

# Map 5-7 Caribou Rut Density (October 15 to November 7)

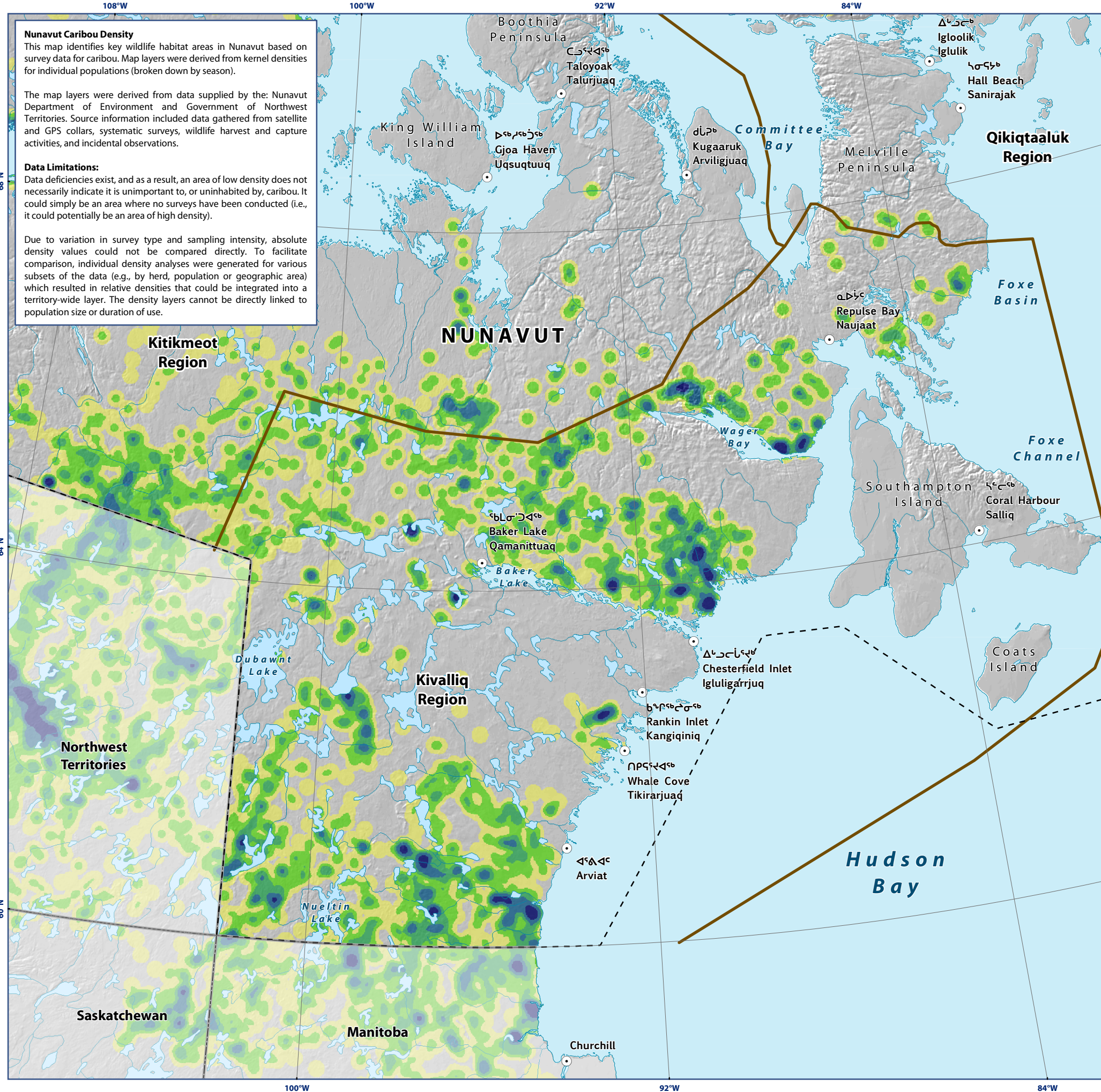
**Nunavut Caribou Density**  
This map identifies key wildlife habitat areas in Nunavut based on survey data for caribou. Map layers were derived from kernel densities for individual populations (broken down by season).

The map layers were derived from data supplied by the: Nunavut Department of Environment and Government of Northwest Territories. Source information included data gathered from satellite and GPS collars, systematic surveys, wildlife harvest and capture activities, and incidental observations.

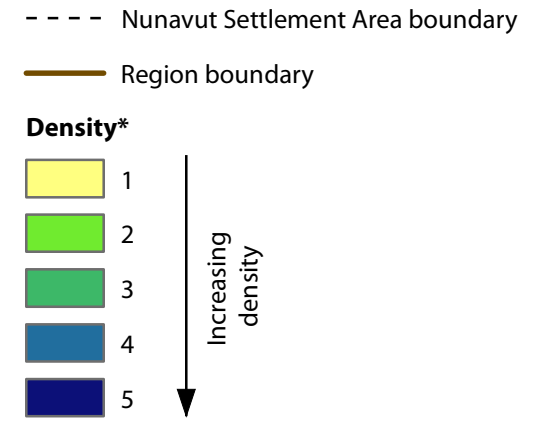
**Data Limitations:**

Data deficiencies exist, and as a result, an area of low density does not necessarily indicate it is unimportant to, or uninhabited by, caribou. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

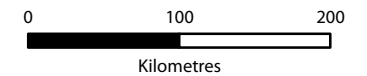
Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that could be integrated into a territory-wide layer. The density layers cannot be directly linked to population size or duration of use.



**Legend**



\* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
 Natural Resources Canada, Caslys Consulting Ltd.  
 Department of Environment (Government of Nunavut)  
 Government of Northwest Territories

Prepared by:



# Map 5-8 Caribou Early Winter Density (November 8 to December 31)

## Legend

--- Nunavut Settlement Area boundary

— Region boundary

### Density\*



Increasing density

\* Density values include survey and telemetry data collected up to 2010.



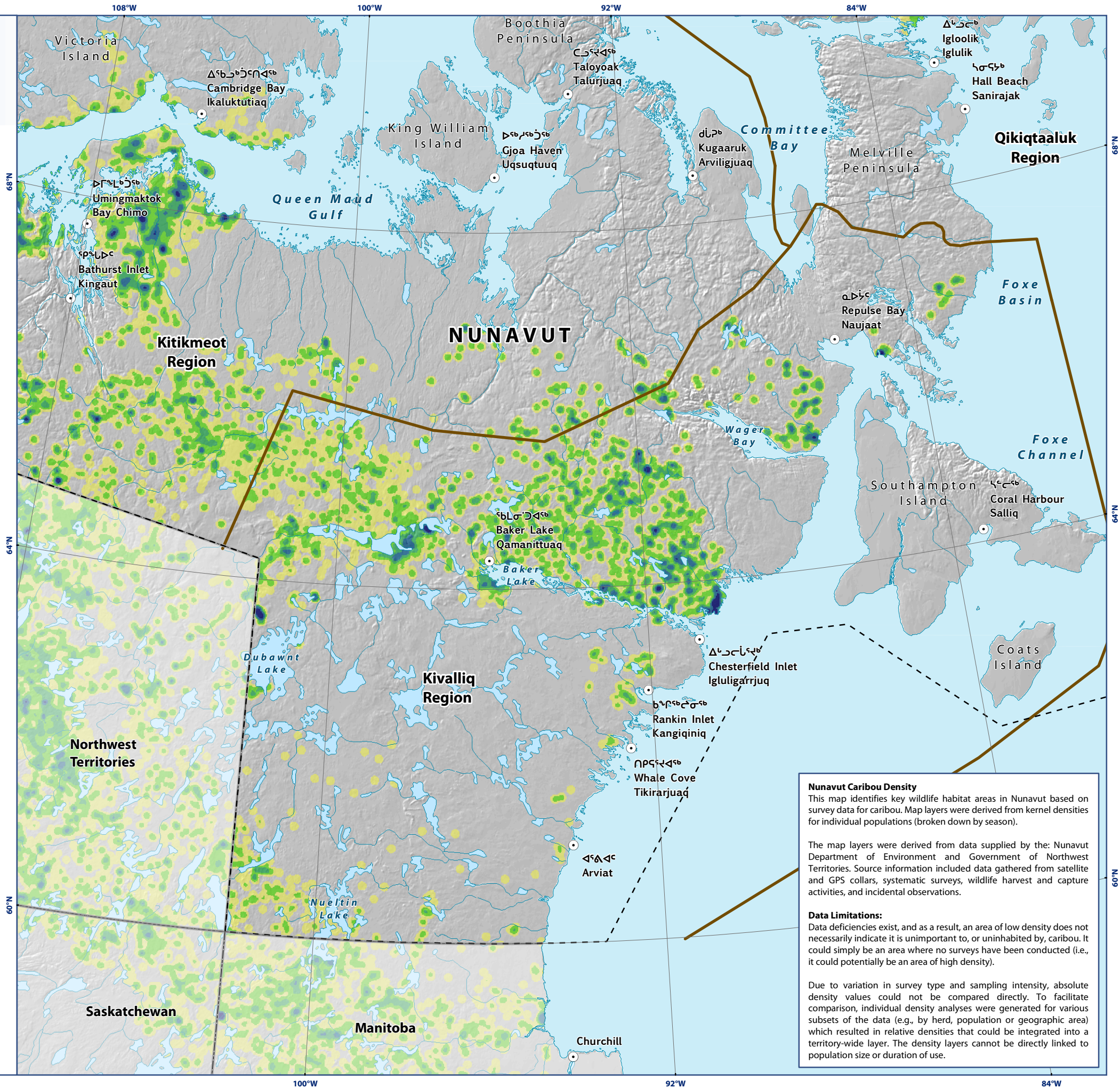
Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)  
Government of Northwest Territories

Prepared by:



Avatiliqiyikkut  
Department of Environment  
Ministère de l'Environnement

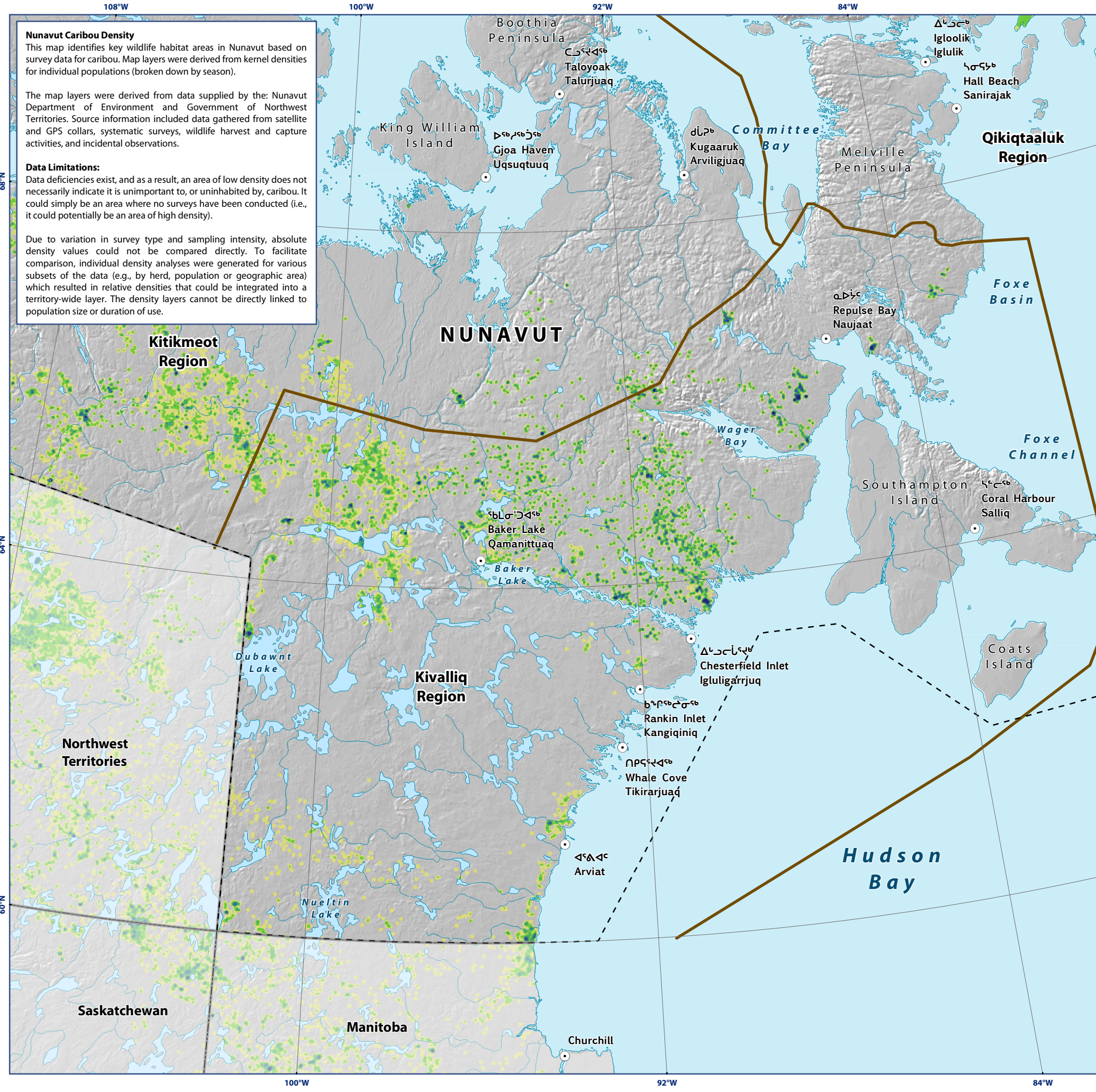


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# Map 5-9 Caribou Late Winter Density (January 1 to March 31)

**Legend**

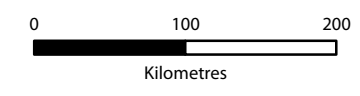
- Nunavut Settlement Area boundary
- Region boundary

**Density\***

1	Yellow
2	Light Green
3	Green
4	Dark Green
5	Dark Blue

Increasing density ↓

\* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
 Natural Resources Canada, Caslys Consulting Ltd.  
 Department of Environment (Government of Nunavut)  
 Government of Northwest Territories

Prepared by:

# Map 5-10 Caribou Sensitivity

## Legend

--- Nunavut Settlement Area boundary

— Region boundary

### Caribou sensitivity

Low or Data Deficient

Moderate

High

Very High



Canada Lambert Conformal Conic WGS 84

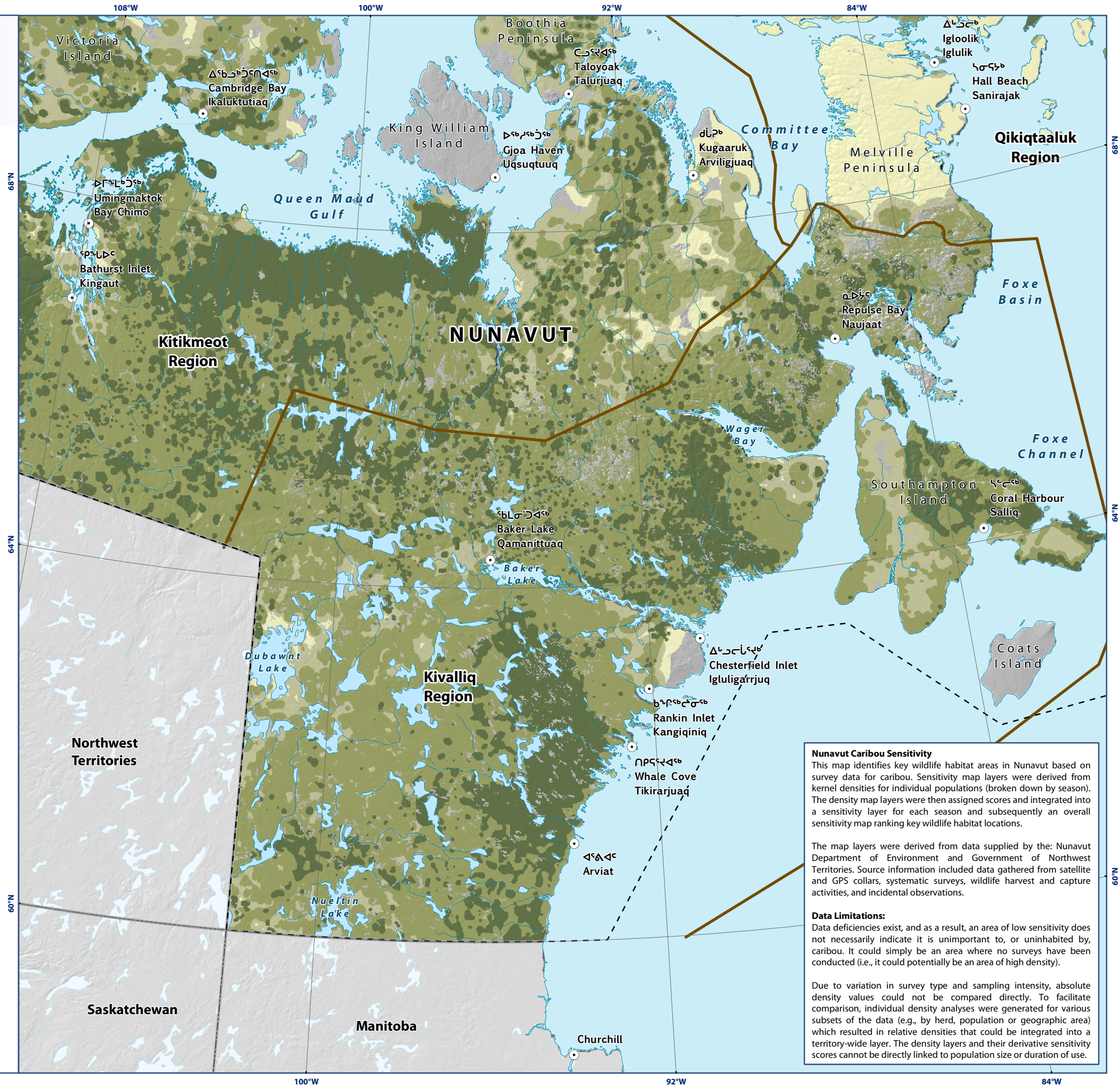
### Data Sources:

Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)  
Government of Northwest Territories

Prepared by:



Avatiliqiyikuk  
Department of Environment  
Ministère de l'Environnement



**Nunavut Caribou Sensitivity**  
This map identifies key wildlife habitat areas in Nunavut based on survey data for caribou. Sensitivity map layers were derived from kernel densities for individual populations (broken down by season). The density map layers were then assigned scores and integrated into a sensitivity layer for each season and subsequently an overall sensitivity map ranking key wildlife habitat locations.

The map layers were derived from data supplied by the: Nunavut Department of Environment and Government of Northwest Territories. Source information included data gathered from satellite and GPS collars, systematic surveys, wildlife harvest and capture activities, and incidental observations.

**Data Limitations:**  
Data deficiencies exist, and as a result, an area of low sensitivity does not necessarily indicate it is unimportant to, or uninhabited by, caribou. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that could be integrated into a territory-wide layer. The density layers and their derivative sensitivity scores cannot be directly linked to population size or duration of use.

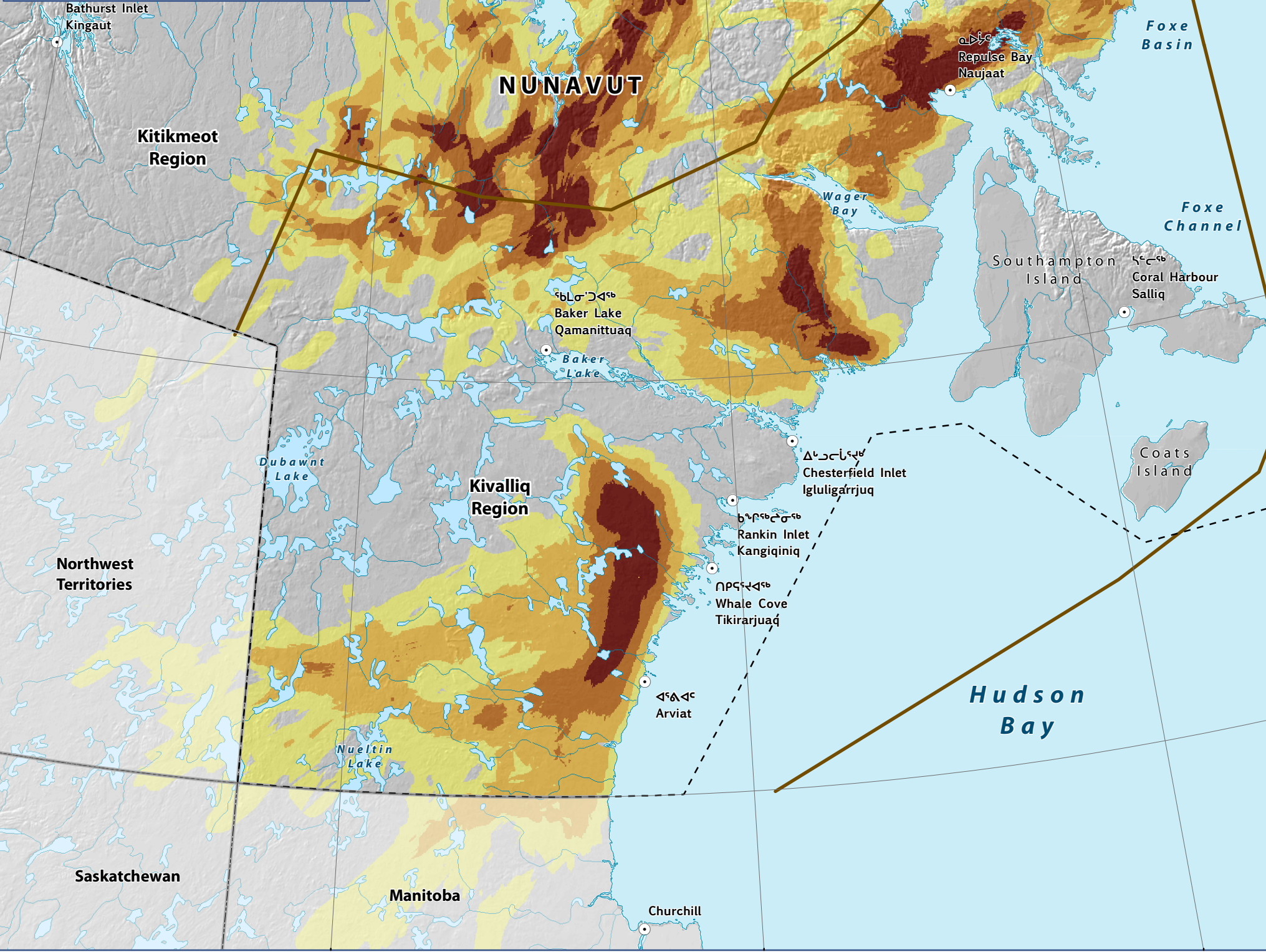
# Map 5-11 Caribou Spring Migration Corridors

**Caribou Migration Corridors**  
The map identifies key wildlife migration corridors for sub-populations centred in the Kivalliq region of Nunavut based on satellite and GPS survey data: Eastern Kitikmeot, Lorillard, Wager Bay and Qamanirjuaq sub-populations. Migration corridor map layers were derived from kernel densities for individual sub-populations (broken down by season).

**Data Limitations**  
The migration corridor map datasets are best suited for use at a regional or territory-wide scale and are not intended for local or site-specific planning.

It is important to note that the data are limited to the movement of animals that have been collared. Data deficiencies exist, and as a result, an area outside of a migration corridor does not necessarily indicate it is unimportant to, or uninhabited by, caribou. It could simply be an area where collared animals have not been located (i.e., it could potentially be an area of high density for non-collared animals).

Due to variation in survey type and sampling intensity, absolute density values are not established. The density layers and their derivative migration corridors cannot be directly linked to population size or duration of use.

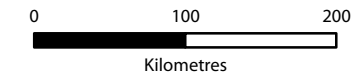
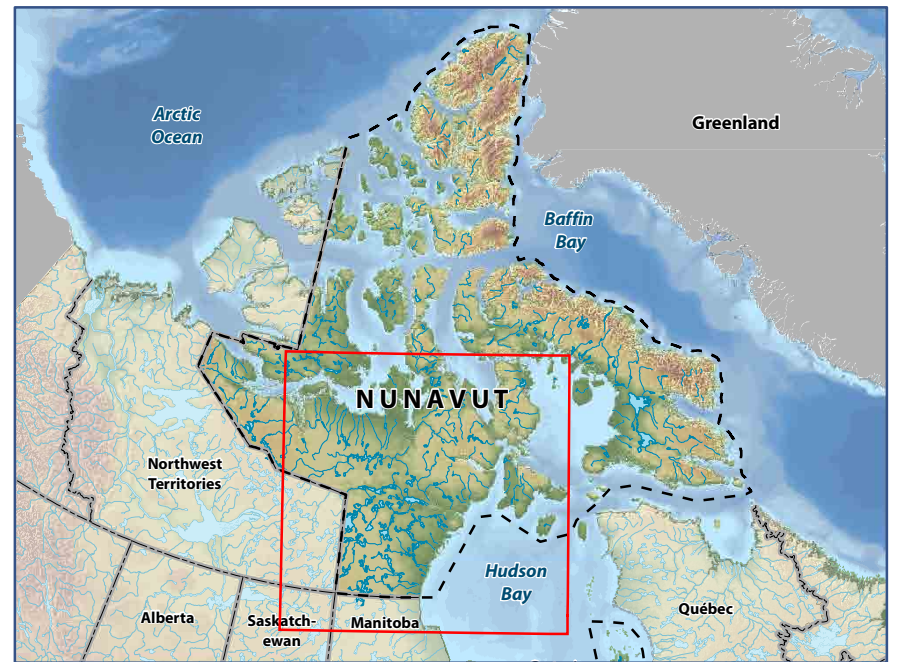


**Legend**

- - - Nunavut Settlement Area boundary
- Region boundary

**Spring Migration Corridor (April-June)\***

\* Migration corridors based on telemetry data collected up to 2011.



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

**Background:**  
Telemetry data collected between 1993 and 2011.

Prepared by:

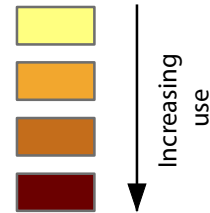
Avatliqiyikkut  
Department of Environment  
Ministère de l'Environnement

# Map 5-12 Caribou Fall Migration Corridors

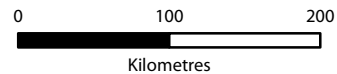
## Legend

- Nunavut Settlement Area boundary
- Region boundary

### Fall Migration Corridor (September-November)\*



\* Migration corridors based on telemetry data collected up to 2011.



Canada Lambert Conformal Conic WGS 84

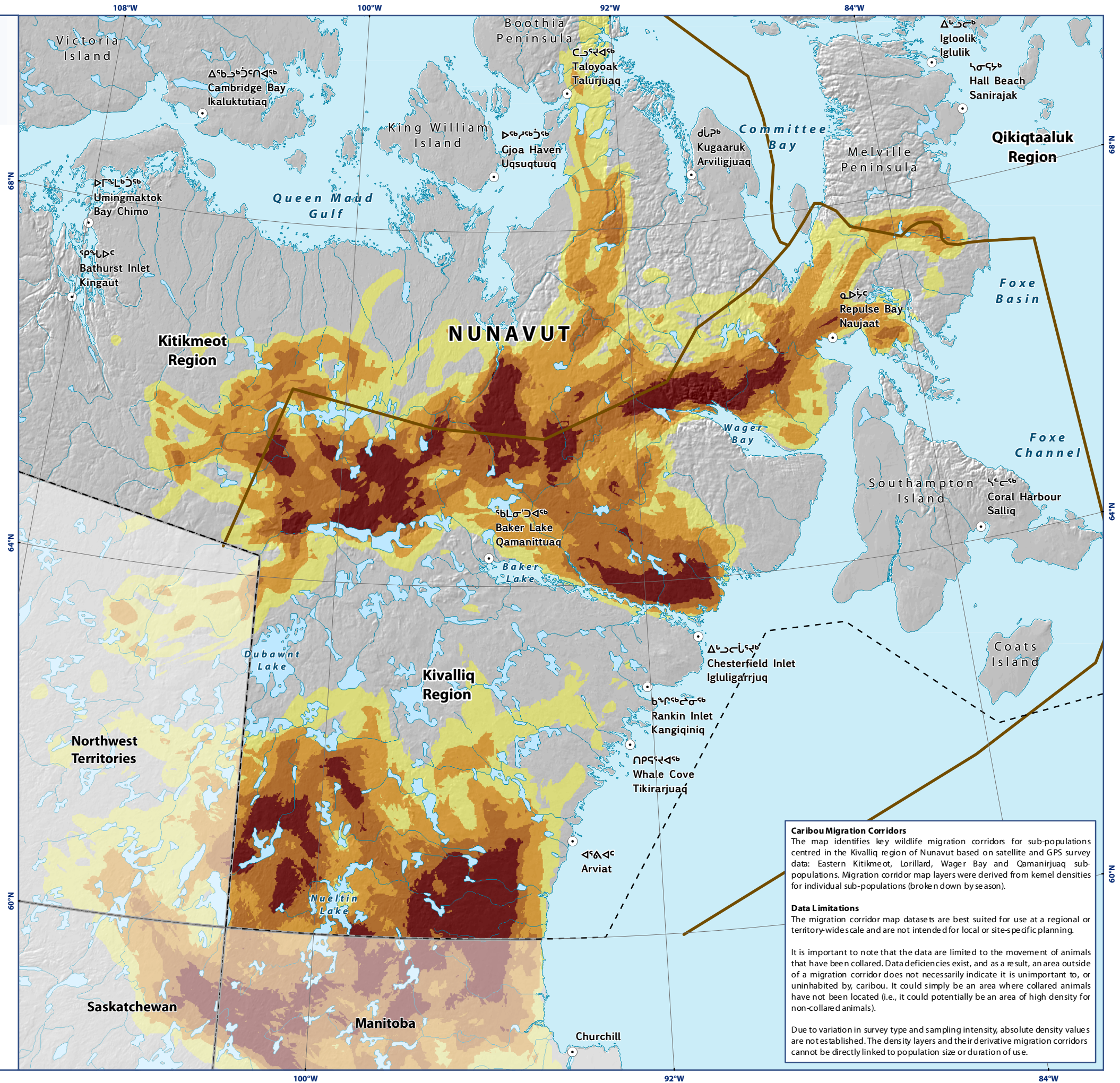
**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

**Background:**  
Telemetry data collected between 1993 and 2011.

Prepared by:



Avatiliqiyikuk  
Department of Environment  
Ministère de l'Environnement



**Caribou Migration Corridors**  
The map identifies key wildlife migration corridors for sub-populations centred in the Kivalliq region of Nunavut based on satellite and GPS survey data: Eastern Kitikmeot, Lorillard, Wager Bay and Qamanirjuaq sub-populations. Migration corridor map layers were derived from kernel densities for individual sub-populations (broken down by season).

**Data Limitations**  
The migration corridor map datasets are best suited for use at a regional or territory-wide scale and are not intended for local or site-specific planning.

It is important to note that the data are limited to the movement of animals that have been collared. Data deficiencies exist, and as a result, an area outside of a migration corridor does not necessarily indicate it is unimportant to, or uninhabited by, caribou. It could simply be an area where collared animals have not been located (i.e., it could potentially be an area of high density for non-collared animals).

Due to variation in survey type and sampling intensity, absolute density values are not established. The density layers and their derivative migration corridors cannot be directly linked to population size or duration of use.

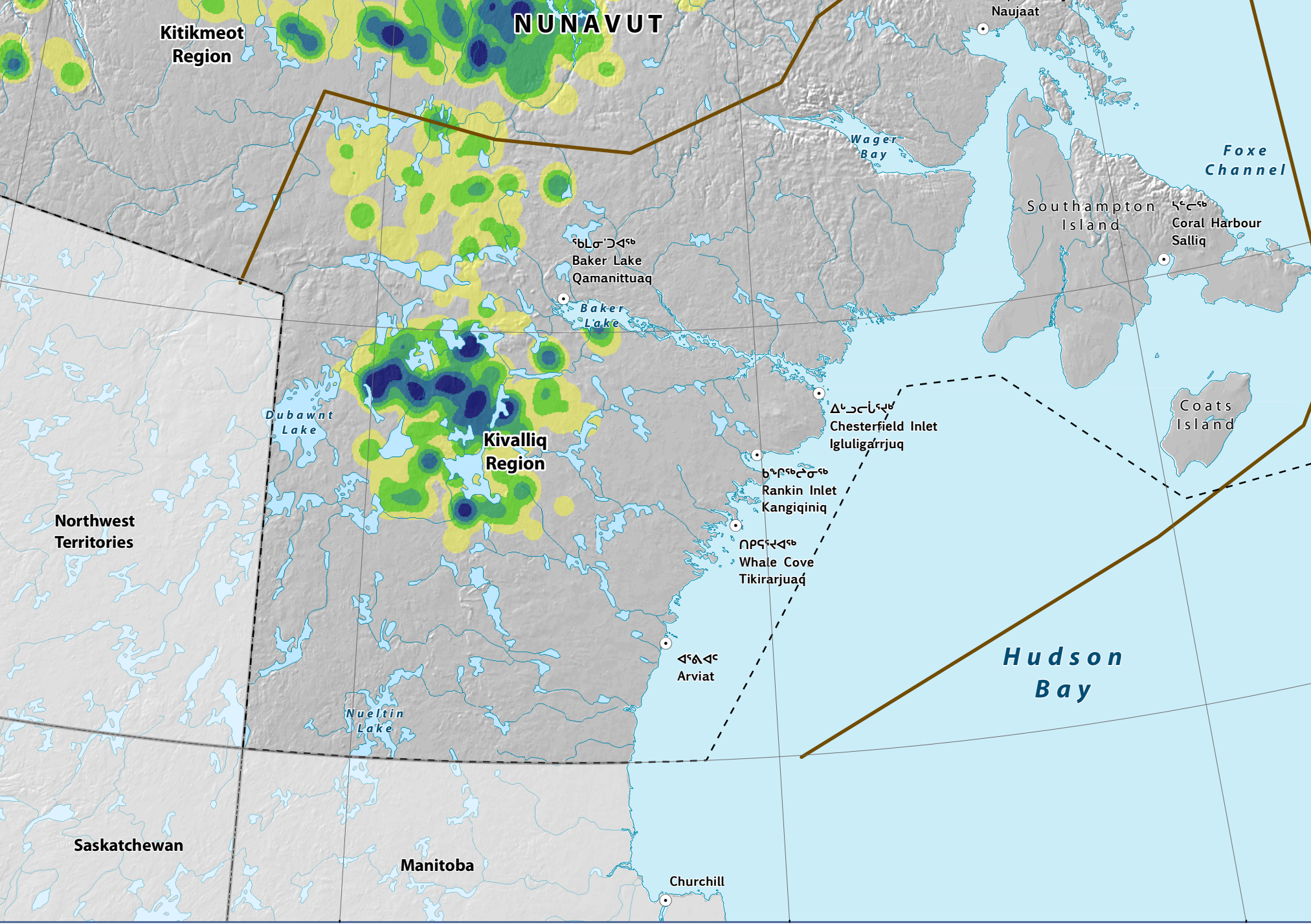
# Map 5-13 Muskoxen Summer Density (June 1 to August 31)

**Nunavut Muskoxen Density**  
This map identifies key wildlife habitat areas in Nunavut based on survey data for muskoxen. Map layers were derived from kernel densities for individual populations (broken down by season).

The map layers were derived from data supplied by the Nunavut Department of Environment. Source information included data gathered from satellite and GPS collars, systematic surveys, wildlife harvest and capture activities, and incidental observations.

**Data Limitations:**  
Data deficiencies exist, and as a result, an area of low density does not necessarily indicate it is unimportant to, or uninhabited by, muskoxen. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that could be integrated into a territory-wide layer. The density layers cannot be directly linked to population size or duration of use.



**Legend**

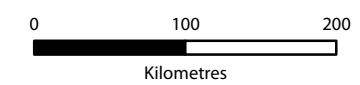
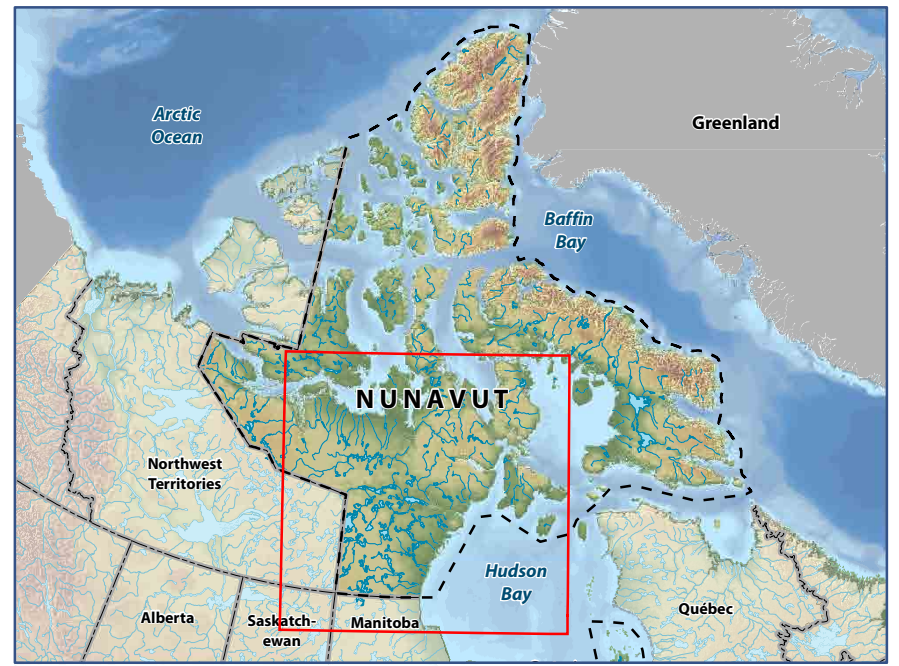
- Nunavut Settlement Area boundary
- Region boundary

**Density\***

Yellow	1
Light Green	2
Green	3
Dark Green	4
Blue	5

↑ Increasing density ↓

\* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:

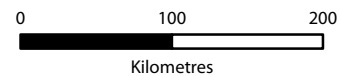
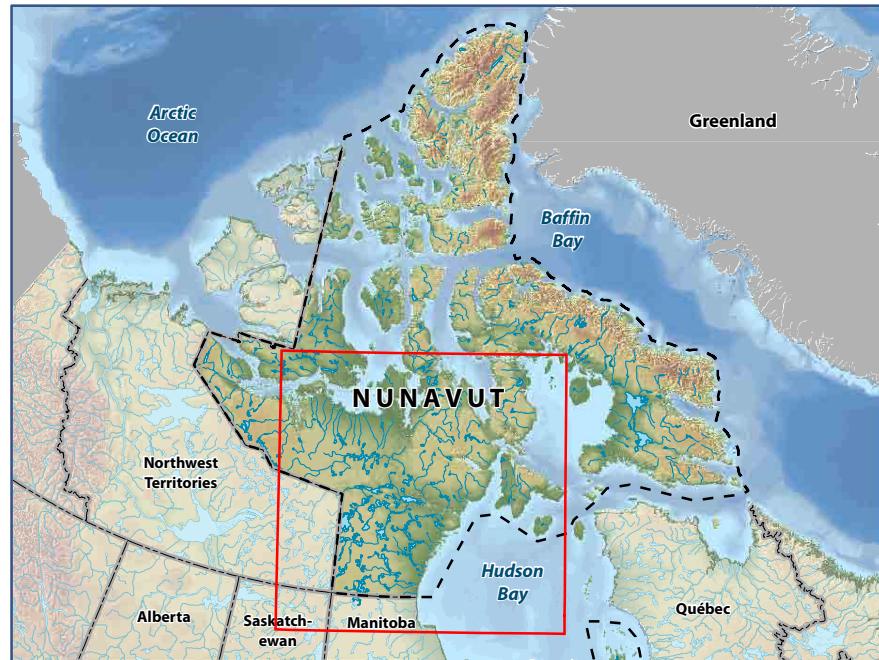
# Map 5-14 Muskoxen Sensitivity

## Legend

- - - Nunavut Settlement Area boundary
- Region boundary

### Muskoxen Sensitivity

- Low or Data Deficient
- Moderate
- High
- Very High

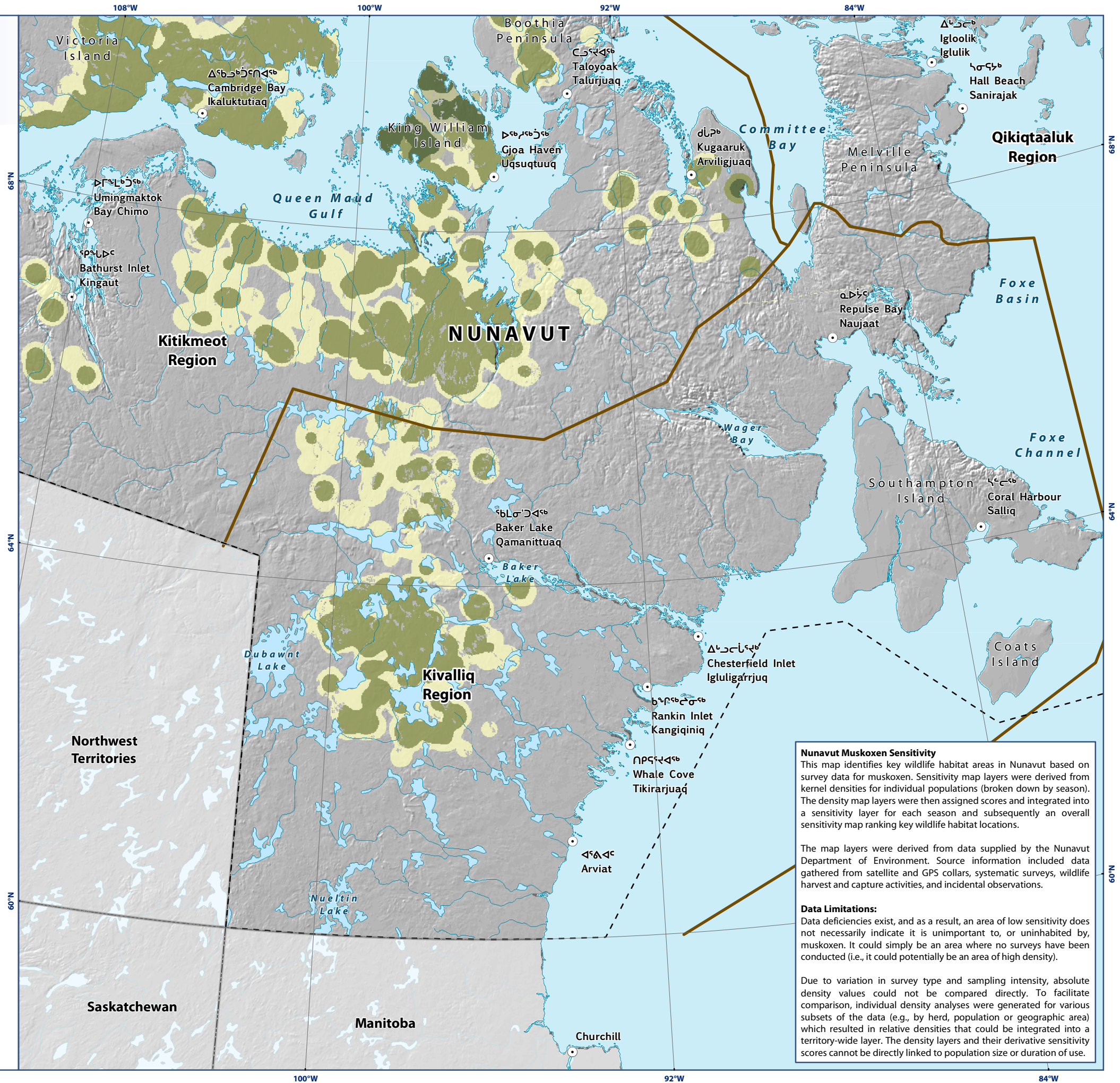


Canada Lambert Conformal Conic WGS 84

#### Data Sources:

Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



**Nunavut Muskoxen Sensitivity**  
This map identifies key wildlife habitat areas in Nunavut based on survey data for muskoxen. Sensitivity map layers were derived from kernel densities for individual populations (broken down by season). The density map layers were then assigned scores and integrated into a sensitivity layer for each season and subsequently an overall sensitivity map ranking key wildlife habitat locations.

The map layers were derived from data supplied by the Nunavut Department of Environment. Source information included data gathered from satellite and GPS collars, systematic surveys, wildlife harvest and capture activities, and incidental observations.

**Data Limitations:**  
Data deficiencies exist, and as a result, an area of low sensitivity does not necessarily indicate it is unimportant to, or uninhabited by, muskoxen. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that could be integrated into a territory-wide layer. The density layers and their derivative sensitivity scores cannot be directly linked to population size or duration of use.

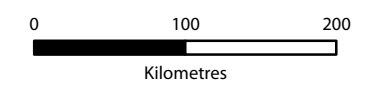
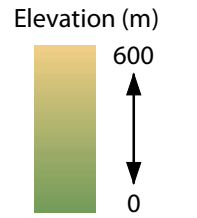


# Map 5-15 Kivalliq Muskox Distributional Changes (July 2000 - July 2012)



## Legend

- Nunavut Settlement Area boundary
- Region boundary
- Treeline
- July 2000 Muskox Extents
- July 2012 Muskox Extents
- Muskox Expansion Area 2000-2012
- Muskox Distribution Area
- Thelon Game Sanctuary



Canada Lambert Conformal Conic WGS 84

**Data Sources:**  
Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)

Prepared by:



# Map 5-16 Polar Bear Spring Density (April 1 to July 31)

## Legend

--- Nunavut Settlement Area boundary

— Region boundary

### Density\*



Increasing density ↓

\* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

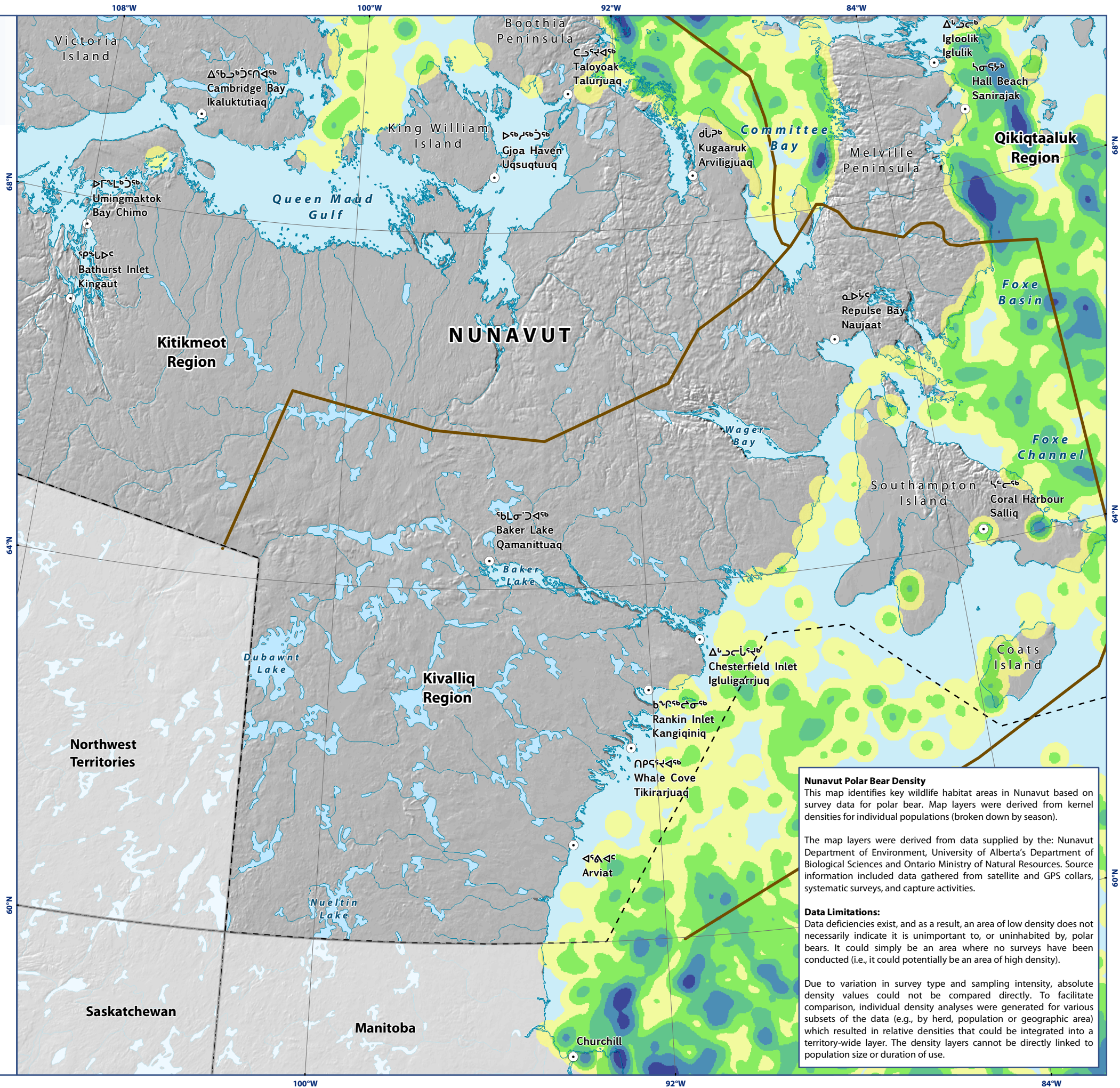
### Data Sources:

Natural Resources Canada, Caslys Consulting Ltd.  
Department of Environment (Government of Nunavut)  
Ontario Ministry of Natural Resources  
University of Alberta (Dept. of Biological Sciences)

Prepared by:



Avatiliqiyikkut  
Department of Environment  
Ministère de l'Environnement



**Nunavut Polar Bear Density**  
This map identifies key wildlife habitat areas in Nunavut based on survey data for polar bear. Map layers were derived from kernel densities for individual populations (broken down by season).

The map layers were derived from data supplied by the: Nunavut Department of Environment, University of Alberta's Department of Biological Sciences and Ontario Ministry of Natural Resources. Source information included data gathered from satellite and GPS collars, systematic surveys, and capture activities.

**Data Limitations:**  
Data deficiencies exist, and as a result, an area of low density does not necessarily indicate it is unimportant to, or uninhabited by, polar bears. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

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