069	62.27500153	-71.18000031	Moving	50	Cloudy	Slight/ Grey	Wavelets	0.5	
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:00	08:05	00:05	61.41333389	-79.58166504	61.40999985	-79.60832977	Moving	5	Fog	None	Wavelets	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:06	08:11	00:05	61.40999985	-79.60832977	61.40833282	-79.63666534	Moving	5	Fog	None	Wavelets	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:12	08:17	00:05	61.40833282	-79.63666534	61.40333176	-79.68000031	Moving	5	Fog	None	Wavelets	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:18	08:23	00:05	61.40333176	-79.68000031	61.40000153	-79.71499634	Moving	5	Fog	None	Wavelets	0.5	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:24	08:29	00:05	61.40000153	-79.71499634	61.46333313	-79.76333618	Moving	5	Fog	None	Wavelets	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-28 00:00:00	08:30	08:35	00:05	61.39666748	-79.76333618	61.39166641	-79.79166412	Moving	5	Fog	None	Wavelets	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:10	15:15	00:05	63.23666763	-87.41166687	63.23333359	-87.40000153	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:16	15:21	00:05	63.23333359	-87.40000153	63.23166656	-87.43333435	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:22	15:27	00:05	63.23166656	-87.43333435	63.23166656	-87.38500214	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:28	15:33	00:05	63.23166656	-87.38500214	67.23000336	-87.37999725	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:34	15:39	00:05	63.22999954	-87.37999725	63.22833252	-87.37166595	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-29 00:00:00	15:40	15:45	00:05	63.22833252	-87.37166595	63.2266655	-87.36333466	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Slight	0.5	Light Wind
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:05	15:10	00:05	63.19833374	-87.3666687	63.19833374	-87.36499786	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:11	15:16	00:05	63.19833374	-87.36499786	63.19833374	-87.36000061	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:17	15:22	00:05	63.19833374	-87.36000061	63.19833374	-87.36000061	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:23	15:27	00:04	63.19833374	-87.36000061	63.20000076	-87.35333252	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:28	15:33	00:05	67.19999695	-87.35333252	63.20000076	-87.35166931	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-06-30 00:00:00	15:34	15:39	00:05	63.20000076	-87.35166931	63.20000076	-87.34666443	Stationary	25	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:10	15:15	00:05	63.86500168	-87.51833344	63.87666702	-87.52500153	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:16	15:21	00:05	63.88166809	-87.53166962	63.89166641	-87.53833008	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:22	15:27	00:05	63.89333344	-87.54166412	63.90333176	-87.5616684	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:28	15:33	00:05	63.9066658	-87.56833649	63.91500092	-87.59666443	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:34	15:39	00:05	63.91500092	-87.61333466	63.91500092	-87.64666748	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-01 00:00:00	15:40	15:45	00:05	63.91500092	-87.65499878	63.91500092	-87.6883316	Moving	10	Cloudy	Slight/ Grey	Rippled	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:00	15:05	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:06	15:11	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:12	15:17	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:18	15:23	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:24	15:29	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-02 00:00:00	15:30	15:35	00:05	62.6483345	-90.87000275	62.6483345	-90.87000275	Stationary	15	Clear or Partly Cloudy	Slight/ Grey	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:05	15:10	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:11	15:16	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:17	15:22	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:23	15:28	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:29	15:34	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-03 00:00:00	15:35	15:40	00:05	62.58499908	-90.82499695	62.58499908	-90.82499695	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:05	08:10	00:05	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:11	08:16	00:05	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:17	08:22	00:05	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:23	08:25	00:02	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:26	08:31	00:05	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-04 00:00:00	08:32	08:37	00:05	62.47333145	-90.91333008	62.47333145	-90.91333008	Stationary	30	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:05	08:10	00:05	62.67166519	-90.85166931	62.67166519	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:11	08:16	00:05	62.67166519	-90.85166931	62.67166519	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:17	08:22	00:05	62.67166519	-90.85166931	62.67166519	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:23	08:28	00:05	62.67333221	-90.85166931	62.67333221	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:29	08:34	00:05	62.67333221	-90.85166931	62.67333221	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-05 00:00:00	08:35	08:40	00:05	62.67333221	-90.85166931	62.67333221	-90.85166931	Stationary	20	Cloudy	Slight/ Grey	Glassy	0	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	15:00	15:05	00:05	62.74333191	-90.31999969	62.74333191	-90.31999969	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	15:06	15:11	00:05	62.74333191	-90.31999969	62.74333191	-90.31999969	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	15:12	15:17	00:05	62.74333191	-90.31999969	62.74333191	-90.31999969	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	15:18	15:23	00:05	62.74166489	-90.31833649	62.74166489	-90.31833649	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	15:24	15:29	00:05	62.74166489	-90.31833649	62.74166489	-90.31833649	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-06 00:00:00	16:30	15:35	23:05	62.74166489	-90.31666565	62.73833466	-90.31500244	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Rippled	0.2	Light Wind
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:05	13:10	00:05	62.65333176	-90.15010834	62.65333176	-90.65333557	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:11	13:16	00:05	62.65333176	-90.65333557	62.65333176	-90.64666748	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:17	13:22	00:05	62.65333176	-90.64666748	62.65333176	-90.64666748	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:23	13:28	00:05	62.65333176	-90.64666748	62.65333176	-90.64666748	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:29	13:34	00:05	62.65333176	-90.64666748	62.65333176	-90.64666748	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-07 00:00:00	13:35	13:40	00:05	62.65333176	-90.64666748	62.65333176	-90.64666748	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Moderate	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	18:00	18:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	18:20	18:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	18:40	18:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	19:00	19:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	19:20	19:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-08 00:00:00	19:40	19:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	None	Rippled	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	18:00	18:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	18:20	18:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	18:40	18:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	19:00	19:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	19:20	19:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-09 00:00:00	19:40	19:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	18:00	18:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	18:20	18:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	18:40	18:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	19:00	19:05	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	19:20	19:25	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-10 00:00:00	19:40	19:45	00:05	-	-	-	-	Stationary	15	Clear or Partly Cloudy	Bright on Observer's Side	Glassy	0	Calm
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	18:00	18:05	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	18:20	18:25	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	18:40	18:45	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	19:00	19:05	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	19:20	19:25	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-11 00:00:00	19:40	19:45	00:05	-	-	-	-	Stationary		Clear or Partly Cloudy	None			Light Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:25	16:30	00:05	61.94499969	-83.02333069	61.94499969	-83.00666809	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:31	16:36	00:05	61.94499969	-82.99500275	61.94499969	-82.98500061	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:37	16:42	00:05	61.94166565	-82.97166443	61.93999863	-82.97833252	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:43	16:48	00:05	61.93999863	-82.97833252	61.93999863	-82.90166473	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:49	16:54	00:05	61.93999863	-82.90000153	61.93999863	-82.85333252	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-18 00:00:00	16:55	17:00	00:05	61.90999985	-82.85333252	61.90499878	-82.81999969	Moving	20	Cloudy	Slight/ Grey	Slight	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:00	16:05	00:05	62.51499939	-73.23833466	62.51499939	-73.1883316	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:06	16:11	00:05	62.51499939	-73.1883316	62.51666641	-73.13833618	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:12	16:17	00:05	62.51666641	-73.13833618	62.51499939	-73.09166718	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:18	16:23	00:05	62.51499939	-73.09166718	62.51499939	-73.02833557	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:24	16:29	00:05	62.51499939	-73.02833557	62.50833511	-72.97333527	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-19 00:00:00	16:30	16:35	00:05	62.50833511	-72.97333527	62.50833511	-72.93333435	Moving	0.5	Cloudy	None	Very Rough	2.5	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:15	08:20	00:05	61.22999954	-66.46666718	61.22000122	-66.41999817	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:21	08:26	00:05	61.22000122	-66.41666412	61.21333313	-66.42500305	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:27	08:32	00:05	61.21333313	-66.42166901	61.20166779	-66.33666992	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:33	08:38	00:05	61.20166779	-66.33666992	61.19499969	-66.3033371	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:39	08:44	00:05	61.19499969	-66.3033371	61.1866684	-66.26667023	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Desgagnes	Nordika Desgagnés	2024-07-20 00:00:00	08:45	08:50	00:05	61.1866684	-66.26667023	61.17666626	-66.22000122	Moving	20	Clear or Partly Cloudy	Slight/ Grey	Wavelets	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-29 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-30 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-10-31 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Wavelets	0.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-01 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.2	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-02 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-03 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Cloudy	Slight/ Grey	Wavelets	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-04 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-05 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.1	Calm
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-06 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-07 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	6	Clear or Partly Cloudy	None	Slight	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-08 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.4	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-09 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-10 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	3	Cloudy	None	Slight	1.5	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-11 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-12 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-13 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	5			Slight	1	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-14 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-15 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy		Moderate	1	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-16 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	8			Slight	0.6	Strong Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-17 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-18 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd.	Kivalliq W.	2024-11-19 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10		Slight/ Grey	Wavelets	0.5	
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:00	08:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:05	08:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:10	08:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:15	08:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:20	08:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-30 00:00:00	08:25	08:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:00	06:05	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:05	06:10	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:10	06:15	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:15	06:20	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:25	06:30	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-29 00:00:00	06:30	06:35	00:05	-	-	-	-	Stationary	4		None	Moderate	2	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:30	07:35	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:35	07:40	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:40	07:45	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:45	07:50	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:50	07:55	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-28 00:00:00	07:55	08:00	00:05	-	-	-	-	Stationary	10	Cloudy	None	Glassy	0	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:00	10:05	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:05	10:10	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:10	10:15	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:15	10:20	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:20	10:25	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-27 00:00:00	10:25	10:30	00:05	-	-	-	-	Stationary	9	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	11:50	11:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-26 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Slight	1	Gale Force Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	11:50	11:55	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd	Kivalliq W.	2024-08-25 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	2	Fog	None	Rough	0.8	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	12:20	12:30	00:10	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-24 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.5	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-23 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-22 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-21 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-20 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	3	Cloudy		Moderate	1	Strong Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-19 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-18 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-17 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Rippled	0.2	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:05	12:15	00:10	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-16 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-15 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-14 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:05	12:15	00:10	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-13 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-12 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Wavelets	0.3	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-11 00:00:00	12:45	12:50	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:25	12:30	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:35	12:40	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-09 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	8	Clear or Partly Cloudy	Slight/ Grey	Rippled	0.1	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:00	12:05	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:10	12:15	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:20	12:25	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-10 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy	None	Rippled	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:05	12:10	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:15	12:20	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:30	12:35	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:40	12:45	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:50	12:55	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-08 00:00:00	12:55	13:00	00:05	-	-	-	-	Stationary	10	Clear or Partly Cloudy		Wavelets	0.1	Calm
Coastal Shipping Ltd	Kivalliq W.	2024-08-07 00:00:00	08:00	08:05	00:05	-	-	-	-	Stationary	7	Clear or Partly Cloudy		Glassy	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-06 00:00:00	12:44	12:49	00:05	-	-	-	-	Stationary	7	Clear or Partly Cloudy	None	Glassy	0.2	Light Wind
Coastal Shipping Ltd	Kivalliq W.	2024-08-05 00:00:00	11:02	11:07	00:05	-	-	-	-	Stationary	7	Clear or Partly Cloudy	None	Glassy	0	Calm

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping Ltd	Kivalliq W.	2024-08-04 00:00:00	14:20	14:25	00:05	-	-	-	-	Stationary	5	Clear or Partly Cloudy	Slight/ Grey	Glassy	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:30	11:35	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:35	11:40	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:40	11:45	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:45	11:50	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:50	11:55	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-22 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	10	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	14:45	14:50	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	14:55	15:00	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	15:05	15:10	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	15:15	15:20	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	15:20	15:25	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	15:30	15:35	00:05	-	-	-	-	Stationary	5	Cloudy	None	Moderate	1.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	09:03	09:08	00:05	-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	09:21	09:26	00:05	-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	09:32	09:37	00:05	-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	09:46	09:51	00:05	-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	10:08			-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-20 00:00:00	10:29	10:34	00:05	-	-	-	-	Stationary	15	Cloudy	None	Rough	2	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:00	15:05	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:10	15:15	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:20	15:25	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:30	15:35	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:40	15:45	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	15:50	15:55	00:05	-	-	-	-	Stationary	15	Cloudy		Very Rough	25	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	09:33	09:38	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	09:42	09:47	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	09:50	09:55	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	10:00	10:05	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	10:08	10:13	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-19 00:00:00	10:16	10:21	00:05	-	-	-	-	Stationary	15	Cloudy	None	Very Rough	2.5	Gale Force Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:07	11:12	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:14	11:19	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:23	11:28	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:31	11:36	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:40	11:45	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-18 00:00:00	11:47	11:52	00:05	-	-	-	-	Stationary	8	Cloudy	Slight/ Grey	Slight	0.5	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	08:40	08:45	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	08:45	08:50	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	08:50	08:55	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	08:55	09:00	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	09:00	09:05	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-16 00:00:00	09:05	09:10	00:05	-	-	-	-	Moving	20	Clear or Partly Cloudy	None	Wavelets	0.3	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:00	15:05	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:05	15:10	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:10	15:15	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:15	15:20	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:20	15:25	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-15 00:00:00	15:25	15:30	00:05	-	-	-	-	Moving	10	Cloudy	None	Slight	1.25	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:00	14:05	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:05	14:10	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:10	14:15	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:15	14:20	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind

APPENDIX E: SEABIRD SURVEY DATA, 2024

Company/ Agency	Vessel Name	Survey Date	Time Start	Time End	Effort	Start Latitude	Start Longitude	End Latitude	End Longitude	Vessel Activity	Visibility (km)	Weather	Glare Condition	Sea State	Wave Height (m)	Beaufort Scale
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:20	14:25	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-14 00:00:00	14:25	14:30	00:05	-	-	-	-	Moving	10	Clear or Partly Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:30	08:35	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:35	08:40	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:40	08:45	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:45	08:50	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:50	08:55	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-28 00:00:00	08:55	09:00	00:05	-	-	-	-	Stationary	20	Cloudy	None	Slight	1	Strong Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:30	11:35	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:35	11:40	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:40	11:45	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:45	11:50	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:50	11:55	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-27 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Bright on Observer's Side	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:00	11:05	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:05	11:10	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:10	11:15	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:15	11:20	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:20	11:25	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-26 00:00:00	11:25	11:30	00:05	-	-	-	-	Stationary	20	Cloudy		Slight	0.8	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:30	10:35	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:35	10:40	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:40	10:45	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:45	10:50	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:50	10:55	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-25 00:00:00	10:55	11:00	00:05	-	-	-	-	Stationary	15	Cloudy	None	Wavelets	0.2	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:00	10:05	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:05	10:10	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:10	10:15	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:15	10:20	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:20	10:25	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-24 00:00:00	10:25	10:30	00:05	-	-	-	-	Stationary	20	Cloudy	None	Wavelets	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:30	11:35	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:35	11:40	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:40	11:45	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:45	11:50	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:50	11:55	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind
Coastal Shipping	Kivalliq W.	2024-10-23 00:00:00	11:55	12:00	00:05	-	-	-	-	Stationary	20	Clear or Partly Cloudy	Slight/ Grey	Slight	0.5	Light Wind

APPENDIX F SEABIRD OBSERVATION DATA, 2024

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Desgagnes	Marcellin A. Desgagnés	7/6/2024	Razorbill	2					
Desgagnes	Marcellin A. Desgagnés	7/8/2024	Razorbill	5	Fly	Yes	C	Escape Flight	62
Desgagnes	Marcellin A. Desgagnés	7/8/2024	Razorbill	13	Fly	Yes	B	Other	180
Desgagnes	Marcellin A. Desgagnés	7/8/2024	Razorbill	12	Fly	Yes	C	Other	350
Desgagnes	Marcellin A. Desgagnés	7/8/2024	Razorbill	15	Fly	Yes	D	Other	290
Desgagnes	Marcellin A. Desgagnés	7/8/2024	Razorbill	9	Fly	Yes	D	Other	340
Desgagnes	Marcellin A. Desgagnés	7/9/2024	Northern Fulmar	1	Fly	Yes	C	Other	90
Desgagnes	Marcellin A. Desgagnés	7/12/2024	Northern Fulmar	1	Fly	Yes	B	Other	45
Desgagnes	Marcellin A. Desgagnés	8/17/2024	Cackling/Canada Goose	17	Fly	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	30	Fly	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/23/2024	Razorbill	8	Fly	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	20	Fly	Yes	C	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	30	Fly	Yes	D	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	8	Fly	Yes	A	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	7	Fly	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Razorbill	1	Fly	Yes	A	Escape Flight	
Desgagnes	Marcellin A. Desgagnés	8/24/2024	Long-tailed Duck	12	Fly	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	1	Water	Yes	A	Rafting	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	2	Fly	Yes	A	Other	115
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	2	Fly	Yes	C	Other	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	20	Water	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	30	Water	Yes	E	Rafting	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	6	Fly	Yes	C	Other	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Razorbill	10	Both	Yes	B	Other	
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Common Eider	1	Fly	Yes	B	Other	270
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Greater Scaup	1	Fly	Yes	A	Other	275
Desgagnes	Marcellin A. Desgagnés	8/25/2024	Northern Fulmar	1	Fly	Yes	B	Other	5
Desgagnes	Marcellin A. Desgagnés	8/12/2024	Northern Fulmar	1	Fly	Yes	C	Other	320
Desgagnes	Marcellin A. Desgagnés	8/13/2024	Razorbill	3	Fly	Yes	D	Other	90
Desgagnes	Marcellin A. Desgagnés	8/13/2024	Surf Scoter	2	Fly	Yes	A	Other	90
Desgagnes	Marcellin A. Desgagnés	8/13/2024	Black Guillemot	1	Fly	Yes	B	Other	90
Desgagnes	Marcellin A. Desgagnés	8/13/2024	Surf Scoter	1	Fly	Yes	A	Other	90
Desgagnes	Marcellin A. Desgagnés	8/14/2024	Razorbill	1	Fly	Yes	B	Other	5
Desgagnes	Marcellin A. Desgagnés	8/15/2024	Surf Scoter	1	Water	Yes	D	Rafting	
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	10	Fly	Yes	B	Other	30
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	2	Fly	No	C	Other	80
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	1	Water	No	C	Other	
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	11	Water	No	E	Other	
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	8	Fly	No	D	Other	279

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Desgagnes	Miena Desgagnés	7/16/2024	Common Murre	3	Fly	No	B	Other	280
Desgagnes	Miena Desgagnés	7/16/2024	Common Murre	1	Fly	No	A	Other	150
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	32	Fly	No	B	Other	263
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	25	Fly	Yes	B	Other	220
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	20	Fly	Yes	B	Other	10
Desgagnes	Miena Desgagnés	7/17/2024	Common Murre	7	Water	No	D	Other	
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	10	Fly	No	B	Other	260
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	20	Fly	Yes	B	Other	6
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	8	Fly	Yes	B	Other	200
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	1	Fly	Yes	B	Other	190
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	10	Fly	Yes	B	Other	10
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	3	Fly	No	C	Other	260
Desgagnes	Miena Desgagnés	7/16/2024	Razorbill	1	Fly	No	C	Other	290
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	3	Fly	No	C	Other	60
Desgagnes	Miena Desgagnés	7/19/2024	Razorbill	1	Fly	Yes	B	Other	290
Desgagnes	Miena Desgagnés	7/19/2024	Common Murre	2	Fly	Yes	D	Other	0
Desgagnes	Miena Desgagnés	7/19/2024	Common Murre	1	Fly	No	E	Other	270
Desgagnes	Miena Desgagnés	7/21/2024	Greater Scaup	1	Water	Yes	E	Other	
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	80	Fly	Yes	C	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	9	Fly	Yes	B	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	5	Fly	Yes	A	Other	180
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	10	Fly	Yes	A	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	10	Fly	Yes	B	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	40	Fly	Yes	D	Other	180
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	60	Fly	Yes	B	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	4	Fly	Yes	E	Other	180
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	3	Fly	Yes	A	Other	0
Desgagnes	Miena Desgagnés	7/31/2024	Razorbill	3	Fly	Yes	C	Other	270
Desgagnes	Miena Desgagnés	7/31/2024	Unknown Gull	1	Fly	Yes	E	Other	180
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	7	Fly	No	C	Other	50
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	1	Fly	No	C	Other	250
Desgagnes	Miena Desgagnés	7/17/2024	Razorbill	3	Fly	Yes	B	Other	330
Desgagnes	Miena Desgagnés	7/17/2024	Common Murre	1	Fly	Yes	C	Other	330
Transport Desgagnes	Nordika Desgagnés	10/24/2024	Unknown Gull	7	Fly	Yes	A	Other	315
Transport Desgagnes	Nordika Desgagnés	10/25/2024	Unknown Gull	1	Fly	Yes	A	Escape Flight	294
Transport Desgagnes	Nordika Desgagnés	10/25/2024	Unknown Gull	1	Fly	Yes	B	Other	240
Transport Desgagnes	Nordika Desgagnés	10/26/2024	Unknown Gull	1	Fly	Yes	E	Other	270
Transport Desgagnes	Nordika Desgagnés	10/26/2024	Dovekie	1	Fly	Yes	D	Other	274
Transport Desgagnes	Nordika Desgagnés	11/14/2024	Dovekie	12	Fly	Yes	B	Other	180

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Transartik	Miena Desgagnés	8/20/2024	Razorbill	2	Fly	Yes	B	Other	10
Transartik	Miena Desgagnés	8/20/2024	Razorbill	1	Fly	Yes	C	Other	260
Transartik	Miena Desgagnés	8/21/2024	Razorbill	1	Fly	Yes	E	Other	280
Transartik	Miena Desgagnés	8/21/2024	Razorbill	3	Fly	Yes	B	Other	220
Transartik	Miena Desgagnés	8/21/2024	Razorbill	20	Fly	Yes	E	Other	90
Transartik	Miena Desgagnés	8/21/2024	Razorbill	1	Fly	Yes	A	Other	200
Transartik	Miena Desgagnés	8/21/2024	Razorbill	5	Fly	Yes	C	Other	310
Desgagnes Transport	Acadia Desgagnés	8/23/2024	Northern Fulmar	1	Fly	Yes	B	Other	0
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Northern Fulmar	1	Fly	Yes	A	Other	23
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Thayer's Gull	1	Fly	Yes	A	Other	45
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Northern Fulmar	1	Fly	Yes	C	Other	300
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Northern Fulmar	2	Fly	Yes	C	Other	114
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Northern Fulmar	2	Fly	Yes	B	Other	125
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Common Murre	2	Water	Yes	B	Rafting	0
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Common Murre	2	Fly	Yes	B	Other	45
Desgagnes Transport	Acadia Desgagnés	8/24/2024	Common Murre	2	Fly	Yes	C	Other	300
Transport Desgagnes	Berthe A. Desgagnés	7/10/2024	Northern Fulmar	2	Fly	Yes	A	Other	319
Transport Desgagnes	Berthe A. Desgagnés	7/10/2024	Northern Fulmar	15	Fly	Yes	B	Other	219
Transport Desgagnes	Berthe A. Desgagnés	7/10/2024	Northern Fulmar	2	Fly	Yes	A	Other	180
Desgagnes	Zeleda Desgagnés	9/30/2024	Northern Fulmar	1	Fly	Yes	A	Other	296
Desgagnes	Zeleda Desgagnés	9/30/2024	Northern Fulmar	1	Fly	Yes	A	Other	210
Desgagnes	Zeleda Desgagnés	9/30/2024	Northern Fulmar	6	Fly	Yes	B	Other	298
Desgagnes	Zeleda Desgagnés	10/1/2024	Northern Fulmar	1	Fly	Yes	A	Other	290
Desgagnes	Zeleda Desgagnés	10/2/2024	Unknown Gull	4	Fly	Yes	B	Rafting	285
Desgagnes	Zeleda Desgagnés	10/2/2024	Unknown Bird	1	Fly	No	A	Other	285
Desgagnes	Zeleda Desgagnés	10/2/2024	Unknown Gull	1	Fly	No	C	Other	285
Desgagnes	Zeleda Desgagnés	10/2/2024	Unknown Gull	4	Fly	Yes	B	Other	285
Desgagnes	Zeleda Desgagnés	10/2/2024	Herring Gull	1	Fly	Yes	B	Other	285
Desgagnes	Zeleda Desgagnés	10/2/2024	Northern Fulmar	1	Fly	Yes	A	Other	
Desgagnes	Zeleda Desgagnés	10/2/2024	Northern Fulmar	1	Both	Yes	A	Other	
Desgagnes	Zeleda Desgagnés	10/2/2024	Northern Fulmar	1	Fly	Yes	B	Other	280
Desgagnes Transport	Acadia Desgagnés	8/14/2024	Northern Fulmar	2	Fly	Yes	A	Other	42
Desgagnes Transport	Acadia Desgagnés	8/14/2024	Northern Fulmar	3	Fly	Yes	A	Other	222
Desgagnes Transport	Acadia Desgagnés	8/15/2024	Northern Fulmar	2	Fly	Yes	B	Other	
Desgagnes Transport	Acadia Desgagnés	8/15/2024	Northern Fulmar	1	Fly				300
Desgagnes Transport	Acadia Desgagnés	8/15/2024	Northern Fulmar	1	Fly	No	E	Other	183
Desgagnes Transport	Acadia Desgagnés	8/22/2024	Northern Fulmar	1	Water	Yes	B	Rafting	0
Desgagnes Transport	Acadia Desgagnés	8/22/2024	Unknown Duck	1	Fly	No	E	Other	270
Desgagnes Transport	Acadia Desgagnés	8/22/2024	Common Murre	6	Water	Yes	D	Rafting	0

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Transport Desgagnes	Berthe A. Desgagnés	7/10/2024	Northern Fulmar	2	Fly	Yes	A	Other	219
Transport Desgagnes	Berthe A. Desgagnés	7/10/2024	Northern Fulmar	2	Fly	Yes	B	Other	39
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Razorbill	3	Fly	Yes	A	Other	100
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Razorbill	2	Fly	Yes	A	Other	197
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Northern Fulmar	1	Fly	Yes	A	Other	288
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Razorbill	5	Fly	Yes	B	Other	190
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Northern Fulmar	2	Fly	Yes	A	Other	200
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Razorbill	1	Fly	Yes	A	Other	288
Transport Desgagnes	Berthe A. Desgagnés	7/11/2024	Northern Fulmar	1	Fly		A		275
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Razorbill	4	Fly	Yes	A	Escape Flight	130
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Razorbill	1	Fly	Yes	B	Other	340
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Razorbill	4	Fly	Yes	B	Other	130
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Razorbill	4	Fly	Yes	A	Other	252
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Razorbill	1	Fly	Yes	B	Other	252
Transport Desgagnes	Berthe A. Desgagnés	7/12/2024	Unknown Bird	1	Fly		A		309
Transport Desgagnes	Berthe A. Desgagnés	7/13/2024	Common Eider	2	Water	Yes	B	Other	
Transport Desgagnes	Berthe A. Desgagnés	7/13/2024	Unknown Duck	1	Water	Yes	B	Other	
Transport Desgagnes	Berthe A. Desgagnés	7/13/2024	Unknown Bird	2	Fly	Yes	B	Other	140
Transport Desgagnes	Berthe A. Desgagnés	7/13/2024	Herring Gull	1	Fly	Yes	A	Other	140
Transport Desgagnes	Berthe A. Desgagnés	7/15/2024	Unknown Gull	1	Fly	No	D	Other	270
Transport Desgagnes	Berthe A. Desgagnés	7/18/2024	Unknown Duck	1	Both	No	C	Other	140
Transport Desgagnes	Berthe A. Desgagnés	7/24/2024	Herring Gull	1	Fly	Yes	A	Other	96
Transport Desgagnes	Berthe A. Desgagnés	7/24/2024	Unknown Jaeger	1	Fly	Yes	B	Other	170
Transport Desgagnes	Berthe A. Desgagnés	7/24/2024	Unknown Bird	1	Fly	Yes	B		78
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Razorbill	1	Fly	Yes	B	Other	180
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Razorbill	2	Fly	Yes	A	Other	190
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Herring Gull	1	Fly	Yes	B	Other	20
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Northern Fulmar	1	Fly	Yes	A		
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Razorbill	1	Fly	Yes	A		
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Pomarine Jaeger	1	Fly	Yes	A		
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Razorbill	6	Fly	Yes	A		
Desgagnes	Marcellin A. Desgagnés	7/2/2024	Glaucous Gull	3	Fly	Yes	B	Other	326
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Unknown Gull	1	Fly	Yes	C	Other	200
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Unknown Gull	2	Fly	Yes	D	Other	0
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Northern Fulmar	1	Fly	Yes	A	Other	270
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Unknown Gull	1	Fly	Yes	C	Other	270
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Pomarine Jaeger	4	Fly	Yes	C	Other	180
Desgagnes	Marcellin A. Desgagnés	7/3/2024	Northern Fulmar	1	Fly	Yes	B	Other	90
Desgagnes	Marcellin A. Desgagnés	7/4/2024	Unknown Duck	2	Water	Yes	E	Rafting	

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Desgagnes	Marcellin A. Desgagnés	7/7/2024	Razorbill	7	Fly	Yes	C	Other	250
Desgagnes	Marcellin A. Desgagnés	7/7/2024	Razorbill	8	Fly	Yes	D	Other	
Desgagnes	Marcellin A. Desgagnés	7/7/2024	Razorbill	3	Water	No	D	Rafting	
Desgagnes	Marcellin A. Desgagnés	7/7/2024	Razorbill	5	Fly	No	D	Other	
Transport Desgagnes	Berthe A. Desgagnés	7/25/2024	Razorbill	2	Water	No	A		
Desgagnes	Zeleda Desgagnés	10/3/2024	Pomarine Jaeger	1	Fly	No	C	Rafting	
Desgagnes	Zeleda Desgagnés	10/3/2024	Pomarine Jaeger	1		No	C	Other	
Desgagnes	Zeleda Desgagnés	10/3/2024	Unknown Bird	1	Fly	No	C	Other	
Desgagnes	Zeleda Desgagnés	10/3/2024	Northern Fulmar	1	Fly	Yes	B	Other	340
Desgagnes	Zeleda Desgagnés	10/3/2024	Sabine's Gull	20	Fly	Yes	A	Other	160
Desgagnes	Zeleda Desgagnés	10/3/2024	Parasitic Jaeger	1	Fly	Yes	A	Other	160
Desgagnes	Zeleda Desgagnés	10/3/2024	Glaucous Gull	3	Fly	Yes	A	Other	160
Desgagnes	Zeleda Desgagnés	10/19/2024	Unknown Bird	1	Fly	No	E	Other	210
Desgagnes	Zeleda Desgagnés	10/19/2024	Razorbill	3	Fly	Yes	A	Other	296
Desgagnes	Zeleda Desgagnés	10/19/2024	Northern Fulmar	1	Fly	Yes	B	Other	208
Desgagnes	Zeleda Desgagnés	10/19/2024	Dovekie	4	Fly	Yes	A	Other	90
Desgagnes	Zeleda Desgagnés	10/19/2024	Dovekie	11	Fly	No		Other	90
Desgagnes	Zeleda Desgagnés	10/19/2024	Northern Fulmar	2	Fly	Yes	A	Other	180
Desgagnes	Nordika Desgagnés	6/26/2024	Unknown Gull	1	Fly				345
Desgagnes	Nordika Desgagnés	6/26/2024	Unknown Gull	1	Fly				300
Desgagnes	Nordika Desgagnés	6/26/2024	Unknown Gull	3	Fly				250
Desgagnes	Nordika Desgagnés	6/26/2024	Herring Gull	1	Fly				299
Desgagnes	Nordika Desgagnés	6/26/2024	Herring Gull	1	Fly				200
Desgagnes	Nordika Desgagnés	6/26/2024	Herring Gull	1	Fly				200
Desgagnes	Nordika Desgagnés	6/26/2024	Herring Gull	2	Fly				250
Desgagnes	Nordika Desgagnés	6/27/2024	Unknown Jaeger	2	Fly		B	Escape Flight	294
Desgagnes	Nordika Desgagnés	6/27/2024	Unknown Jaeger	1	Fly		C	Escape Flight	180
Desgagnes	Nordika Desgagnés	6/27/2024	Unknown Gull	1	Fly		D		293
Desgagnes	Nordika Desgagnés	6/28/2024	Unknown Bird	4	Fly		C	Escape Flight	180
Desgagnes	Nordika Desgagnés	6/28/2024	Unknown Bird	1	Fly		B	Escape Flight	70
Desgagnes	Nordika Desgagnés	6/28/2024	Unknown Bird	2	Fly		C	Escape Flight	250
Desgagnes	Nordika Desgagnés	6/29/2024	Common Loon	1	Water		A	Rafting	0
Desgagnes	Nordika Desgagnés	6/30/2024	Black Guillemot	3	Water		D	Other	0
Desgagnes	Nordika Desgagnés	6/30/2024	Black Guillemot	1	Water		C	Other	
Desgagnes	Nordika Desgagnés	6/30/2024	Unknown Duck	5	Fly		C	Escape Flight	180
Desgagnes	Nordika Desgagnés	6/30/2024	Unknown Bird	9	Fly		C	Escape Flight	180
Desgagnes	Nordika Desgagnés	7/1/2024	Great Shearwater	4	Fly		C		0
Desgagnes	Nordika Desgagnés	7/2/2024	Unknown Gull	1	Fly		B	Other	18
Desgagnes	Nordika Desgagnés	7/5/2024	Unknown Gull	1	Fly		E	Rafting	0

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Desgagnes	Nordika Desgagnés	7/5/2024	Unknown Gull	1	Water		D		
Desgagnes	Nordika Desgagnés	7/6/2024	Unknown Gull	1	Fly		D	Rafting	0
Desgagnes	Nordika Desgagnés	7/10/2024	Unknown Duck	1	Water		B	Rafting	
Desgagnes	Nordika Desgagnés	7/10/2024	Unknown Duck	2	Water		B	Rafting	
Desgagnes	Nordika Desgagnés	7/19/2024	Unknown Gull	1	Fly		B	Escape Flight	180
Desgagnes	Nordika Desgagnés	7/20/2024	Unknown Gull	7	Fly		C	Rafting	110
Desgagnes	Nordika Desgagnés	7/20/2024	Unknown Gull	9	Fly		C	Rafting	110
Desgagnes	Nordika Desgagnés	7/20/2024	Unknown Gull	1	Fly		B	Rafting	110
Desgagnes	Nordika Desgagnés	8/8/2024	Unknown Gull	1	Fly		E		180
Desgagnes	Nordika Desgagnés	8/8/2024	Unknown Gull	1	Water		E		
Desgagnes	Nordika Desgagnés	8/22/2024	Unknown Gull	1	Fly		B	Rafting	90
Desgagnes	Nordika Desgagnés	8/22/2024	Unknown Murre	1	Fly		B	Rafting	270
Desgagnes	Nordika Desgagnés	8/22/2024	Unknown Murre	2	Fly		C	Escape Flight	180
Desgagnes	Nordika Desgagnés	8/22/2024	Unknown Bird	1	Fly		A	Escape Flight	270
Desgagnes	Nordika Desgagnés	8/23/2024	Northern Fulmar	1	Fly	Yes	A	Escape Flight	225
Desgagnes	Nordika Desgagnés	8/23/2024	Common Loon	2	Water	Yes	A	Rafting	
Desgagnes	Nordika Desgagnés	8/23/2024	Dovekie	1	Fly	Yes	A	Other	225
Coastal Shipping Ltd.	Tuvaq W.	7/31/2024	Glaucous Gull	1	Fly	No	C	Other	285
Coastal Shipping Ltd.	Tuvaq W.	7/31/2024	Herring Gull	1	Fly	No	D	Other	280
Coastal Shipping Ltd.	Tuvaq W.	7/30/2024	Common Loon	1	Both	No	C	Other	250
Coastal Shipping Ltd.	Tuvaq W.	7/30/2024	Glaucous Gull	1		No	B	Rafting	
Coastal Shipping Ltd.	Tuvaq W.	7/30/2024	Glaucous Gull	9	Both	No	B	Rafting	250
Coastal Shipping Ltd.	Tuvaq W.	7/30/2024	Iceland Gull	3	Fly	No	C	Other	40
Coastal Shipping Ltd.	Tuvaq W.	7/30/2024	Glaucous Gull	1	Fly	Yes	A	Other	187
Coastal Shipping Ltd.	Tuvaq W.	7/29/2024	Herring Gull	1	Water	Yes	A	Escape Flight	180
Coastal Shipping Ltd.	Tuvaq W.	7/29/2024	Herring Gull	1		No	D	Other	
Coastal Shipping Ltd.	Tuvaq W.	7/28/2024	Glaucous Gull	1	Water	No	D	Rafting	
Coastal Shipping Ltd.	Tuvaq W.	7/28/2024	Long-tailed Jaeger	2	Fly	Yes	A	Other	245
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	No	D	Other	350
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	No	E	Other	0
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	Yes	A	Other	0
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	No	E	Other	0
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	No	B	Other	170
Coastal Shipping Ltd.	Tuvaq W.	8/3/2024	Unknown Hawk	2	Fly	Yes	A	Other	
Coastal Shipping Ltd.	Tuvaq W.	8/16/2024	Glaucous Gull	1	Water	No	C	Rafting	
Coastal Shipping Ltd.	Tuvaq W.	8/12/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd.	Tuvaq W.	8/12/2024	Common Loon	3	Water	No	C	Other	
Coastal Shipping Ltd.	Tuvaq W.	8/22/2024	Unknown Goose	15	Water	Yes	D	Other	35
Coastal Shipping Ltd.	Tuvaq W.	8/23/2024	Unknown Goose	15	Fly	Yes		Other	0

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Coastal Shipping Ltd.	Tuvaq W.	8/23/2024	Unknown Gull	1	Fly	Yes	B	Other	120
Coastal Shipping	Kivalliq W.	7/30/2024	Herring Gull	2	Fly	Yes	B	Other	270
Coastal Shipping	Kivalliq W.	8/1/2024	Unknown Gull	2	Water	No	C	Rafting	
Coastal Shipping	Kivalliq W.	8/2/2024	Herring Gull	1	Water	No	D	Rafting	
Coastal Shipping	Kivalliq W.	8/3/2024	Herring Gull	1	Water	No	D	Rafting	
Coastal Shipping	Kivalliq W.	8/4/2024	Unknown Gull	1	Fly	No	B	Other	0
Coastal Shipping	Kivalliq W.	8/6/2024	Herring Gull	2	Water	No	D	Rafting	
Coastal Shipping	Kitikmeot W.	11/5/2024	Unknown Murre	3	Fly	Yes	C	Other	0
Coastal Shipping	Kitikmeot W.	11/6/2024	Unknown Gull	1	Fly	Yes	D	Other	45
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	3	Fly	Yes	C	Other	100
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	17	Fly	Yes	D	Other	50
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	4	Fly	Yes	D	Other	230
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	4	Water	Yes	C	Rafting	
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	4	Fly	Yes	D	Other	30
Coastal Shipping	Kitikmeot W.	11/7/2024	Unknown Duck	2	Fly	Yes	C	Other	300
Coastal Shipping	Kitikmeot W.	11/10/2024	Unknown Duck	1	Fly	Yes	D	Other	90
Coastal Shipping	Kitikmeot W.	11/12/2024	Unknown Gull	1	Fly	Yes	D	Other	270
Coastal Shipping	Kitikmeot W.	11/14/2024	Unknown Duck	2	Fly	Yes	C	Other	270
Coastal Shipping	Kitikmeot W.	11/15/2024	Snowy Owl	2	Fly	Yes	C	Other	
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Gull	2	Fly	Yes	D	Other	100
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Gull	1	Fly	Yes	D	Other	120
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Gull	1	Fly	Yes	C	Other	50
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Gull	1	Fly	Yes	C	Other	90
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Murre	2	Fly	Yes	D	Other	90
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Murre	2	Fly	Yes	C	Other	80
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Gull	1	Fly	Yes	B	Other	90
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Murre	1	Fly	Yes	C	Other	100
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Murre	1	Fly	Yes	C	Other	80
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Gull	1	Fly	Yes	C	Other	80
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Gull	1	Fly	Yes	C	Other	100
Coastal Shipping	Kitikmeot W.	11/17/2024	Unknown Gull	2	Fly	Yes	D	Other	150
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Murre	2	Fly	Yes	C	Other	180
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	B	Other	160
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	D	Other	150
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Murre	5	Fly	Yes	E	Other	120
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	4	Fly	Yes	B	Other	300
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	B	Other	150
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	C	Other	130
Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	C	Other	150

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Coastal Shipping	Kitikmeot W.	11/18/2024	Unknown Gull	1	Fly	Yes	C	Other	140
Transport Desgagnes	Nordika Desgagnés	10/24/2024	Unknown Gull	1	Fly		D	Other	330
Transartik	Miena Desgagnés	8/21/2024	Razorbill	1	Fly	Yes	B	Other	290
Transartik	Miena Desgagnés	8/21/2024	Razorbill	2	Fly	Yes	C	Other	232
Transartik	Miena Desgagnés	8/21/2024	Herring Gull	1	Water	Yes	B	Other	
Transartik	Miena Desgagnés	8/21/2024	Razorbill	3	Fly	Yes	D	Other	180
Transartik	Miena Desgagnés	8/21/2024	Razorbill	16	Fly	Yes	C	Other	180
Transartik	Miena Desgagnés	8/21/2024	Razorbill	1	Fly	Yes	B	Other	278
Transartik	Miena Desgagnés	8/21/2024	Herring Gull	4	Water	Yes	D	Other	
Transartik	Miena Desgagnés	8/21/2024	Herring Gull	2	Water	Yes	D	Other	
Transartik	Miena Desgagnés	8/21/2024	Razorbill	2	Fly	Yes	D	Other	280
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	12	Fly	Yes	C	Other	250
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	10	Fly	Yes	C	Other	250
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	5	Fly	Yes	D	Other	80
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	4	Fly	Yes	D	Other	90
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	2	Fly	Yes	D	Other	180
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	2	Fly	Yes	D	Other	180
Transartik	Miena Desgagnés	8/21/2024	Glaucous Gull	1	Water		D	Other	
Transartik	Miena Desgagnés	8/23/2024	Northern Fulmar	1	Fly	No		Other	300
Transartik	Miena Desgagnés	8/23/2024	Razorbill	1	Fly	No		Other	120
Transartik	Miena Desgagnés	8/23/2024	Northern Fulmar	3	Fly	No	B	Escape Flight	30
Transartik	Miena Desgagnés	8/23/2024	Herring Gull	1	Fly	No	A	Other	323
Transartik	Miena Desgagnés	8/29/2024	Common Murre	1	Water	Yes	A	Other	
Transartik	Miena Desgagnés	9/2/2024	Common Murre	1	Fly	Yes	B	Other	0
Transartik	Miena Desgagnés	9/4/2024	Common Murre	5	Fly	Yes	C	Other	10
Transartik	Miena Desgagnés	9/4/2024	Common Murre	7	Fly	Yes	D	Other	170
Transartik	Miena Desgagnés	9/4/2024	Common Murre	3	Fly	Yes	C	Other	90
Transartik	Miena Desgagnés	9/5/2024	Northern Fulmar	5	Fly	Yes	C	Other	110
Transartik	Miena Desgagnés	9/5/2024	Great Skua	40	Fly	Yes	E	Other	270
Transartik	Miena Desgagnés	9/6/2024	Northern Fulmar	2	Fly	No	B	Other	
Transartik	Miena Desgagnés	9/6/2024	Northern Fulmar	2	Fly	Yes	C	Other	10
Transartik	Miena Desgagnés	9/6/2024	Northern Fulmar	1	Fly	No	D	Other	300
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	4	Fly	No	C	Other	305
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	3	Water	No	C	Other	
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	3	Fly	Yes	D	Other	340
Transartik	Miena Desgagnés	9/25/2024	Razorbill	2	Fly	Yes	C	Other	310
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	6	Fly	No	E	Other	40
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	3	Fly	No	B	Other	301
Transartik	Miena Desgagnés	9/25/2024	Razorbill	2	Fly	No	C	Other	300

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Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	1	Fly	No	D	Other	0
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	8	Fly	No	B	Other	301
Transartik	Miena Desgagnés	9/25/2024	Northern Fulmar	1	Water	No	C	Other	
Transartik	Miena Desgagnés	9/26/2024	Thick-billed Murre	1	Fly	Yes	C	Other	30
Transartik	Miena Desgagnés	9/26/2024	Northern Fulmar	3	Fly	Yes	C	Other	20
Transartik	Miena Desgagnés	9/26/2024	Herring Gull	1	Fly	No	D	Other	100
Transartik	Miena Desgagnés	9/26/2024	Herring Gull	1	Fly	No	C	Other	184
Transartik	Miena Desgagnés	9/28/2024	Northern Fulmar	3	Fly	Yes	B	Other	190
Transartik	Miena Desgagnés	9/28/2024	Northern Fulmar	2	Fly	Yes	B	Other	200
Transartik	Miena Desgagnés	10/1/2024	Wilson's Storm-petrel	1	Fly	Yes	B	Other	0
Transartik	Miena Desgagnés	10/3/2024	Northern Fulmar	1	Fly	Yes	B	Other	25
Transartik	Miena Desgagnés	10/6/2024	Northern Fulmar	1	Fly	Yes	A	Other	0
Transartik	Miena Desgagnés	10/12/2024	Northern Fulmar	1	Fly	Yes	A	Other	10
Transartik	Miena Desgagnés	10/14/2024	Northern Fulmar	2	Fly	No	C		20
Transartik	Miena Desgagnés	10/15/2024	Northern Fulmar	2	Fly	Yes	B	Other	270
Transartik	Miena Desgagnés	10/15/2024	Common Murre	1	Fly	Yes	B	Other	210
Transartik	Miena Desgagnés	10/15/2024	Common Murre	2	Fly	Yes	B	Other	90
Transartik	Miena Desgagnés	10/16/2024	Northern Fulmar	20	Fly	Yes	B	Other	
Transartik	Miena Desgagnés	10/16/2024	Northern Fulmar	10	Fly	Yes	B	Other	125
Transartik	Miena Desgagnés	10/16/2024	Common Murre	5	Fly	Yes	C	Other	135
Transartik	Miena Desgagnés	10/16/2024	Northern Fulmar	3	Fly	Yes	B	Other	270
Transartik	Miena Desgagnés	10/16/2024	Northern Fulmar	2	Fly	Yes	A	Other	180
Desgagnes	Marcellin A. Desgagnés	7/7/2024	Razorbill	20	Fly	Yes	B	Other	270
Desgagnes	Miena Desgagnés	7/18/2024	Common Murre	3	Water	Yes	E	Other	
Coastal Shipping	Kitikmeot W.	11/16/2024	Unknown Duck	1	Fly	Yes	D	Other	135
Transartik	Miena Desgagnés	10/15/2024	Common Murre	3	Fly	Yes	C	Other	200
Coastal Shipping Ltd.	Tuvaq W.	8/4/2024	Herring Gull	1	Fly	Yes	A	Other	300
Desgagnes	Nordika Desgagnés	7/4/2024	Unknown Gull	1	Fly		B	Escape Flight	180
Desgagnes	Nordika Desgagnés	7/4/2024	Unknown Gull	1	Fly		C	Rafting	90
Coastal Shipping Ltd.	Kivalliq W.	11/1/2024	Herring Gull	4	Fly	No	C	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/1/2024	Herring Gull	4	Fly	No	C	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/1/2024	Herring Gull	4	Fly	No	D	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/1/2024	Herring Gull	4	Fly	No	E	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/2/2024	Herring Gull	3	Water	No	A	Rafting	

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Coastal Shipping Ltd.	Kivalliq W.	11/4/2024	Herring Gull	2	Fly	No	C	Other	180
Coastal Shipping Ltd.	Kivalliq W.	11/4/2024	Herring Gull	2	Fly	No	C	Other	180
Coastal Shipping Ltd.	Kivalliq W.	11/4/2024	Herring Gull	2	Fly	No	D	Other	180
Coastal Shipping Ltd.	Kivalliq W.	11/6/2024	Herring Gull	3	Fly	No	D	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/6/2024	Herring Gull	3	Fly	No	E	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/7/2024	Herring Gull	4	Water	No	B	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/7/2024	Herring Gull	4	Water	No	B	Rafting	0
Coastal Shipping Ltd.	Kivalliq W.	11/7/2024	Herring Gull	4	Water	No	B	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/7/2024	Herring Gull	4	Water	No	B	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/7/2024	Herring Gull	4	Water	No	B	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Common Raven	2	Fly	No	C	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Common Raven	2	Fly	No	C	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Common Raven	2	Fly	No	C	Other	150
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Razorbill	2	Fly	No	C	Other	150
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Common Raven	2	Fly	No	C	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/8/2024	Common Raven	2	Fly	No	C	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/9/2024	Rock Ptarmigan	3	Fly	No	C	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/9/2024	Rock Ptarmigan	3	Fly	No	D	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/9/2024	Rock Ptarmigan	3	Fly	No	E	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/11/2024	Herring Gull	2	Water	No	C	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/16/2024	Herring Gull	3	Fly	No	D	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/16/2024	Herring Gull	3	Fly	No	D	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/16/2024	Herring Gull	2	Fly	No	D	Other	200
Coastal Shipping Ltd.	Kivalliq W.	11/17/2024	Common Raven	1	Fly	No	B	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/17/2024	Common Raven	1	Fly	No	C	Other	100
Coastal Shipping Ltd.	Kivalliq W.	11/17/2024	Common Raven	1	Fly	No	D	Other	120
Coastal Shipping Ltd.	Kivalliq W.	11/17/2024	Common Raven	1	Fly	No	E	Other	120
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Unknown Gull	5	Water	No	A	Rafting	0
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/19/2024	Herring Gull	5	Water	No	A	Rafting	

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Coastal Shipping Ltd	Kivalliq W.	8/25/2024	Unknown Jaeger	1	Fly	Yes	A	Other	170
Coastal Shipping Ltd	Kivalliq W.	8/25/2024	Unknown Jaeger	1	Fly	Yes	B	Other	180
Coastal Shipping Ltd	Kivalliq W.	8/25/2024	Unknown Jaeger	1	Fly	Yes	A	Other	90
Coastal Shipping Ltd	Kivalliq W.	8/25/2024	Unknown Jaeger	1	Fly	Yes	A	Other	270
Coastal Shipping Ltd	Kivalliq W.	8/25/2024	Unknown Jaeger	1	Fly	Yes	A	Other	90
Coastal Shipping Ltd	Kivalliq W.	8/23/2024	Herring Gull	11	Fly	No	D	Other	180
Coastal Shipping Ltd	Kivalliq W.	8/22/2024	Herring Gull	3	Fly	No	C	Other	270
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/30/2024	Unknown Duck	8	Water	Yes	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/29/2024	Unknown Gull	3	Water	Yes	B	Other	
Coastal Shipping Ltd	Kivalliq W.	8/29/2024	Unknown Gull	3	Fly	Yes	B	Other	180
Coastal Shipping Ltd	Kivalliq W.	8/28/2024	Unknown Duck	15	Fly	Yes	B	Other	270
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/12/2024	Herring Gull	3	Water	No	B	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	0
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/6/2024	Herring Gull	2	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/4/2024	Unknown Gull	1	Fly	No	B	Other	0
Coastal Shipping	Kivalliq W.	10/28/2024	Unknown Ptarmigan	1		No	A	Other	0
Coastal Shipping	Kivalliq W.	10/27/2024	Unknown Ptarmigan	1	Fly	No	A	Escape Flight	90
Coastal Shipping	Kivalliq W.	10/24/2024	Unknown Ptarmigan	7	Fly	No	B	Rafting	340
Coastal Shipping	Kivalliq W.	10/24/2024	Unknown Ptarmigan	7	Fly	No	B	Rafting	340
Coastal Shipping	Kivalliq W.	10/20/2024	Herring Gull	1	Fly	Yes	C	Other	345
Coastal Shipping	Kivalliq W.	10/20/2024	Herring Gull	1	Fly	Yes	B	Other	225
Coastal Shipping	Kivalliq W.	10/19/2024	Unknown Gull	3	Fly	No	E	Other	270
Coastal Shipping	Kivalliq W.	10/16/2024	Unknown Gull	1	Fly	Yes	C	Escape Flight	80

APPENDIX F: SEABIRD OBSERVATION DATA, 2024

Company/Agency	Vessel Name	Survey Date	Species Name	Count	Observation Type	In Transect?	Distance Category	Behaviour	Flight Direction
Coastal Shipping	Kivalliq W.	10/16/2024	Unknown Gull	1	Fly	Yes	E	Rafting	240
Coastal Shipping	Kivalliq W.	10/15/2024	Unknown Gull	1	Fly	Yes	C	Escape Flight	300
Coastal Shipping	Kivalliq W.	10/15/2024	Unknown Gull	4	Fly	Yes	B	Escape Flight	85
Coastal Shipping	Kivalliq W.	10/14/2024	Unknown Gull	1	Fly	Yes	B	Rafting	300
Coastal Shipping	Kivalliq W.	10/14/2024	Unknown Gull	4	Fly	Yes	A	Escape Flight	50
Coastal Shipping Ltd	Kivalliq W.	8/22/2024	Herring Gull	3	Fly	No	C	Other	270
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/19/2024	Herring Gull	5	Water	No	A	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/16/2024	Herring Gull	5	Fly	No	B	Other	120
Coastal Shipping Ltd	Kivalliq W.	8/16/2024	Herring Gull	5	Fly	No	B	Other	120
Coastal Shipping Ltd	Kivalliq W.	8/16/2024	Herring Gull	5	Fly	No	B	Other	120
Coastal Shipping Ltd	Kivalliq W.	8/16/2024	Herring Gull	5	Fly	No	B	Other	120
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd	Kivalliq W.	8/14/2024	Herring Gull	7	Water	No	D	Rafting	
Coastal Shipping Ltd.	Kivalliq W.	11/16/2024	Herring Gull	3	Fly	No	D	Other	220
Coastal Shipping Ltd	Kivalliq W.	8/16/2024	Herring Gull	5	Fly	No	B	Other	120
Coastal Shipping Ltd	Kivalliq W.	8/11/2024	Herring Gull	4	Water	No	C	Rafting	

APPENDIX G SEABIRD DISTANCE ANALYSIS— TOP THREE AKAIKE'S INFORMATION CRITERION-RATED DISTANCE MODELS, MOVING VESSEL SURVEYS

APPENDIX G: SEABIRD DISTANCE ANALYSIS—TOP THREE AKAIKE'S INFORMATION CRITERION-RATED DISTANCE MODELS, MOVING VESSEL SURVEYS

Year	Model Key and Adjustment	Detection Estimate	Detection SE[1]	Δ AIC[2]
All Years	Hazard-rate with polynomial adjustment	0.437	0.139	0
	Uniform with cosine adjustment	0.429	0.166	6.331
	Unifrom with polynomial adjustment	0.447	0.025	23.160
2019	Half-normal with cosine adjustment	0.307	0.022	0.000
	Uniform with cosine adjustment	0.327	0.026	0.448
	Hazard-rate, hrtmite adjustment	0.322	0.034	0.628
2020	Hazard-rate with hermite adjustment	0.317	0.04	0.000
	Half-normal with polynomial adjustment	0.376	0.183	14.978
	Half-normal with hermite adjustment	0.409	0.021	17.618
2021	Hazard-rate, cosine adjustment	0.432	0.021	0.000
	Unifrom with cosine adjustment	0.407	0.016	0.525
	Half normal with cosine adjustment	0.415	0.031	1.724
2022	Hazard-rate with polynomial adjustment	0.497	0.029	0.000
	Uniform with cosine adjustment	0.461	0.022	7.735
	Half-normal with cosine adjustment	0.505	0.018	12.76
2023	Hazard-rate with cosine adjustment	0.441	0.042	0.000
	Half-normal with cosine adjustment	0.408	0.034	0.426
	Half-normal with hermite adjustment	0.484	0.025	3.558
2024	Half-normal with no adjustment	0.517	0.039	0
	Uniform with cosine adjustment	0.533	0.024	0.064
	Hazard-rate with no adjustment	0.523	0.059	3.534

Notes:

[1] Standard Error (SE)

[2] Akaike's Information Criteria (AIC), presented as the relative difference in ranking model fit. The lowest value in the best fit model.



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