

Protected A when completed

Application for a Migratory Birds Regulations (MBR) Scientific Permit

As per MBR section 75(2) a Scientific Permit may authorize the permit holder for scientific purposes, including banding, rehabilitation or educational purposes, to capture, kill, injure or harass a migratory bird; destroy, take or disturb an egg; damage destroy, remove or disturb a nest; deposit bait under specific circumstances, exchange, give or have in their possession a migratory bird, egg or nest; and if they are authorized to capture and band migratory bird take birds that are killed as a result of normal banding operations or that are found dead. As per the Migratory Bird Convention Act (MBCA), any reference to a migratory bird includes the bird itself, the sperm, eggs, embryos, tissue cultures and parts of the bird.

Personal information collected as part of the permitting process is protected under the Privacy Act.

Important: Please consult the document “Instruction Sheet: Applying for a Scientific Permit under the Migratory Birds Regulations, 2022” when filling out this application. Certain activities that may not require a MBR Scientific Permit are also outlined in the Instruction Sheet. Complete Part 1, plus any other Part(s) and Annexes related to the activities you are applying to conduct. Incomplete, illegible or unsigned application forms cannot be processed and will be returned.

Table of contents:

[Part 1: Applicant information](#)

[Section 1: Permit request information](#)

- [1.1 Type of request](#)
- [1.2 Purpose of permit](#)
- [1.3 History](#)

[Section 2: Applicant information](#)

- [2.1 Applicant contact information](#)
- [2.2 Organization information](#)
- [2.3 Nominees](#)

[Section 3: Completed part and attached documentation](#)

[Part 2: Project information](#)

- [1.1 Project title](#)
- [1.2 Project objectives](#)
- [1.3 Project summary](#)
- [1.4 Project description](#)
- [1.5 Project justification](#)
- [1.6 Applicant qualifications \(or resume or CV attached\)](#)
- [1.7 Injuries and mortalities](#)
- [1.8 Collaborating permittees \(for Banding applicants only\)](#)
- [1.9 Geographic scope](#)
- [1.10 Address, UTM, geolocation or proximity to nearest identifiable town or city](#)
- [1.11 Project duration \(anticipated\)](#)

[Part 3: Application for scientific banding purposes](#)

Section 1: Banding experience

- [1.1 Permit applicant or permit holder experience](#)
- [1.2 Animal Use Protocol \(AUP\) and Animal Care Committee \(ACC\) approval documents](#)

Section 2: Species

- [2.1 Target Species](#)
- [2.2 Non-target species](#)

Section 3: Activities and methods

- [3.1 Activity description](#)
- [3.2 Capture methods and additional authorization requests](#)
- [3.3 Data management](#)

Section 4: Alternatives and mitigation

- [4.1 Consideration of alternatives](#)
- [4.2 Mitigation measures and risk management](#)

Section 5: Protected areas

Section 6: Intended use of the dead bird at the end of the proposed activity

Part 4: Non-banding scientific purposes

Section 1: Additional documentation

Section 2: Species

- [2.1 Target species](#)
- [2.2 Non-target species](#)

Section 3: Activities and methods

- [3.1 Applicable activities](#)
- [3.2 Activity description](#)

Section 4: Alternatives and mitigation

- [4.1 Consideration of alternatives](#)
- [4.2 Mitigation measures and risk management](#)
- [4.3 Euthanasia of migratory birds or eggs](#)

Section 5: Protected areas

Section 6: Disposal, disposition or intended use

- [6.1 Final disposition or disposal and location](#)
- [6.2 Intended Use of the migratory bird, eggs and nests at the end of the proposed activity](#)

Part 5: Application for scientific rehabilitation purposes

Section 1: Species

Section 2: Training

- [2.1 Hands-on experience](#)
- [2.2 Academic qualifications](#)
- [2.3 Provincial, territorial inspection certificate, rehabilitation license, permit number or other applicable certification](#)
- [2.4 International Wildlife Rehabilitation Council \(IWRC\) Certified Wildlife Rehabilitator](#)
- [2.5 Veterinarian](#)

Section 3: Activities and facilities

- [3.1 Applicable activities](#)
- [3.2 Activity description](#)
- [3.3 Facility description](#)

Section 4: Risk management

- [4.1 Potential risks](#)
- [4.2 Euthanasia methods](#)

Section 5: Location

- [5.1 Service area or scope of response service](#)
- [5.2 Protected areas](#)

Section 6: Disposal, disposition or intended use

- [6.1 Final disposition of live migratory birds and location](#)
- [6.2 Final disposition or disposal of dead migratory birds and location](#)

Part 6: Application for scientific educational purposes

Section 1: Species

Species 2: Experience

- [2.1 Academic qualifications and courses taken](#)
- [2.2 Member of a museum association](#)
- [2.3 Accredited Member of Canada's Accredited Zoos and Aquariums \(CAZA\)](#)
- [2.4 Animal Use Protocol \(AUP\) and Animal Care Committee \(ACC\) approval](#)
- [2.5 Pedagogical Merit Of Live Animal-Based Teaching And Training](#)

Section 3: Activities and facilities

- [3.1 Applicable Activities](#)
- [3.2 Activity description](#)
- [3.3 Facility description](#)

Section 4: Risk management

- [4.1 Risk to live migratory birds](#)
- [4.2 Veterinarian](#)

Section 5: Protected areas

Part 7: Annexes

- [Annexes to be filled out for scientific banding purposes](#)
- [Annexes to be filled out for other scientific purposes](#)

Part 8: Signature of applicant

[Annex 1: Auxiliary markers, biological sample collection, and veterinary procedures](#)

[Annex 2: Nominees](#)

[Annex 3: Species at risk](#)

[Annex 4: Exchange](#)

[Annex 5: Additional project and activity information](#)

Part 1: Applicant and general information (Mandatory)**Section 1: Permit request information****1.1 Type of request** **New application**

Have you previously held an MBR Scientific Permit in Canada (or a Scientific Banding Permit in the United States)? Yes No

If so, provide the permit number(s):

 Permit renewal

Current Scientific Permit number:

Has an MBR report been submitted for this permit? Yes No

If you are requesting a permit renewal, please check one of the following:

I would like to renew the permit without modifications. This means you wish to continue the same activities with the same nominees and species...etc.

I would like to make modifications to the existing project. This means you wish to continue with the same project parameters you initially applied for but wish to make changes to species, nominees or activities.

 Modification to existing permit

Permit number:

1.2 Purpose of permit

I am applying for a MBR Scientific permit for the following purposes:

Scientific - Banding – complete [Part 3](#)

- Master permit
 Station permit
 Sub-permit

Permit number of master bander or station if you are applying for a sub-permit:

Signature of master bander or station's responsible individual indicating consent:

 Non-banding scientific - Complete [Part 3](#)

- Rehabilitation** - Complete [Part 4](#)
 Education – Complete [Part 5](#)

1.3 History

Have you ever been refused a MBR Scientific Permit or had one suspended?

No Yes

If yes, provide the reason:

Have you ever been convicted of an offence under the Migratory Birds Convention Act or the Migratory Birds Regulations?

No Yes

If yes, please explain the conviction:

Section 2: Applicant information		
2.1 Applicant contact information		
Given name (first name): Clément	Surname (last name): Chevallier	
Position or title (for example: Director of Research, Bander in Charge (BIC)): Acting Protected Areas Head Northern Region (Eastern)		
Telephone (day): 867-975-2933	Telephone (other):	
Work Email: clement.chevallier@ec.gc.ca	Fax:	
Personal Email:		
Mailing address		
Street: 301-933 Mivvik Street		
City: Iqaluit	Province/Territory: NU	Postal Code: X0A 0H0
2.2 Organization information (if applicable)		
Name of organization: Canadian Wildlife Service (Environment and Climate Change Canada)		
Website of organization:		
Mandate or statement of purpose of organization: The mission is to protect and manage migratory birds, species at risk, and their nationally important habitat		
Telephone (day): 867-222-0875	Fax:	
Email:		
Mailing address (if different from above)		
Street:		
City:	Province/Territory:	Postal Code:
2.3 Nominees		
Fill out Annex 2– see Instructions to determine if you need to complete this section. Nominees cannot be added to Scientific Banding permits.		
<input checked="" type="checkbox"/> I have filled out Annex 2		
Section 3: Completed parts and attached documentation		
<input checked="" type="checkbox"/> Part 2 : Project Information <input type="checkbox"/> Resume or CV (or complete section) <input type="checkbox"/> Other:		
<input type="checkbox"/> Part 3 : Application for scientific banding purposes <input type="checkbox"/> Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents <input type="checkbox"/> Other:		

- [Part 4](#): Application for non-banding scientific purposes
 - Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents
 - Other:

- [Part 5](#): Application for scientific rehabilitation purposes
 - A copy of the veterinarian's current license
 - Facility floor plan and photographs (if written description is not included)
 - Evidence of the applicant's training (transcript, course certificates)
 - Additional documentation for location of activities (if applicable)
 - Other:

- [Part 6](#): Application for scientific educational purposes
 - Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents (for live collections only)
 - Pedagogical Merit Of Live Animal-Based Teaching And Training (for live collections only)
 - Facility photographs and floor plan (if a written description is not included) (if applicable)
 - Additional documentation for location of activities (if applicable)
 - Other:

[Back to table of contents](#)

Part 2: Project and activity information (Mandatory)**1.1 Project title**

Northern Fulmar Colony Surveys and NWA/MBS Management

1.2 Project objectives

Please outline the objectives of the project proposed and the contribution of its results to society's understanding of migratory birds, ecosystem health or human well-being. Indicate whether the question in this study has been answered before.

The northern fulmar is a common colonial seabird that breeds through the Canadian High Arctic and eastern Baffin Island. It is an important bioindicator and key biomonitoring species for seabird and environmental scientists from across the North Atlantic. In the early 2000s, Canadian seabird scientists censused many of the colonies in Nunavut and found numbers to be a bit lower than earlier estimates, but they thought this may be attributable to different methodologies for census work. However, our counts of birds along eastern Baffin Island in 2018 suggest a precipitous 75% decline at colonies there, likely in response to increased climate variability, expanding Arctic fisheries, new pollutants including plastic pollution. This project will aim to produce an updated survey of Northern Fulmar colonies in the Arctic for their monitoring and conservation.

This project also aims to install remote cameras in the Nanuit Itillinga National Wildlife Area to better monitor the biodiversity. Specifically, it will allow us to estimate the area used by the caribou herd when crossing the pass, as requested by the Area Co-Management Committee.

Finally, the project aims to identify if there are endangered Ivory Gulls present at Seymour Island (Naujavaat) using remote cameras and acoustic recording units.

1.3 Project summary

Provide a plain language summary of the project

Surveying: The northern fulmar is a ubiquitous seabird found throughout the eastern Canadian Arctic. Evidence suggests that colonies along eastern Baffin Island have declined in size by 75% over 4 decades. We need to assess whether the same trends are happening with colonies in the high Arctic. We will survey two northern Fulmar colonies in Hobhouse Inlet and Cape Vera by helicopter and drone.

Management and monitoring: To better manage the Nanuit Itillinga National Wildlife Area, we would like to install remote cameras and automatic recording unit to monitor the biodiversity present in the area and more precisely estimate the specific area used by the caribou herd when crossing the pass. Additionally, Naujavaat (Seymour Island) Migratory Bird Sanctuary has been created to protect one of the largest known colonies of Ivory Gull. Nevertheless, no

recent record of presence exists on the island. We would like to install remote cameras and automatic recording units in Nauyavaat to improve our capacity to detect the presence of nesting Ivory Gull on the island.

We will have a base in Resolute Bay and travel to each location on day trips. The whole project should not take more than 6-7 days but it will depend on weather.

1.4 Project description

Briefly describe how you will achieve the project's objectives, with a summary of how birds will be captured, handled, marked, and sampled.

Specific Objectives in 2024 : 1) Northern Fulmar Colonies – Two one day trip by helicopter. As in 2022 and 2023, we will fly to a colony, and follow alongside of the cliffs via helicopter moving a speed of -30Km/h with a horizontal distance of 250 m at a height just below the top of each cliff. The passengers will take overlapping photographs using digital cameras that will be stitched together afterwards, and the birds will be counted using imagery software. Depending on weather conditions, the helicopter will make up to 2-4 passes to ensure we have a full data set. Additional passes will be made to video the entire cliff using a high-resolution video camera. This method will be assessed afterwards to determine whether it is a suitable option. The drone will be operated from multiple locations on the ground. Imagery will then be assessed to determine whether it is a suitable replacement or supplement to the photo survey which may have limitations in areas of dark shadows such as the ravines where the birds are often also nesting. 2) Protected areas management activities – Two one day trip by helicopter To better manage the Nanuit Itillinga National Wildlife Area, we would like to install remote cameras and automatic recording unit to monitor the biodiversity present in the area. Installed in a line with motion detection and time-lapse setting picture will help collect important data for the protected area management plan. The automatic recording unit will also help investigate insects' abundance, anthropogenic disturbance, as well as bird song. We would install 4 to 6 camera/ARUs along the north side of the valley by helicopter. It should take 30 minutes per stop to install them. Finally, eDNA (water samples) will be collected to study species richness of the area. Nauyavaat (Seymour Island) Migratory Bird Sanctuary has been created to protect one of the largest know colony of the rare and elusive Ivory Gull. Nevertheless, no recent record of presence of sign of reproduction of the island exist. We would like to install remote cameras and automatic recording unit to improve our capacity to detect the presence of nesting Ivory Gull on the island. Cameras combined to the recording unit will allow us to identify species use of the area. Finally, eDNA (water samples) will be collected to study species richness of the area. We expect this work to be completed in 4-6 days depending on weather. If the colony surveys are successful and the data is adequate, we do not anticipate returning to these sites for another 5 years.

1.5 Project justification

Provide justification for the need to work with migratory birds, and a rationale for the choice of species and sample size, and the sex and age classes to be affected. For live education collections, please indicate why alternative methods are insufficient.

This project will conduct necessary research on Northern Fulmars to determine if their colony sizes in the high Arctic are decreasing. It will help understand how they may be responding to potential stressors over time such as climate change, vessel traffic, and plastic pollution. Understanding their population trends is vital for their conservation. Next, surveying Ivory Gulls is essential to determine if this endangered bird is still present in Nauyasvaat, as this will also support future conservation strategies and protection of the MBS. There is no plan to handle any birds.

1.6 Applicant qualifications (or resume or CV attached)

Please describe your experience and qualifications in relation to the proposed activities in your application (include technical qualifications, academic qualifications, publication history, field training, internships and trainers or mentors).

1.7 Injuries and mortalities

Use the checkboxes to indicate which of the following services you are able to provide in case of injury to migratory bird:

- | | | |
|---|---|--|
| <input type="checkbox"/> Wildlife first aid | <input type="checkbox"/> Transport to a permitted rehabilitation center.
Name:
Email:
Location:
Permit number (if known): | <input type="checkbox"/> Euthanasia or humane killing
Method:

<input type="checkbox"/> Not applicable (for dead migratory birds and specimens) |
|---|---|--|

1.8 Collaborating permittees (for Banding applicants only)

Please provide the names, bird banding permit numbers, and a list of authorizations for each collaborator who will be undertaking project activities without supervision. Authorizations are listed in Table 1 of the instructions.

Name	Permit number	Authorizations

1.9 Geographic scope

I intend to undertake activities in the following provinces and territories:

- AB BC MB NB NL NS NT NU ON PE QC SK YT

<p>Please note that you may be asked to provide specific locations for intended activities for which you are submitting an application, as required. You may require additional permits or permissions to undertake activities on any public, private or Indigenous lands.</p>	
<p>1.10 Address, UTM, geolocation or proximity to nearest identifiable town or city</p> <p>Please provide the specific location(s) where the activities will be conducted: Seymour Island (Naujavaat) MBS: 76° 48' N, 101° 16' W Nanuit Itillinga NWA: 75° 43' N, 98° 25' W Cape Vera: 76° 15'N, 89° 45' W Hobhouse Inlet: 74° 28' N, 86° 50' W</p> <p>If migratory birds are to be held in captivity, provide the address of the facility where they will be held: NA</p> <p>If birds are to be released in a location other than at the point of capture, provide the location of release:</p>	
<p>1.11 Project duration (anticipated)</p>	
<p>Start date (yyyy/mm/dd): 2024/07/01</p>	<p>End date (yyyy/mm/dd): 2024/08/31</p>
<p>Back to table of contents</p>	

Part 3: Application for scientific banding purposes		
Section 1: Banding experience		
1.1 Permit applicant experience		
Years or months of banding experience:	Number of birds extracted from mist nets:	
Indicate the seasons you have banded in: <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Autumn <input type="checkbox"/> Winter		
I am familiar with and will abide by Canadian Council on Animal Care (CCAC) ethical standards for working with wildlife and migratory birds in science, and the North American Banding Council Banders' code of ethics. <input type="checkbox"/> Yes <input type="checkbox"/> No		
I have been trained to recognize an improperly applied band and know when, and how to correct it or remove it safely. <input type="checkbox"/> Yes <input type="checkbox"/> No		
I have been trained to recognize signs of stress and minor injuries in a bird, and know how to respond to them. <input type="checkbox"/> Yes <input type="checkbox"/> No		
I am familiar with the accepted methods of euthanasia and humane killing for birds and am prepared to respond if a bird is accidentally injured during permitted activities and cannot be released or rehabilitated. <input type="checkbox"/> Yes <input type="checkbox"/> No		
1.2 Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents		
Are being submitted with the application: <input type="checkbox"/> Yes (documents attached). ACC approval expiry date: <input type="checkbox"/> To follow. I have applied and will submit documents by: <input type="checkbox"/> Not required		
Section 2: Species		
Important: If any of the target and/or non-target species are listed as an extirpated, endangered or threatened species at risk on Schedule 1 of the federal Species at Risk Act, Annex 3 of this Application must also be completed.		
2.1 Target species		
I request authorization to band	Number of species previously banded	Number of individuals previously banded
<input type="checkbox"/> Passerines (e.g. songbirds)		
<input type="checkbox"/> Other landbirds (e.g. doves, woodpeckers, swifts)		
<input type="checkbox"/> Waterfowl (e.g. swans, geese, ducks)		
<input type="checkbox"/> Waterbirds (e.g. loons, grebes, cranes, herons, rails)		

<input type="checkbox"/> Raptors (e.g. eagles, hawks, vultures, owls, falcons)		
<input type="checkbox"/> Seabirds (e.g. gannets, cormorants, gulls, terns)		
<input type="checkbox"/> Shorebirds (e.g. plovers, sandpipers, oystercatchers)		
<input type="checkbox"/> SARA-listed species; please specify: Click or tap here to enter text.		
<input type="checkbox"/> Specific species; please specify: Click or tap here to enter text.		
<input type="checkbox"/> Hummingbirds (if checked, please fill out the two related boxes below)		
Please provide information on if you will make the hummingbird bands yourself or if you will get them elsewhere.		
If you will make the bands yourself, have you been trained to make hummingbird bands? If so, by whom and when?		
<p>2.2 Non-target species Describe any effects (direct or indirect) your activities would have on non-target species and how these effects will be mitigated.</p>		
Section 3: Activities and methods		
<p>3.1 Activity description Describe in detail the activities that will be undertaken (for example: take of specimens from the wild, working in a colony, blood sampling, capture, banding):</p>		
3.2 Capture methods and additional authorization requests		
Capture methods	Additional authorizations	
<input type="checkbox"/> Trap at cavity, burrow, or nest box	<input type="checkbox"/> Band chicks at nest site and monitor	
<input type="checkbox"/> Hand capture	<input type="checkbox"/> Use federal bands outside Canada	
<input type="checkbox"/> Mist nets	<input type="checkbox"/> Band in colonies. Species:	
<input type="checkbox"/> Traps	<input type="checkbox"/> Deposit bait for the purpose of attracting birds for capture and banding	
<input type="checkbox"/> Pneumatic nets	Band captive birds at release. A regional scientific permit is required for these activities. <input type="checkbox"/> Band rehabilitated birds. Permit number and species or species groups: <input type="checkbox"/> Band captive-bred/raised birds. Permit number and species or species groups: <input type="checkbox"/> Band birds held for experimental purposes. Permit number and species or species groups:	
<input type="checkbox"/> Rocket nets		
<input type="checkbox"/> Cannon nets		
<input type="checkbox"/> Hand nets		
<input type="checkbox"/> Whoosh nets		
<input type="checkbox"/> Underwater or floating gill nets		

<input type="checkbox"/> Noose carpets, poles and snares	<input type="checkbox"/> Capture using dogs
<input type="checkbox"/> Hand held net launcher: ...	<input type="checkbox"/> Capture using drugs
<input type="checkbox"/> Audio lures	<input type="checkbox"/> Mark without banding
<input type="checkbox"/> Spotlighting	
<input type="checkbox"/> Other:	
Describe your training and competency with the capture methods and/or additional authorizations that you have indicated above (Section 3.2).	
3.3 Data management	
Describe your experience and competency with data collection, record keeping, and report submission.	
Banders are required to submit their data at least once a year using Bandit 4.0. Do you know how to use this program?	
<input type="checkbox"/> Yes	<input type="checkbox"/> No, but I understand that it is my responsibility to ensure high data quality and to use Bandit 4.0 to submit data to the banding program.
	<input type="checkbox"/> Not applicable; I will not be responsible for data entry.
What is your plan for managing additional data collected under your banding permit to make it accessible in the future? Refer to the instructions.	
If you expect to collect data from electronic tracking devices, what is your plan for archiving these data to make them accessible in the future?	
Section 4: Alternatives and mitigation	
4.1 Consideration of alternatives	
Do alternative methods exist to replace the use of migratory birds, or refine or reduce the numbers needed? If so, provide a rationale for not adopting alternative methods.	
4.2 Mitigation measures and risk management	
Please describe the measures you will use to reduce or minimize the potential for injury and disturbance to the migratory birds being studied.	
<input type="checkbox"/> Capture methods are appropriate for target species	
<input type="checkbox"/> Displacement of individuals is limited	
<input type="checkbox"/> Number of persons on-site is limited	

- Time spent at nest site or in colony is limited
- Sample size is limited
- Use of invasive methods is limited
- Handling time and/or number of handlers is limited
- Use of highly qualified and experienced persons
- Use of well-established scientific protocols
- First aid is administered swiftly by experienced persons
- Activities are scheduled to avoid disturbance during sensitive periods
- Activities are restricted to days with clement weather
- Site clearing is limited
- Disturbed areas are restored to pre-project conditions
- Disturbance to waterbodies is limited
- Use existing roads and trails for access
- Predator contingency plan is in place
- Species at risk are prioritized during capture and processing
- Euthanasia is swift and humane
- Other:

Section 5: Protected areas

Is the area(s) where your project is to be conducted in a Migratory Bird Sanctuary and/or National Wildlife Area? Yes No
 If yes, provide the name(s) of the protected areas:
 If yes, have you applied for a permit to conduct activities in the abovementioned-protected area(s)?
 Yes No

*For more information about additional permissions or permits that may be required in protected areas, please refer to the our website: Protected areas permits - Canada.ca

Section 6: Intended use of the dead migratory bird at the end of the proposed activity

If not directly disposed of, check all the intended activities that may following the possession of the dead bird (check all that apply):

- Taking specimens or the bird to a permitted taxidermist. Please fill out Annex 4.
- Storing it in a lab for future studies
- Salvaged for the purpose of donating them to a permitted public, scientific or educational institution. Please fill out Annex 4.
- Sent for necropsy. Please fill out Annex 4.
- Used for other purposes. Please specify:

For internal use only

Date Received:	Approved <input type="checkbox"/>	Refused <input checked="" type="checkbox"/>	Date:
Permits Officer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	
Biological reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	
Species at risk reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Previous report on file	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Documentation missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Comments:

[Back to table of contents](#)

Part 4: Application for non-banding scientific purposes
Section 1: Additional documentation
<p>Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents Are being submitted with the application:</p> <p><input type="checkbox"/> Yes (documents attached).</p> <p><input type="checkbox"/> I have applied and will submit documents by an anticipated approval date of (yyyy-mm-dd):</p> <p><input checked="" type="checkbox"/> Not required</p>
Section 2: Species
<p>Important: If any of the target and/or non-target species are listed as an extirpated, endangered or threatened species at risk on Schedule 1 of the federal Species at Risk Act, Annex 4 of this Application must also be completed.</p> <p>2.1 Target species (indicate the species, age groups, sex and numbers of migratory birds, eggs or nests that will be targeted) Northern Fulmar; Ivory Gull</p>
<p>2.2 Non-target species (<input type="checkbox"/> N/A) Describe any effects (direct or indirect) on non-target species and how these effects will be mitigated) Presence of other waterbirds will be noted (including ducks, geese, loons, gulls, etc). The deployed ARUs will record all bird species present in the area. Encounters with mammals (polar bears, caribou) will be avoided and we do not anticipate effects on them as we aim to minimize disturbance.</p>
Section 3: Activities and methods
<p>3.1 Applicable activities Select all applicable activities as listed in section 75(2) of the <i>Migratory Bird Regulations, 2022</i> for which you are requesting authorization:</p> <p><input checked="" type="checkbox"/> Capture, kill, injure or harass a migratory bird</p> <p><input type="checkbox"/> Destroy, take or disturb an egg</p> <p><input type="checkbox"/> Damage, destroy, remove or disturb a nest</p> <p><input type="checkbox"/> Deposit bait in any place during the period beginning 14 days before the first day of the first open season after July 1 of a calendar year and ending on the last day of the last open season before July 1 of the following year</p> <p><input type="checkbox"/> Exchange, give or have possession of a migratory bird, egg or nest</p>
<p>3.2 Activity description Describe in detail the activities (for example: take of specimens from the wild, working in a colony, blood sampling, capture, banding, nest collection, damage, destruction, removal and/or disturbance, handling of eggs if present) that will be undertaken with the bird, nest or egg): Potential disturbance of wildlife while surveying seabird colonies. This will be minimized to the best of our abilities by flying 250m away from the cliffs and at least 100-150 m above sea level. This is believed to be the best method to keep wildlife safe and still successfully conduct surveys. In the event of a fuel spill, where wildlife/habitat could be impacted, the</p>

Nunavut spill line (867-920-8130) will be contacted. We will also have a spill kit onsite. However, a fuel spill is unlikely and unexpected.

For drone disturbance, we will minimize by consistently observing the behaviour of the birds, noting any changes and if there is evidence of disturbance (e.g. mobbing, flushing), then alerting the drone pilot to increase distance or leave the area.

Section 4: Alternatives and mitigation

4.1 Consideration of alternatives

Do alternative methods exist to replace the use of migratory birds, or refine or reduce the numbers needed? If so, provide a rationale for not adopting alternative methods.

These methods were chosen to limit disturbance to wildlife and ensure crew members safety. Researcher on site will take all measures to reduce disturbance to a minimum (keeping distances, avoid encounters, reducing time of observation/disturbance). Participants in the work will be briefed to follow the same measures. The use of drone and photography to survey colonies is the chosen method to reduce disturbance as opposed to on foot surveys, as distances can be applied while still gathering valuable results. Migratory birds are the focus of this research, therefore we are not able to replace other species.

4.2 Mitigation measures and risk management

Please describe the measures you will use to reduce or minimize the potential for injury and disturbance to the migratory birds being studied.

- Capture methods are appropriate for target species
- Displacement of individuals is limited
- Number of persons on-site is limited
- Time spent at nest site or in colony is limited
- Sample size is limited
- Use of invasive methods is limited
- Handling time and/or number of handlers is limited
- Use of highly qualified and experienced persons
- Use of well-established scientific protocols
- Wildlife first aid is administered swiftly by experienced persons
- Activities are scheduled to avoid disturbance during sensitive periods
- Activities are restricted to days with clement weather
- Site clearing is limited
- Disturbed areas are restored to pre-project conditions
- Disturbance to waterbodies is limited
- Use existing roads and trails for access
- Predator contingency plan is in place
- Species at risk are prioritized during capture and processing
- Euthanasia is swift and humane
- Other:
- Supporting documentation attached

4.3 Euthanasia of migratory birds or eggs

Give a brief summary on how the captured, injured and harassed migratory bird and/or eggs suffering from incurable and painful injuries will be killed painlessly. Explain how the whole process will be conducted.

We are using non-invasive bird monitoring techniques. This section is not applicable.

Section 5: Protected areas

Is the area(s) where your project is to be conducted in a Migratory Bird Sanctuary and/or National Wildlife Area? Yes No

If yes, provide the name(s) of the protected areas: Nanuit Itillinga NWA, Seymour Island (Naujavaat) MBS

If yes, have you applied for a permit to conduct activities in the abovementioned protected area(s)?

Yes No

Section 6: Disposal, disposition, or intended use**6.1 Final disposition or disposal and location**

Please check off all that may apply in the eventuality of a bird's death or release of the bird after the completion of the proposed activities:

- Dispose of in a sanitary manner
- Release back into the wild. Please provide the location:
- Incinerate on site
- Handing over to rehabilitation centre. Please provide name and MBR scientific permit number:
- Other. Please explain: We are not handling or euthanizing any birds

Location:

- I acknowledge that the final disposition or disposal of live migratory birds and their location will be required in the reporting form associated with any granted permit application.

6.2 Intended use of the migratory bird, eggs and nests at the end of the proposed activity

If not directly disposed of, check all the intended activities that may follow the possession of the dead bird and the location where the activities will take place (check all that apply):

- Taking specimens or the bird to a permitted taxidermist
- Storing it in a lab for future studies
- Salvaged for the purpose of donating them to a permitted public, scientific or educational institution. Please provide the name and address of the institution:
- Sent for necropsy. Please provide the name and address of the institution:
- Used for other purposes. Please specify: We are not handling or euthanizing any birds

For internal use only

Date Received:

Permits Officer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Biological reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Species at risk reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Previous report on file	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Documentation missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Comments:			
Back to table of contents			

Part 5: Application for scientific rehabilitation purposes

Section 1: Species

Additional authorization is required to handle federal species at risk. For more information, review Annex 3.

List the species that you intend to rehabilitate (for example: all, or specify songbirds, water birds, seabirds, species at risk), as well as the estimated maximum number of birds that can be admitted:

Section 2: Training

2.1 Hands-on experience

Please explain your experience as it relates to migratory bird rehabilitation.

2.2 Academic qualifications (and attach wildlife rehabilitation course completion certificates or official degree or diploma transcripts as verification)

2.3 Provincial, territorial inspection certificate, rehabilitation license, permit number or other applicable certification (certification, license or permit is attached, If applicable)

No Yes:

2.4 International Wildlife Rehabilitation Council (IWRC) Certified Wildlife Rehabilitator

Applicant: Yes No

Permanent staff member(s): Yes No

2.5 Veterinarian (current license(s) attached)

Applicant

Permanent staff member(s). Name(s):

Other. Name:

License number(s):

Section 3: Activities and facilities

3.1 Applicable activities

Capture, kill, injure or harass a migratory bird

Destroy, take or disturb an egg

Exchange, give or have possession of a migratory bird, egg or nest

3.2 Activity description

Please provide a description of the types of activities that you propose to undertake (for example: rehabilitation of oiled migratory birds, care of injured and/or ill birds, surgical procedures, etc....):

<p>3.3 Facility description (provide a written description or attach a floor plan and photographs) Note: An inspection of the facility may be required before a permit can be issued.</p>
<p>Section 4: Risk management</p>
<p>4.1 Potential risks Describe the potential for further injury to the migratory birds, the potential for the spread of disease and how these risks will be addressed:</p>
<p>4.2 Euthanasia methods In the event of euthanasia of a migratory bird to prevent further suffering, you should be able to identify when euthanasia is needed and be experienced in the euthanasia technique carried out. Provide a description or attach your standard operating procedure (SOP) of the intended euthanasia process that would be conducted.</p>
<p>Section 5: Location</p>
<p>5.1 Service area or scope of response service (<input type="checkbox"/> N/A) Describe the region or area within which migratory birds can be retrieved:</p>
<p>5.2 Protected areas Is any of your service area(s) in a Migratory Bird Sanctuary or National Wildlife Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide the name(s): If yes, have you applied for a permit to conduct activities in the abovementioned protected area? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Section 6: Disposal, disposition or intended use</p>
<p>6.1 Final disposition of live migratory birds The final disposition live migratory birds and their location must be considered prior to the activity. Please check off all that may apply in the disposition of a live bird after the completion of the proposed activities:</p> <p><input type="checkbox"/> Release back into the wild. <input type="checkbox"/> If birds are deemed unsuitable for release, they will be euthanized at the facility. <input type="checkbox"/> Other. Please explain:</p> <p><input type="checkbox"/> I acknowledge that I must abide by the terms and conditions on any granted permit regarding the final disposition of live migratory birds and their location will be required in the reporting form associated with any granted permit application.</p>
<p>6.2 Final disposal or disposition of dead migratory birds</p>

Indicate the intended disposal or disposition of a dead migratory bird by checking all that apply. If not directly disposed of, describe in detail the intended activities following the death of the bird:

- Disposed of in a sanitary manner
- Taking the bird to a permitted taxidermist. Please fill out Annex 4.
- Storing it in a lab for future studies
- Sent for necropsy. Please fill out Annex 4.
- Used for other purposes. Please specify:

- I acknowledge that the final disposition or disposal of dead migratory birds and their location will be required in the reporting form associated with any granted permit application.

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Permits Officer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Biological reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Species at risk reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Previous report on file	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Documentation missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Comments:			

[Back to table of contents](#)

Part 6: Application for scientific educational purposes	
Section 1: Species	
Please list the migratory bird species (including nests and eggs) and estimated numbers that you anticipate adding to your collection, as well as from where or from whom you will be collecting them:	
Section 2: Experience	
2.1 Academic qualifications and courses taken (or see attached resume <input type="checkbox"/>)	
2.2 Member of a museum association (<input type="checkbox"/> NA): <input type="checkbox"/> No <input type="checkbox"/> Yes (name of association):	
2.3 Accredited Member of Canada's Accredited Zoos and Aquariums (CAZA) (<input type="checkbox"/> NA, I am requesting authorizations for dead collections only) <input type="checkbox"/> No <input type="checkbox"/> Yes, since (yyyy-mm-dd):	
2.4 Animal Use Protocol (AUP) and Animal Care Committee (ACC) approval documents Are being submitted with the application: <input type="checkbox"/> Yes (documents attached). ACC approval expiry date (yyyy-mm-dd): <input type="checkbox"/> To follow. I have applied and will submit documents by an anticipated approval date of (yyyy-mm-dd):	
2.5 Pedagogical Merit Of Live Animal-Based Teaching And Training (<input type="checkbox"/> NA, I am requesting authorizations for dead collections only) Is being submitted with the application: <input type="checkbox"/> Yes (documents attached). <input type="checkbox"/> To follow. I have applied and will submit documents by an anticipated approval date of (yyyy-mm-dd):	
Section 3: Activities and facilities	
3.1 Applicable activities	
<input type="checkbox"/> Capture, kill, injure or harass a migratory bird <input type="checkbox"/> Destroy, take or disturb an egg <input type="checkbox"/> Damage, destroy, remove or disturb a nest <input type="checkbox"/> Deposit bait in any place during the period beginning 14 days before the first day of the first open season after July 1 of a calendar year and ending on the last day of the last open season before July 1 of the following year <input type="checkbox"/> Exchange, give or have possession of a migratory bird, egg or nest	
3.2 Activity description	
Please provide a description of the types of activities that you propose to undertake as well as their educational value:	

3.3 Facility description (or attach facility floor plans and drawings)			
If applicable, also describe any mobile transportation units for live birds:			
Section 4: Risk management			
4.1 Risk to live migratory birds (For live collections only)			
Describe the potential risks to the migratory birds, and how these will be addressed. Your explanation should also indicate the justification for keeping the live bird captive and why alternative methods of education are insufficient.			
4.2 Veterinarian (current license(s) attached <input type="checkbox"/>)			
<input type="checkbox"/> Applicant			
<input type="checkbox"/> Permanent staff member(s). Name(s):			
<input type="checkbox"/> Other. Name:			
<input type="checkbox"/> License number:			
Section 5: Protected areas			
Is the facility or any area(s) of collection in a Migratory Bird Sanctuary or National Wildlife Area?			
<input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, provide the name(s):			
If yes, have you applied for a permit to conduct activities in the abovementioned protected area?			
<input type="checkbox"/> Yes <input type="checkbox"/> No			
For internal use only			
Date Received:			
Permits Officer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	
Biological reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Species at risk reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Previous report on file	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Documentation missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Comments:			
Back to table of contents			

Part 7: Annexes

For scientific banding purposes: please fill out the following

- Complete [Annex 1](#) if you intend to mark birds with auxiliary markers (e.g. colour bands, dye/paint, tags, electronic devices), collect biological samples (e.g. blood, feathers, swabs) and/or use other veterinary procedures.
- Complete [Annex 3 for Species at Risk](#)

For other scientific purposes (non-banding scientific, rehabilitation, educational):

please fill out the following, where applicable

- Complete [Annex 2](#) for Nominees.
- Complete [Annex 3](#) if any migratory bird is also a federally listed species at risk (extirpated, endangered or threatened) or will be affected by the activities to be conducted under the permit.
- Complete [Annex 4](#) if any activities will involve the exchange or gift of a migratory bird, egg or nest to another valid permit holder or an individual authorized to possess migratory birds, eggs or nests.

[Back to table of contents](#)

Part 8: Signature of applicant

I, Clément Chevallier (print name) and the nominees (if applicable) attest that I have the ability and knowledge to accurately identify the species I am working with and safely conduct the permitted activities applied for. I certify that:

- I am 18 years of age or older
- All information submitted in this application is accurate and has been completed to the best of my knowledge
- I will abide by the Canadian Council on Animal Care guidelines relevant to my activities
- I will not commence any activities that are the subject matter of this application before a valid permit is in my possession
- I understand that, in order to legally conduct the activities, I may need to obtain additional federal, provincial, territorial, municipal and/or other permits or authorizations

A permit may be suspended or cancelled if the person to whom it was issued has failed to comply with any condition set out in the permit.

Signature of applicant:

Date:

_____ (sign with dark ink)

_____ (yyyy-mm-dd)

For internal use only

Date Received:			
Permits Officer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Biological reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Species at risk reviewer:	Approved <input type="checkbox"/>	Refused <input type="checkbox"/>	Date:
Previous report on file	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Documentation missing	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Comments:			

[Back to table of contents](#)

Annex 1: Auxiliary markers, biological sample collection, and veterinary procedures

Please refer to the Scientific Permit Instruction Sheet Annex 1 section to ensure you provide complete answers. Multiple projects may be included in one Annex 1 form.

Name:

Most recent permit number:

Date:

Please indicate if you require permission to use auxiliary markers, collect biological samples, use other veterinary procedures for your project, and/or other collections.

- Auxiliary markers
- Biological samples
- Veterinary procedures

Collections:

- Eggs
- Found dead birds
- Kill birds

A1.1 Procedures

Describe your proposed methods (or attach an SOP) for each procedure in the space provided below.

A1.2 Minimizing risk and harm

Use of techniques should aim to minimize risk and harm to individual birds while demonstrating that the knowledge gained is justifiable. Please answer the questions below to show what alternative procedures you considered, then implemented or discarded in order to replace, reduce or refine your project and minimize potential impacts to birds. Provide justification for why alternatives were discarded.

What methods did you consider or implement to replace the use of live birds as much as possible in your study?

What strategy did you implement to reduce the number of birds used?

How have you refined your protocols to reduce pain or stress experienced by your target species?

A1.3 Training and experience

Describe your training and experience with auxiliary markers, biological sample collection and/or other veterinary procedures.

A1.4 Colour marking scheme

If you need to use colour bands, **please provide your proposed marking scheme** (e.g., BLACK over RED on left leg with federal metal band on right leg, or GREEN and federal metal band on right leg, PURPLE for cohort 2022, etc.), so that we may coordinate with other banders and the BBL if necessary.

A1.5 Authorization description table

Please complete the following table.. Use the codes from Table 2 of the Instructions Sheet to allow the BBO to issue your permit with the exact authorizations you require (the numbers represent the codes you will use in Bandit for reporting purposes). An example is provided.

Species and Capture Method	Auxiliary Markers	Biological Samples/Veterinary Procedures	TOTAL
----------------------------	-------------------	--	-------

Species	Age	Sex	Capture method	Auxiliary marker (use codes from application instructions' Table 2)	Make/model of electronic marker (mass)	Number of markers to deploy	Length of time that the marker is intended to stay on the bird (in days or months)	Biological sample/ veterinary procedure	Location on bird	Size of collection	Number of samples collected or procedures performed	Sample size
DUNL	AHY	M & F	Mist nets	1. 01A 2. 69 3. 81J	1. N/A 2. N/A 3. Lotek NTQB-3-2 (0.67 g)	1. 50 2. 50 3. 50		1. Blood 2. Feathers 3. Cloacal swab	1. Brachial vein 2. Breast 3. Cloaca	1. 75 µL 2. 2 feathers 3. 1 swab	1. 50 2. 50 3. 50	50

	Back to table of contents											

<p>2. Purpose of project activities involving SAR (as per SARA section 73 (2)). Please check the primary purpose:</p> <p>a) <input checked="" type="checkbox"/> Scientific research relating to the conservation of the species.</p> <p>b) <input type="checkbox"/> The activity benefits the species or is required to enhance its chance of survival in the wild.</p> <p>c) <input type="checkbox"/> Affecting the species is incidental to the carrying out of the activity.</p>
<p>3. Qualified persons</p> <p>Demonstrate that the activities will be undertaken by qualified persons: All researchers are experienced in conducting bird surveys by drone or helicopter and practice the safest, most respectful distance from colonies while doing so</p>
<p>4. Alternatives</p> <p>Paragraph 73(3)(a) of SARA requires that all reasonable alternatives to the activity that would reduce the impact on the species have been considered and that the best solution has been adopted.</p> <p>Please demonstrate that all reasonable alternatives to the proposed activity that would reduce the impact on the species have been considered, including the “do nothing” option: <u>The only alternative would be to not visit Naujavaat and forego the survey (do nothing).</u></p> <p>Explain why you believe that your proposed approach is the best solution: We must conduct this research to determine if the endangered Ivory Gull is still present in the MBS. There has not been a sighting since 2019, therefore updated research is essential to plan for conservation strategies and monitoring in the MBS in order to do our part in protecting the species.</p>
<p>5. Mitigation measures</p> <p>Please demonstrate that all feasible measures will be taken to minimize the impact of the activity on the species or its critical habitat or the residences of its individuals (as per paragraph 73(3)(b) of SARA): There will be a safe distance maintained from the birds while conducting helicopter and drone surveys. Researchers will be looking for any signs of flushing or disturbance, and if so, will alert the pilot to increase distance from the birds. There will be no handling of birds and likely no on-foot surveys. When cameras and ARUs are installed, the crew will keep a wide distance from any Ivory Gulls or nests, and ensure they are spending minimal time setting up.</p>
<p>6. Effect on survival or recovery</p> <p>Describe any impacts that the activity may have on the listed wildlife species, its critical habitat or the residences of its individuals, the possible effects of those impacts, the significance of those effects, and why you believe that your proposed activities will not jeopardize the survival or recovery of the species (as per paragraph 73(3)(c) of SARA): There may be very short-term disturbance during ARU/camera set up but the extent should not impact the birds in terms of their survival or recovery as we do not anticipate spending more than a few minutes during installation.</p>
<p>Back to table of contents</p>

Annex 5: Additional project and activity information**1.1 Project title****1.2 Project objectives**

Please outline the objectives of the project proposed and the contribution of its results to society's understanding of migratory birds, ecosystem health or human well-being. Indicate whether the question in this study has been answered before.

1.3 Project summary

Provide a plain language summary of the project

1.4 Project description

Briefly describe how you will achieve the project's objectives, with a summary of how birds will be captured, handled, marked, and sampled.

1.5 Project justification

Provide justification for the need to work with migratory birds, and a rationale for the choice of species and sample size, and the sex and age classes to be affected. For live education collections, please indicate why alternative methods are insufficient.

1.6 Applicant qualifications (or resume or CV attached) Please describe your experience and qualifications in relation to the proposed activities in your application (include technical qualifications, academic qualifications, publication history, field training, internships and trainers or mentors).

1.7 Injuries and mortalities

Use the checkboxes to indicate which of the following services you are able to provide in case of injury to migratory bird:

Wildlife first aid
 Transport to a permitted rehabilitation center.
 Name:
 Email:
 Location:
 Permit number (if known):

Euthanasia or humane killing Method:

 Not applicable (for dead migratory birds and specimens)

1.8 Collaborating permittees (for Banding applicants only)
 Please provide the names, bird banding permit numbers, and a list of authorizations for each collaborator who will be undertaking project activities without supervision. Authorizations are listed in Table 1 of the instructions.

Name	Permit number	Authorizations

1.9 Geographic scope
 I intend to undertake activities in the following provinces and territories:
 AB BC MB NB NL NS NT NU ON PE QC SK YT

Please note that you may be asked to provide specific locations for intended activities for which you are submitting an application, as required. You may require additional permits or permissions to undertake activities on any public, private or indigenous lands.

1.10 Address, UTM, geolocation or proximity to nearest identifiable town or city
 Please provide the location(s) where the activities will be conducted:

If migratory birds are to be held in captivity, provide the address of the facility where they will be held:

If birds are to be released in a location other than at the point of capture, provide the location of release:

1.11 Project duration (anticipated)

Start date:

End date:

[Back to table of contents](#)