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Environment Canada's input to the Nunavut Planning Commission regarding

Key Habitat Sites for
MIGRATORY BIRDS
in the Nunavut Settlement Area

April 2014



Canada 

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INTRODUCTION

Background

More than 100 species of migratory birds are known to nest in the Canadian Arctic (Birds of North America 2010). Of these, over 30 species are entirely dependent on the Canadian Arctic for production of young (i.e. 100% of the nesting habitat occurs in the north). The birds' survival and reproduction in the north requires a high level of feeding activity during a very short window of time. From their arrival in the Arctic during the spring until their departure at the end of summer, they must be able to make up for stored energy losses incurred during migration, gather enough food to support egg production, brooding and chick rearing, and then build up adequate energy stores for both chick and adult to commence migration to their wintering grounds.

Many Arctic nesting birds are colonial, and therefore during the time that they are in the Arctic they occur in very high densities at geographically distinct sites. The high concentrations of birds at discrete sites, combined with high-energy demands during this life cycle stage and sensitivity to disturbance of birds during nesting and chick rearing, means that conservation of Arctic migratory bird key habitat has significant implications for the long-term survival of a number of species.

The Nunavut Land Use Plan's primary objective is to guide and direct resource use and development in the Nunavut Settlement Area (Nunavut Planning Commission 2012). In its submission to the Nunavut Planning Commission, Environment Canada's objective is to support evidence-based land use decisions by providing defensible ecological data and rigorous analysis, based on published literature and expert opinion. This report describes Key Habitat Sites for migratory birds and species at risk in Nunavut, and recommends appropriate limitations on human activities at these sites.

Environment Canada's Map Book Project for the Nunavut Land Use Plan

The Environment Canada Map Book contains detailed recommendations for site-specific limitations and mitigations of human activities in Key Migratory Bird Habitat Sites in the Nunavut Settlement Area. The limitations and measures are tailored to address the most relevant anthropogenic threats. The tailored nature of the measures ensures that limitations and mitigations are no more and no less restrictive than is necessary to ensure the continued integrity of the national population of the bird species in question.

The entry for each Key Habitat Site contains:

1. a description of the site;
2. a conservation category for the site, based on established population and species status criteria;
3. which group of birds is most important at the site;
4. current or potential human activities in each site, and the threat that they may cause to the birds, and;
5. recommended activity limitations or setbacks necessary to conserve the population at the site.

These measures, if adopted into the Nunavut Land Use Plan, would be a tool with legal force to help ensure that human activities do not pose unacceptable risk to the continued ecological 'function' of those sites for migratory birds or species at risk.

KEY HABITAT SITE IDENTIFICATION, CONSERVATION RANKING, AND BOUNDARY DELINEATION

Key Habitat Site Identification and Conservation Ranking

A workshop of Environment Canada arctic migratory birds specialists convened on December 9, 2009 in Iqaluit, Nunavut. The primary objectives of the workshop were to:

1. Update and consolidate the most recent information on migratory bird habitat in Nunavut;
2. Identify national criteria for categorizing Key Habitat Sites as highly risk intolerant and moderately risk intolerant, and;
3. Further assess the key sites to identify those which would be considered highly risk intolerant, and moderately risk intolerant based on the population level importance of those sites to one or more species of migratory bird.

Two key references (Latour et al. 2008 and Mallory et al. 2004) and survey data formed the basis of the identification and ranking exercise. Sixty-seven Key Habitat Sites were identified, including 44 Highly Risk Intolerant sites, and 16 Moderately Risk Intolerant sites (Figure 1). The sites were categorized based on the following criteria:

'Red' sites (Highly Risk Intolerant)

- Are legislated protected areas under the Migratory Birds Convention Act or the Canada Wildlife Act; AND/OR
- Support a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate; AND/OR
- Host more than 5% of a national population of a species exhibiting population declines as of 2005; AND/OR
- Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the Species at Risk Act

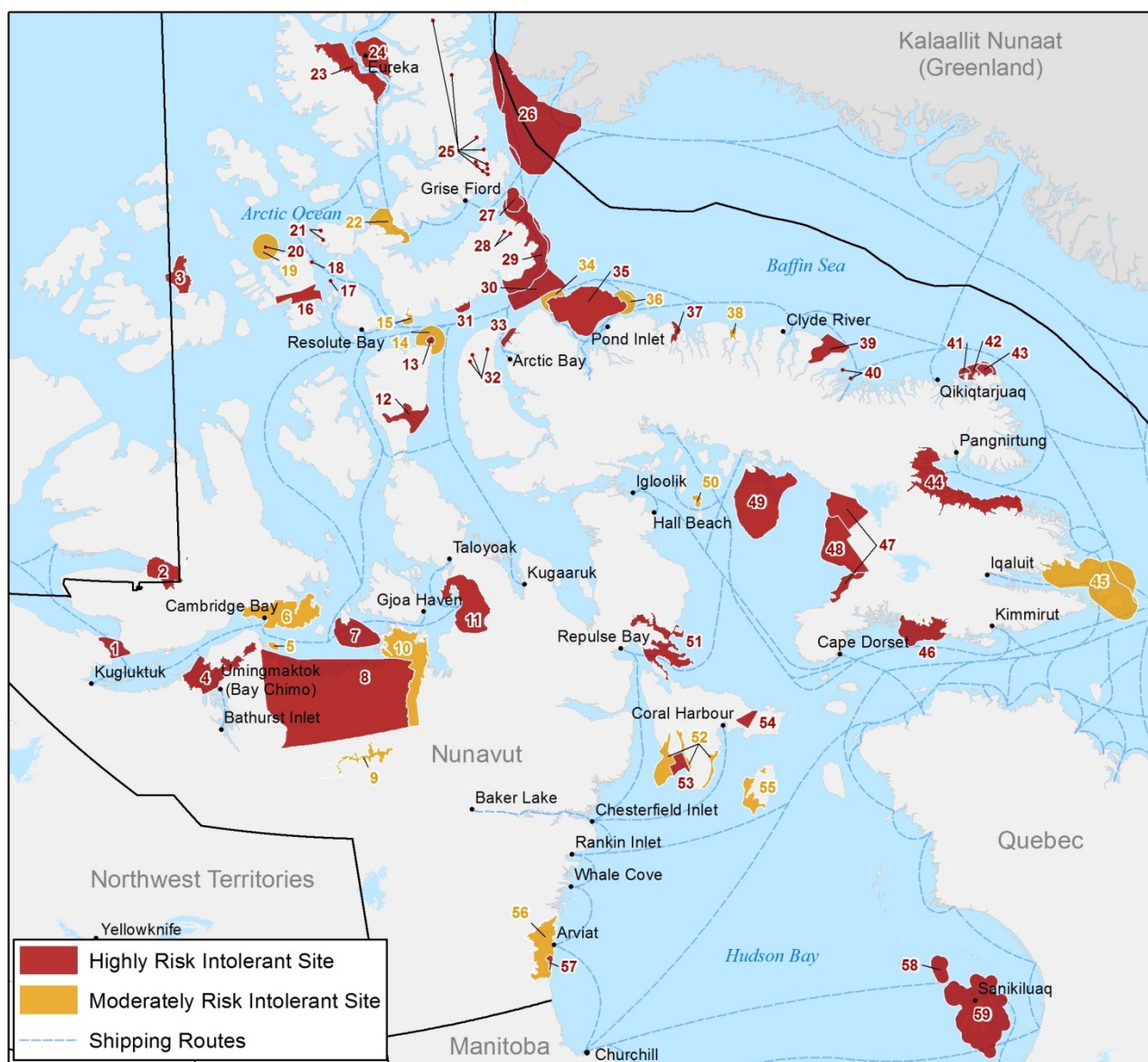
'Yellow' sites (Moderately Risk Intolerant)

- Contain 5 - 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005; OR
- Contain 1- 5% of the national population of one or more migratory bird species that are exhibiting population declines as of 2005

A third category (Low Risk Intolerant; 'Beige') was established to account for sites that contain a smaller proportion of the national population of a migratory bird species but are likely to be important for the survival of the Canadian population of the species. Activity limitations and mitigation measures are not identified for the seven Low Risk Intolerant sites. Additionally, an estimate was made by CWS experts of the percentage loss that could be tolerated by populations of several harvested migratory bird species due to a human-caused incident (e.g. oil spill, habitat alteration) without causing population declines, after accounting for hunting-caused mortality and natural losses to the population (Table 1). If a given site supported more than the percentage of 'sustainable loss' that a species could tolerate, it was judged to be highly intolerant to risk from human activities.

Table 1. Estimated sustainable loss for populations of key migratory bird species in Nunavut, estimated harvesting rate, and difference between the two rates that represent the proportion that could be lost due to anthropogenic activity that would not result in population loss.

Species	Estimated Sustainable Loss (annual loss %)	Estimated Actual Loss (annual loss %)	Difference Remaining for No Net Loss (%)
Thick-billed Murre	6 – 7	2-3	4 – 5
Greater snow goose	15	6	9
Lesser snow goose	15	3	12
White-fronted goose	<15	5	<10
Ross's goose	15	3	12
Common eider	8 – 9	7	1 – 2



Highly Risk Intolerant Sites		
Abbaalik and Ijutuk Islands	40	31
Akpait NWA *	43	25
Baillarge Bay	33	2
Bathurst / Elu Inlets	4	1
Belcher Islands	59	46
Buchan Gulf	37	57
Bylot Island MBS * outside of Similik NP *	35	17
Cape Searle / Reid bay (outside of NWA's *)	42	39
Cheyne Islands	18	27
Creswell Bay	12	7
Dewey Soper MBS *	48	26
East Axel Heiberg Island	23	32
East Bay MBS *	54	16
Eastern Devon Island	28	13
Eastern Jones Sound	29	41
Eastern Lancaster Sound	30	8
Fosheim Peninsula	24	11
Foxe Basin Islands	49	3
Frozen Strait	51	20
Great Plain of the Koukdjuak (outside of Dewey Soper MBS *)	47	58
Grinnell Peninsula	21	44
Harry Gibbons MBS *	53	

Moderately Risk Intolerant Sites	
Adelaide Peninsula	10
Boas River (Outside of Harry Gibbons MBS *)	52
Cape Graham Moore	36
Cape Hay	34
Cape Liddon	15
Coats Island Lowlands	55
Frobisher Bay	45
Hell Gate and Cardigan Strait	22
McConnell River outside of MBS *	56
Melbourne Island	5
Middle Back River	9
North Spicer Island	50
Prince Leopold Island outside of MBS *	14
Scott Inlet	38
Seymour Island (outside of MBS *)	19
South Eastern Victoria Island	6

* MBS = Migratory Bird Sanctuary
NP = National Park
NWA = National Wildlife Area

Figure 1. Map of key habitat sites for migratory birds.

Key Habitat Site Boundary Delineation

The majority of Key Habitat Sites for migratory birds in Nunavut are described in Latour et al. (2008) and Mallory and Fontaine (2004). In December 2009, boundaries of sites identified since 2008 were delineated on 1:250 000 scale map sheets and later digitized and added to the sites from Latour et al. (2008) and Mallory and Fontaine (2004). Accuracy of delineation of this updated file of Key Habitat Sites was suitable only for use on small scale 1: 2,000,000 maps.

Since that time, Key Habitat Sites have been re-digitized to make them suitable for use on large scale maps (1:50 000 or less). Where possible, the boundaries of Key Habitat Sites were aligned to match natural features (e.g. coastlines, bodies of water, wetlands, elevation contours) relevant to the migratory bird species occupying the sites. Where colonial nesting species existed, a feeding buffer or setback was applied from the nesting areas(based on published literature or expert opinion, depending on the species; Table 2).

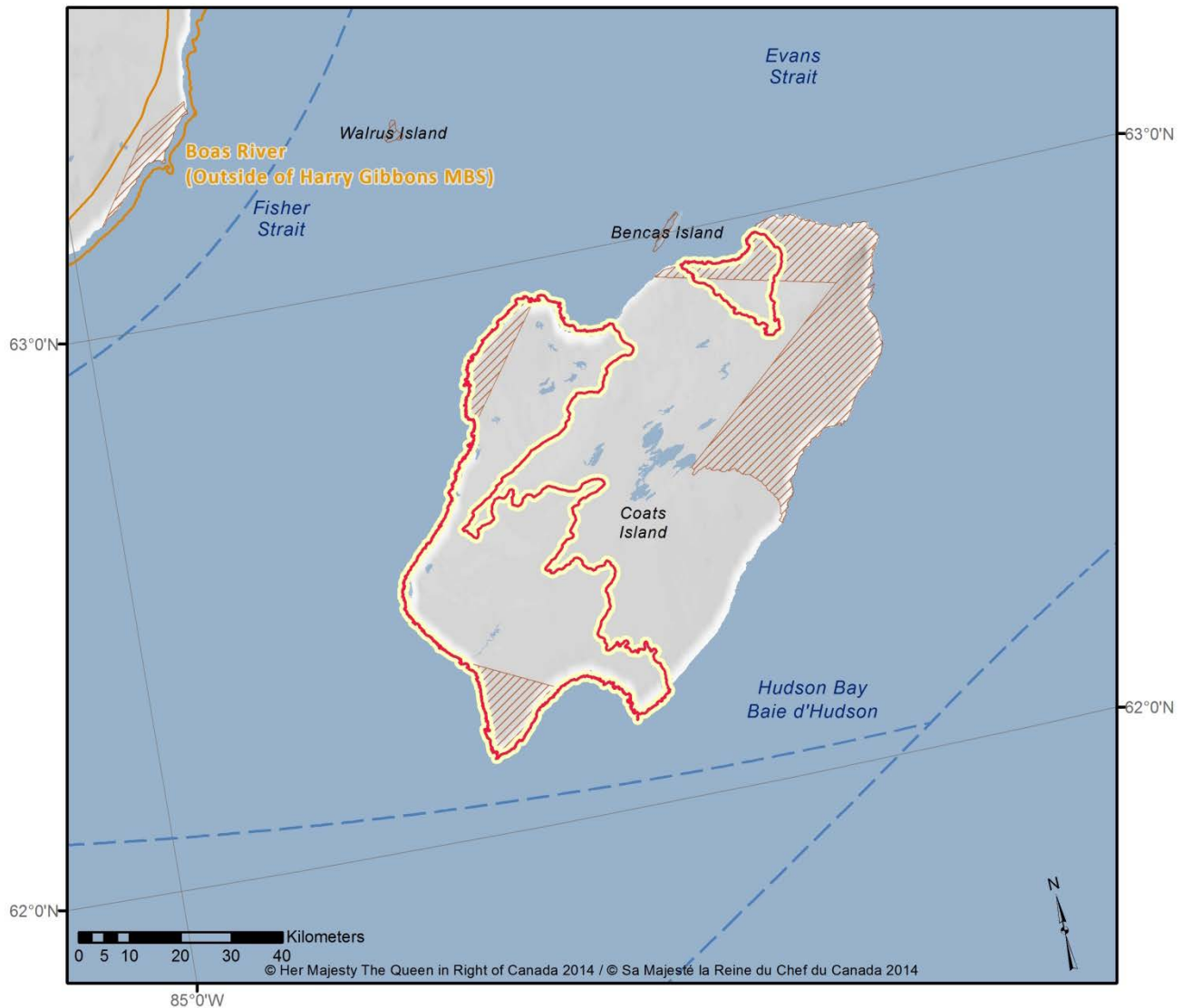
Table 2. Feeding buffers applied from colonial bird nesting sites to delineate Key Habitat Site boundaries for sites occupied by colonial nesting species.

Bird Species	Buffer Distance (km)
Black-legged Kittiwake and Thick-billed Murre	30
Northern Fulmar, Common Eider and Black Guillemot	15
Ivory Gull	2
Other	1

In some cases, the boundary revisions resulted in a smaller Key Habitat Site; in other cases, the site was enlarged to include important feeding areas. Boundaries of protected areas (Migratory Bird Sanctuaries and National Wildlife Areas), however, are described by legislation and therefore remained unchanged.

SITE NAME:

Coats Island Lowlands

**Category:**

Moderately risk intolerant

Qualifying criterion:

- Contains 1-5% of the national population of one or more migratory bird species that are exhibiting population declines as of 2005 (Black-bellied Plover, Ruddy Turnstone, Semipalmated Sandpiper)
- Hosts 5%-10% of a national population of a species NOT exhibiting population declines as of 2005 (Dunlin, Purple Sandpiper)

Feature bird group:

Shorebird

Site details:

- Species at risk: Peregrine Falcon (Special Concern), Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area; International Biological Program Site

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping, cruise ship tourism, biological research, harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

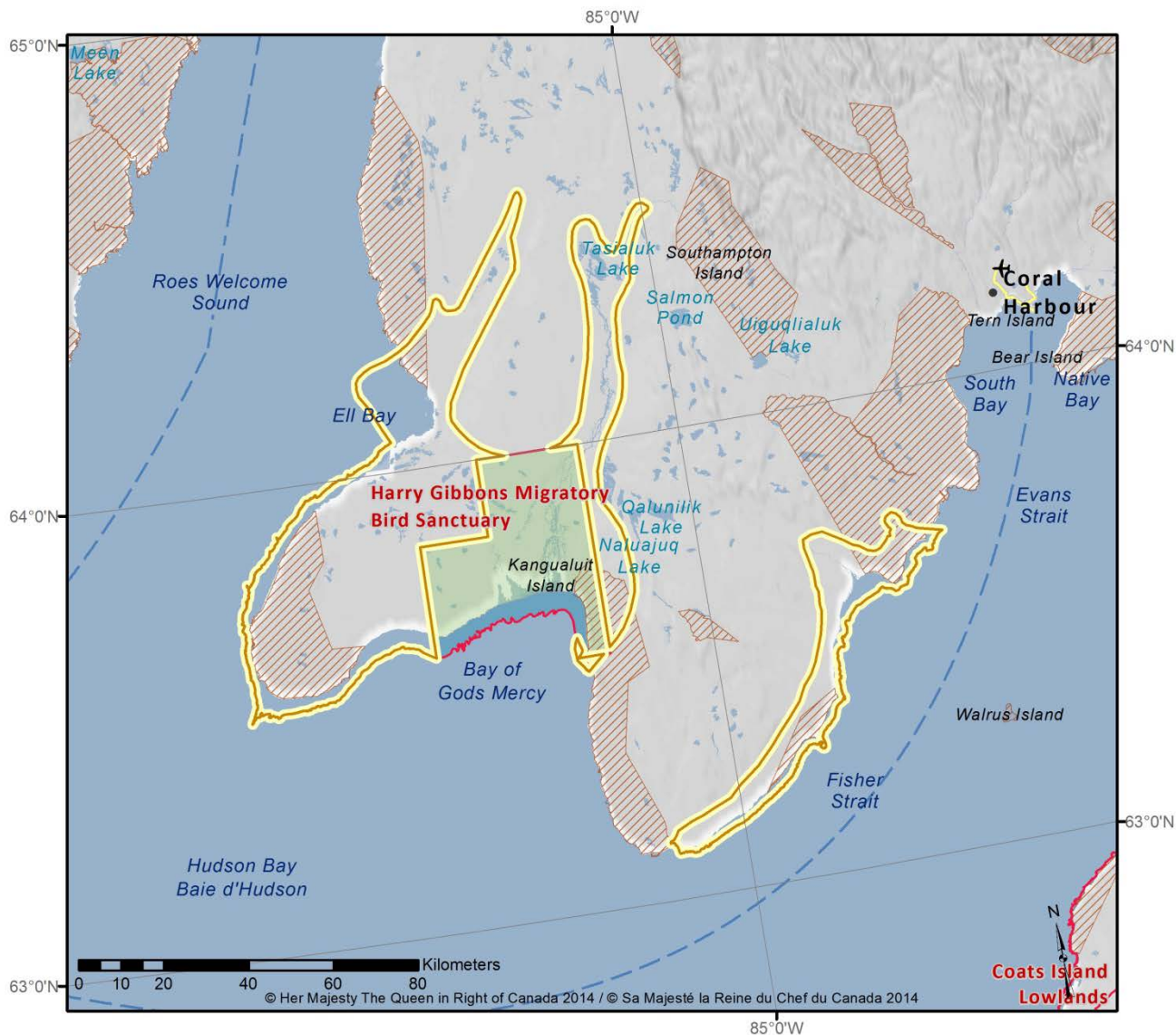
None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Boas River (outside of Harry Gibbons MBS)



Category:

Moderately risk intolerant

Qualifying criterion:

Contains 5%-10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Lesser Snow Goose)

Feature bird group:

- Inland waterfowl (Lesser Snow Goose)
- Also important at site: coastal waterfowl (Atlantic Brant), marine shorebird (Red Phalarope)

Site details:

- Non-binding designations: Important Bird Area
- Species at risk: Red Knot *ssp. rufa* (Endangered); Polar bear (Special Concern)

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

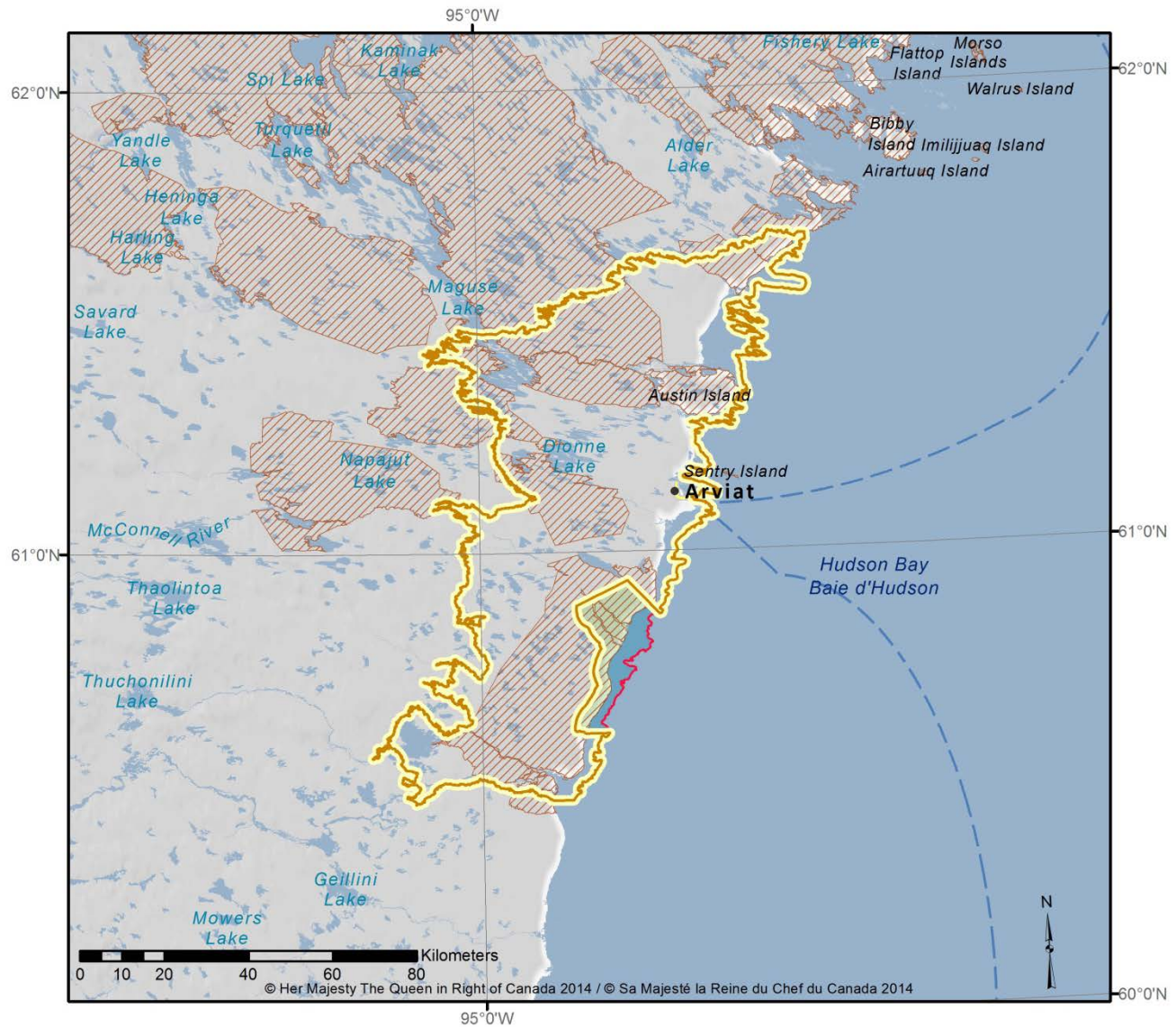
Recommended restrictions on activities:

None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

McConnell River (outside of MBS)**Category:**

Moderately risk intolerant

Qualifying criterion:

Contains 5% to 10% of the national population of one or more migratory bird species that are NOT exhibiting declines as of 2005 (Ross' Goose)

Feature bird group:

- Waterfowl (Ross' Goose)
- Also important at site: Shorebird (e.g. Semipalmated Sandpiper)

Site details:

- Non-binding designations: Ramsar Wetland of International Importance; Important Bird Area
- Species at risk: Short-eared Owl (Special Concern); Polar bear (Special Concern)

Current human activities at site:

Cruise ship tourism; mineral Claim (iron ore); contaminated site remediation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Cruise ship tourism; mineral exploration; contaminated site remediation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; increased physical, auditory, and visual disturbance related to mining exploration activity; increased auditory and visual disturbance related to a higher volume of air traffic to support remediation activities

Potential consequences for bird populations:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; increased physical, auditory, and visual disturbance related to mining exploration activity; increased auditory and visual disturbance related to a higher volume of air traffic to support remediation activities

Recommended restrictions on activities:

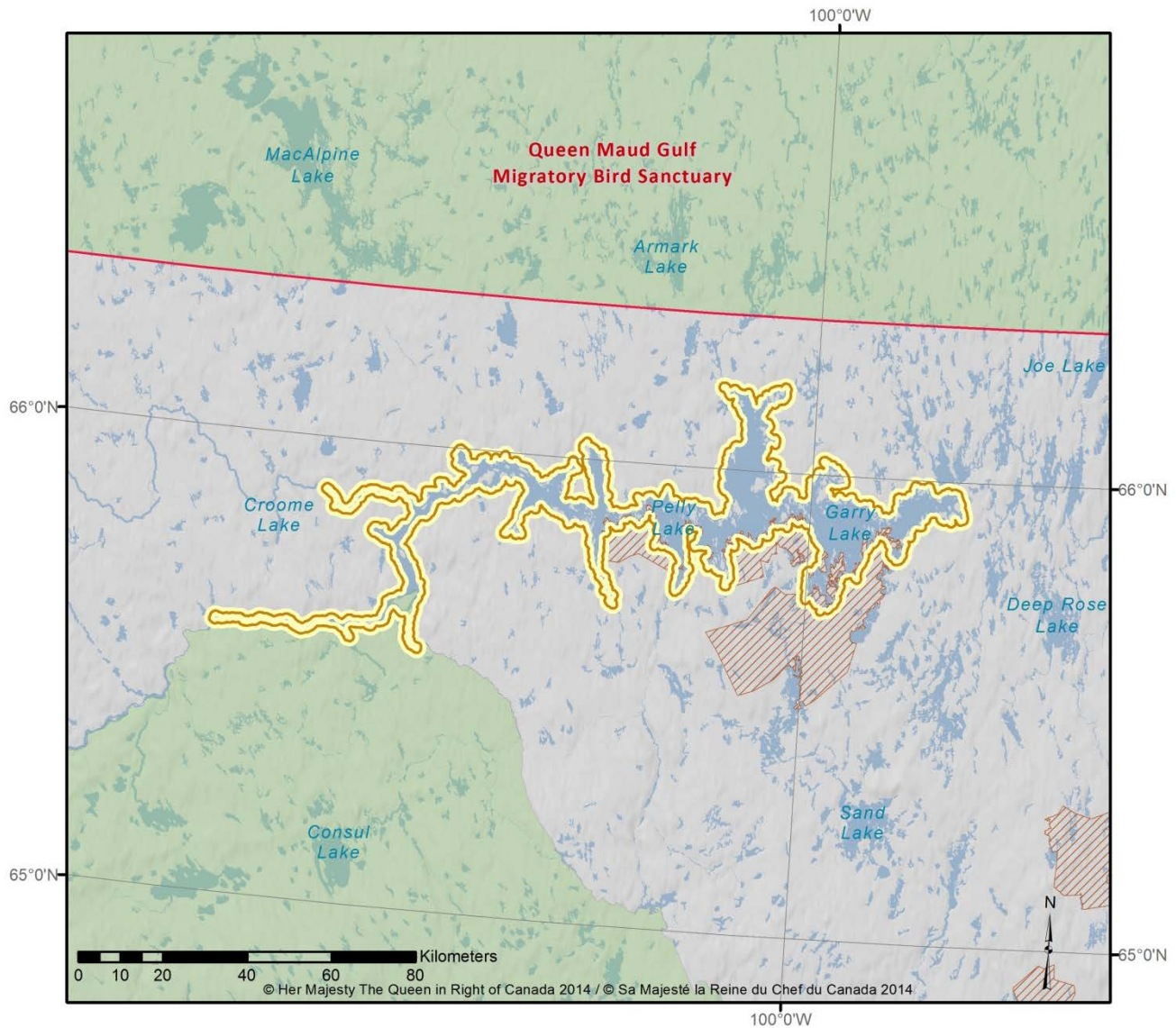
None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Middle Back River

**Category:**

Moderately risk intolerant

Qualifying criterion:

Contains 5%-10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Canada Goose, subspecies *maximus*)

Feature bird group:

Waterfowl

Site details:

- Species at risk: Wolverine (Special Concern), Grizzly Bear (Special Concern)
- Non-binding designations: None

Current human activities at site:

Mineral claims (uranium); harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Mineral exploration; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Increased auditory and visual disturbance related to a higher volume of air and ground traffic to support mineral exploration; increased physical, auditory, visual disturbance related to mining exploration activity

Potential consequences for bird populations:

Disturbance-related disruption of bird feeding, incubation, brood-rearing, resulting in loss of eggs and/or young

Recommended restrictions on activities:

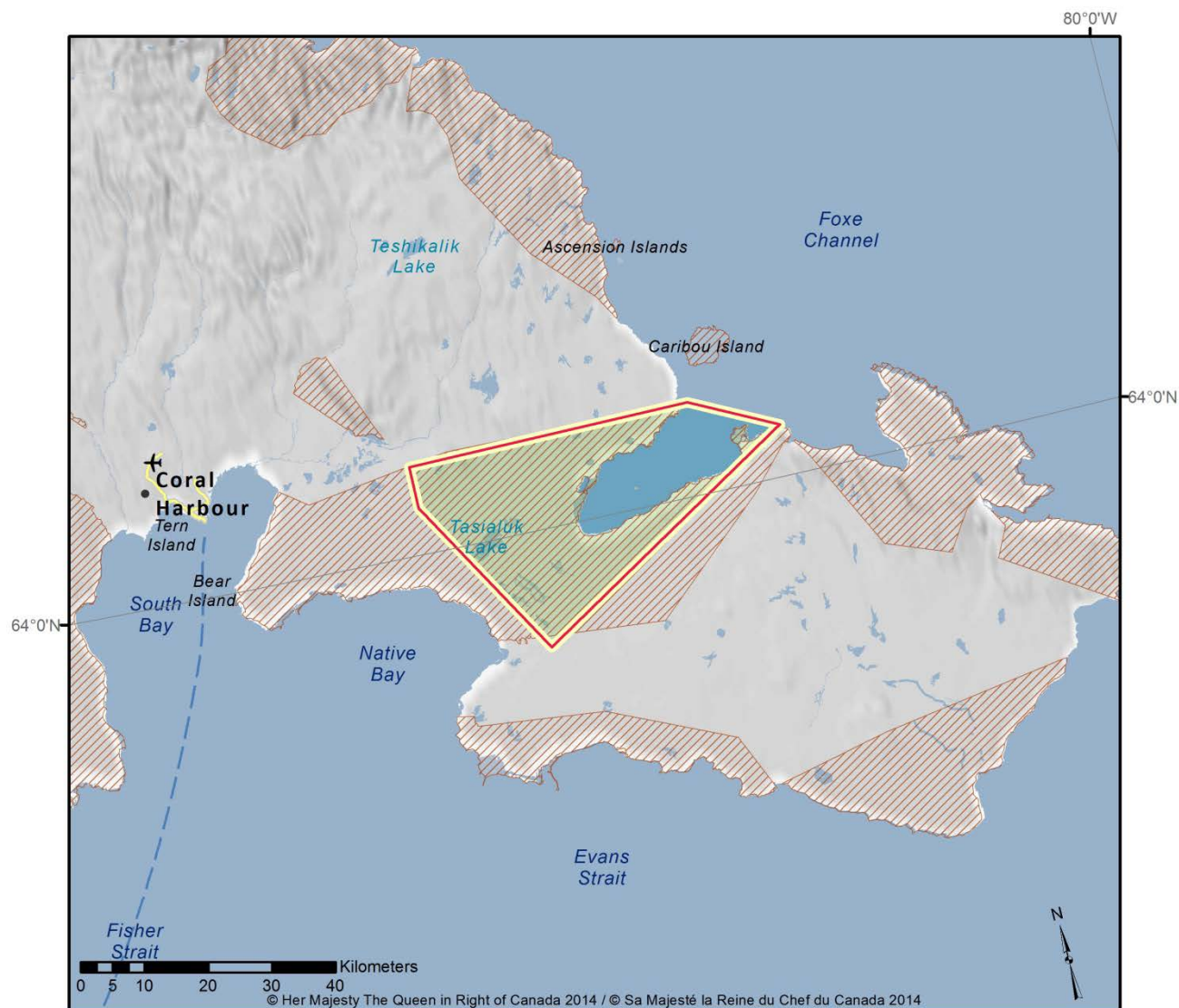
None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

East Bay Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)

Feature bird group:

- Seaduck (Common Eider)
- Also important at site: Waterfowl (Lesser Snow Goose), Seabird (Black Guillemot), shorebird (e.g. Red Phalarope)

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designation: Important Bird Area

Current human activities at site:

Biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Research; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Increased human disturbance related to permitted activities; increasing human disturbance related to cruise ship tourism

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

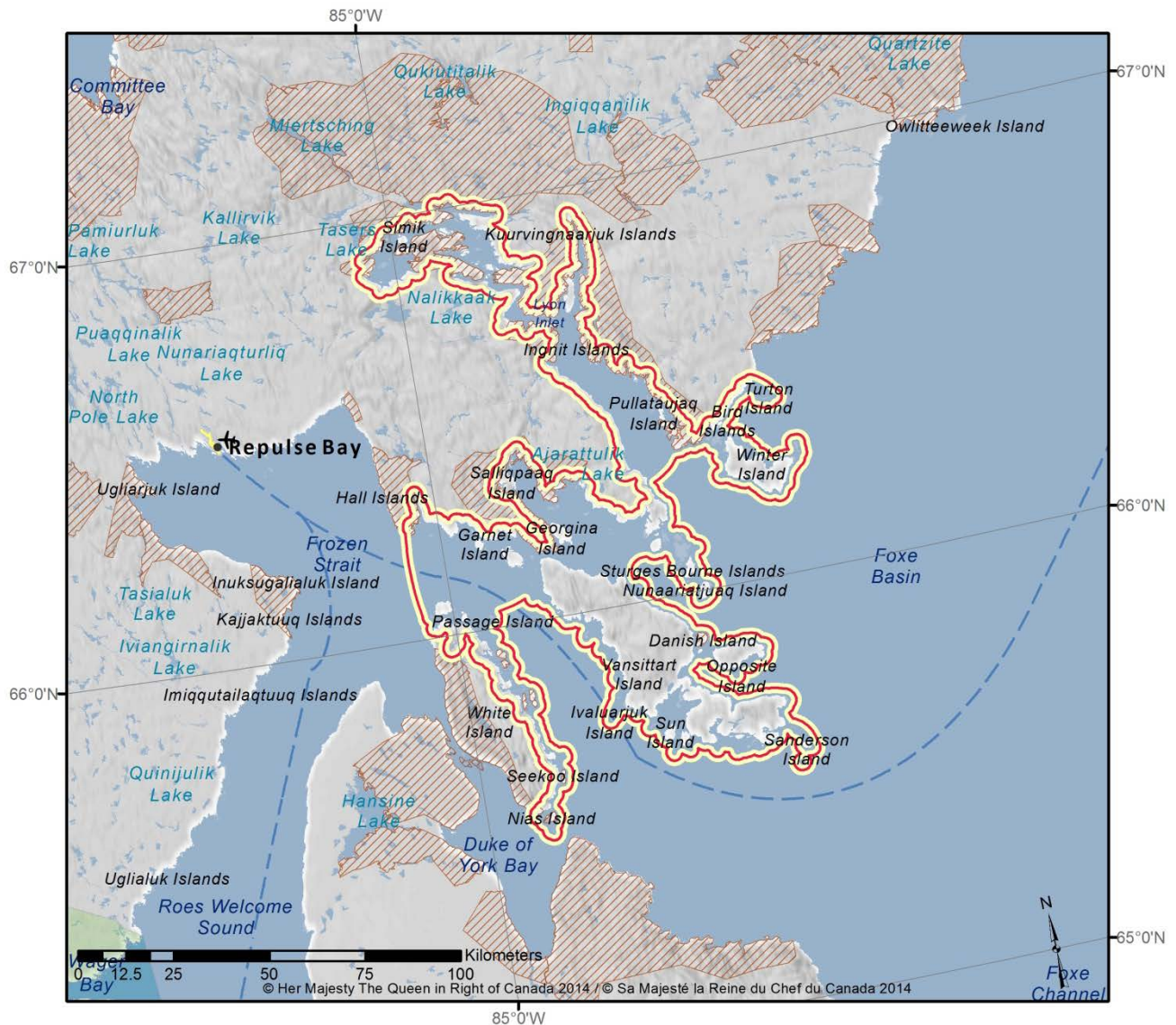
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Frozen Strait



Category:

Highly risk intolerant

Qualifying criterion:

Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)

Feature bird group:

Seaduck

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: none

Current human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

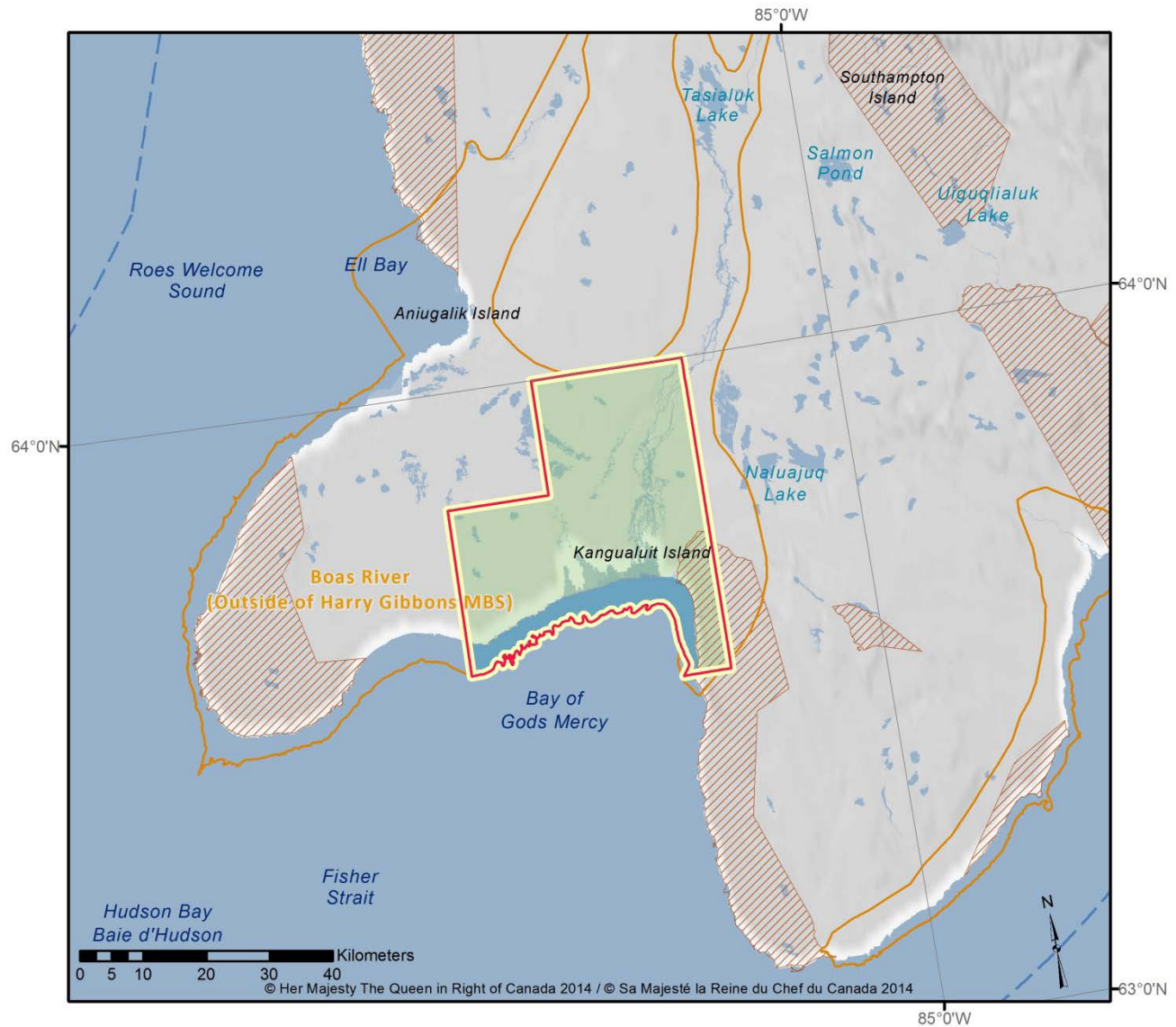
Any activity that may cause significant alteration to migratory bird habitat, or which causes long-term or repeated disturbance to migratory birds, nests, or eggs.

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Harry Gibbons Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Hosts more than 10% of a national population of one or more migratory bird species (Lesser Snow Goose)

Feature bird group:

- Inland waterfowl (Lesser Snow Goose)
- Also important at site: Shorebird (e.g. Red Phalarope)

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: International Biological Programme Site; Important Bird Area

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

None

Potential consequences for bird populations:

None

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

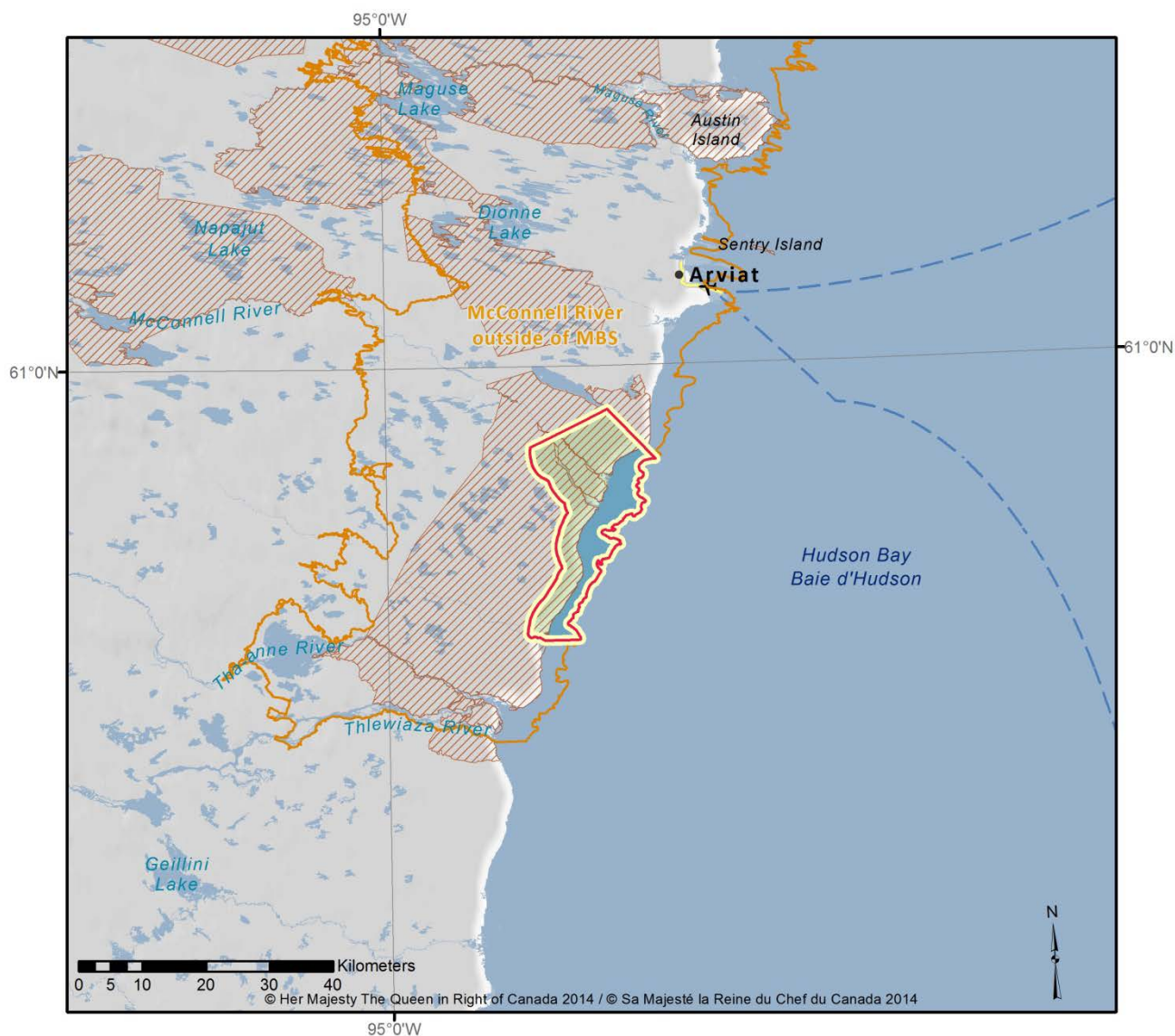
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

McConnell River Migratory Bird Sanctuary

**Category:**

Highly risk intolerant

Qualifying criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Contains 5 – 10% of the national population of a species NOT exhibiting declines as of 2005 (Ross' Goose)

Feature bird group:

Waterfowl

Site details:

- Species at risk: Polar Bear (Special Concern), Short-eared Owl (Special Concern)
- Non-binding designations: Ramsar Wetland of International Importance; International Biological Programme Site; Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

Cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

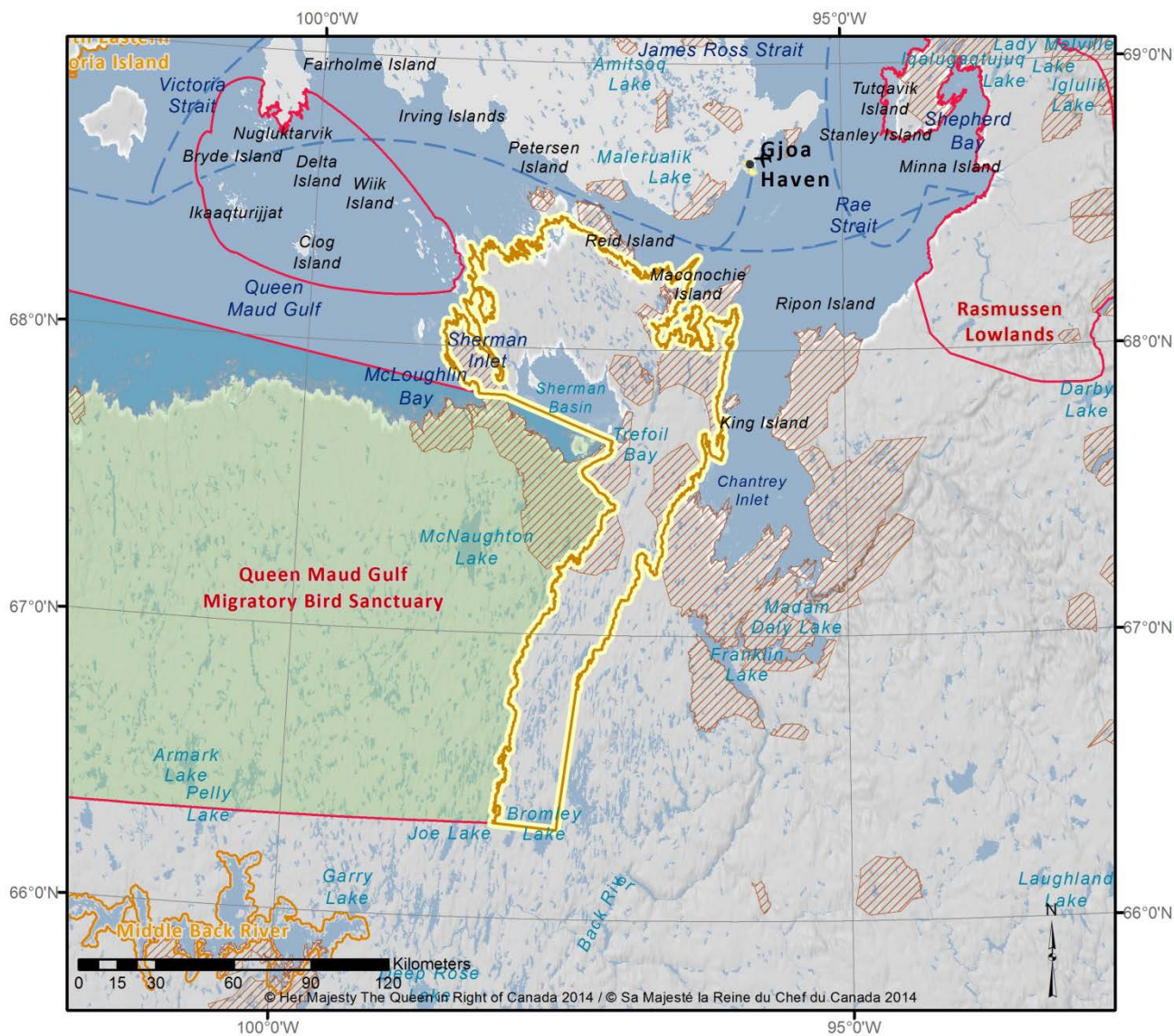
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada - Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Adelaide Peninsula



Category:

Moderately risk intolerant

Qualifying Criterion:

- Contains 1-5% of the national population of one or more migratory bird species that ARE exhibiting population declines as of 2005 (Long-tailed Duck, King Eider)
- Contains 5%-10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Canada Goose, Lesser Snow Goose)

Feature bird group:

- Inland Seaduck
- Waterfowl

Site details:

- Species at risk: Wolverine (Special Concern), Grizzly Bear (Special Concern)
- Non-binding designations: none

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restriction son activities:

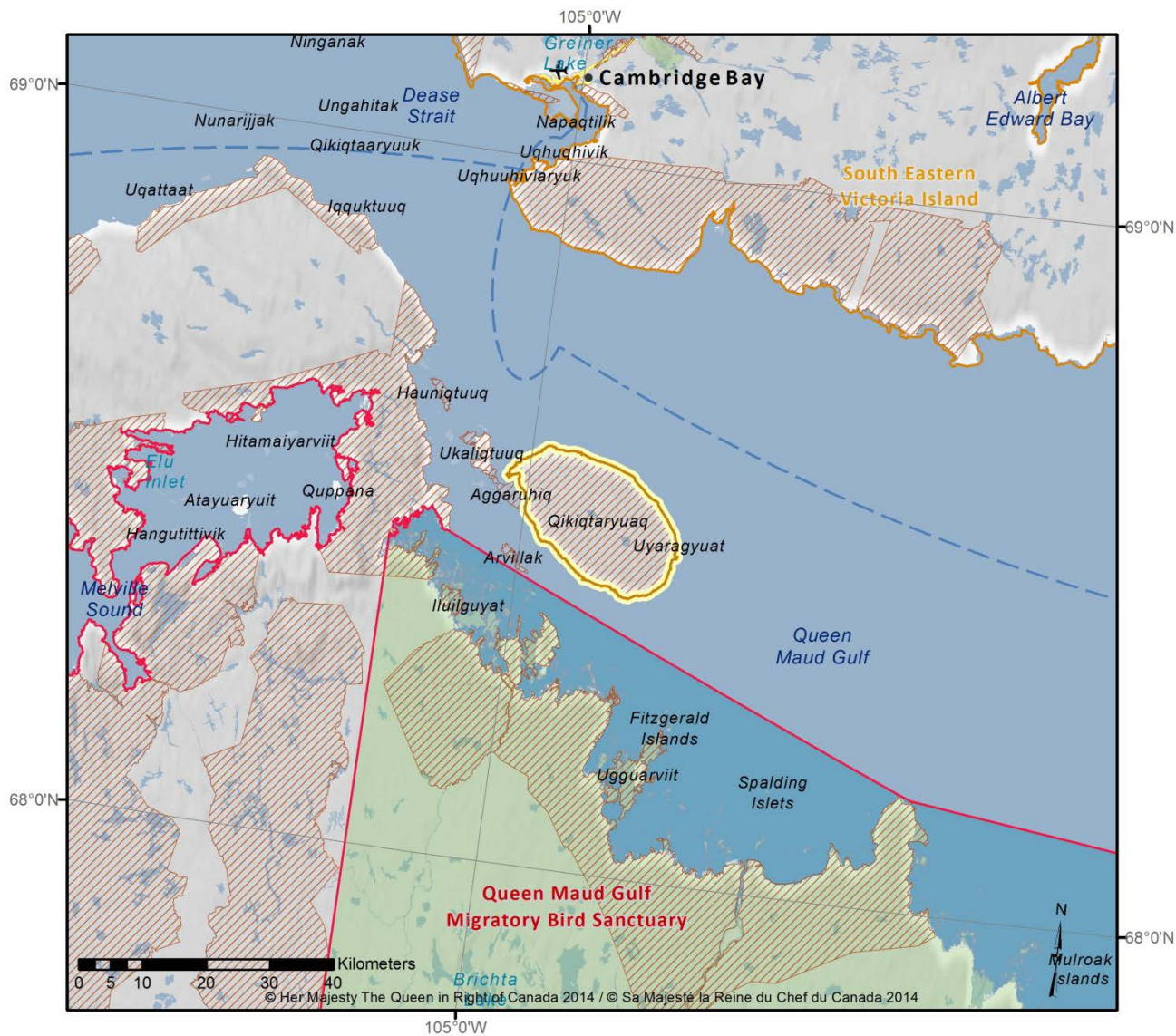
None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Melbourne Island



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 1-5% of the national population of one or more migratory bird species that ARE exhibiting population declines as of 2005 (Red Phalarope)

Feature bird group:

Shorebird

Site details:

- Species at risk: Wolverine (Special Concern)
- Non-binding designations: none

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restriction on activities:

None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

Map of Cambridge Bay and surrounding areas in Nunavut, Canada. The map shows the coastline of Cambridge Bay, with various lakes and bays labeled. Key locations include Cambridge Bay, Uummannaarsuk, and several smaller settlements. The map also shows the surrounding water bodies, including Dease Strait, Victoria Strait, and Melville Sound. A scale bar indicates distances up to 80 kilometers. The map is dated 2014 and includes copyright information for the Government of Canada.

Moderately risk intolerant

- Contains 5%-10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Canada Goose, King Eider)
- Contains 1-5% of the national population of one or more migratory bird species that ARE exhibiting populations declines as of 2005 (Long-tailed Duck)

Feature bird group:

- Waterfowl
- Inland Seaduck

Site details:

- Species at risk: Red Knot *ssp. rufa* (Endangered); Short-eared Owl (Special Concern; Polar Bear (Special Concern)
- Non-binding designations: none

Current human activities at site:

Shipping; municipality; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; municipality; contaminated site remediation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; increased auditory and visual disturbance related to a higher volume of air traffic to support municipality and remediation activities; ground traffic related to growth of municipality

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds

Recommended restrictions on activities:

None

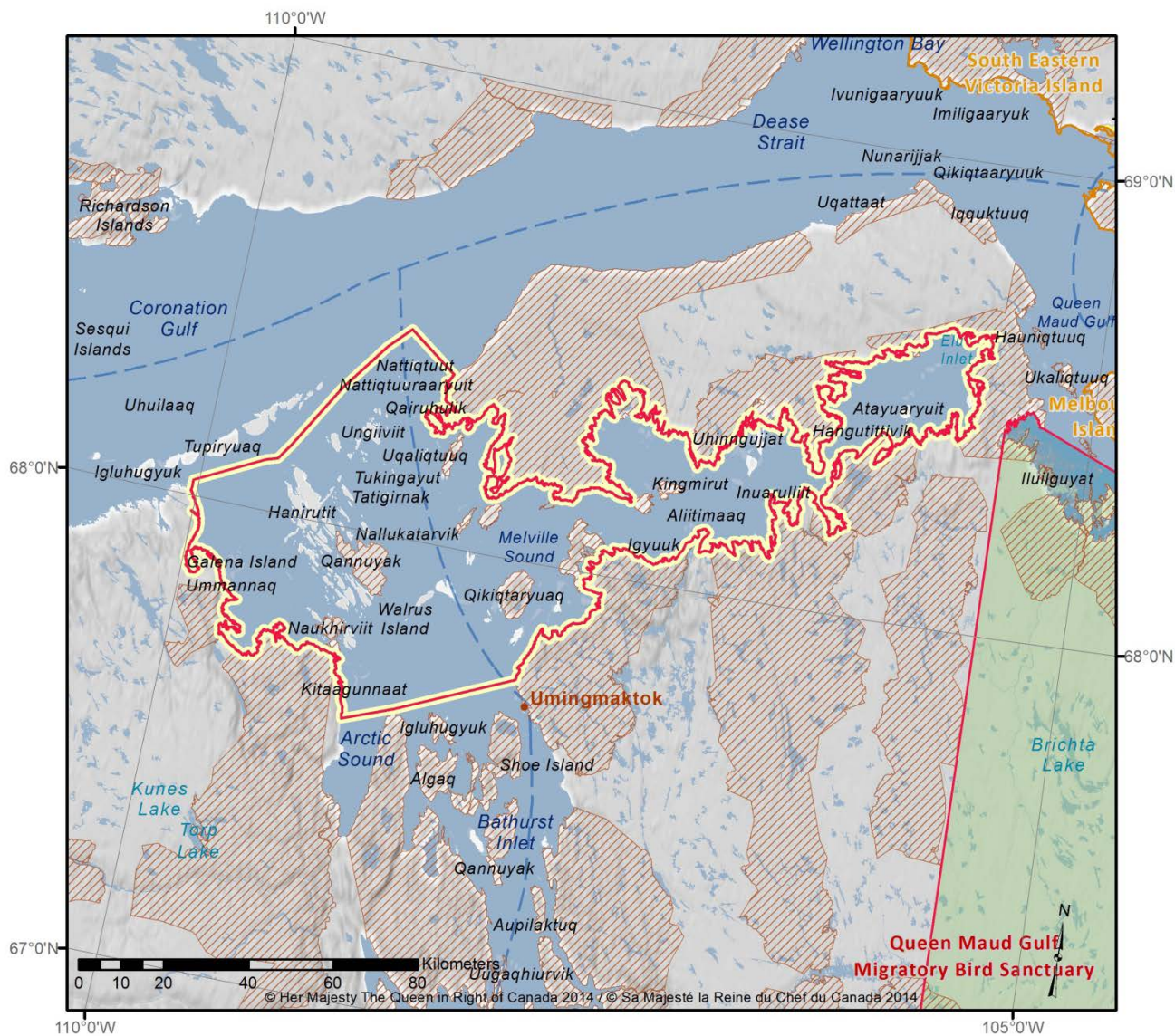
Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

The Nunavut Land Use Plan does not apply within municipal boundaries.

SITE NAME:

Bathurst and Elu Inlets



Category:

Highly risk intolerant

Qualifying Criterion:

- Hosts more than 10% of a national population of one or more migratory bird species (Common Eider, Thayer's Gull)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' than the population can tolerate (Common Eider)

Feature bird group:

Seaduck, Seabird

Site details:

- Species at risk: Polar Bear (special concern), Peregrine Falcon (special concern)
- Non-binding designations: Important Bird Area; International Biological Programme Site

Current human activities at site:

Shipping; mining lease; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; mine construction and mineral production; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activity:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships; potential from dredging of channel to support large ship access; increase in air traffic disturbance related to mining activities; human disturbance from mining activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; potential for direct or indirect impact on seaduck food sources; potential for bird-aircraft collisions originating from air traffic at low altitude or from flying too close to concentration of birds; 2ii. Disruption of feeding and nesting birds resulting in loss of eggs and/or young

Recommended restrictions on activities:

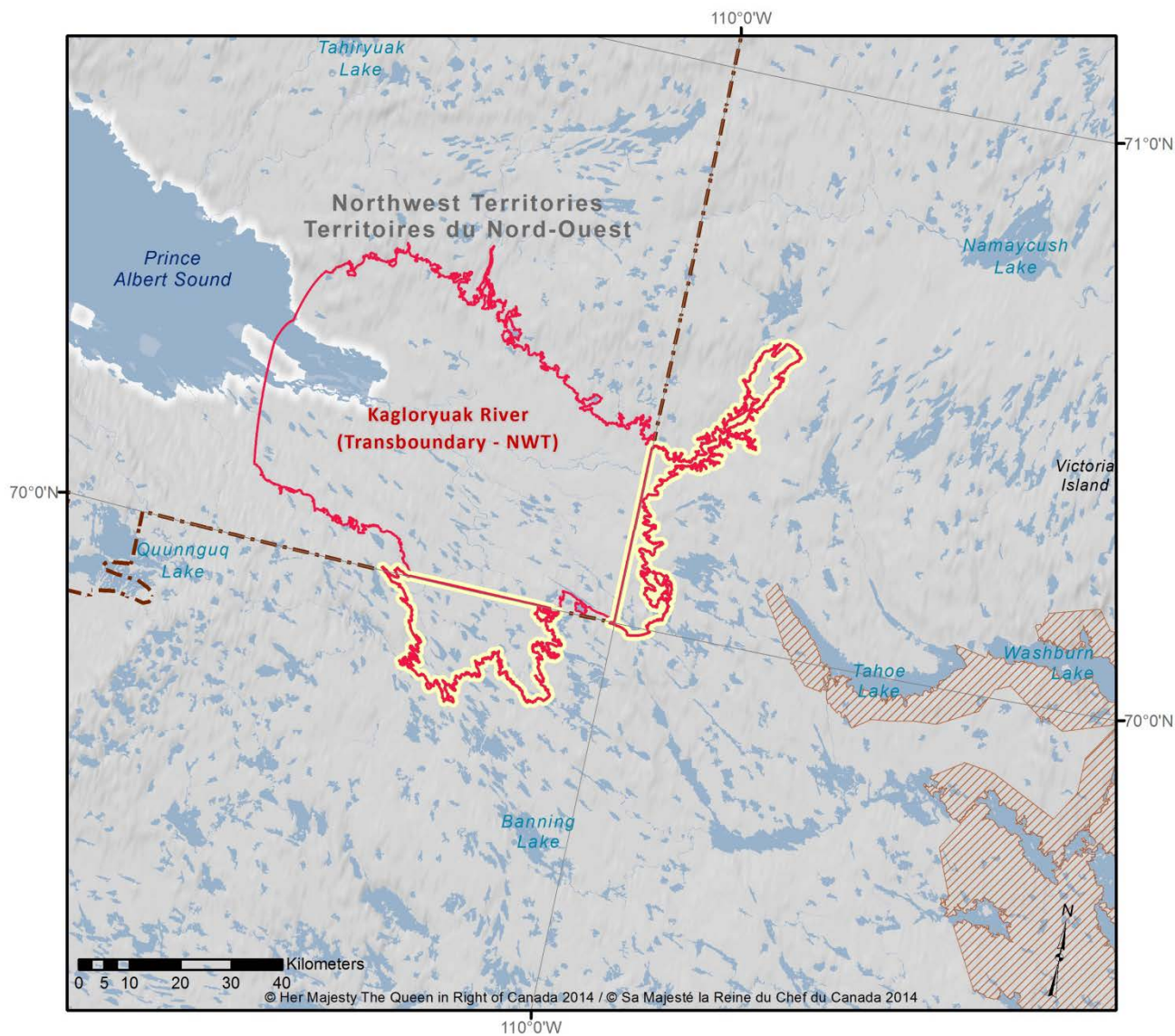
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Kagloryuak

**Category:**

Highly risk intolerant

Qualifying Criterion:

Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Red Knot)

Feature bird group:

Shorebird

Site details:

- Species at risk: Red Knot spp. *rufa* (Endangered), Polar Bear (Special Concern), Short-eared Owl (Special Concern)
- Non-binding designations: NWT portion of key habitat site zoned as a community conservation zone

Current human activities at site:

None (NU portion of site)

Anticipated human activities at site:

None (NU portion of site)

Threats to birds from current/future activities at site:

None (NU portion of site)

Potential consequences for bird populations:

None (NU portion of site)

Recommended restrictions on activities:

Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Lambert Channel



Category: Highly risk intolerant

Qualifying Criterion:

- Hosts more than 10% of a national population of one or more migratory bird species (Pacific Common Eider)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Pacific Common Eider)

Feature bird group:

Seaduck

Site details:

- Critical polynya habitat and critical spring staging, moulting, breeding area for Pacific Common Eider
- Species at risk: Short-eared Owl (Special Concern)
- Non-binding designations: None

Current human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; contaminated site remediation; marine cable installation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; air traffic related to contaminated site remediation - associated activities; human disturbance related to contaminated site remediation - associated activities; alteration of seabed due to dredging

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds; disruption of feeding and nesting birds resulting in loss of eggs and/or young; loss of benthic prey for seaducks/waterfowl and seabirds

Recommended restrictions on activities:

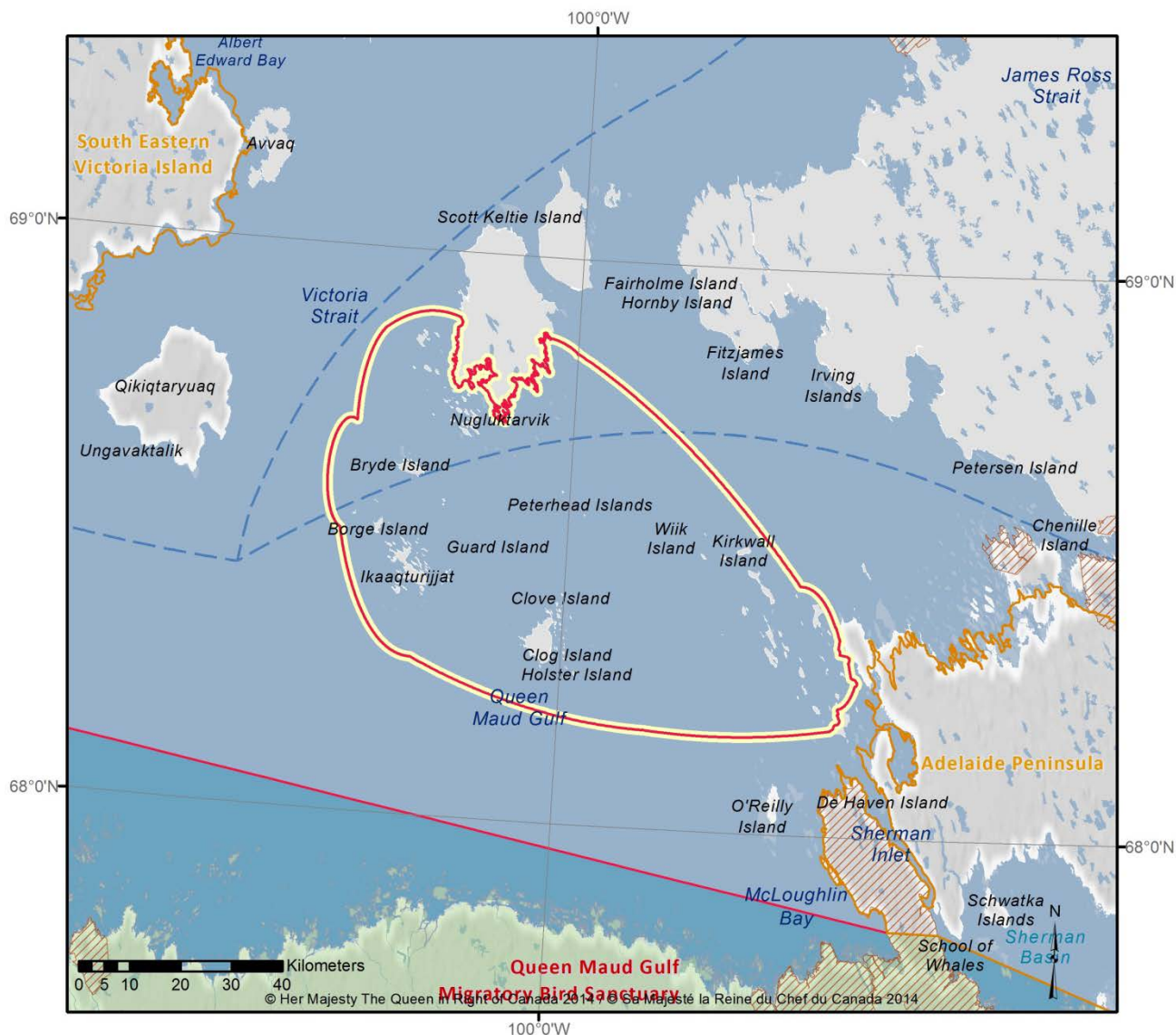
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks) EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Nordenskiöld Islands



Category:

Highly risk intolerant

Qualifying Criterion:

- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)
- Hosts more than 10% of a national population of one or more migratory bird species (Common Eider)

Feature bird group:

Seaduck

Site details:

- Species at risk: None
- Non-binding designations: None

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping; cruise ship tourism; contaminated site remediation

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping; air traffic related to contaminated site remediation - associated activities; human disturbance related to cruise ship tourism; contaminated site remediation - associated activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds

Recommended restrictions on activities:

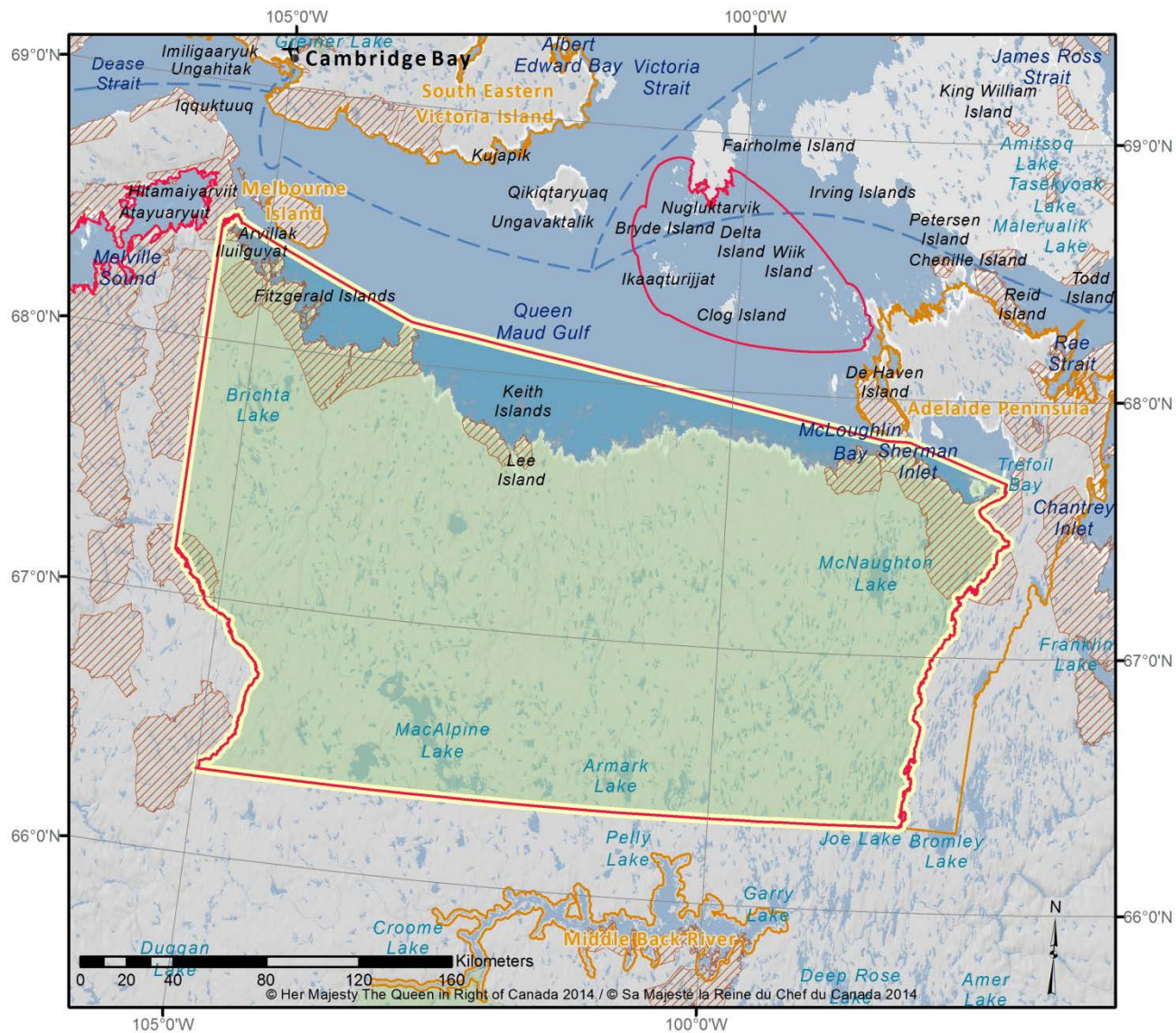
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks) EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness Measures

SITE NAME:

Queen Maud Gulf Migratory Bird Sanctuary



Category: Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Hosts more than 5% of a national population of one or more species exhibiting population declines as of 2005 (American Golden Plover, Dunlin, Semipalmated Sandpiper)
- Hosts more than 10% of a national population of one or more migratory bird species (Ross's Goose, Snow Goose, American Golden Plover, Dunlin, Pectoral Sandpiper, Semipalmated Sandpiper)

Feature bird group:

- Shorebird
- Also important at site: Inland Seaduck (e.g. King Eider), Waterfowl (e.g. Greater White-fronted Goose)

Site details:

- Most extensive wetland in mid-Arctic
- Species at risk: Wolverine (Special Concern), Grizzly Bear (Special Concern)
- Non-binding designations: Ramsar Wetland of International Importance; International Biological Programme Site; Important Bird Area

Current human activities at site:

Shipping; biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; human, aerial and terrestrial traffic disturbance related to research activities; air traffic disturbance related to potential research activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefits Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

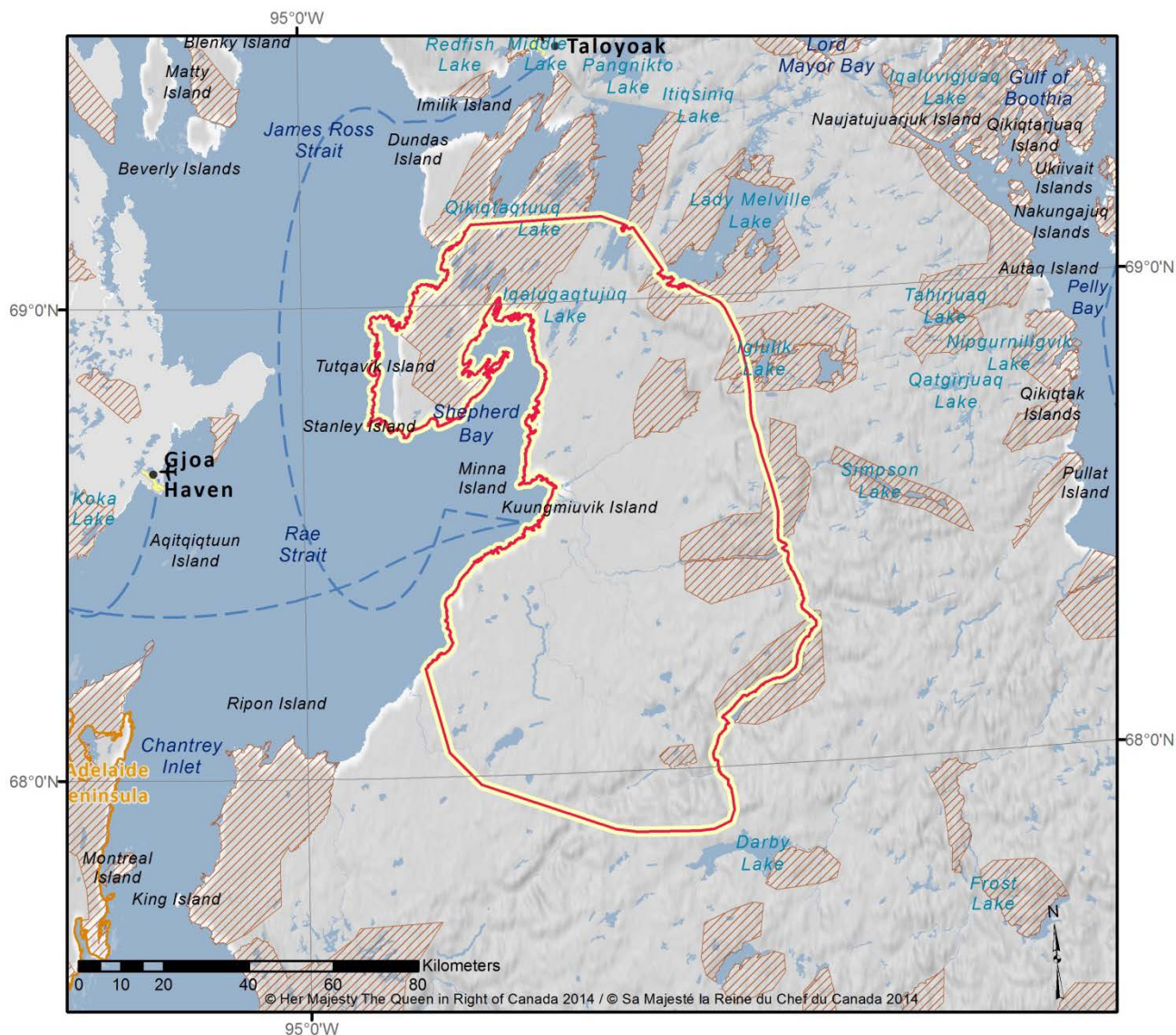
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds) (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (All Migratory Birds) (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Rasmussen Lowlands



Category: Highly risk intolerant

Qualifying Criterion:

- Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Red Knot)
- Hosts more than 10% of a national population of one or more migratory bird species (Buff-breasted Sandpiper, Pectoral Sandpiper)
- Host more than 5% of a national population of one or more species exhibiting population declines as of 2005 (Buff-breasted Sandpiper, Pectoral Sandpiper)

Feature bird group:

Shorebird. Also important at site: Seabird (Sabine's Gull); Watefowl (Tundra Swan, Greater White-fronted Goose)

Site details:

- Species at risk: Red Knot ssp. *rufa* (Endangered); Peregrine Falcon (Special Concern)
- Non-binding designations: Important Bird Area; Ramsar Wetland of International Importance

Current human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

None

Potential consequences for bird populations:

None

Recommended restriction on activities:

Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

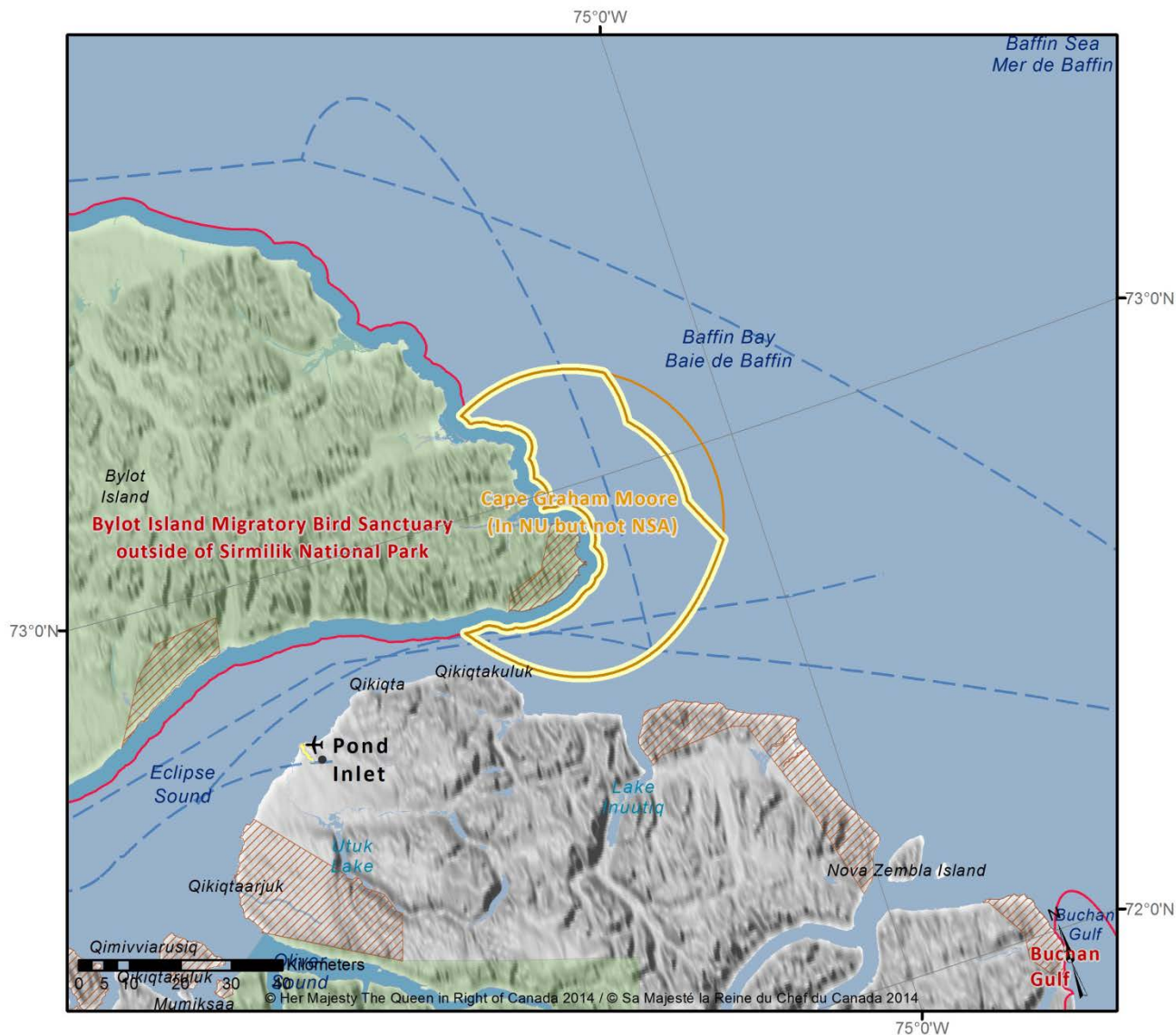
Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds*); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

*the more general migratory birds mitigations are used here because Sabine's Gulls are not cliff-nesting, colonial seabirds

SITE NAME:

Cape Graham Moore (outside of Bylot Island MBS)



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5% to 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Black-legged Kittiwake, Thick-billed Murre)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar bear (Special Concern); Peregrine Falcon (Special Concern); Red Knot ssp. islandica (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activity:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; risk of bycatch from potential commercial fishing activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

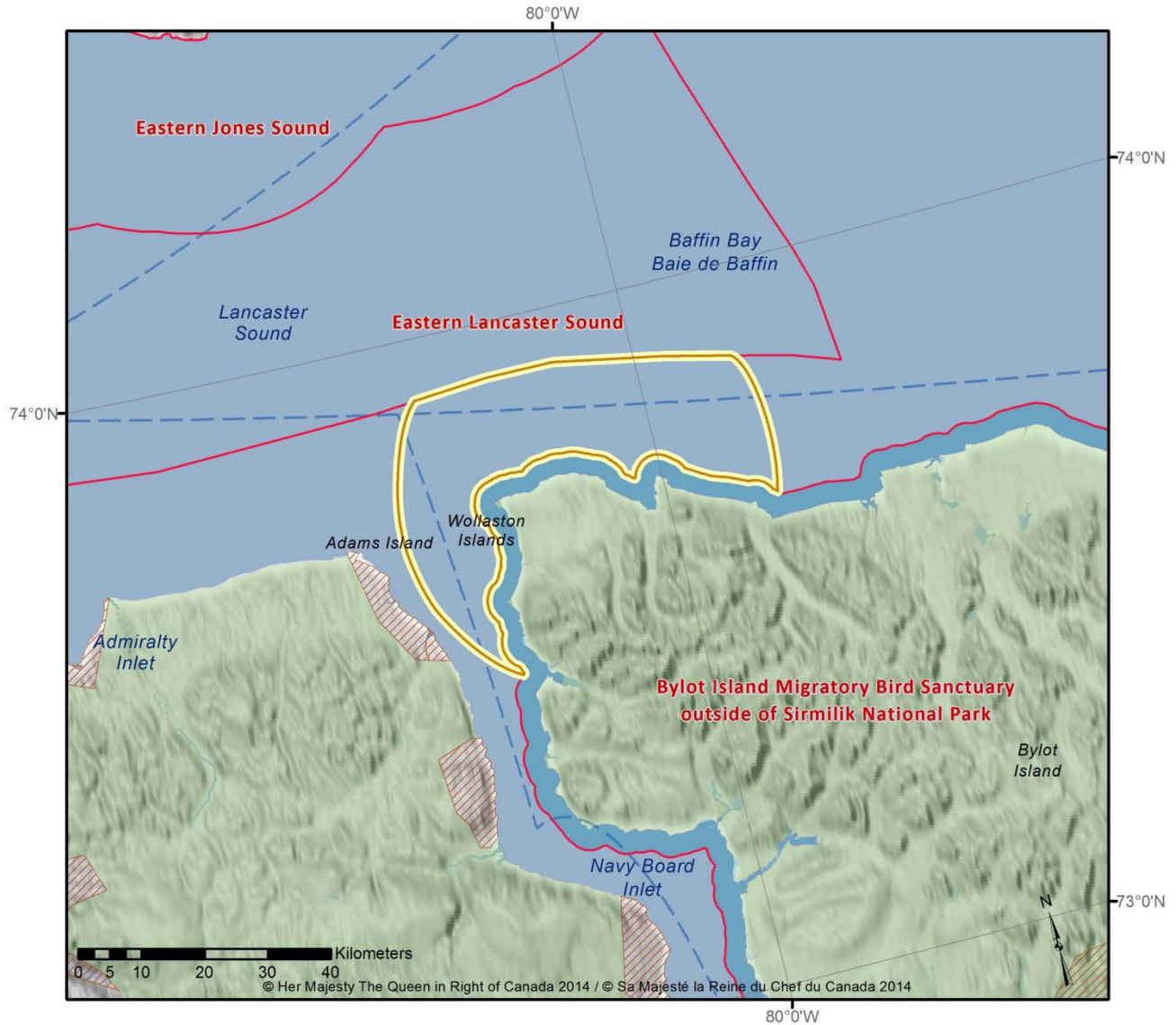
None

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setback (All Seabirds); Emergency Preparedness

SITE NAME:

Cape Hay (outside of Bylot Island Migratory Bird Sanctuary)



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5%-10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Black-legged Kittiwake, Thick-billed Murre)

Feature bird group:

Seabirds

Site details:

- Species at risk: Polar Bear (Special Concern), Peregrine Falcon (Special Concern), Red Knot ssp. *islandica* (Special Concern)
- Non-binding Designations: Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; risk of bycatch from potential commercial fishing activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

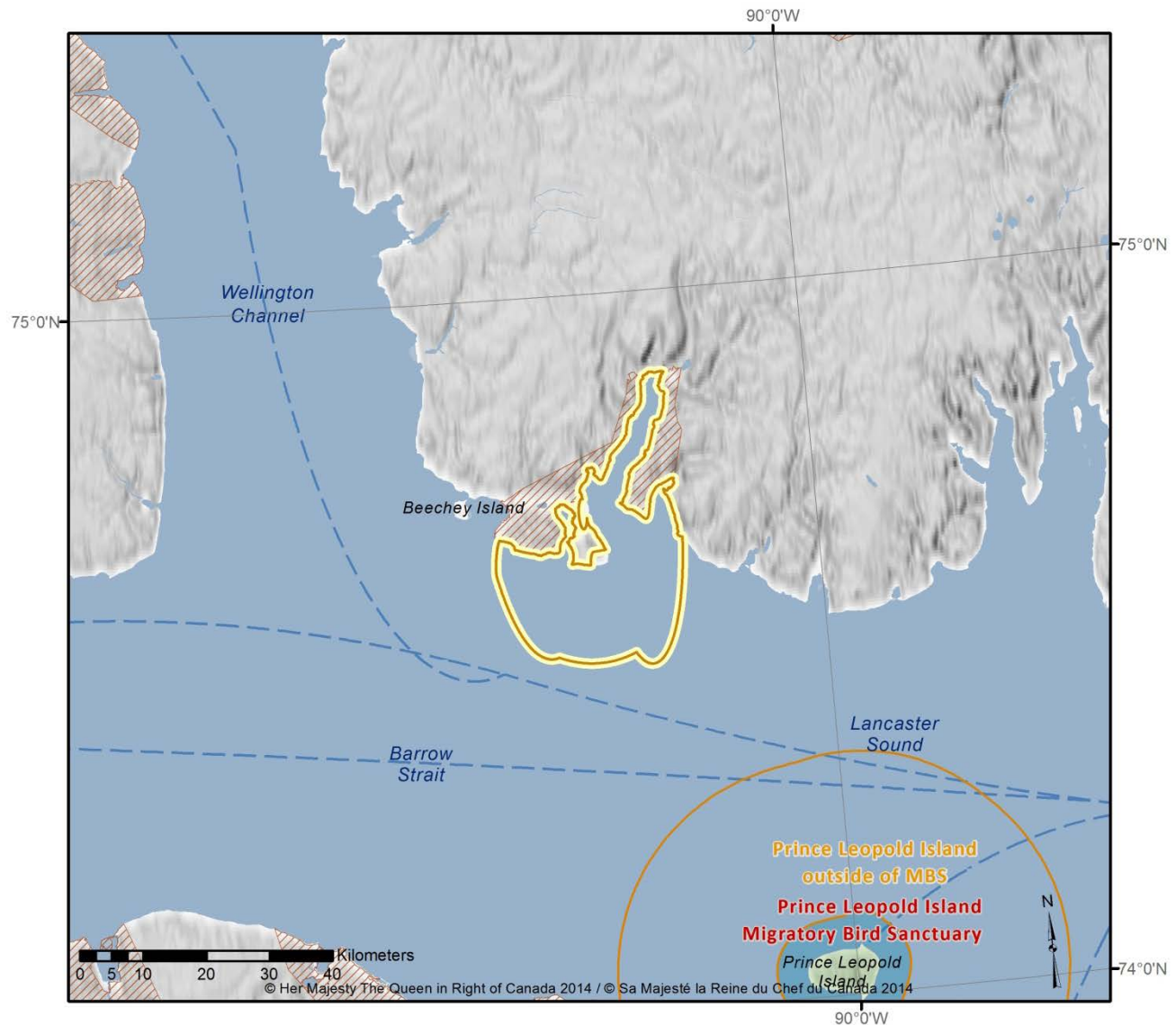
None

Recommended setbacks:

EC-CWS Marine Setbacks (All Seabirds); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Cape Liddon



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5%- 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Northern Fulmar)

Feature bird group:

Seabirds

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding Designations: Important Bird Areas; International Biological Program site

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping; risk of bycatch from potential commercial fishing activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

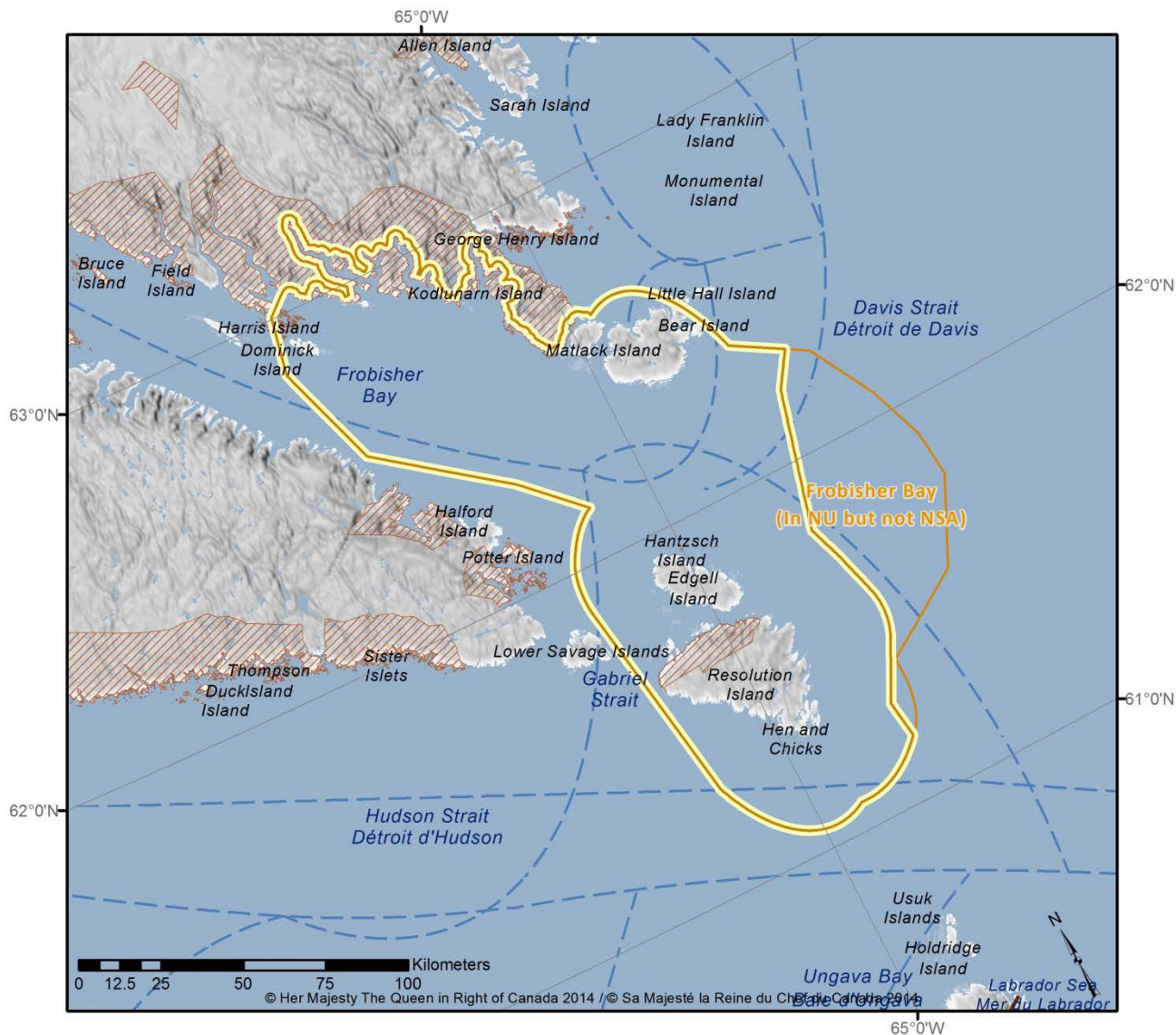
None

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Frobisher Bay



Category:

Moderately risk intolerant

Qualifying Criterion:

- Local knowledge experts indicate the importance of Frobisher Bay for nesting seaducks/waterfowl and seabirds, as well as the importance of the resource-rich polynya and sea-ice floe edge areas for overwintering and migrating seaducks/waterfowl and seabirds.
- Expert opinion indicates the importance of Frobisher Bay for seaducks/waterfowl and seabirds.

Feature bird group:

Seabird (e.g. Thick-billed Murre), Seaduck/Waterfowl (e.g. Common Eider)

Site details:

- Important polynya for seaducks and seabirds. Loks Land may support Nunavut's largest known colony of Razorbills. Dovekies congregate at the south end of Frobisher Bay in late summer.
- Species at risk: Polar Bear (Special Concern), Harlequin Duck (Special Concern)
- Non-binding designations: International Biological Programme Site (Hantzsch Island), Important Bird Area (Hantzsch Island)

Current human activities at site:

Shipping; mineral claim; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; mineral exploration; cruise ship tourism; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activity:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increase in air traffic disturbance related to mineral exploration activities; human disturbance from mineral exploration activities; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships; risk of bycatch from potential commercial fishing activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds and seaducks from fishing bycatch

Recommended restrictions on activities:

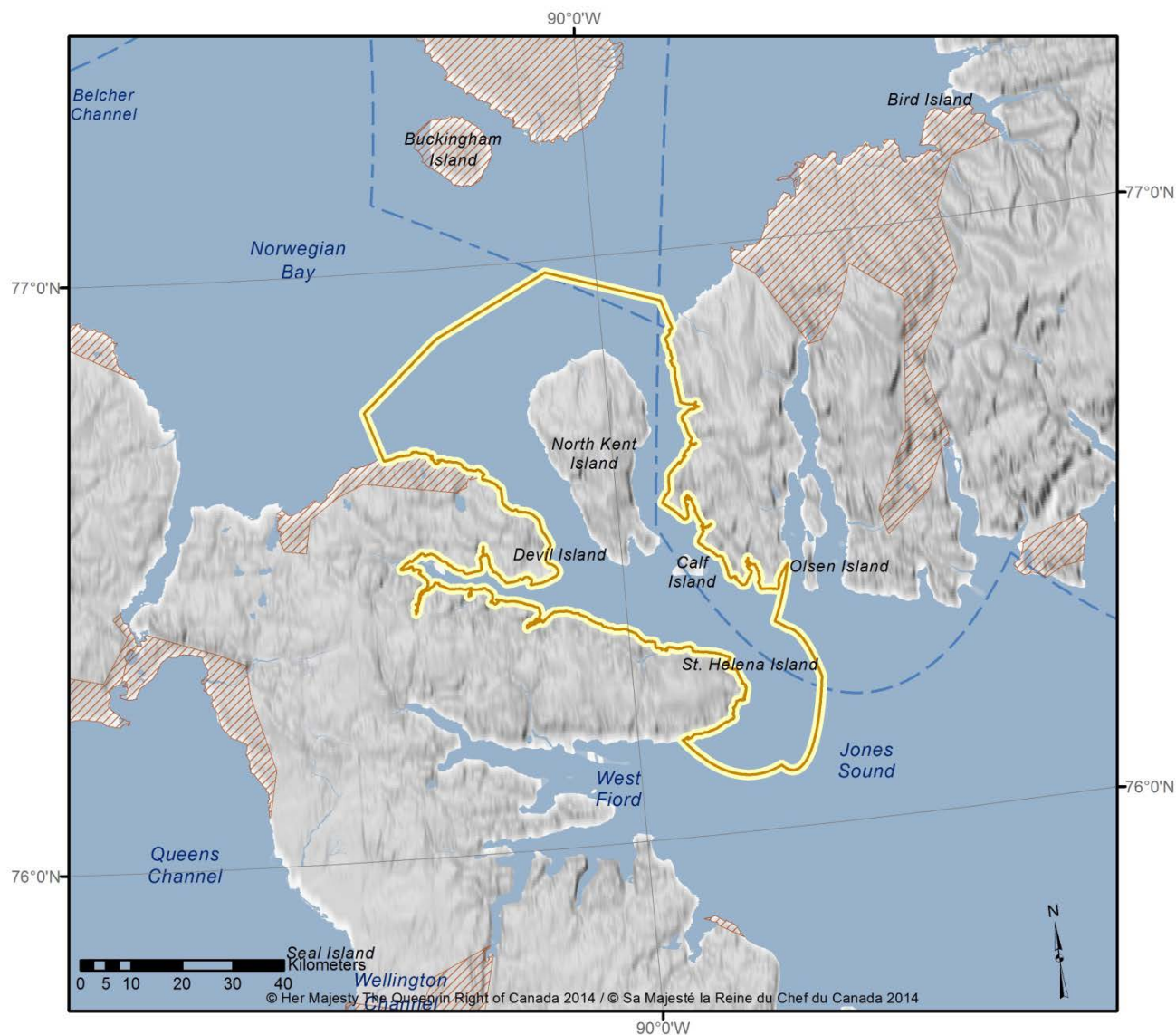
None

Recommended setbacks:

EC-CWS Aerial (All Seabirds) (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (All Seabirds) (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (All Seabirds) (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Hell Gate and Cardigan Strait



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5%- 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Northern Fulmar)

Feature bird group:

Seabirds. Also important at site: Seaducks (e.g. Common Eider), Coastal Waterfowl (e.g. Brant)

Site details:

Non-binding Designations: Important Bird Areas (Cape Vera, North Kent Is, Calf Island), International Biological Programme site

Current human activities at site:

Biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from shipping; human and terrestrial traffic disturbance related to research activities

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; disruption of feeding and nesting birds resulting in loss of eggs and/or young

Recommended restrictions on activities:

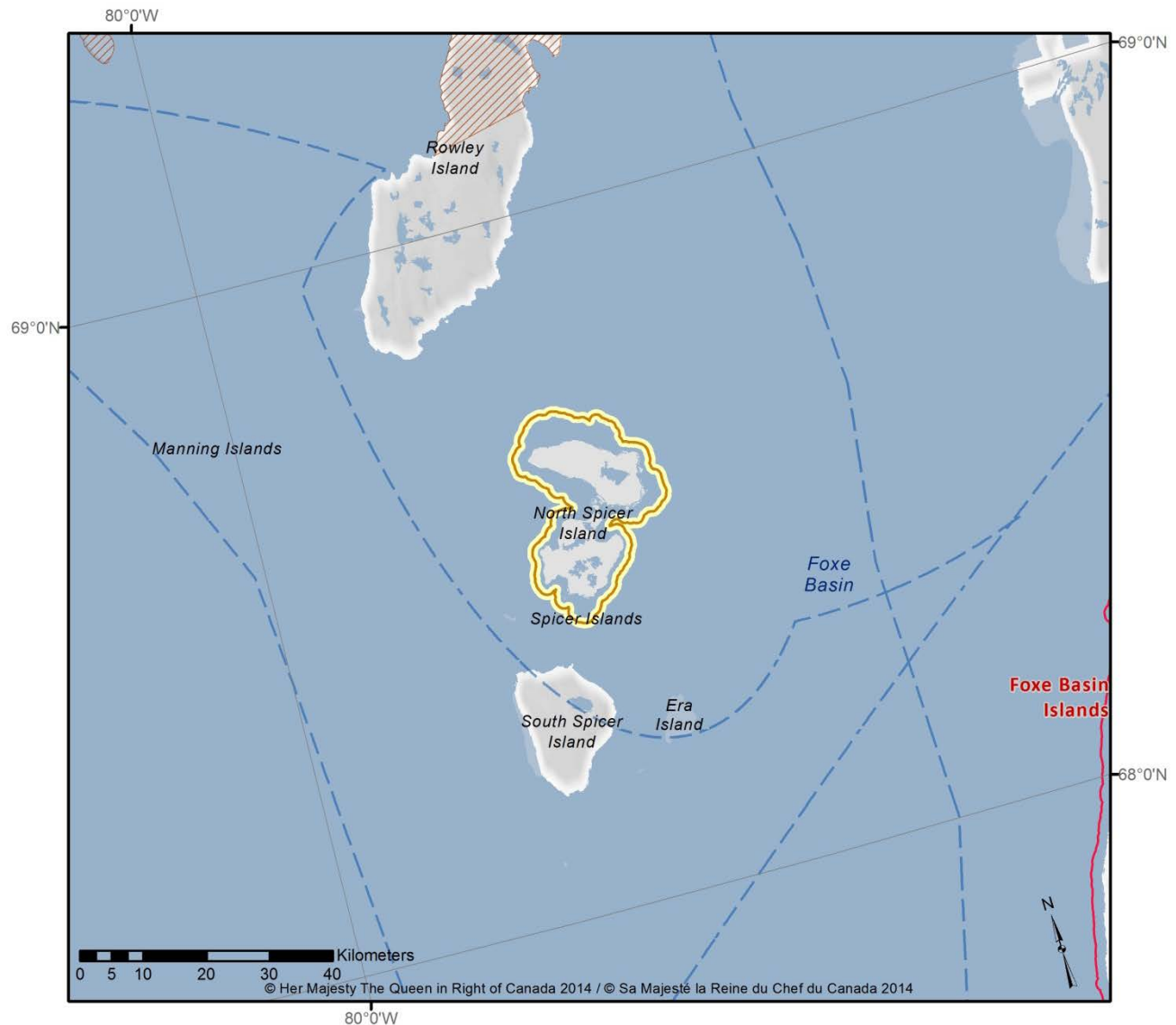
None

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds) EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

North Spicer Island



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 1% to 5% of the national populations of one or more migratory birds species that ARE exhibiting populations declines as of 2005 (Atlantic Brant)

Feature bird group:

Waterfowl

Site details:

Non-binding designations: None

Current human activities at site:

None

Anticipated human activities at site:

Shipping; contaminated site remediation

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from shipping; disturbance from aircraft related to contaminated site remediation

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; potential for bird-aircraft collisions originating from air traffic at low altitude or too close to concentration of birds

Recommended restrictions on activities:

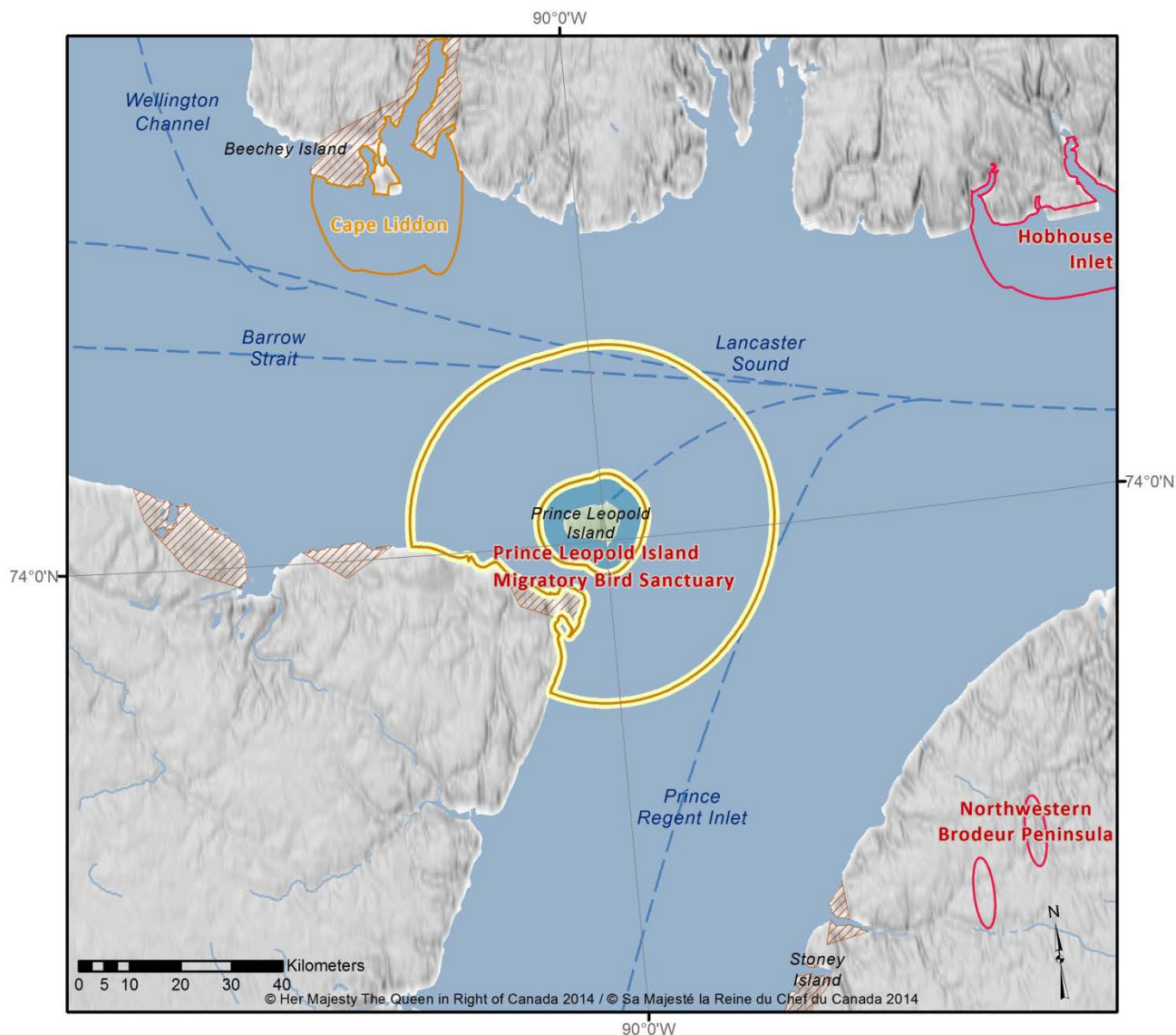
None

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Sea-level Coastal Nesters); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Prince Leopold Island (outside of the Migratory Bird Sanctuary)



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5%- 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Black-legged Kittiwake, Northern Fulmar)

Feature bird group:

Seabirds

Site details:

- Major seabird feeding area and adjacent to large seabird colonies.
- Species at risk present: Polar Bear (Special Concern)
- Non-binding Designations: Important Bird Area, International Biological Programme site
- A large portion of site falls within the proposed Lancaster Sound National Marine Conservation Area.

Current human activities at site:

Shipping; cruise ship tourism; biological research

Anticipated human activities at site:

Shipping; cruise ship tourism; biological research

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism and biological research; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

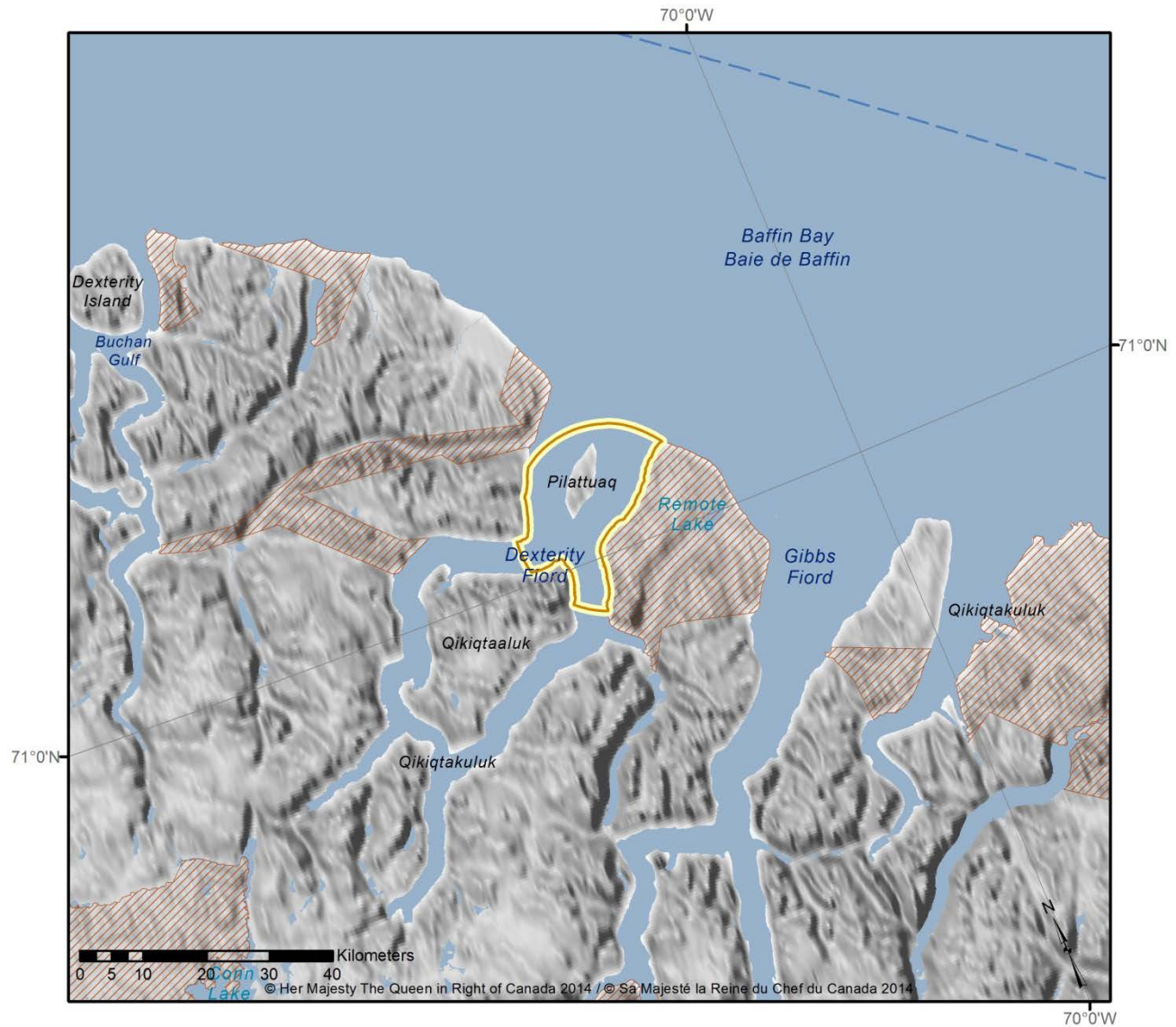
None

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Scott Inlet



Category:

Moderately risk intolerant

Qualifying Criterion:

Contains 5%- 10% of the national population of one or more migratory bird species that are NOT exhibiting population declines as of 2005 (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Species at risk present: Polar bear (Special Concern)
- Non-binding Designations: Important Bird Area
- Candidate for Territorial Park status

Current human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

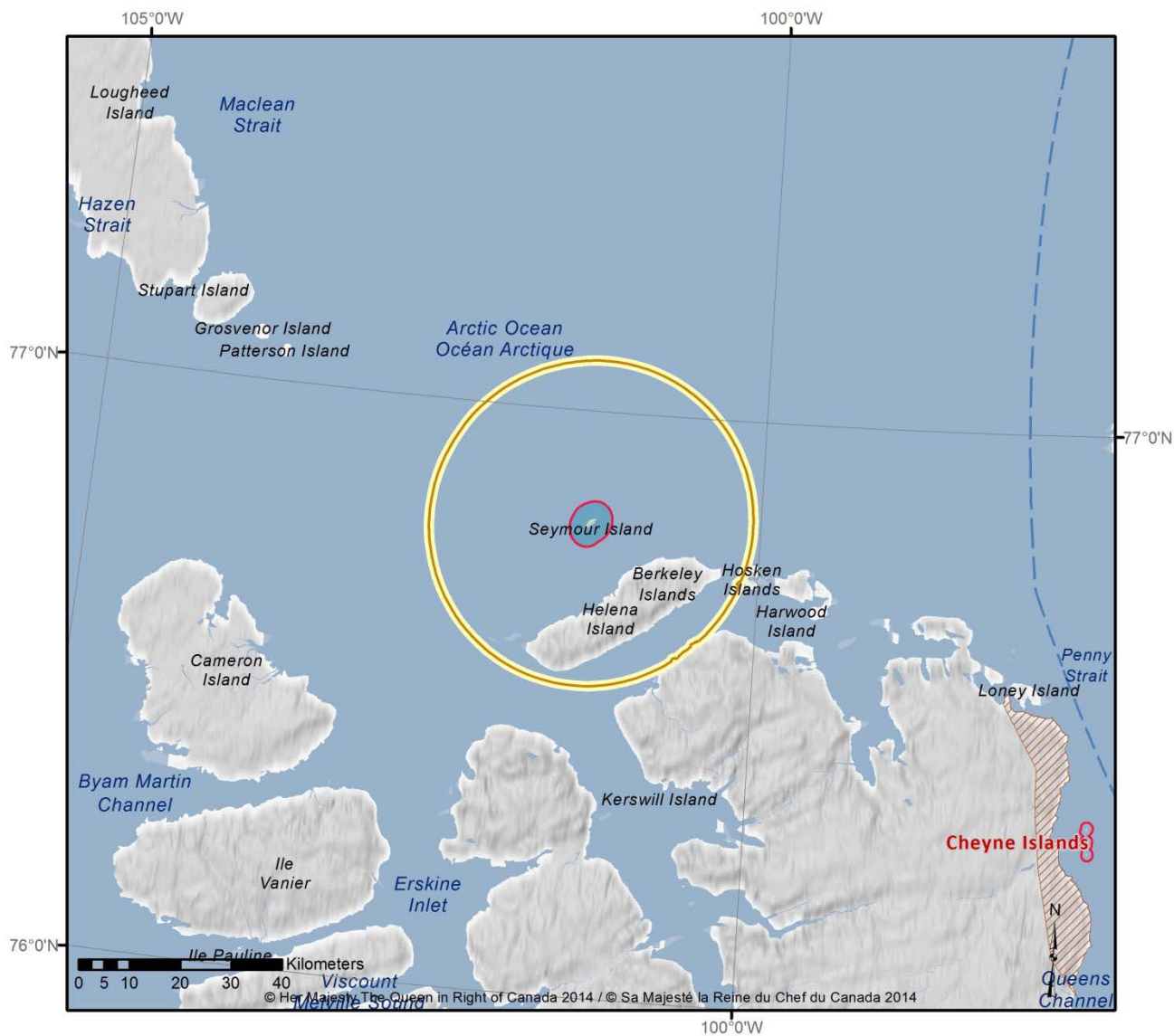
Recommended restrictions on activities:

None

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Seymour Island (outside of the Migratory Bird Sanctuary)**Category:**

Moderately risk intolerant

Qualifying Criterion:

Feeding area adjacent to nesting colony for migratory bird species listed as Endangered on Schedule 1 of the *Species at Risk Act* (Ivory Gull)*

Feature bird group:

Seabirds

Site details:

- Species at risk present: Ivory Gull (endangered)
- Non-binding Designations: Important Bird Area, International Biological Programme site
- This site provides feeding habitat for the Ivory Gull.

Current human activities at site:

None

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

None

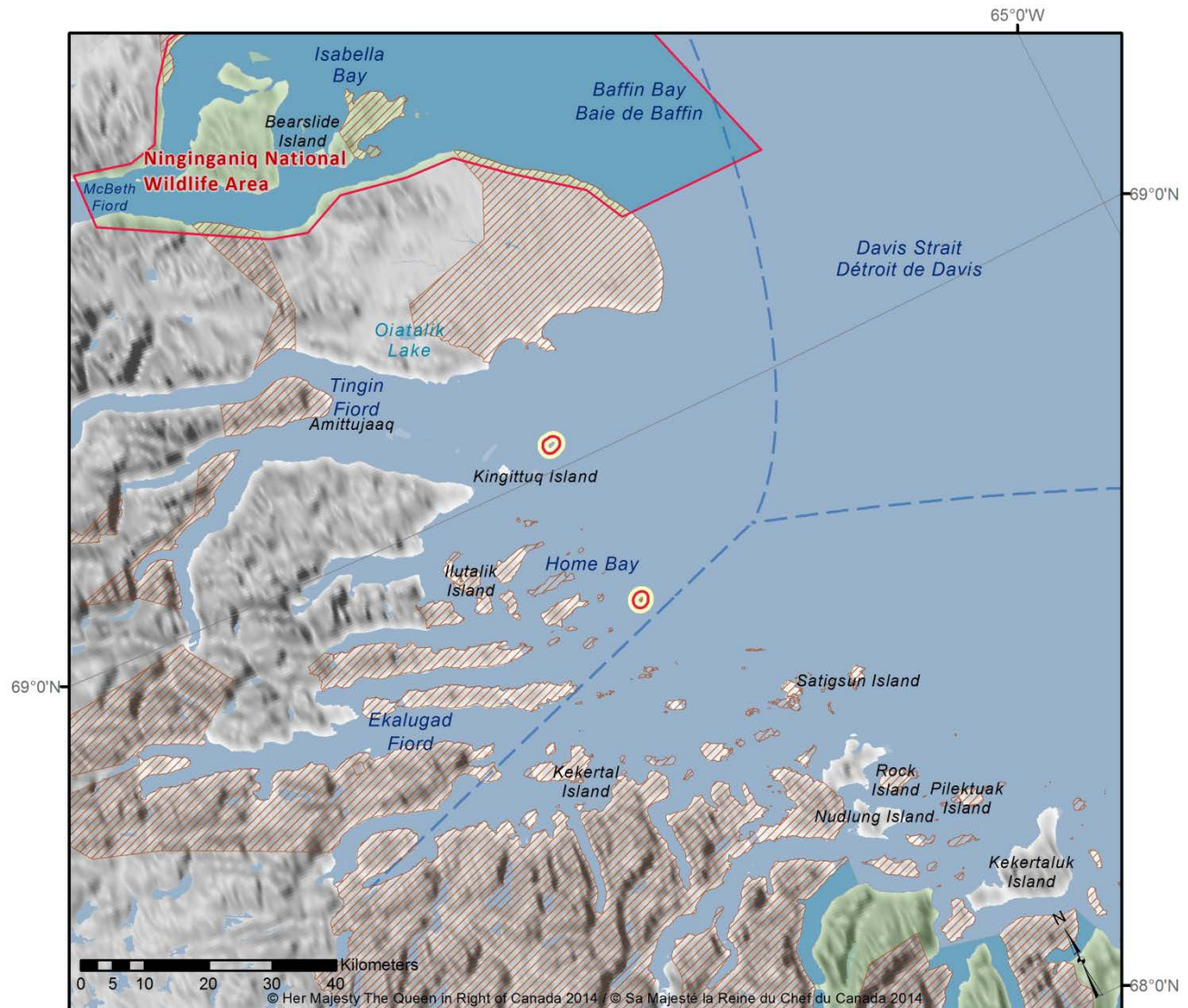
Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (Ivory Gulls); Emergency Preparedness

* Based on current knowledge of Ivory Gull feeding behaviour, and level of human activity at this site, It is classed in the 'moderately risk intolerant' category. EC recommends this site be re-assessed once additional information on Ivory Gull feeding behaviour is acquired or as new industrial activities are proposed.

SITE NAME:

Abbajalik and Ijutuk Islands



Category:

Highly risk intolerant

Qualifying Criterion:

Hosts more than 10% of a national population of one or more migratory bird species (American Dovekie)

Feature bird group:

Seabird

Site details:

- Only known Dovekie breeding colony in Nunavut
- Species at risk: None
- Non-binding designations: None

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

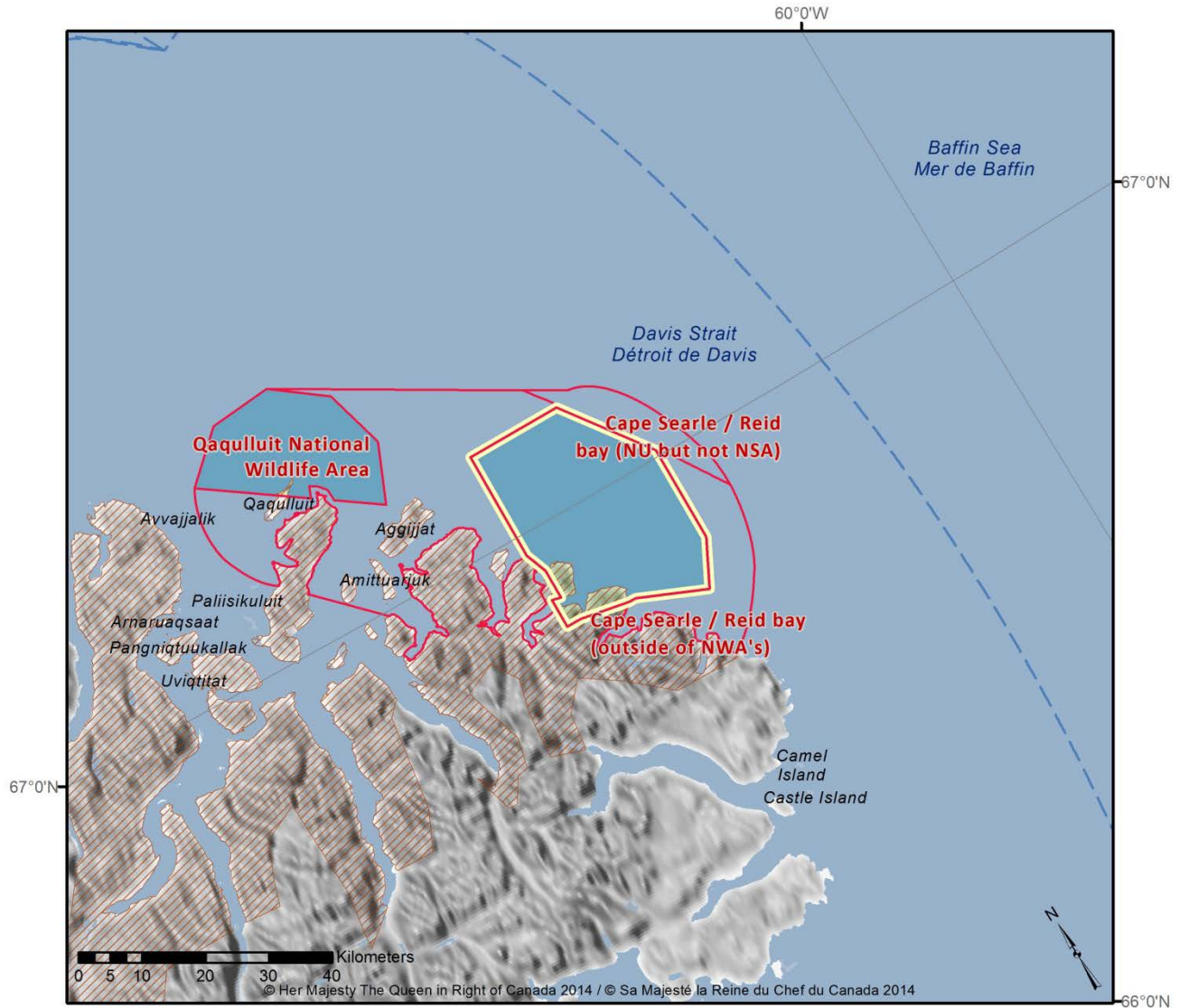
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Akpait National Wildlife Area



Category: Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Canada Wildlife Act*
- Hosts more than 10% of a national population of one or more migratory bird species (Thick-billed Murre, Northern Fulmar)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Thick-billed Murre)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (special concern), Peregrine Falcon (special concern)
- Non-binding designations: Important Bird Area; International Biological Program Site

Current human activities at site:

Shipping; cruise ship tourism

Anticipated human activities at site:

Shipping; cruise ship tourism

Threats to birds from current/future activity:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

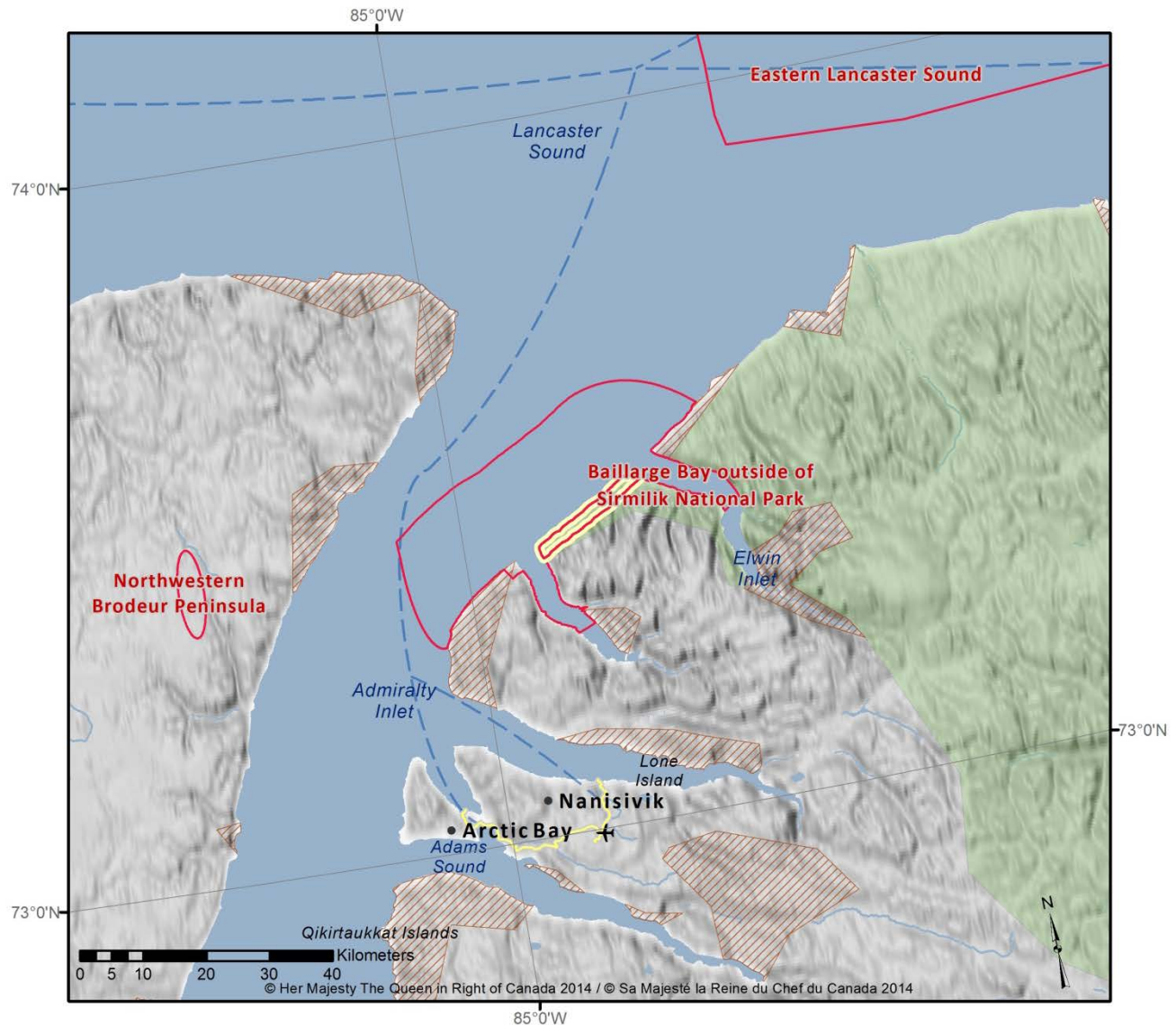
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Baillarge Bay (portion that overlaps with Sirmilik National Park)



Category:

Highly risk intolerant

Qualifying Criterion:

Hosts more than 10% of a national population of one or more migratory bird species (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Species at risk: None
- Part of Sirmilik National Park
- Non-binding designations: International Biological Programme Site; Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

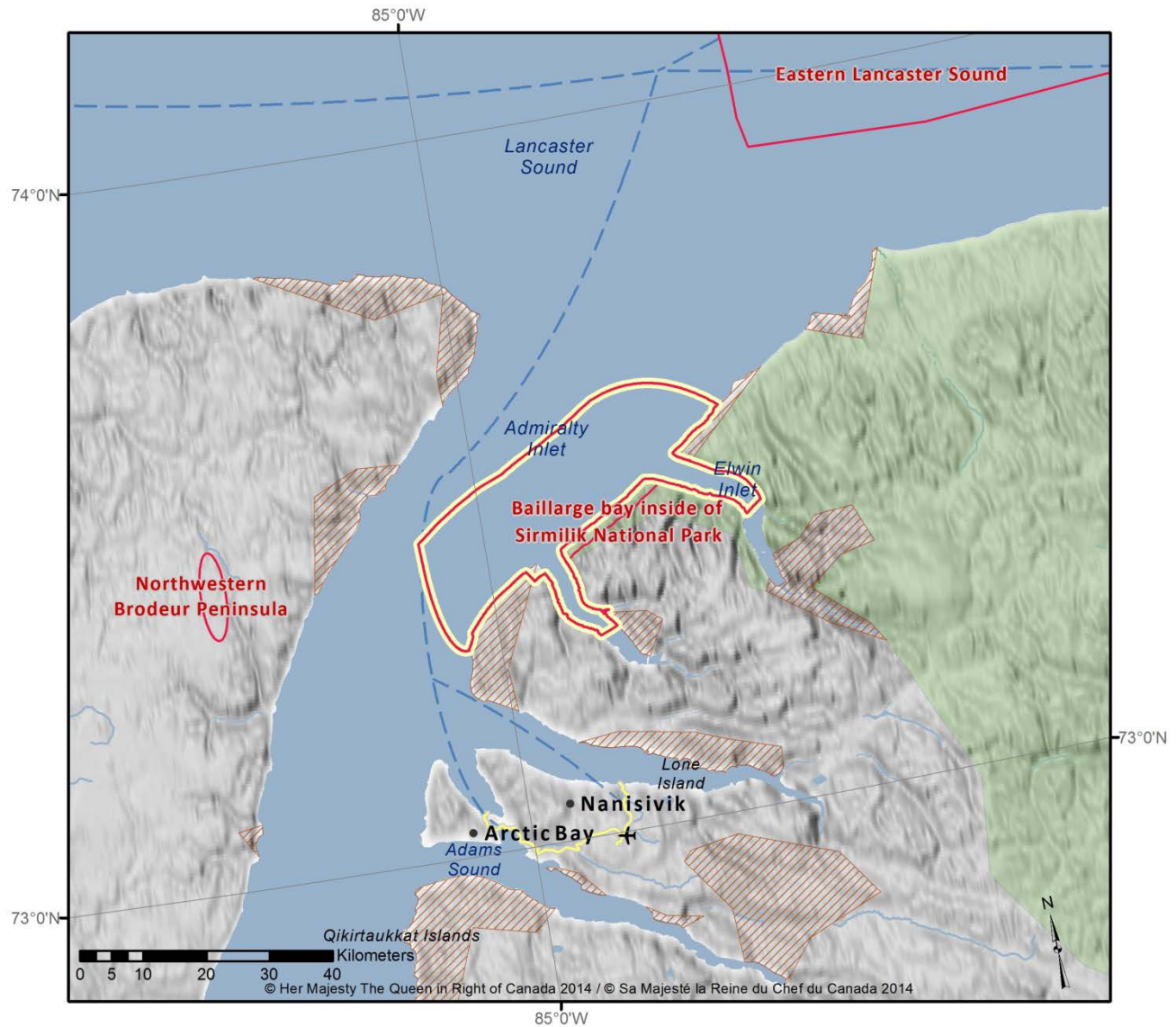
The land use plan does not apply within Sirmilik National Park

Recommended setbacks:

The land use plan does not apply within Sirmilik National Park

SITE NAME:

Baillarge Bay (portion that does not overlap with Sirmilik NP)



Category:

Highly risk intolerant

Qualifying Criterion:

Hosts more than 10% of a national population of one or more migratory bird species (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; 3. harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

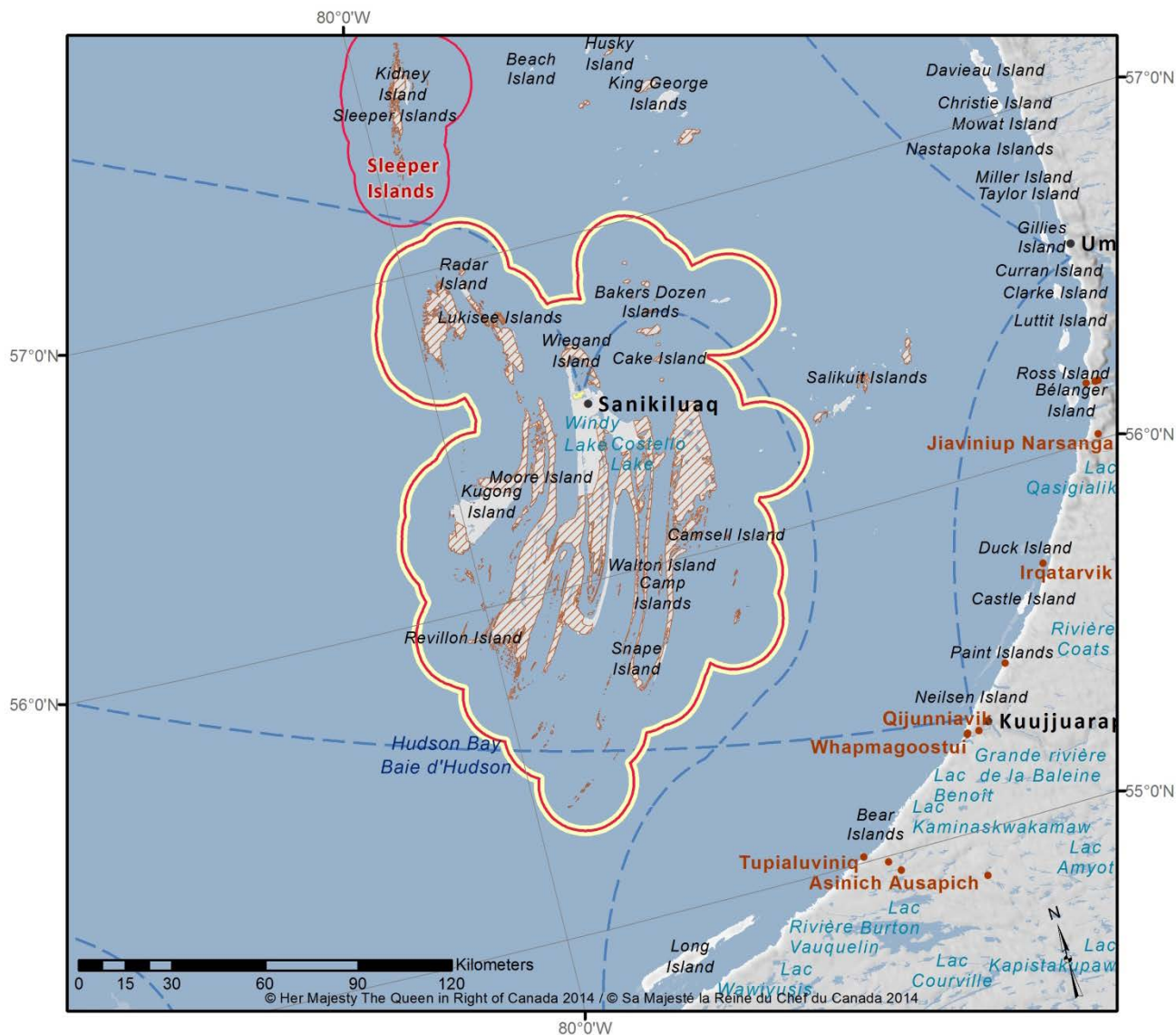
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds) Emergency Preparedness

SITE NAME:

Belcher Islands



Category:

Highly risk intolerant

Qualifying Criterion:

- Host more than 10% of a national population of one or more migratory bird species (Common Eider ssp. *sedentaria*)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider ssp. *sedentaria*)

Feature bird group:

Seaduck

Site details:

- Critical breeding islands and critical wintering polynyas
- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping; mineral exploration (iron ore) lease; municipality; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; mineral production and mine construction; marine cable installation; municipality; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships; increase in air traffic disturbance related to mining activities; human disturbance from mining activities; alteration of seabed due from dredging for marine cable

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; disruption of feeding and nesting birds resulting in loss of eggs and/or young; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds; loss of benthic prey for seaducks/waterfowl and seabirds

Recommended restrictions on activities:

Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs; the Nunavut Land Use Plan does not apply within municipal boundaries.

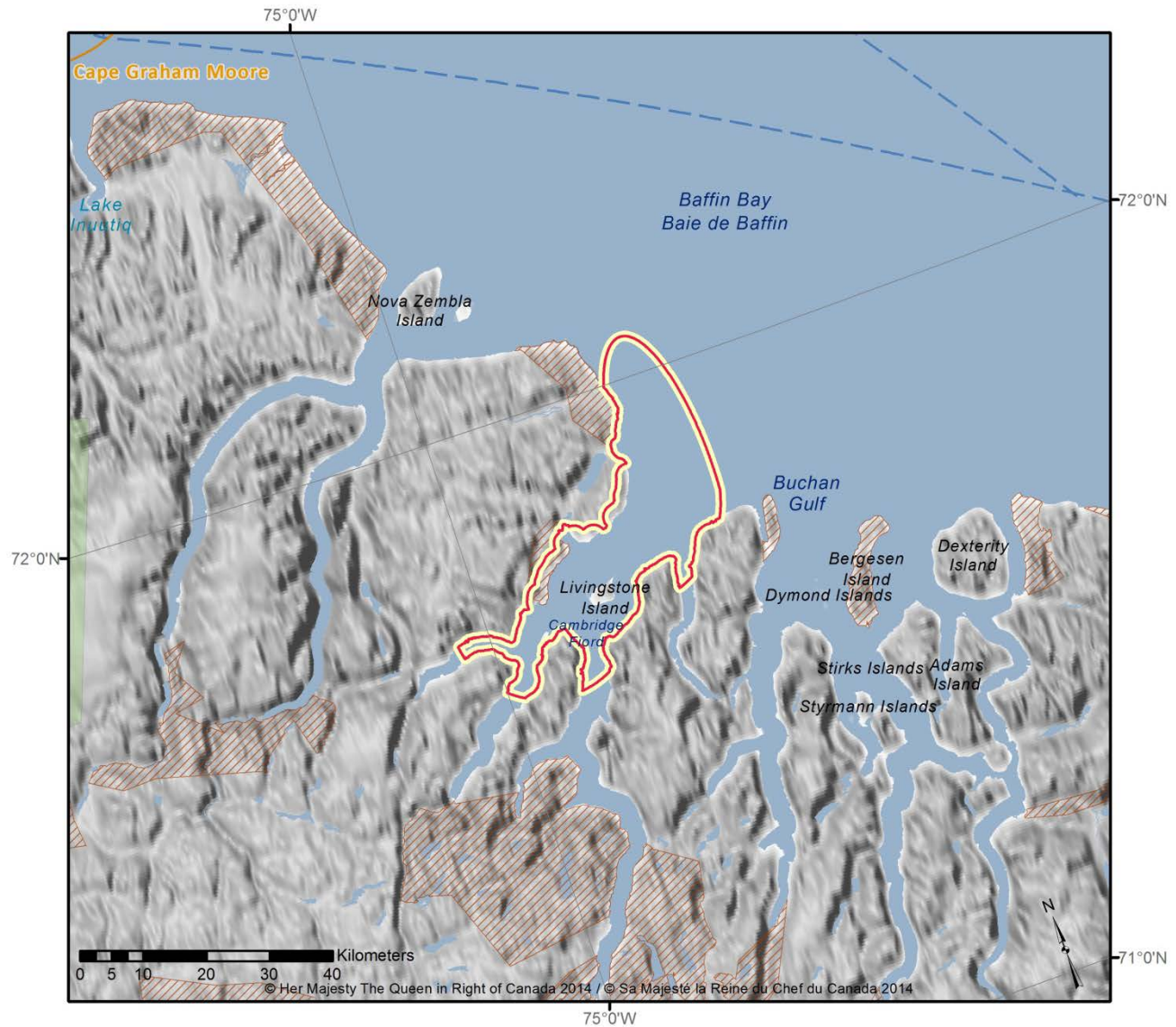
Recommended setbacks:

EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks), Emergency Preparedness

Note that the Nunavut Land Use Plan does not apply within municipal boundaries.

SITE NAME:

Buchan Gulf



Category:

Highly risk intolerant

Qualifying Criterion:

Hosts more than 10% of a national population of one or more migratory bird species (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area; International Biological Programme Site

Current human activities at site:

None

Anticipated human activities at site:

shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds due to increase of traffic; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

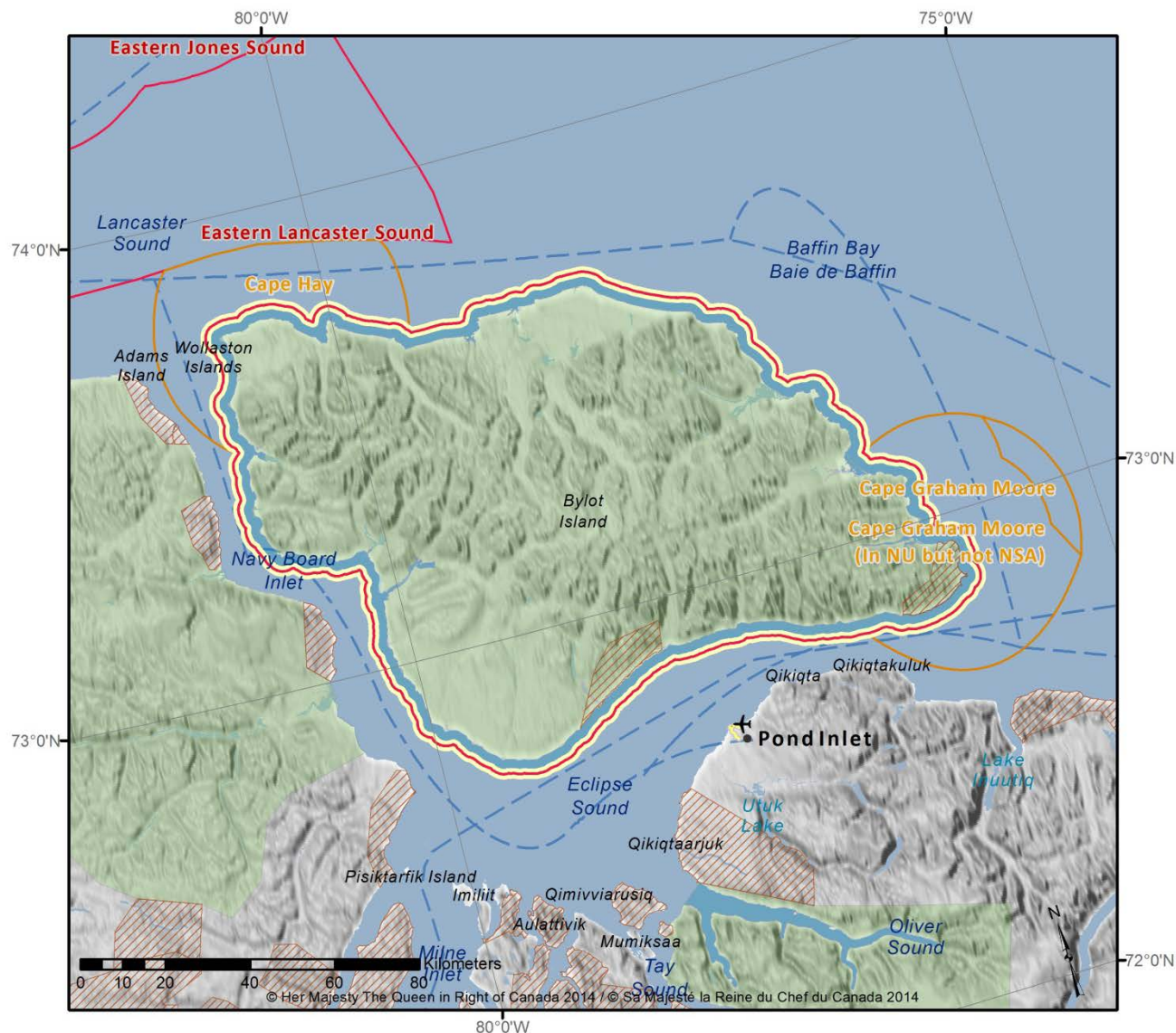
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Bylot Island Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Supports a percentage of a national population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Thick-billed Murre)

Feature bird group:

- Seabird (including Black-legged Kittiwake)
- Waterfowl (Greater Snow Goose)
- Shorebird (e.g. Ringed Plover)

Site details:

- Species at risk: Red Knot spp. *islandica* (Special Concern), Peregrine Falcon (Special Concern), Polar Bear (Special Concern)
- Part of Migratory Bird Sanctuary is contained within Sirmilik National Park
- Non-binding designations: International Biological Programme Site, Important Bird Area

Current human activities at site:

Land-based tourism; shipping; cruise ship tourism; biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Land-based tourism; shipping; cruise ship tourism; biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Human and terrestrial traffic disturbance related to land-based tourism activities; marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; direct loss of birds due to contaminants and pollution

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

Note that the Nunavut Land Use Plan does not apply within Sirmilik National Park.

Feature bird group:

Seabird

Site details:

- Species at risk: Peregrine Falcon (Special Concern), Polar Bear (Special Concern)
- Non-binding designations: None

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds due to increase of traffic; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Prohibited Activities: Recommended restrictions on activities:

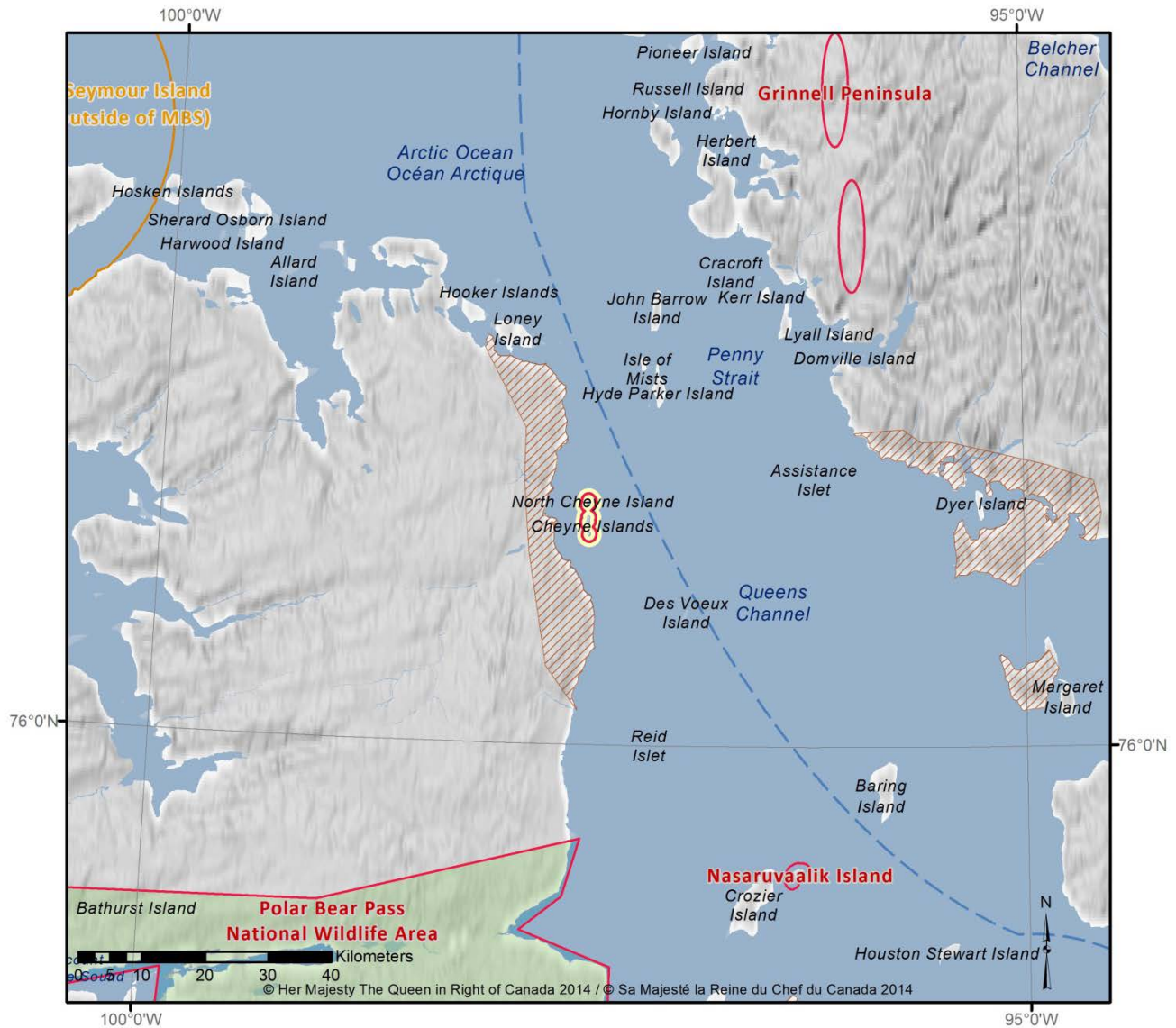
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Cheyne Islands



Category:

Highly risk intolerant

Qualifying Criterion:

Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ross's Gull)

Feature bird group:

Seabird

Site details:

- Species at risk: Ross's Gull (Threatened)
- Non-binding designations: Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

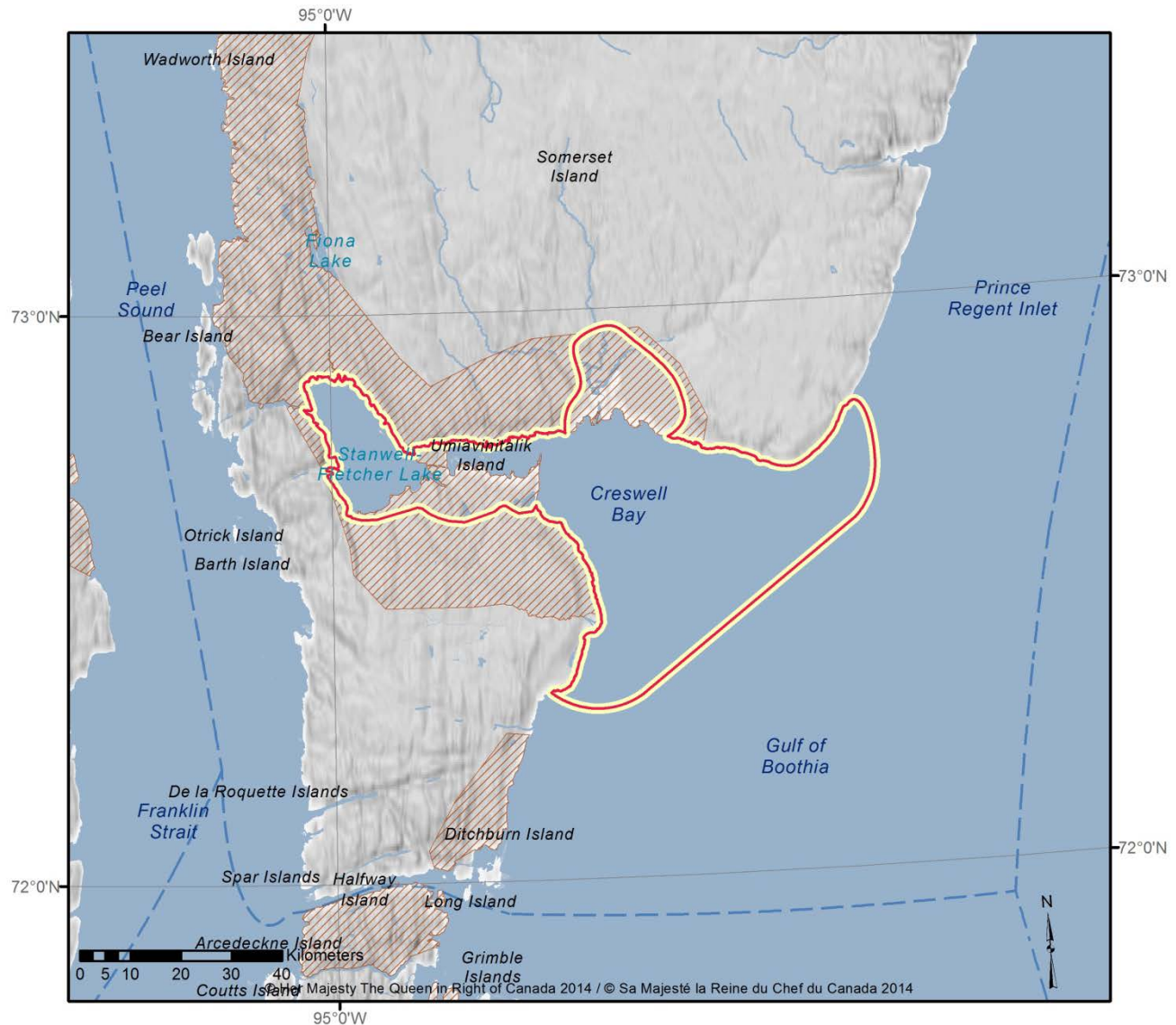
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (Sea-level Coastal Nesters) (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Creswell Bay



Category:

Highly risk intolerant

Qualifying Criterion:

- Contain habitat likely to be identified as Critical Habitat for a species listed as 'endangered' or 'threatened' under the Species at Risk Act (Peary Caribou)
- Hosts more than 5% of a national population of one or more species exhibiting population decline as of 2005 (Buff-breasted Sandpiper)

Feature bird group:

- Shorebird
- Also important at site: Seabirds (e.g. Northern Fulmar, Black-legged Kittiwake), Inland Seaduck (King Eider, Long-tailed Duck)

Site details:

- Species at risk: Peary Caribou (Endangered), Red Knot spp. *islandica* (Special Concern), Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area, International Biological Programme site

Current human activities at site:

Land-based tourism; shipping; marine cable installation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Land-based tourism; shipping; cruise ship tourism; marine and terrestrial cable installation; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Increased human disturbance related to tourism; marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping; alteration of seabed and lakebeds, ponds due from dredging for marine, freshwater, terrestrial cable

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; loss of benthic prey for shorebirds, seabirds, and seaducks

Recommended restrictions on activities:

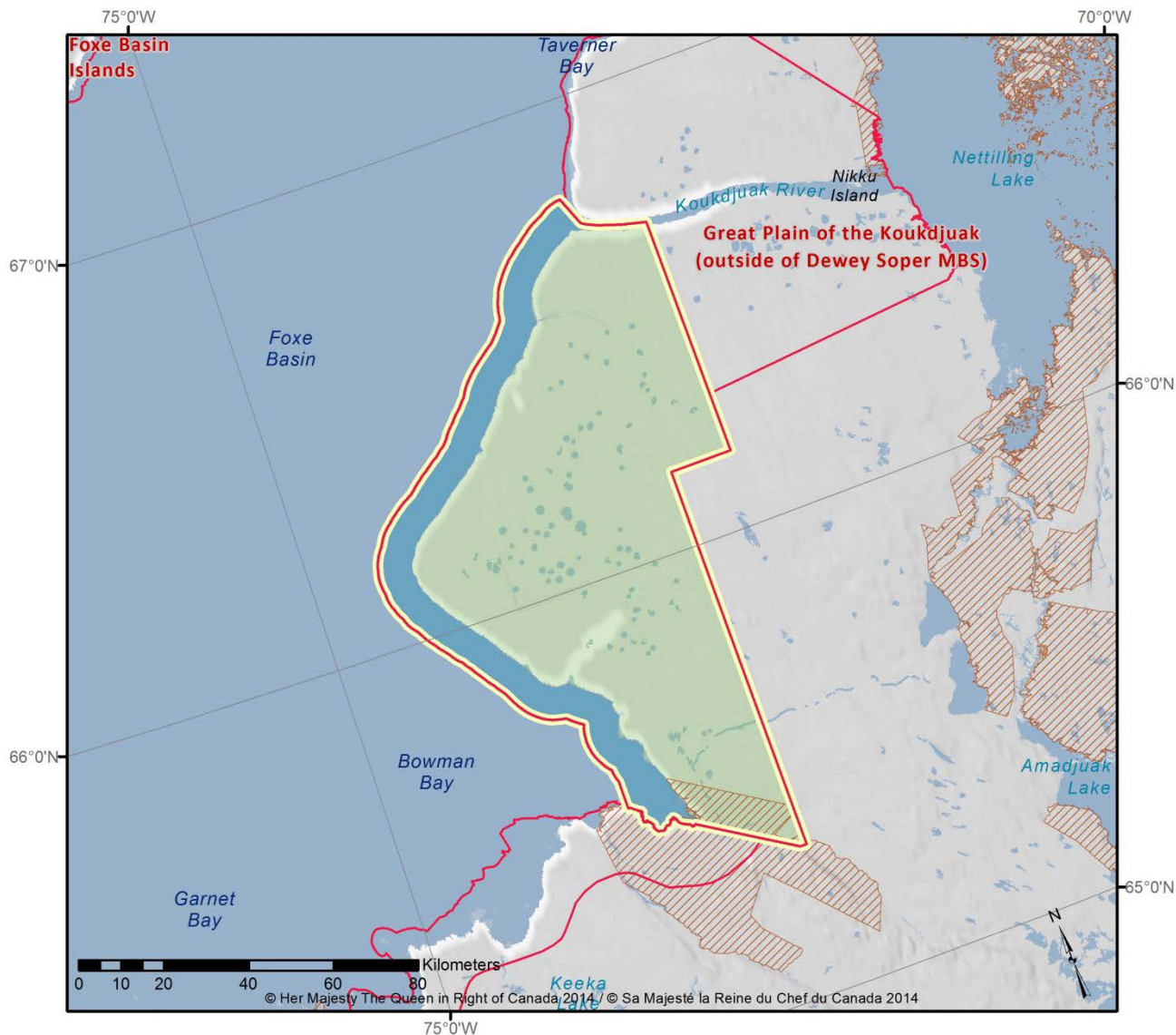
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Dewey Soper Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Red Knot)
- Hosts more than 10% of a national population of one or more migratory bird species (Black-bellied Plover, Dunlin, Red Phalarope, Red Knot, Ruddy Turnstone, White-rumped Sandpiper, Lesser Snow Goose)
- Hosts more than 5% of a national population of one or more species exhibiting population decline as of 2005 (American Golden-Plover, Black-bellied Plover, Dunlin, Red Phalarope, Red Knot, Ruddy Turnstone)

Feature bird group:

- Shorebird
- Also important at site: Waterfowl (Lesser Snow Goose, Atlantic Brant)

Site details:

- Species at risk: Red Knot spp. *rufa* (Endangered)
- Non-binding designations: Ramsar Wetland of International Importance; International Biological Programme Site; Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

None

Threats to birds from current/future activities at site:

None

Potential consequences for bird populations:

None

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

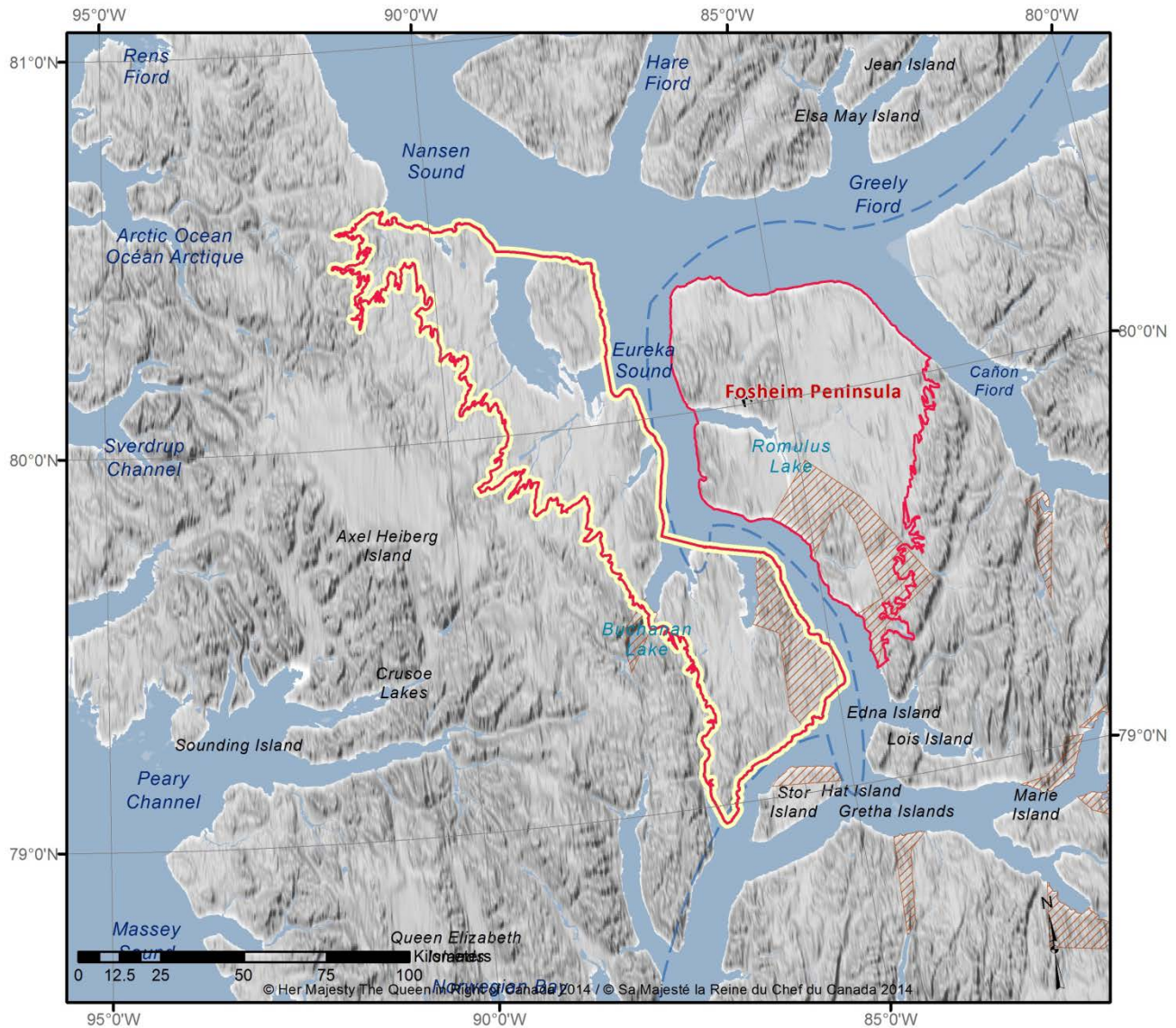
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

East Axel Heiberg Islands



Category:

Highly risk intolerant

Qualifying Criterion:

- Hosts more than 5% of a national population of one or more species exhibiting population declines as of 2005 (Red Knot *ssp. islandica*)
- Contains habitat likely to be identified as Critical Habitat for Peary Caribou which is listed as 'endangered' or 'threatened' under the *Species at Risk Act*

Feature bird group:

Shorebird

Site details:

- Important habitat for Peary Caribou
- Species at risk: Peary Caribou (Endangered), Red Knot spp. *islandica* (special concern)
- Non-binding designations: none

Current human activities at site:

Shipping; coal exploration license

Anticipated human activities at site:

Shipping; coal exploration

Threats to birds from current/future activity:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships; human disturbance from mineral prospecting/mining activities anticipated; increase in air traffic disturbance related to mineral prospecting/mining activities anticipated.

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution; higher potential for bird-aircraft collisions originating from air traffic at low altitude or from flying too close to concentration of birds; disruption of feeding and nesting birds resulting in loss of eggs and/or young

Recommended restrictions on activities:

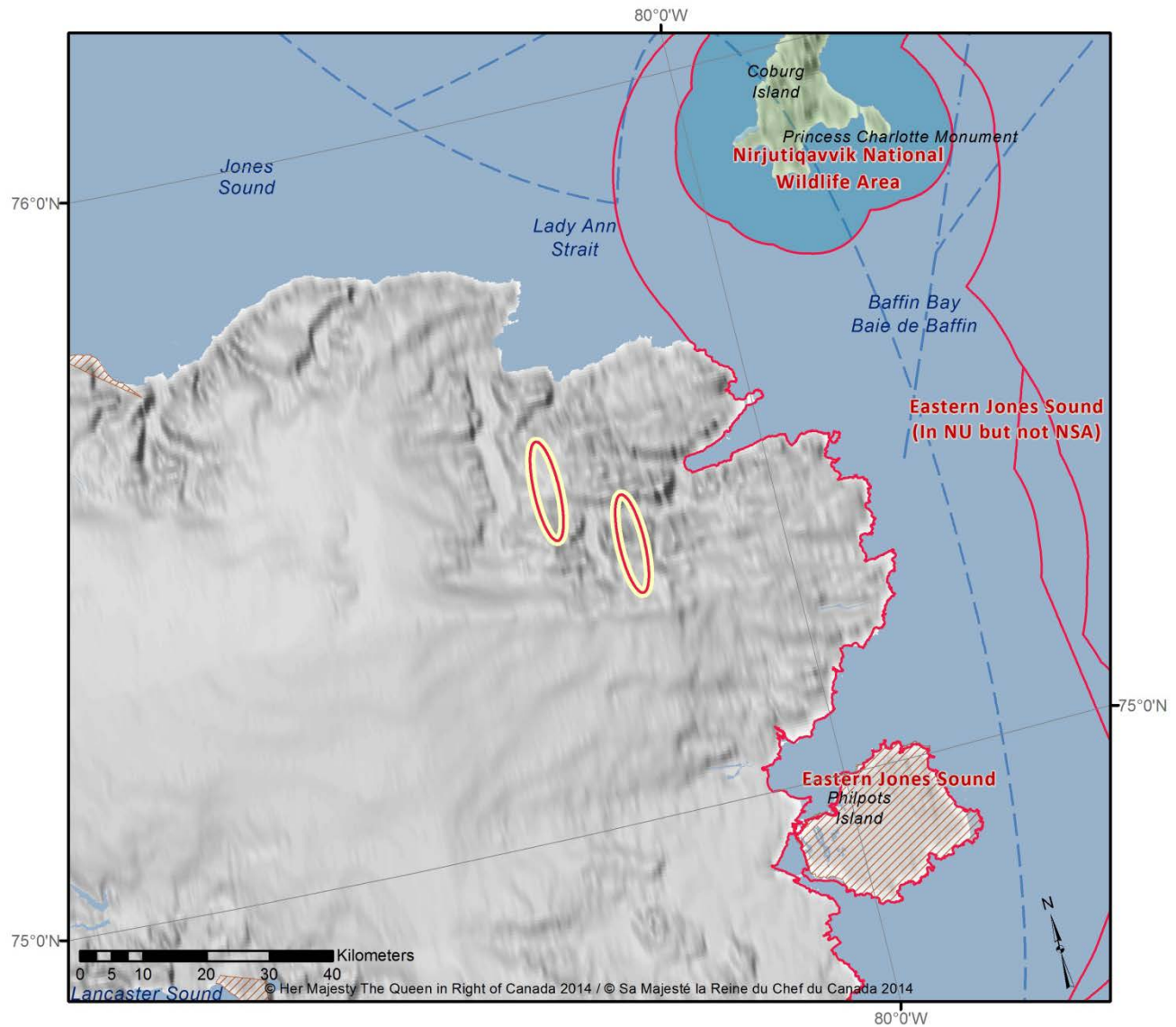
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Eastern Devon Island



Category:

Highly risk intolerant

Qualifying Criterion:

Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Species at risk: Ivory Gull (Endangered)
- Non-binding designations: Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

None

Threats to birds from current /future activities at site:

None

Potential consequences for bird populations:

None

Recommended restrictions on activities:

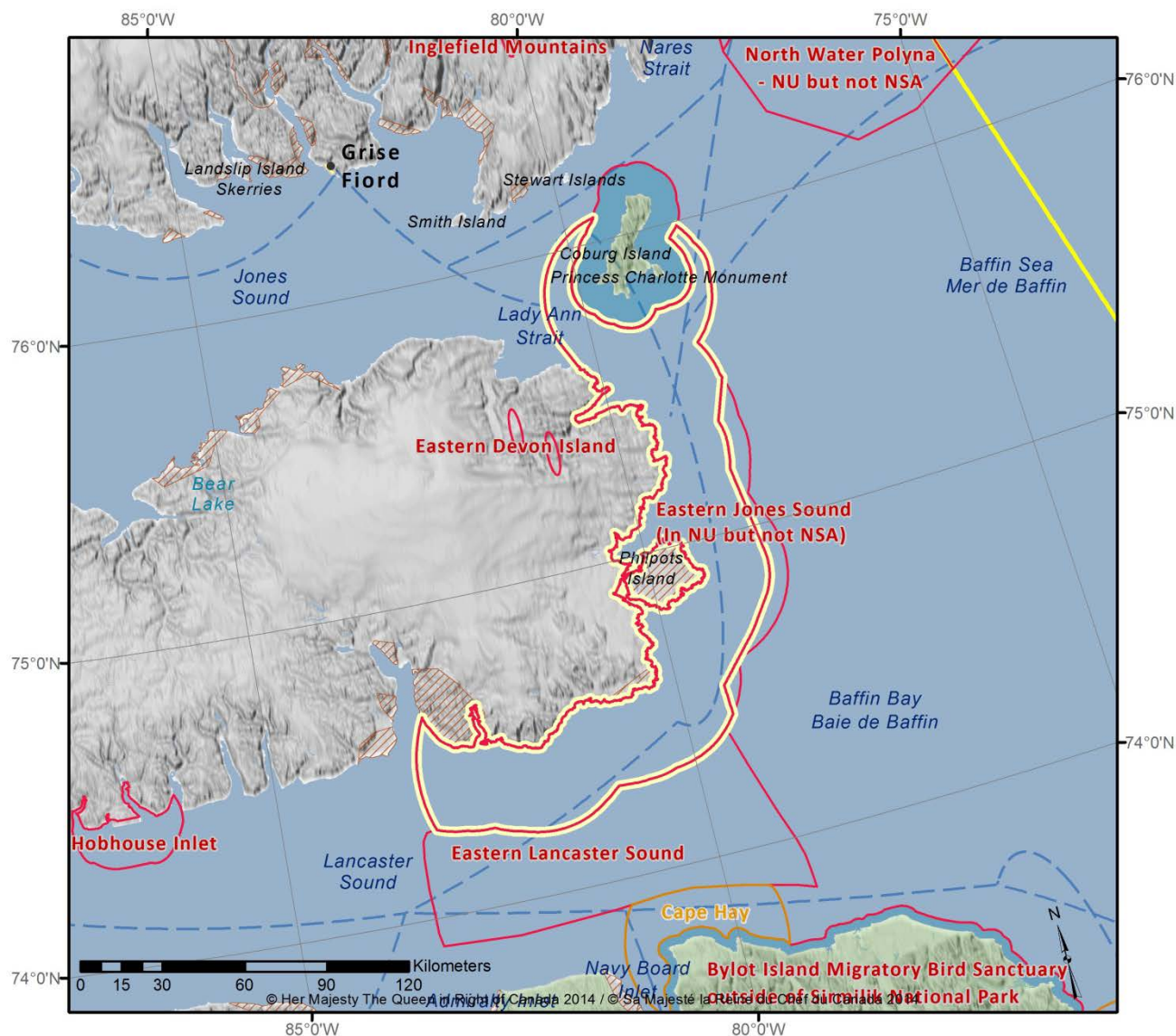
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Marine Setbacks (Ivory Gull); EC-CWS Terrestrial Setbacks (Ivory Gull); EC-CWS Aerial Setbacks (All Seabirds),
Emergency Preparedness

SITE NAME:

Eastern Jones Sound



Category:

Highly risk intolerant

Qualifying Criterion:

- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)
- Hosts more than 10% of a national population of one or more migratory bird species (Thick-billed Murre, Black-legged Kittiwake)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Thick-billed Murre)

Feature bird group:

Seabird

Site details:

- Species at risk: Ivory Gull (Endangered), Polar Bear (Special Concern)
- Non-binding designation: None

Current human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; risk for oil spills and operational releases originating from shipping; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

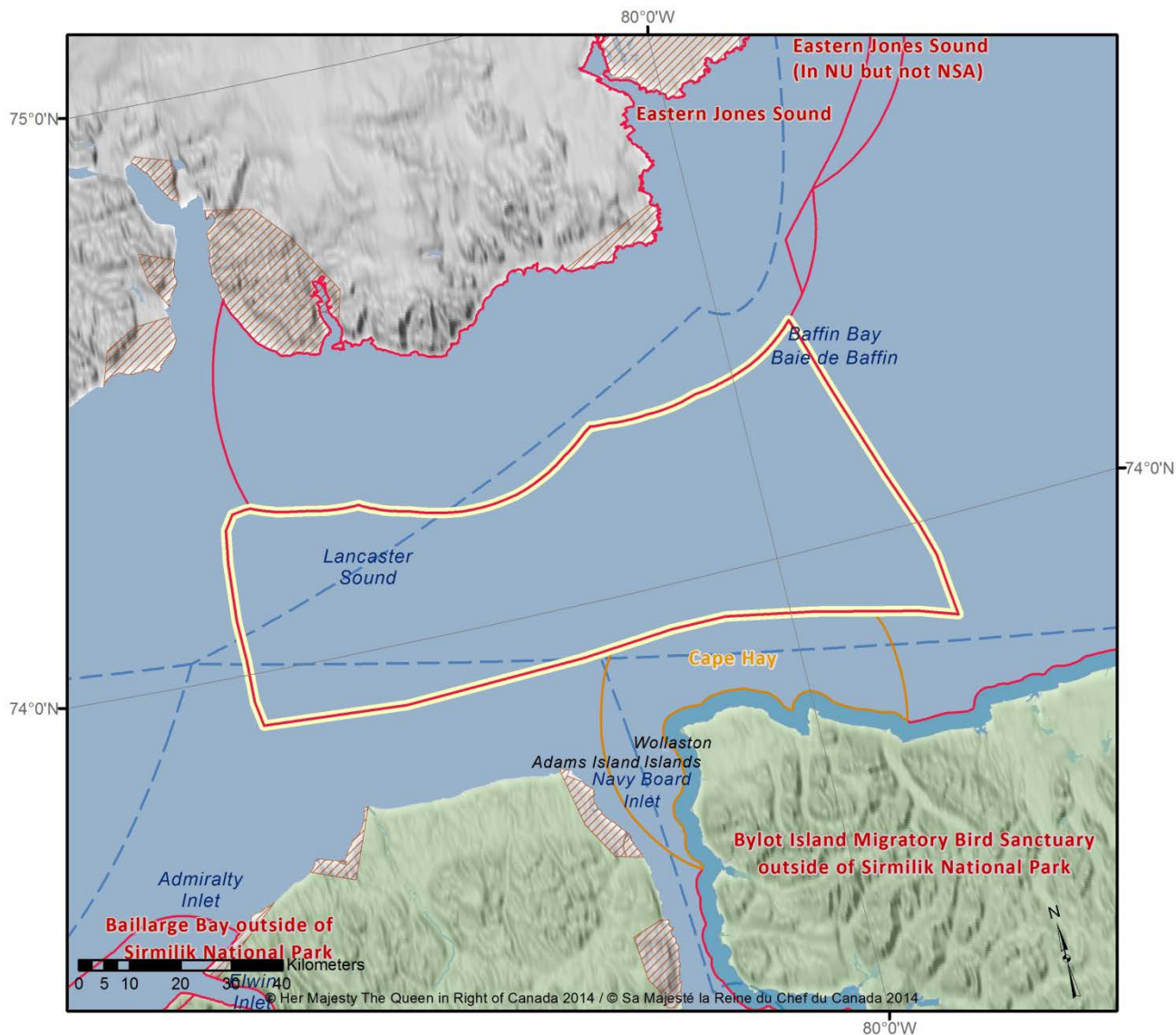
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Eastern Lancaster Sound



Category:

Highly risk intolerant

Qualifying Criterion:

- Hosts more than 10% of a national population of one or more migratory bird species (Black-legged Kittiwake, Northern Fulmar, Thick-billed Murre)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Thick-billed Murre)
- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Important stopover during migration for many migratory bird species
- Important feeding site – floe edge and polynya
- Important area for many species of marine mammals
- Species at risk: Ivory Gull (Endangered), Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; commercial fishing; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

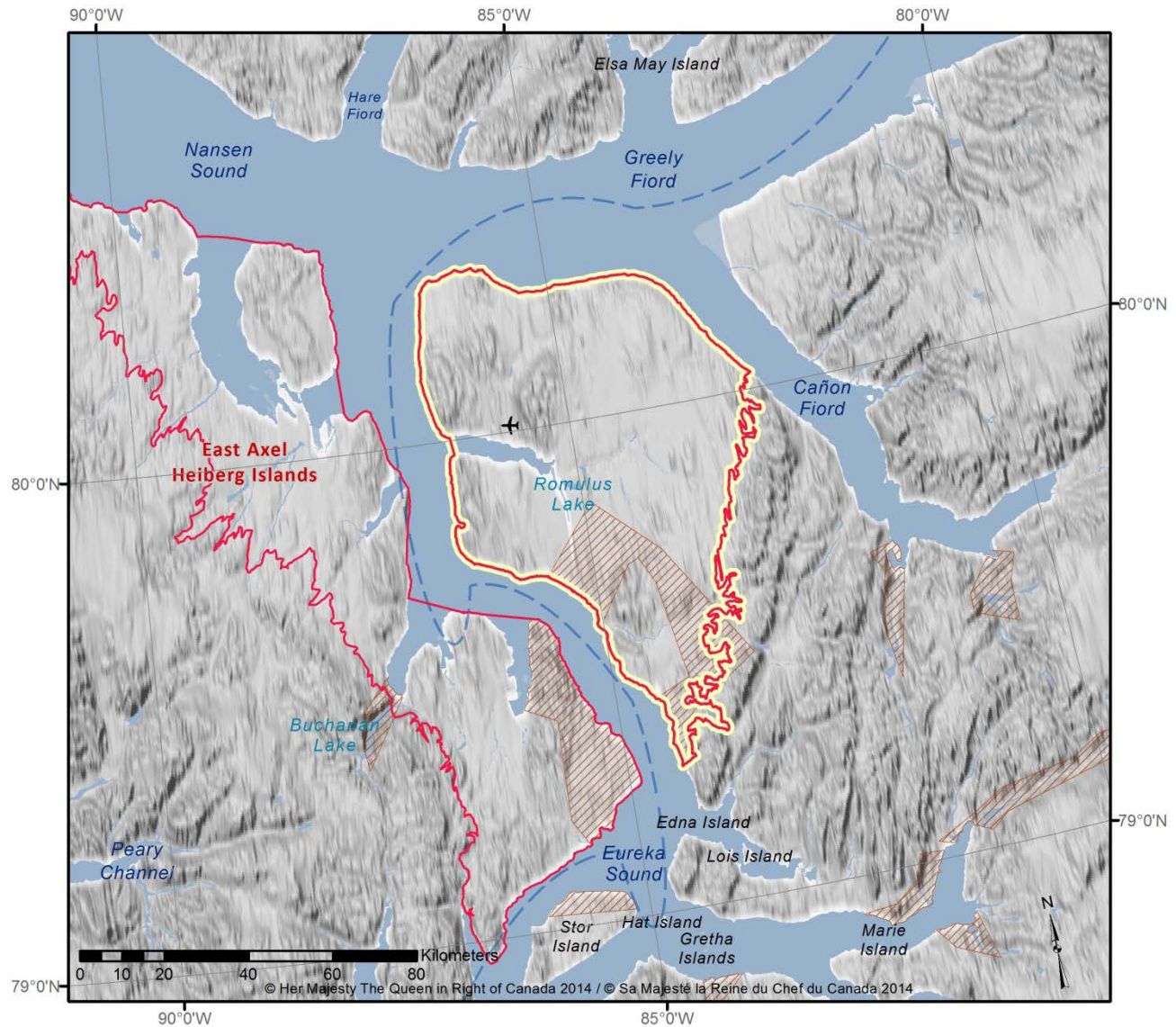
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Fosheim Peninsula



Category:

Highly risk intolerant

Qualifying Criterion:

- Hosts more than 5% of a national population of one or more species exhibiting population declines as of 2005 (Ruddy Turnstone, Red Knot)
- Contains habitat likely to be identified as Critical Habitat for a species listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Peary Caribou)

Feature bird group:

Shorebird

Site details:

- Species at risk: Peary Caribou (Endangered), Red Knot spp. *islandica* (Special Concern)
- Non-binding designations: None

Current human activities at site:

Coal exploration license; shipping; weather station/military base

Anticipated human activities at site:

Coal exploration; shipping; weather station/military base

Threats to birds from current/future activities at site:

Human and terrestrial traffic disturbance related to mining-exploration, military, and weather station activities; air traffic disturbance related to mining exploration, military, and weather station activities; marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; potential for bird-aircraft collisions originating from air traffic at low altitude or too close from concentration of birds

Recommended restrictions on activities:

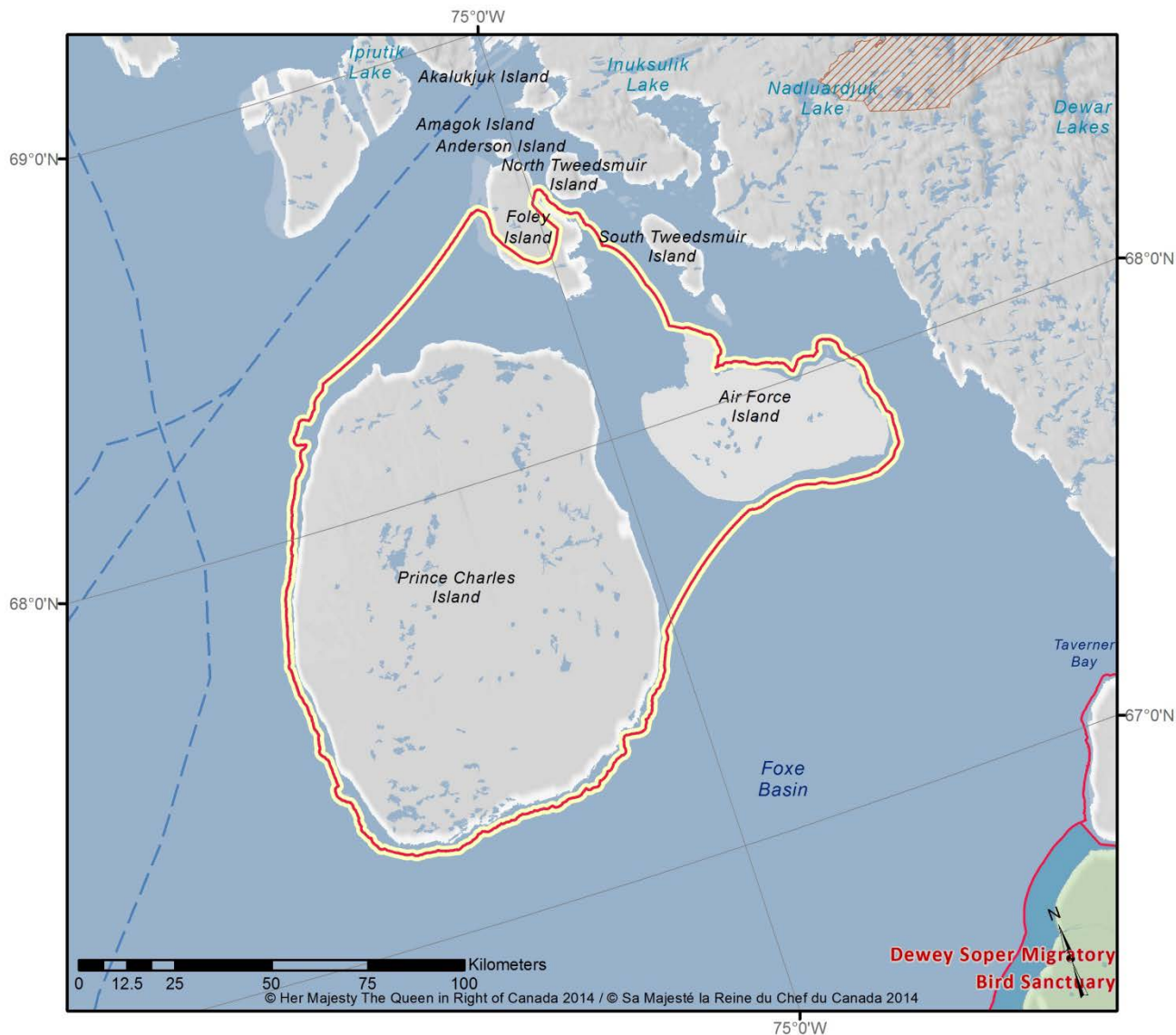
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Foxe Basin (Prince Charles, Air Force, Foley Islands)



Category:

Highly risk intolerant

Qualifying Criterion:

- Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Red Knot, Ross's Gull)
- Hosts more than 10% of a national population of one or more migratory bird species (Dunlin, Red Phalarope, White-rumped Sandpiper, Ruddy Turnstone, Purple Sandpiper, Long-tailed Jaeger, Sabine's Gull, Atlantic Brant)
- Hosts more than 5% of a national population of one or more species exhibiting population decline as of 2005 (Dunlin, Red Phalarope, Ruddy Turnstone)

Feature bird group:

Seabird, Shorebird, Waterfowl

Site details:

- Species at risk: Red Knot spp. *rufa* (Endangered), Ross's Gull (Endangered), Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

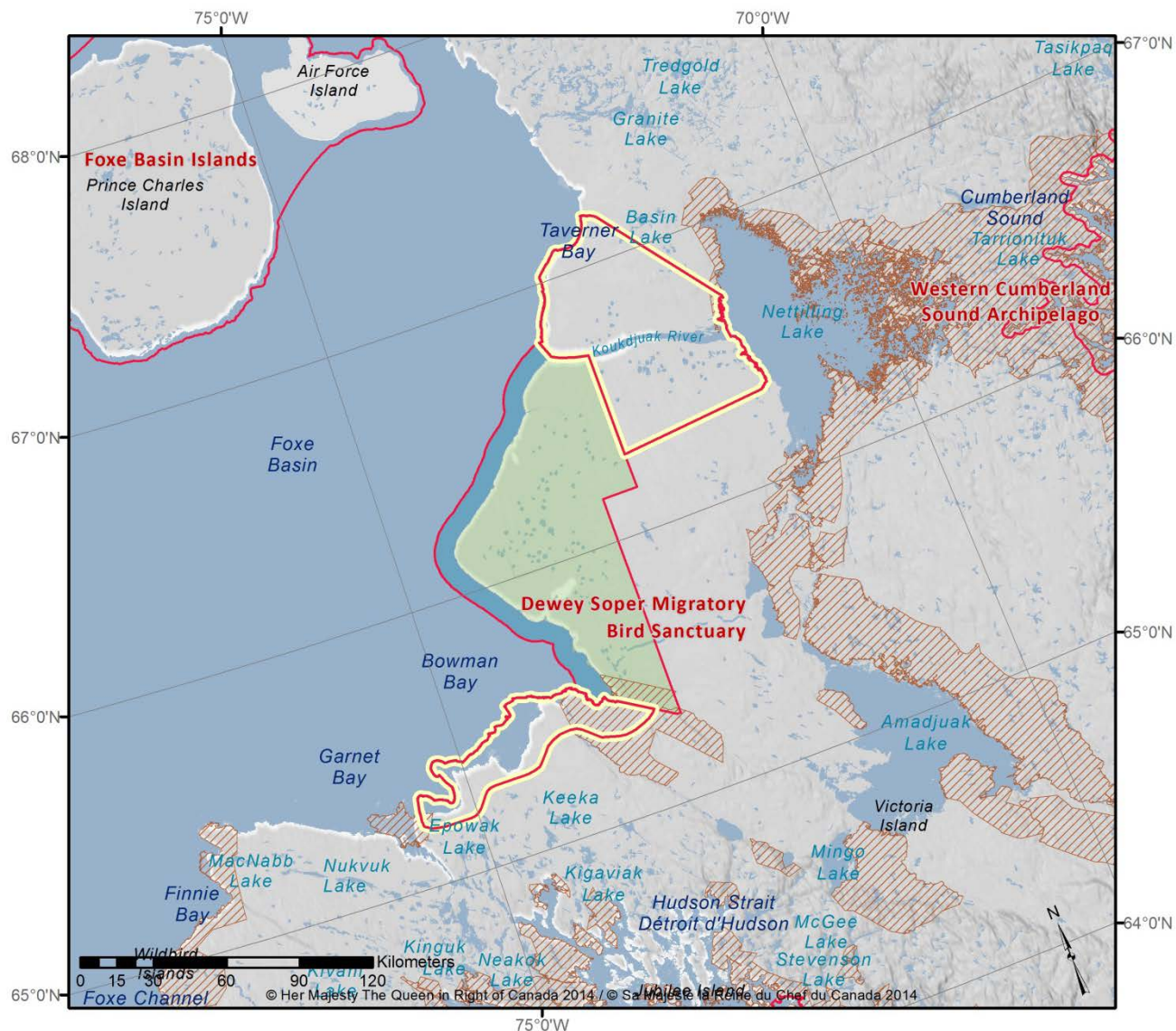
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Great Plain of the Koukdjuak (outside of Dewey Soper MBS)



Category:

Highly risk intolerant

Qualifying Criterion:

- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Red Knot)
- Hosts more than 10% of a national population of one or more migratory bird species (Black-bellied Plover, Dunlin, Red Phalarope, Red Knot, Ruddy Turnstone, White-rumped Sandpiper, Lesser Snow Goose)
- Hosts more than 5% of a national population of one or more species exhibiting population decline as of 2005 (American Golden-Plover, Black-bellied Plover, Dunlin, Red Phalarope, Red Knot, Ruddy Turnstone)

Feature bird group:

Shorebird, Waterfowl. Also important at site: Coastal Waterfowl (Atlantic Brant)

Site details:

- Species at risk: Red Knot spp. *rufa* (Endangered)
- Non-binding designations: Ramsar Wetland of International Importance; International Biological Programme Site; Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

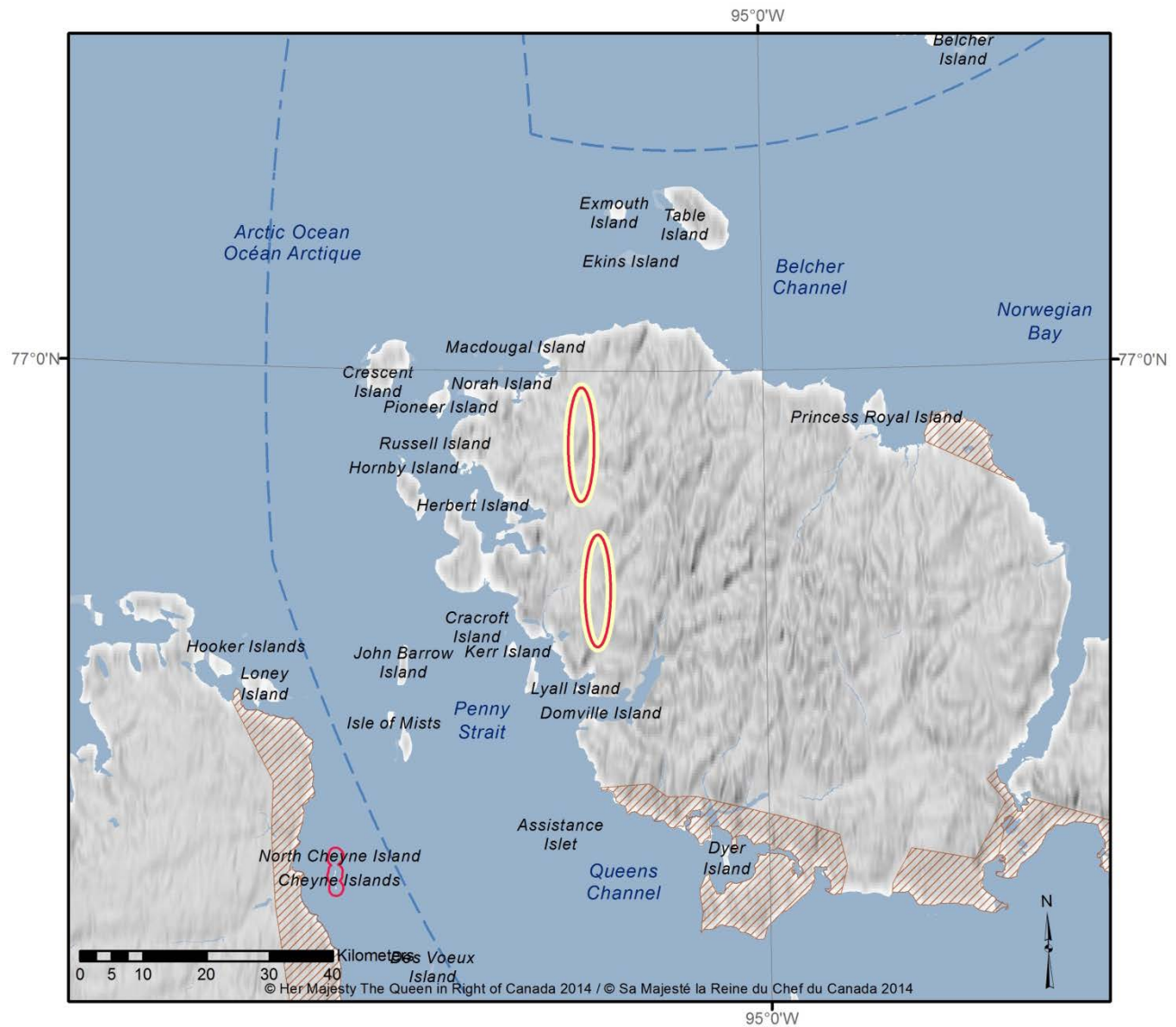
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Grinnell Peninsula



Category:

Highly risk intolerant

Qualifying Criterion:

Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Species at risk: Ivory Gull (Endangered)
- Non-binding designations: None

Current human activities at site:

None

Anticipated human activities at site:

None

Threats to birds from current/future activities at site:

None

Potential consequences for bird populations:

None

Recommended restrictions on activities:

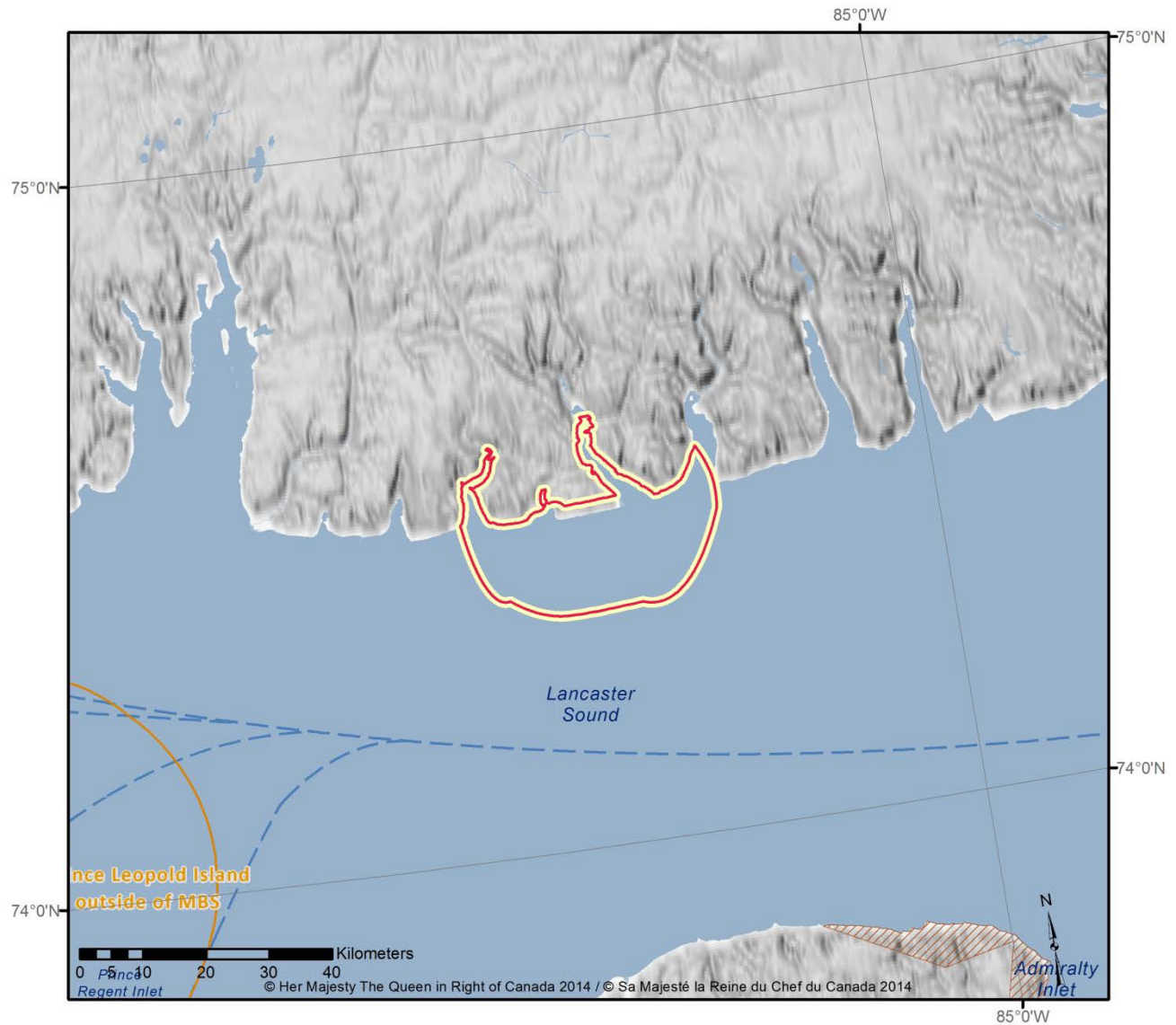
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Hobhouse Inlet



Category:

Highly risk intolerant

Qualifying Criterion:

Hosts more than 10% of a national population of one or more migratory bird species (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: International Biological Programme Site; Important Bird Area

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk of oil spills and operational releases originating from ships; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

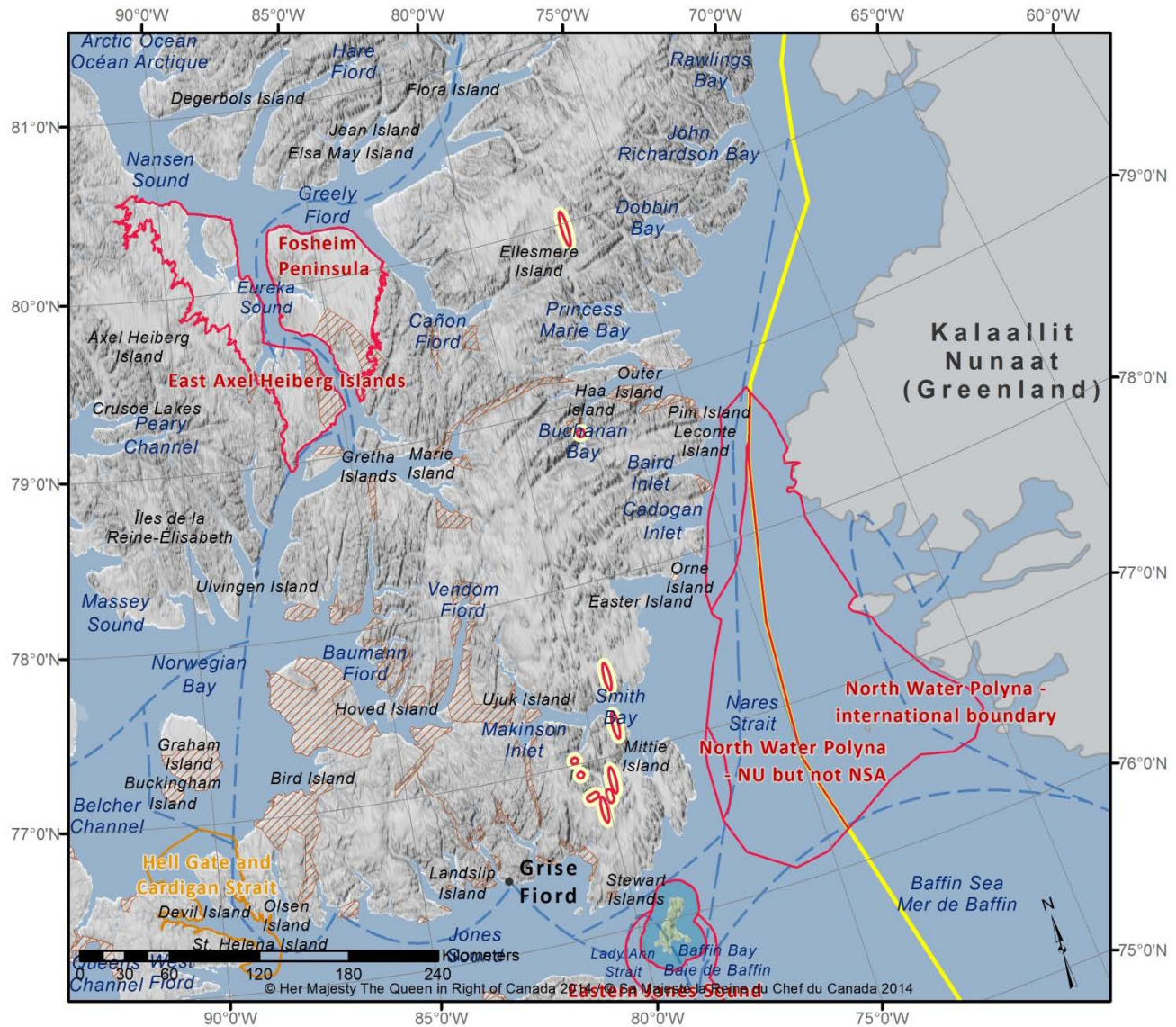
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Inglefield Mountains



Category:

Highly risk intolerant

Qualifying Criterion:

Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Species at risk: Ivory Gull (Endangered)
- Non-binding designations: Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

None

Threats to birds from current/future activities at site:

None

Potential consequences for bird populations:

None

Recommended restrictions on activities:

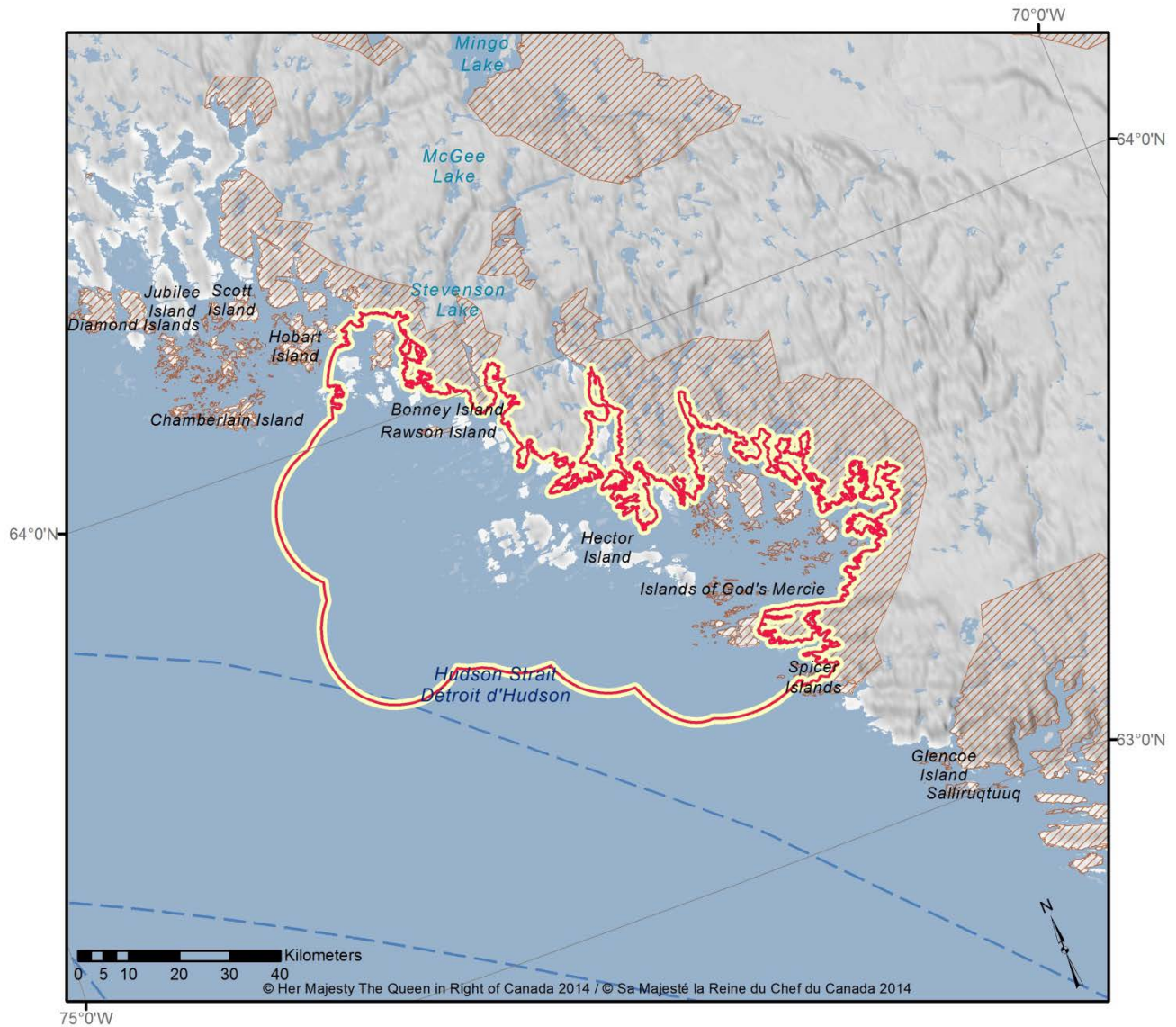
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (Ivory Gull); Emergency Preparedness

SITE NAME:

Markham Bay



Category:

Highly risk intolerant

Qualifying Criterion:

Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)

Feature bird group:

Seaduck

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

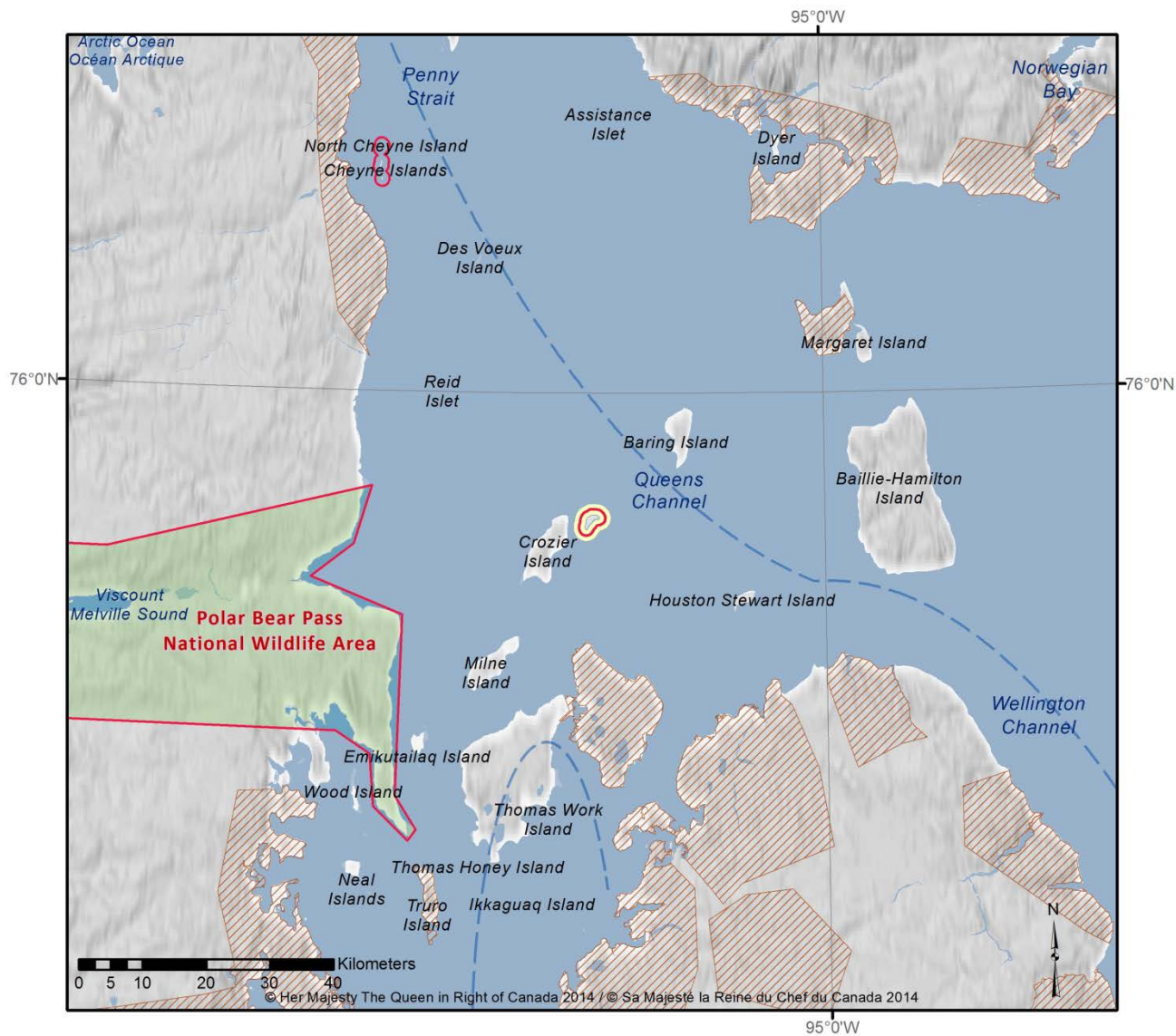
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks);
Emergency Preparedness

SITE NAME:

Nasaruvaalik Island



Category:

Highly risk intolerant

Qualifying Criterion:

- Contain habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ross's Gull)
- Hosts more than 10% of a national population of one or more migratory bird species (Ross's Gull)

Feature bird group:

- Seabird
- Also important at site: Seaduck (Common eider)

Site details:

- Species at risk: Ross's Gull (Threatened)
- Non-binding designations: None

Current human activities at site:

None

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

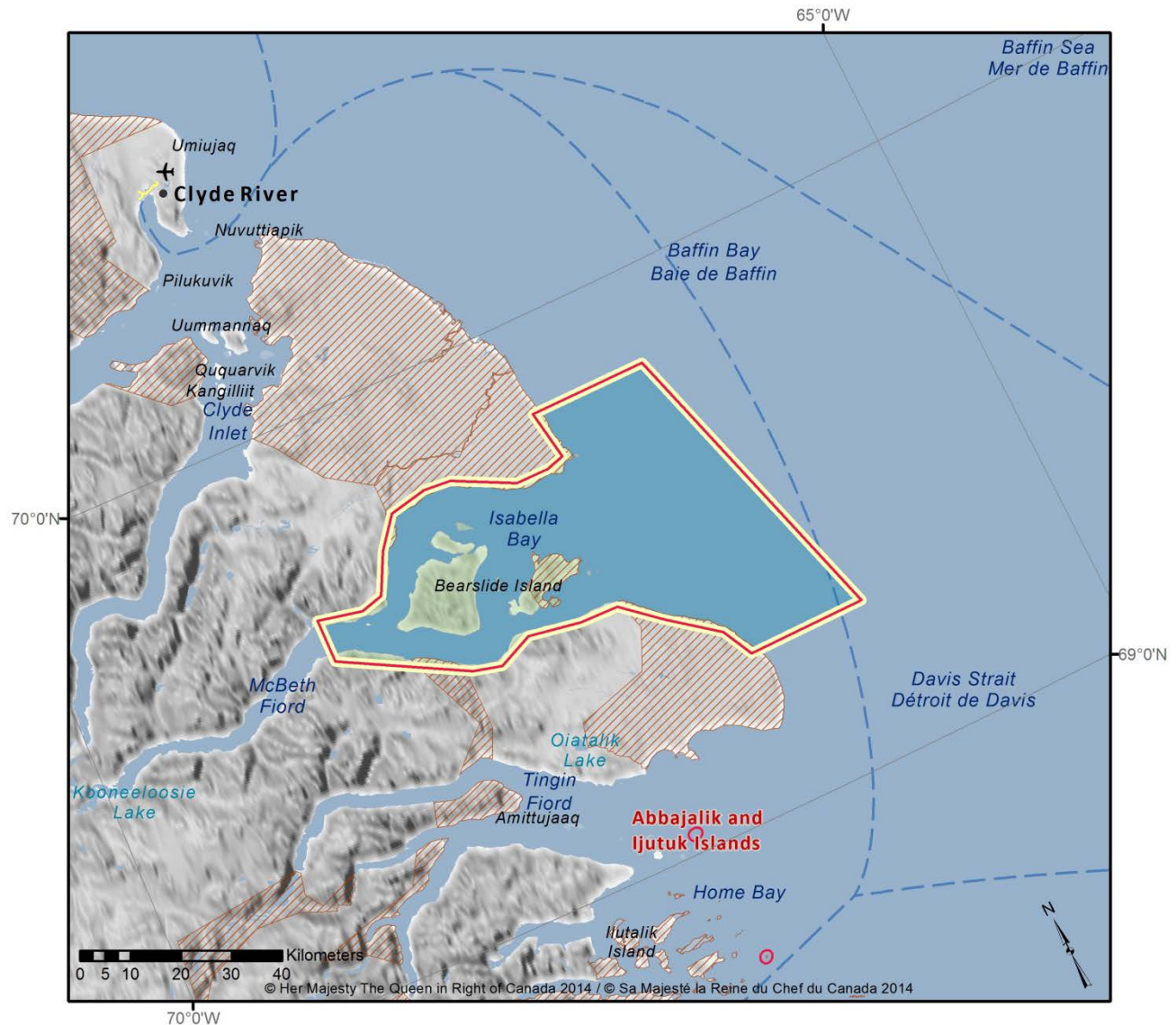
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds) (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (All Seabirds) (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (All Seabirds) (Coastal Waterfowl and Seaducks);
Emergency Preparedness

SITE NAME:

Ninginganiq National Wildlife Area



Category:

Highly risk intolerant

Qualifying Criterion:

Legislated protected area under the *Canada Wildlife Act*

Feature bird group:

Seabird (Northern Fulmar, Dovekie)

Site details:

- National Wildlife Area established to protect Bowhead Whale habitat; largest known concentration of Bowhead Whales
- Species at risk: Peregrine Falcon (Special Concern), Polar Bear (Special Concern)
- Non-binding designations: None

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to whales and birds from current/future activity: Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping

Potential consequences for whale and bird populations:

Higher potential for animal-ship collisions originating from all shipping activities; disruption of feeding animals resulting in energetic losses; direct loss of animals due to contaminants and pollution

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

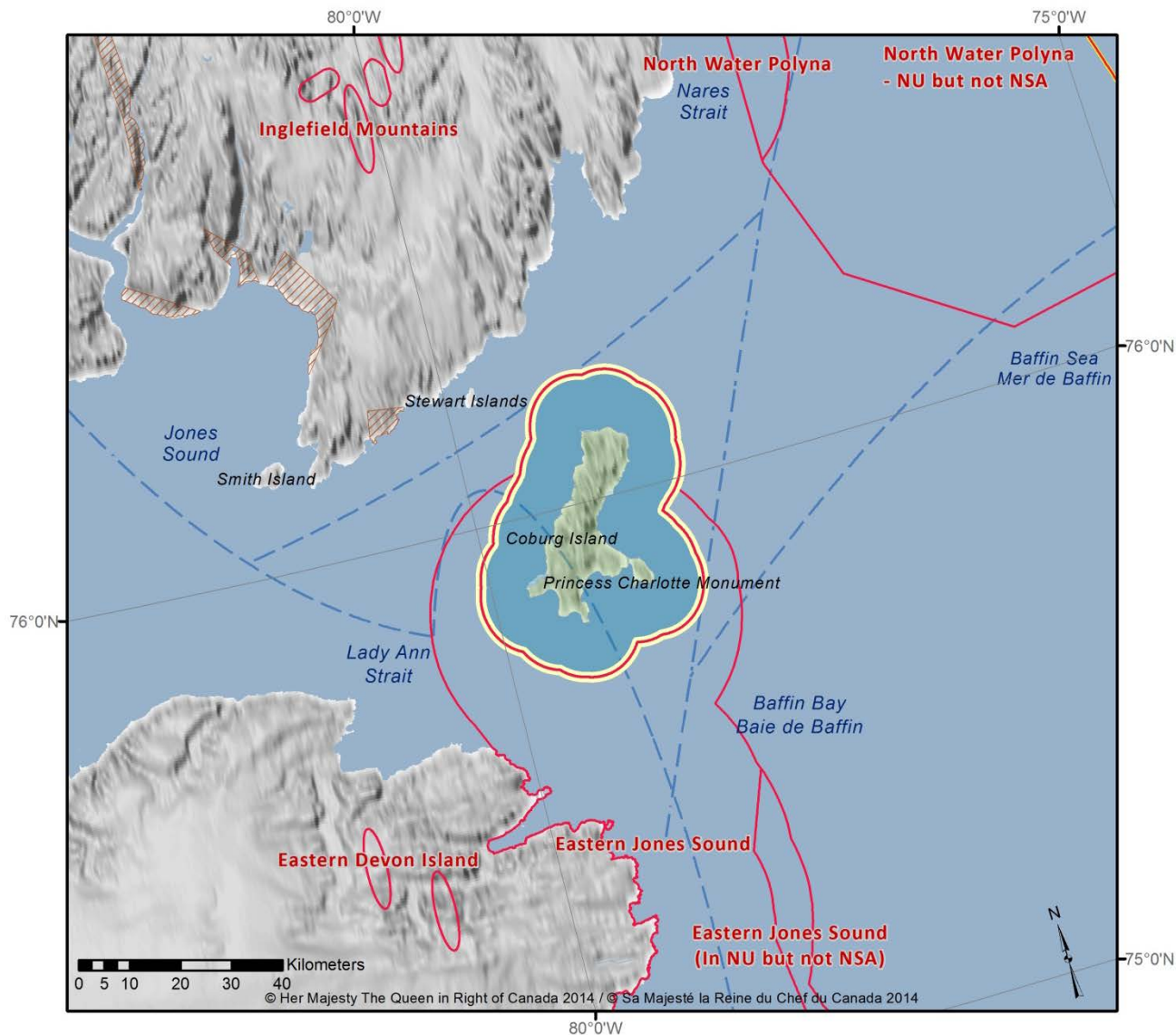
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Migratory Birds); EC-CWS Marine Setbacks (All Migratory Birds); EC-CWS Terrestrial Setbacks (All Migratory Birds); Emergency Preparedness

SITE NAME:

Nirjutiqavvik National Wildlife Area



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Canada Wildlife Act*
- Hosts more than 10% of a national population of one or more migratory bird species (Thick-billed Murre, Black-legged Kittiwake)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Thick-billed Murre)

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area; International Biological Programme Site

Current human activities at site:

Shipping; cruise ship tourism;

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

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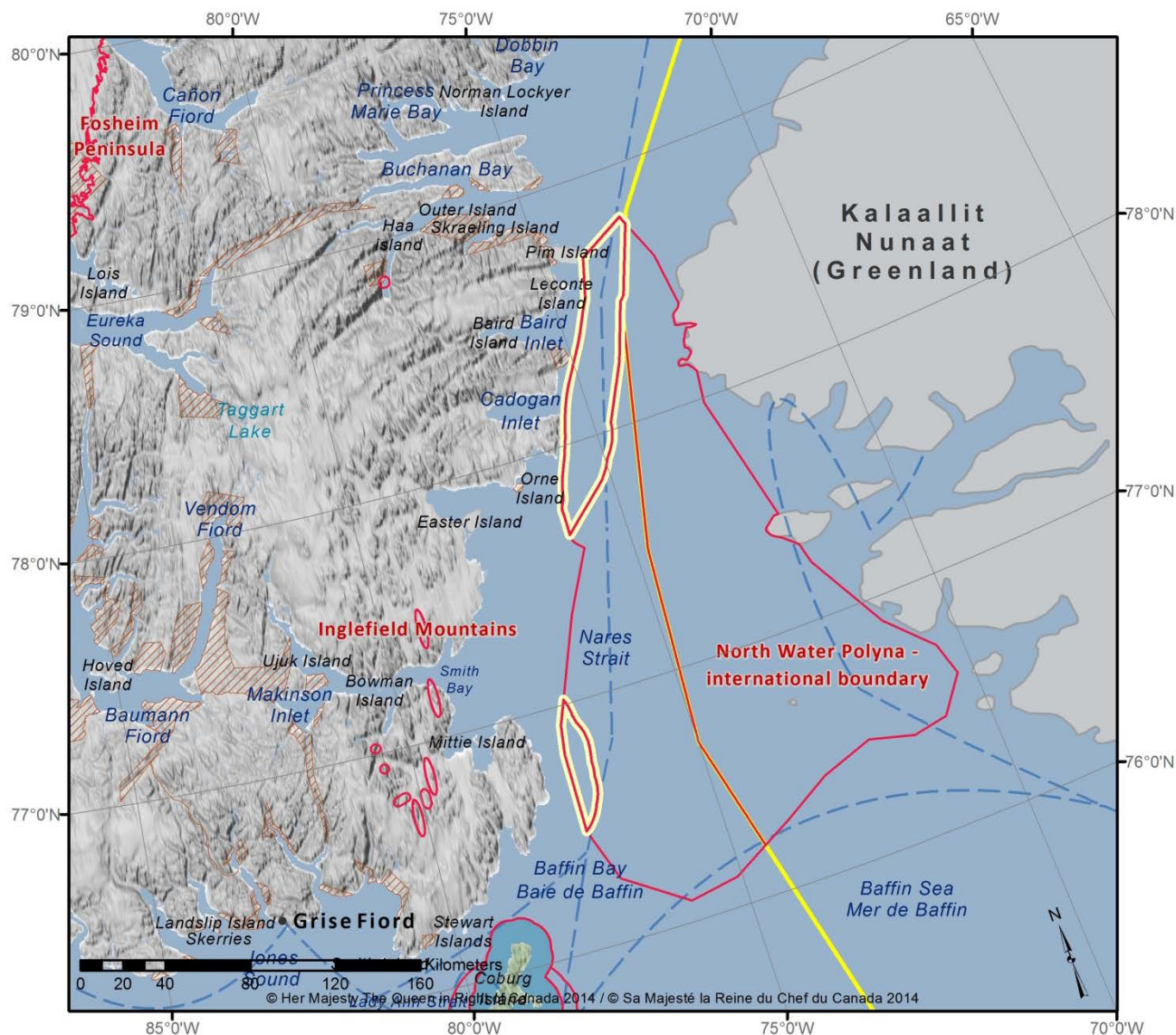
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

North Water Polynya



Category:

Highly risk intolerant

Qualifying Criterion:

- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)
- Contains species with population >10% of national population (Black-legged Kittiwake, Thick-billed Murre, Ivory Gull)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' (Thick-billed Murre)

Feature bird group:

Seabird, Seaducks (Common Eider)

Site details:

- Species at risk: Ivory Gull (Endangered); Polar Bear (Special Concern)
- Non-binding designations: None

Current human activities at site:

Shipping; cruise ship tourism

Anticipated human activities at site:

Shipping; cruise ship tourism; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding birds resulting in compromised energetics; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Recommended restrictions on activities:

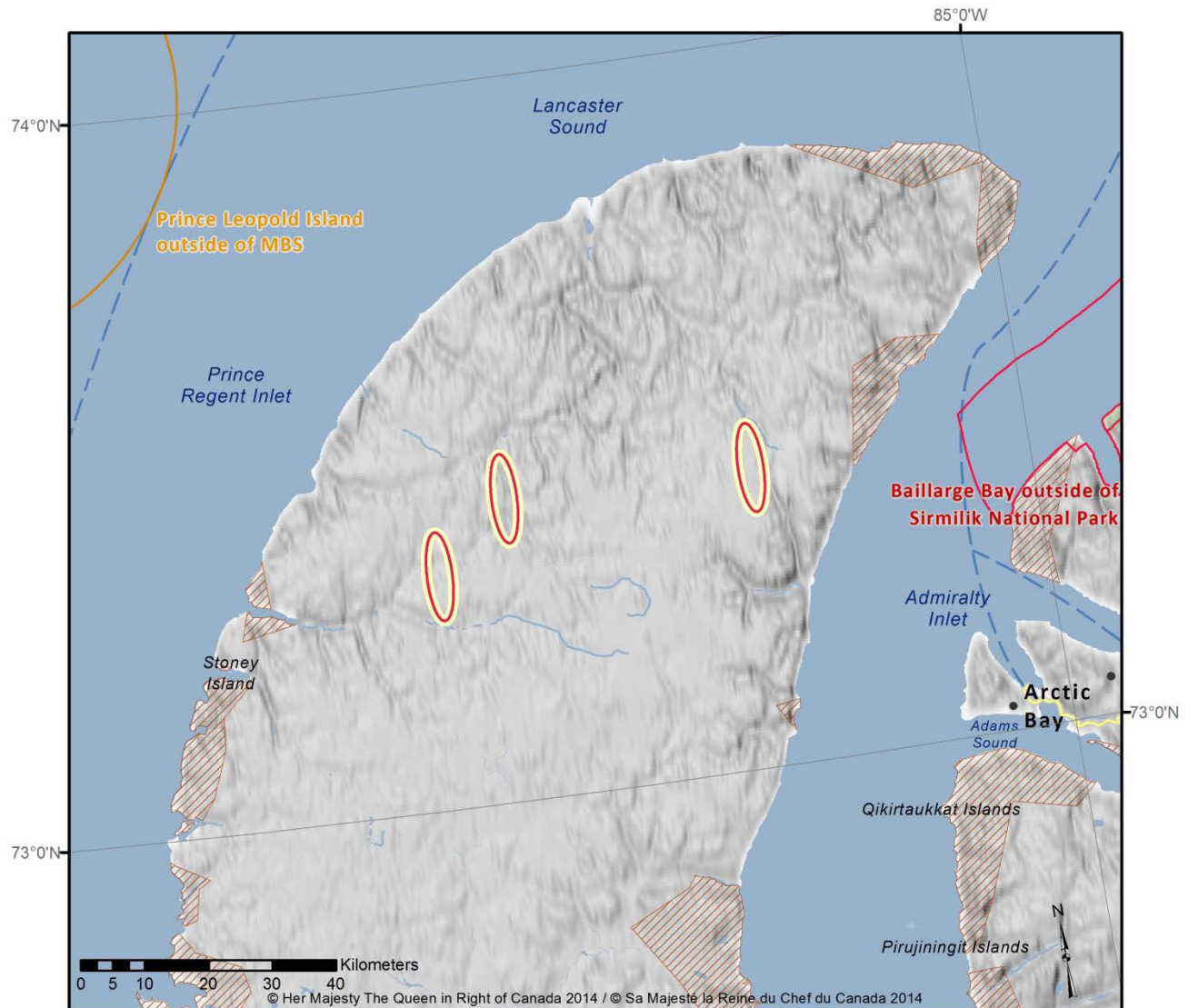
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Northwestern Brodeur Peninsula



Category:

Highly risk intolerant

Qualifying Criterion:

- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)
- Hosts more than 10% of a national population of a migratory bird species (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Species at risk: Ivory Gull (Endangered)
- Non-binding designations: Important Bird Area

Current human activities at site:

Mineral claim

Anticipated human activities at site:

Mineral claim

Threats to birds from current/future activities at site:

Air traffic disturbance related to mining exploration activities

Potential consequences for bird populations:

Potential for bird-aircraft collisions originating from air traffic at low altitude or from flying too close to concentration of birds; disruption of feeding and nesting birds resulting in loss of eggs and/or young

Recommended restrictions on activities:

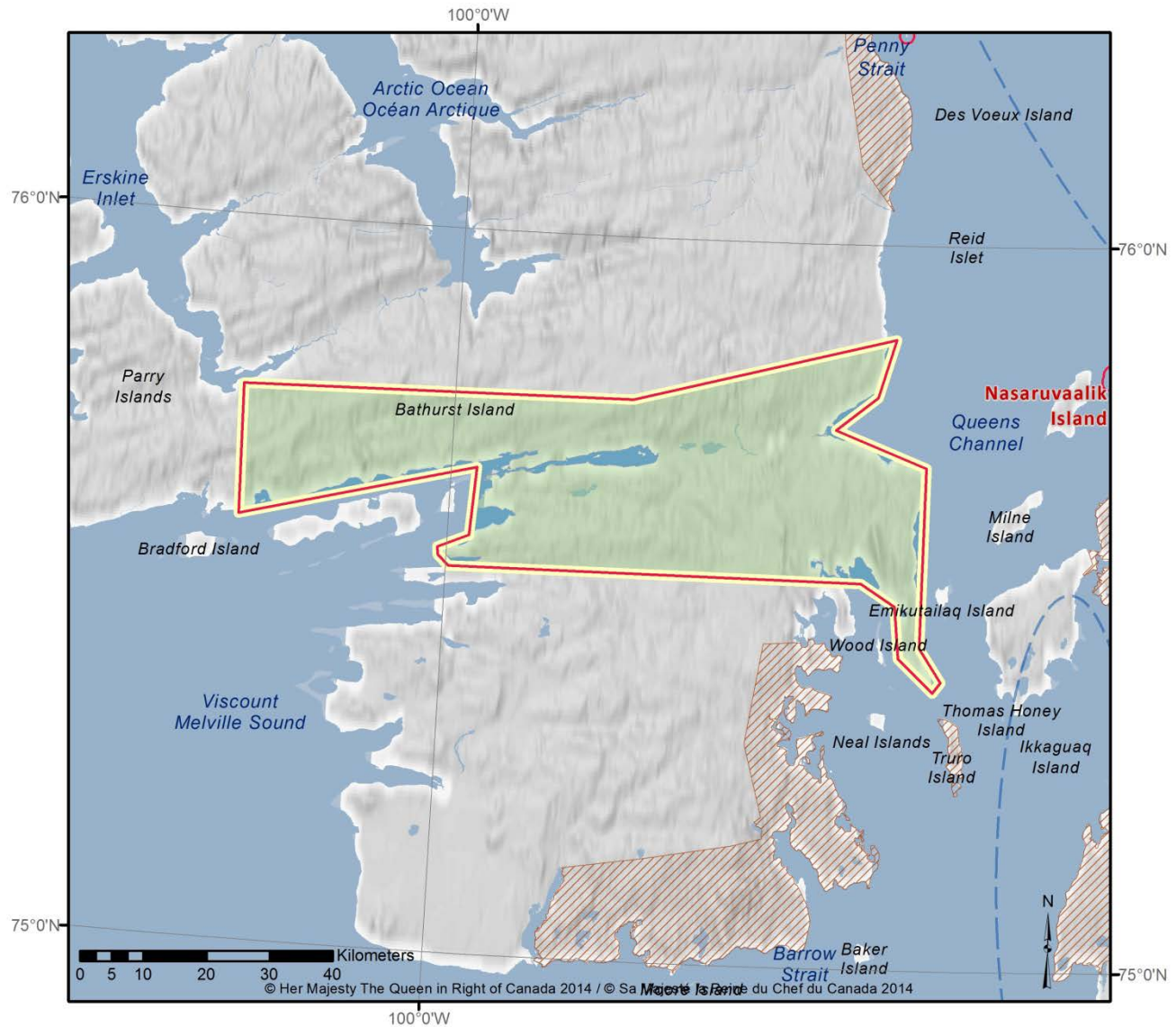
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (Ivory Gull); Emergency Preparedness

SITE NAME:

Polar Bear Pass National Wildlife Area



Category:

Highly risk intolerant

Qualifying Criterion:

Legislated protected area under the *Canada Wildlife Act*

Feature bird group:

Shorebird (e.g. red phalarope, white-rumped sandpiper), Seaduck (e.g. King Eider), Waterfowl (e.g. Greater Snow Goose)

Site details:

- High arctic wetland of exceptional biological diversity
- Species at risk: Peary Caribou (Endangered), Red Knot spp. *islandica* (Special Concern)
- Non-binding designations: Ramsar Wetland of International Importance; International Biological Programme Site

Current human activities at site:

Biological research; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Biological research; shipping; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Human disturbance related to biological research; marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping

Potential consequences for bird populations:

Disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

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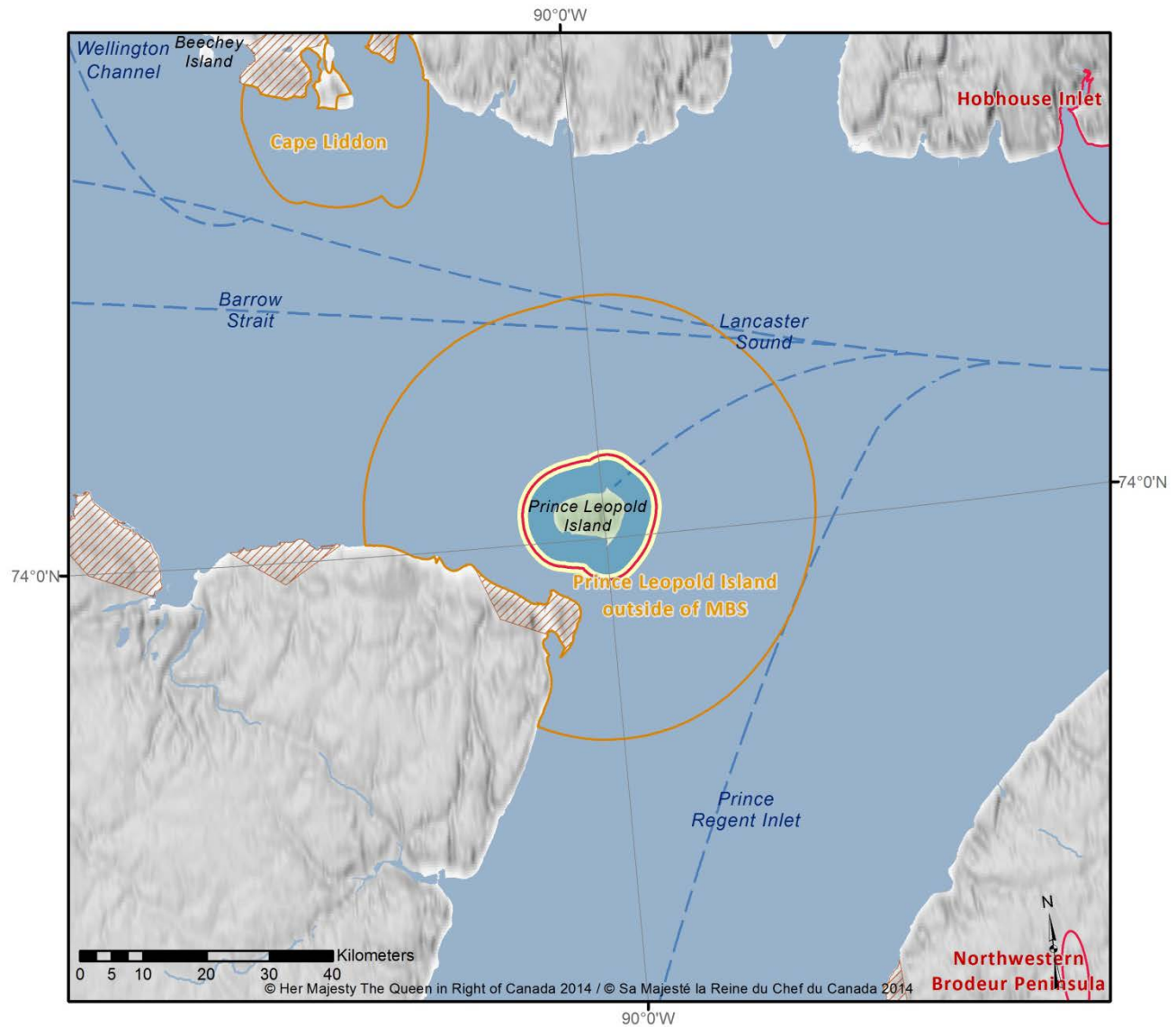
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Prince Leopold Island Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Hosts more than 10% of a national population of one or more migratory bird species (Black-legged Kittiwake, Northern Fulmar).

Feature bird group:

Seabird

Site details:

- Species at risk: Polar Bear (Special Concern)
- Non-binding designations: Important Bird Area; International Biological Programme Site, UNESCO World Heritage Site

Current human activities at site:

Shipping; cruise ship tourism; biological research

Anticipated human activities at site:

Shipping; cruise ship tourism; biological research; commercial fishing

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants; potential for direct loss of seabirds from fishing bycatch

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

The prohibition above is subject to the terms of the *Inuit Impact and Benefit Agreement for Migratory Bird Sanctuaries and National Wildlife Areas in the Nunavut Settlement Area*.

Proponents who wish to undertake activities that are not prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Marine Setbacks (Northern Fulmars); EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Qaqulluit National Wildlife Area



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Canada Wildlife Act*
- Hosts more than 10% of a national population of one or more migratory bird species (Northern Fulmar)

Feature bird group:

Seabird

Site details:

- Largest Northern Fulmar colony in Canada
- Species at risk: Peregrine Falcon (Special Concern); Polar Bear (Special Concern)
- Non-binding designations: International Biological Programme Site, Important Bird Area

Current human activities at site:

Shipping; cruise ship tourism; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

- Shipping; cruise ship tourism; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; increasing human disturbance related to cruise ship tourism; risk for oil spills and operational releases originating from ships; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch

Prohibited Activities:

In Migratory Bird Sanctuaries and National Wildlife Areas, all activities that are inconsistent with the purpose of the protected area or inconsistent with its most recent management plan, where a management plan exists, are prohibited.

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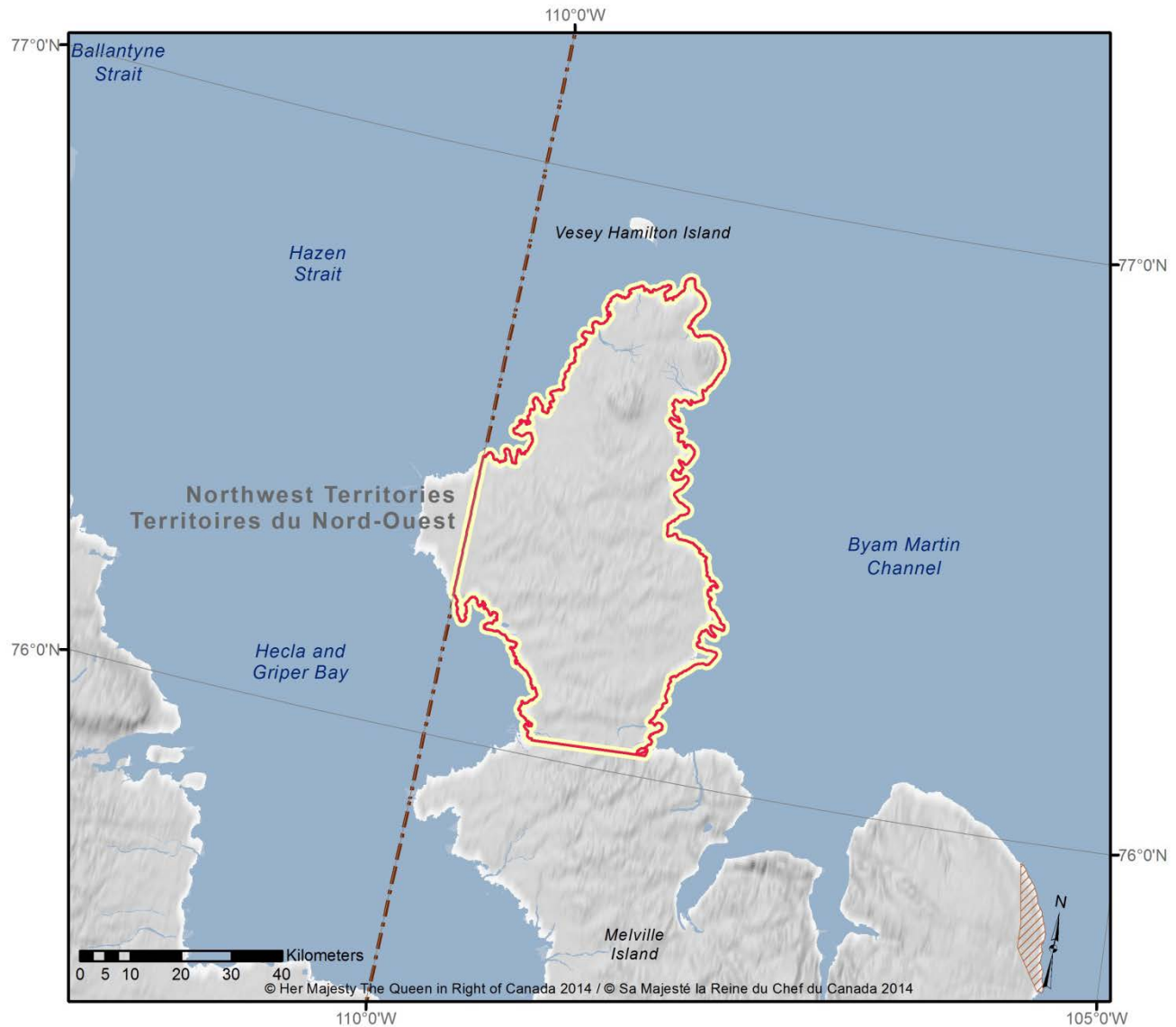
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (Northern Fulmar); EC-CWS Terrestrial Setbacks (All Seabirds); Emergency Preparedness

SITE NAME:

Sabine Peninsula

**Category:**

Highly risk intolerant

Qualifying Criterion:

- Contains habitat likely to be identified as Critical Habitat for a species listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Peary Caribou)
- Also expected to qualify as 'site containing 5 to 10% of one or more species listed as declining as of 2005', pending field studies in summer 2014.

Feature bird group:

Shorebird (e.g. Purple Sandpiper), Waterfowl (e.g. high arctic Brant)

Site details:

- High quality Arctic wetland – an oasis among dry uplands
- Species at risk: Peary Caribou (Endangered), Red Knot spp. *islandica* (Special Concern), Buff-breasted Sandpiper (Special Concern)
- Non-binding designations: None

Current human activities at site:

None

Anticipated human activities at site:

Shipping; oil and gas exploration and production

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping; risk of oil spills and operational releases originating from oil and gas exploration

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities direct loss of birds due to contaminants and pollution; increased risk of oil blow outs and/or spills, causing acute oil pollution

Recommended restrictions on activities:

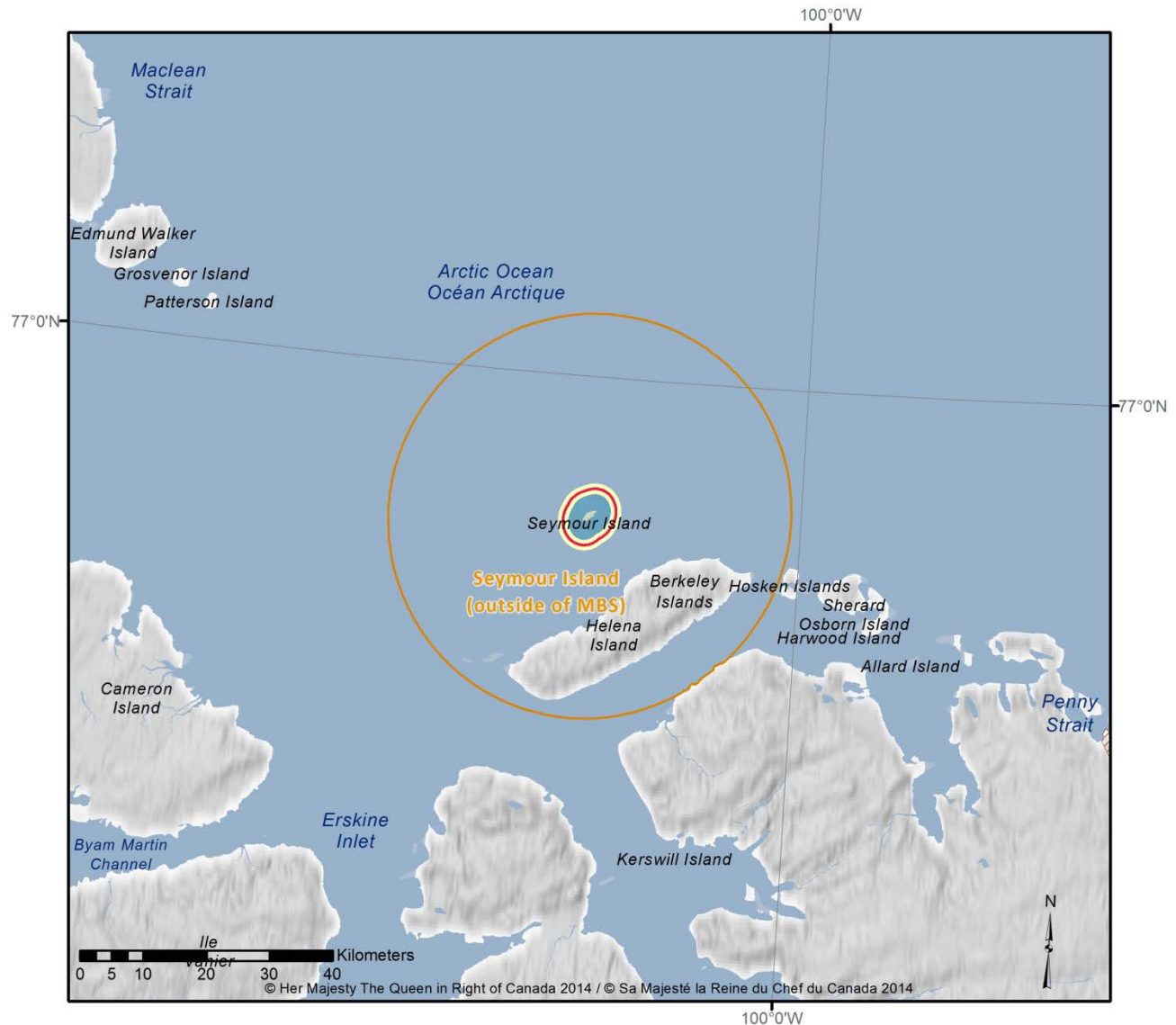
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Seymour Island Migratory Bird Sanctuary



Category:

Highly risk intolerant

Qualifying Criterion:

- Legislated protected area under the *Migratory Birds Convention Act*
- Contains habitat likely to be identified as Critical Habitat for a migratory bird listed as 'endangered' or 'threatened' under the *Species at Risk Act* (Ivory Gull)

Feature bird group:

Seabird

Site details:

- Largest known Ivory Gull colony in Canada
- Species at risk: Ivory Gull (endangered)
- Non-binding designations: International Biological Programme Site; Important Bird Area

Current human activities at site:

None

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk of oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; direct loss of birds due to contaminants and pollution

Prohibited Activities:

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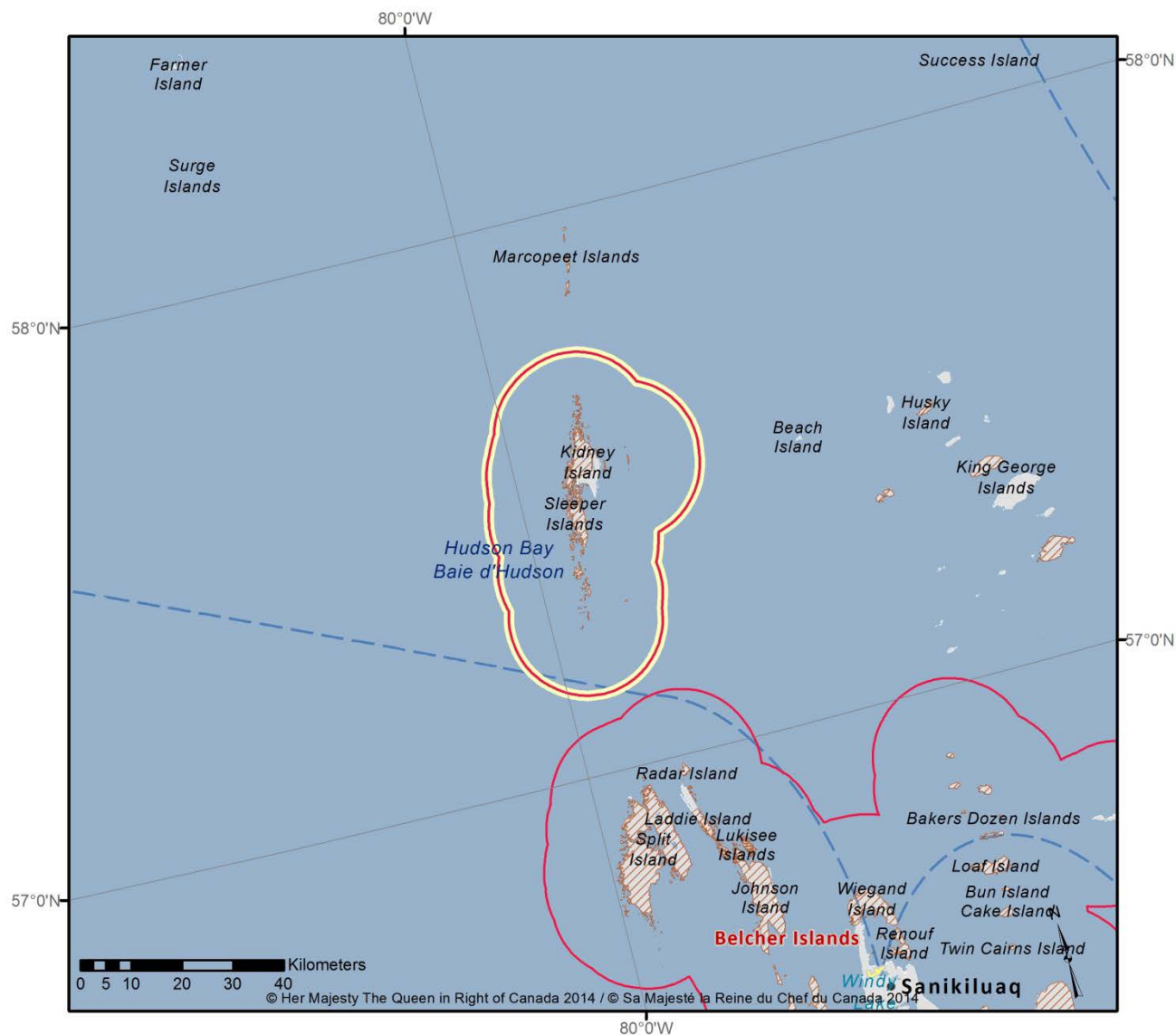
Proponents who wish to undertake activities that are NOT prohibited by the management plan are required to submit a permit application. Please contact the Environment Canada-Canadian Wildlife Service office in Iqaluit.

Recommended setbacks:

EC-CWS Aerial Setbacks (All Seabirds); EC-CWS Marine Setbacks (All Seabirds); EC-CWS Terrestrial Setbacks (Ivory Gull); Emergency Preparedness

SITE NAME:

Sleeper Islands



Category:

Highly risk intolerant

Qualifying Criterion:

- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)
- Hosts more than 10% of a national population of one or more migratory bird species (Common Eider)

Feature bird group:

Seaduck

Site details:

- Virtually all of Hudson Bay subspecies of Common Eider overwinter and breed here, and in the Belcher Island polynyas
- Species at risk: None
- Non-binding designations: Important Bird Area

Current human activities at site:

Shipping

Anticipated human activities at site:

Shipping

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from ships

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities direct loss of birds due to contaminants and pollution

Recommended restrictions on activities:

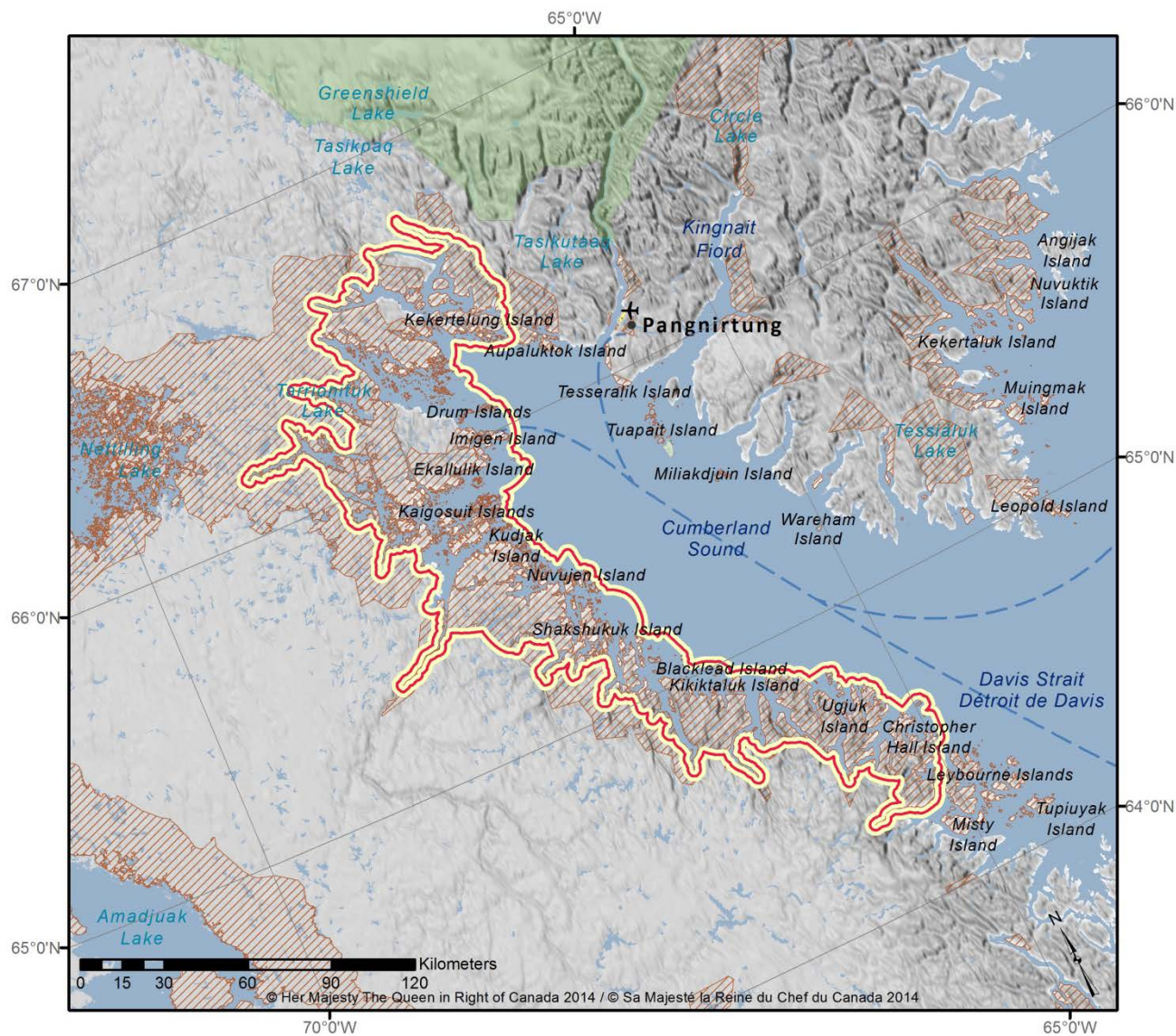
Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

SITE NAME:

Western Cumberland Sound



Category:

Highly risk intolerant

Qualifying Criterion:

- Host more than 10% of a national population of one or more migratory bird species (Iceland Gull)
- Supports a percentage of a national species population equal to or greater than the percentage of 'sustainable loss' that the population can tolerate (Common Eider)

Feature bird group:

Seabird, Seaduck

Site details:

- Largest breeding concentration of Iceland Gulls in Canada
- Species at risk: Polar Bear (Special Concern), Beluga Whale (Endangered, schedule 2, SE Baffin Island/Cumberland Sound population)
- Non-binding designations: None

Current human activities at site:

Shipping; mineral claim; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Anticipated human activities at site:

Shipping; mineral exploration; commercial fishing; harvesting and ancillary activities by Nunavut Land Claims Agreement beneficiaries

Threats to birds from current/future activities at site:

Marine traffic/shipping disturbance as the area experiences increasing ship traffic; risk for oil spills and operational releases originating from shipping; risk of bycatch from commercial fishing activities anticipated; air traffic disturbance related to mineral exploration; human and terrestrial traffic disturbance related to mineral exploration; risk of bycatch from commercial fishing activities anticipated

Potential consequences for bird populations:

Higher potential for bird-ship collisions originating from all shipping activities; disruption of feeding and nesting birds resulting in loss of eggs and/or young; direct loss of birds due to contaminants and pollution; potential for direct loss of seabirds from fishing bycatch; potential for bird-aircraft collisions originating from air traffic at low altitude or from flying too close to concentration of birds

Recommended restrictions on activities:

Any activity that may cause significant alteration to migratory bird habitat, or which may cause long-term or repeated disturbance to migratory birds, nests, or eggs

Recommended setbacks:

EC-CWS Aerial Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Marine Setbacks (Coastal Waterfowl and Seaducks); EC-CWS Terrestrial Setbacks (Coastal Waterfowl and Seaducks); Emergency Preparedness

Annex – Aerial, Marine and Terrestrial Setbacks

Table 3. Setbacks as Referenced in Environment Canada’s input to the Nunavut Planning Commission regarding Key Habitat Sites for Migratory Birds in the Nunavut Settlement Area.

Bird Group	Aerial Setbacks ¹	Marine Setbacks ²	Terrestrial Setbacks	Emergency Preparedness
All Migratory Birds	For activities that will not proceed to a NIRB screening, proponents are to consult with Environment Canada-Canadian Wildlife Service for information on location and timing of bird activity in the Area.	For activities that will not proceed to a NIRB screening, proponents are to consult with Environment Canada-Canadian Wildlife Service for information on location and timing of bird activity in the Area, and to discuss ship routing through the site.	For activities that will not proceed to a NIRB screening, proponents are to consult with Environment Canada-Canadian Wildlife Service for information on location and timing of bird activity in the Area.	For activities that will not proceed to a NIRB screening, proponents are to consult with Environment Canada-Canadian Wildlife Service for information on location and timing of bird activity in the Area.
	SEASONAL (WHEN BIRDS ARE PRESENT) All overflying aircraft: <ul style="list-style-type: none"> maintain minimum vertical setback of 1100 m (3500 feet) in areas where concentrations of birds are present maintain minimum lateral aerial setback of 1.5 km from concentrations of birds (e.g. bird breeding colonies and moulting areas) 	None	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 300 m setback from concentrations of birds (e.g. bird breeding colonies and moulting areas) 	
Sea-level Coastal Nesting Birds	See All Migratory Birds above	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 1 km setback for ships from coastlines where there are known concentrations of sea-level nesting birds 300 m setback distance from sea-level coastal nesting bird concentrations for zodiacs, kayaks and other small launch vessels 	See All Migratory Birds above	See All Migratory Birds above

Bird Group	Aerial Setbacks ¹	Marine Setbacks ²	Terrestrial Setbacks	Emergency Preparedness
All Seabirds	SEASONAL (WHEN BIRDS ARE PRESENT) Setbacks for All Migratory Birds above, plus <ul style="list-style-type: none"> lateral setback of 3 km from the seaward side of seabird colonies 	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 60 km setback from seabird colonies for gillnetting (including bottom set nets) 500 m setback for ships from seabird colonies when birds are present 100 m setback from seabird colonies for zodiacs, kayaks and other small launch vessels 	See All Migratory Birds above	See All Migratory Birds above
Northern Fulmars	See All Migratory Birds above	SEASONAL (WHEN BIRDS ARE PRESENT) See All Seabirds, plus <ul style="list-style-type: none"> 60 km setback from fulmar breeding colonies for longline fishing 	See All Seabirds above	See All Migratory Birds above
Ivory Gulls	See All seabirds above	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 2 km setback distance from breeding sites 	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 2 km setback distance from breeding sites 	See All Migratory Birds above
Coastal Waterfowl and Seaducks	SEASONAL (WHEN BIRDS ARE PRESENT) All migratory birds above, plus <ul style="list-style-type: none"> lateral setback of 3 km from flocks of coastal waterfowl and seaducks 	SEASONAL (WHEN BIRDS ARE PRESENT) <ul style="list-style-type: none"> 500 m setback distance from seaduck colonies, moulting aggregations of seaducks and waterfowl 	See All Migratory Birds above	See All Migratory Birds above

¹ subject to pilot discretion regarding aircraft and human safety, and except for specified operational purposes such as take offs and landings, etc.

² subject to safe navigation considerations.