

Map 5-17 Polar Bear Minimum Ice Density (August 1 to November 30)

Legend

- Nunavut Settlement Area boundary
- Region boundary

Density*

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

↑ Increasing density ↓

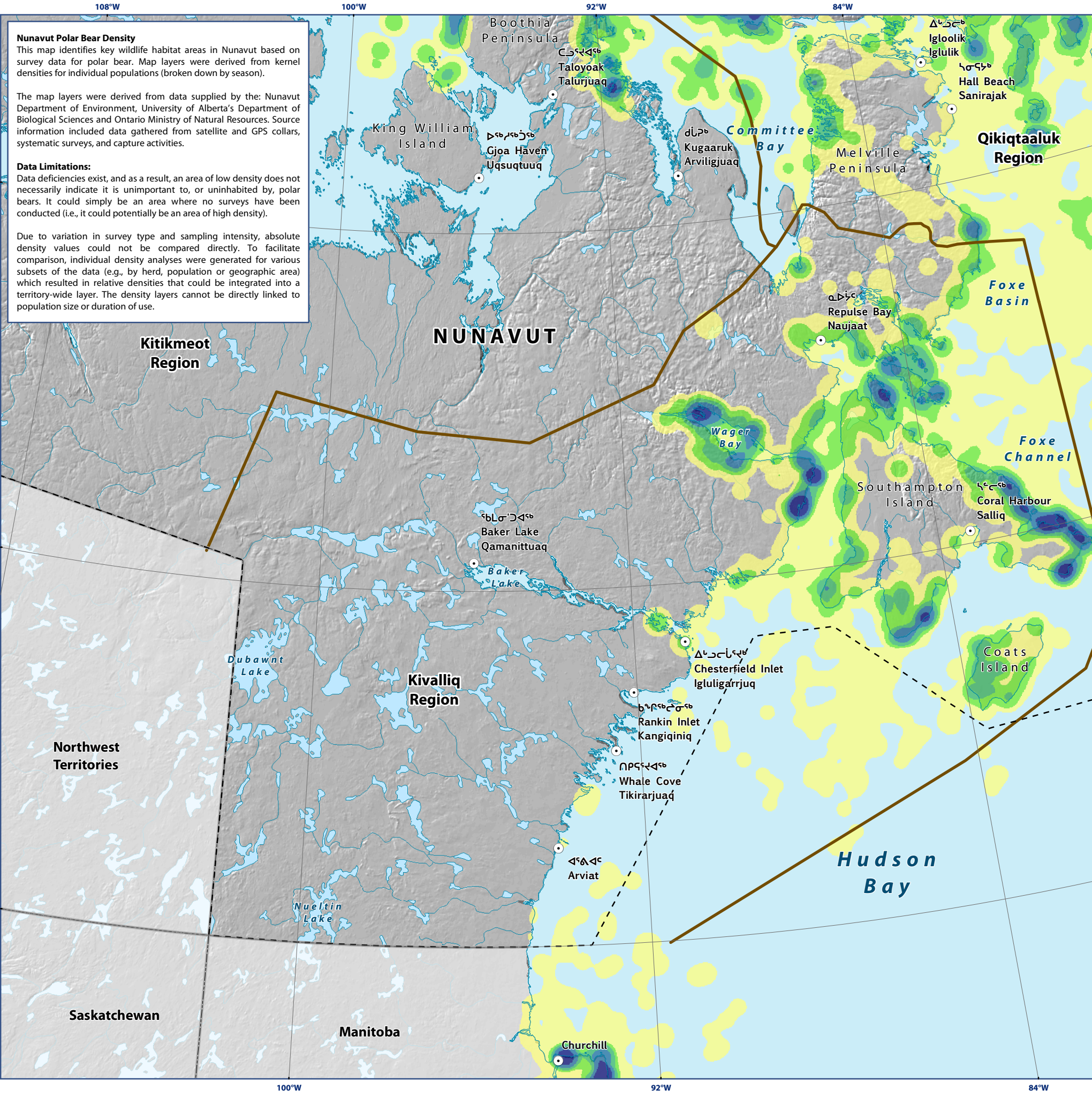
* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

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

Prepared by:



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).

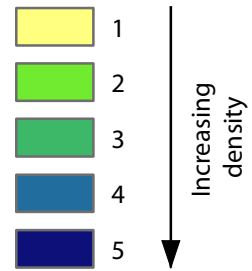
Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that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

Map 5-18 Polar Bear Winter Density (December 1 to March 31)

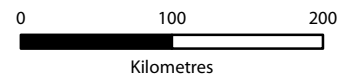
Legend

- - - Nunavut Settlement Area boundary
- Region boundary

Density*



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

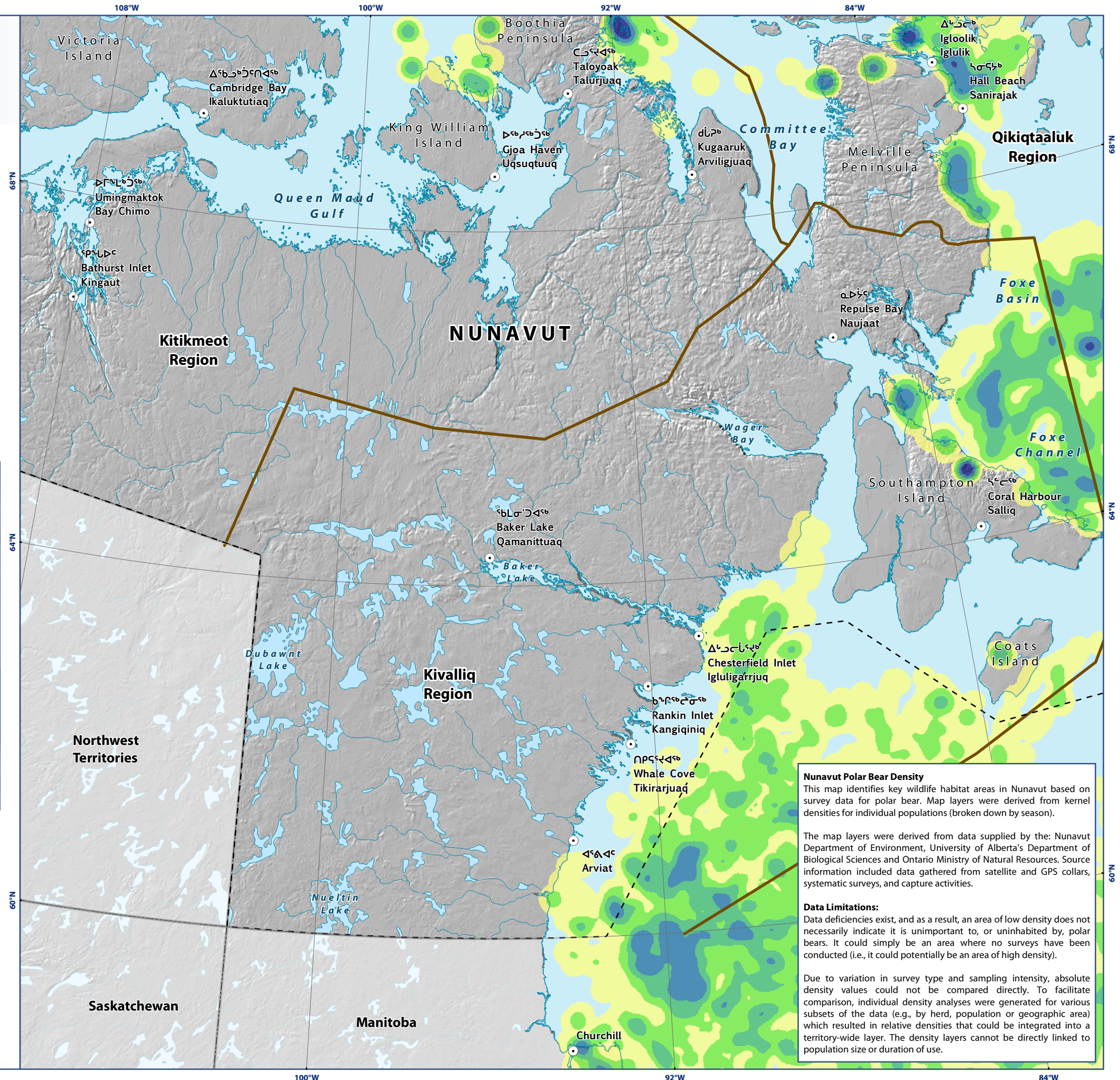


Canada Lambert Conformal Conic WGS 84

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:



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.

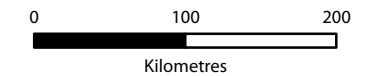
Data Limitations:
Data deficiencies exist, and as a result, an area of low density does not necessarily indicate it is unimportant to, or uninhabited by, polar bears. It could simply be an area where no surveys have been conducted (i.e., it could potentially be an area of high density).

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.

Map 5-19 Polar Bear Sensitivity

Legend

- - - Nunavut Settlement Area boundary
- Region boundary
- Polar Bear Sensitivity**
- Low or Data Deficient
- Moderate
- High
- Very High



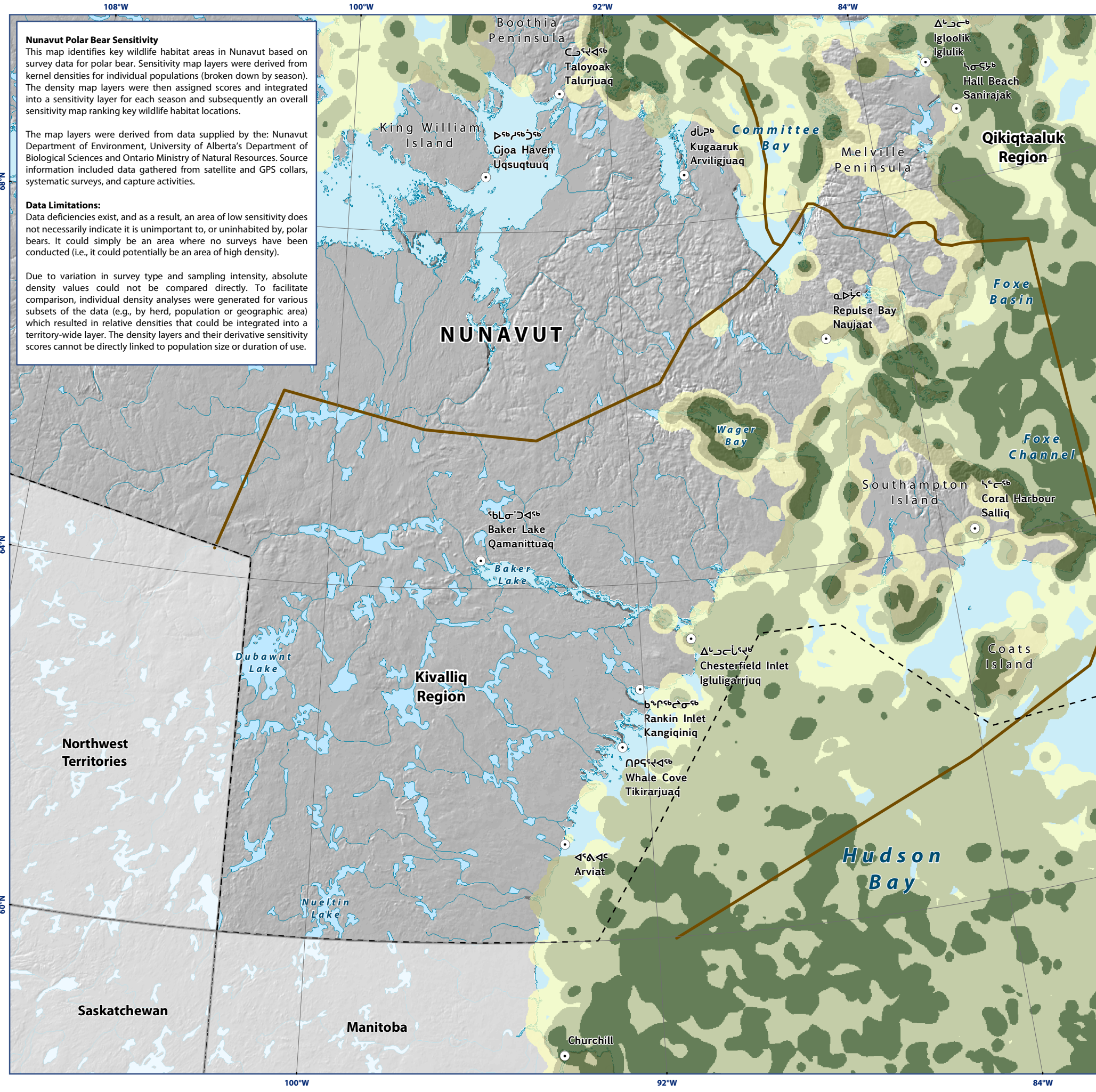
Canada Lambert Conformal Conic WGS 84

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

Prepared by:



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 Avatitqiyikkut
 Department of Environment
 Ministère de l'Environnement



Nunavut Polar Bear Sensitivity
 This map identifies key wildlife habitat areas in Nunavut based on survey data for polar bear. 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, 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 sensitivity 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).

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 5-20 Grizzly Bear Spring Density (March 1 to June 20)

Legend

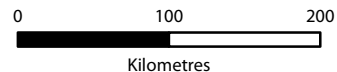
--- Nunavut Settlement Area boundary

— Region boundary

Density*



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

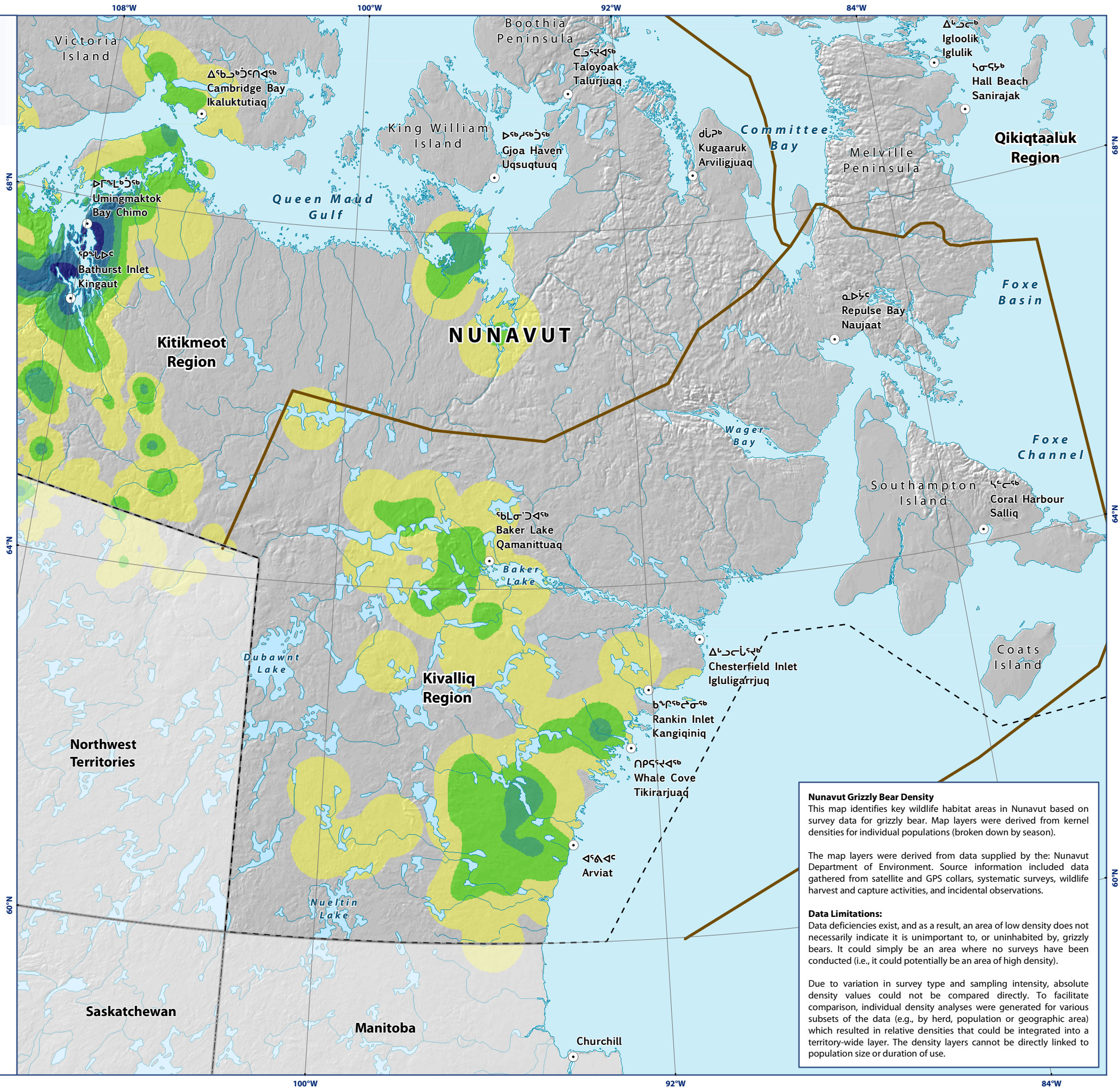


Canada Lambert Conformal Conic WGS 84

Data Sources:

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

Prepared by:



Nunavut Grizzly Bear Density
This map identifies key wildlife habitat areas in Nunavut based on survey data for grizzly 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. 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, grizzly bears. 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.

Map 5-21 Grizzly Bear Summer Density (June 21 to July 31)

Nunavut Grizzly Bear Density
This map identifies key wildlife habitat areas in Nunavut based on survey data for grizzly 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. Source information included data gathered from satellite and GPS collars, systematic surveys, wildlife harvest and capture activities, and incidental observations.

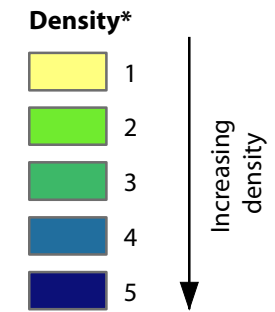
Data Limitations:

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

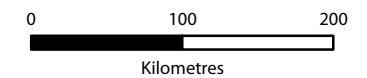
Due to variation in survey type and sampling intensity, absolute density values could not be compared directly. To facilitate comparison, individual density analyses were generated for various subsets of the data (e.g., by herd, population or geographic area) which resulted in relative densities that 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



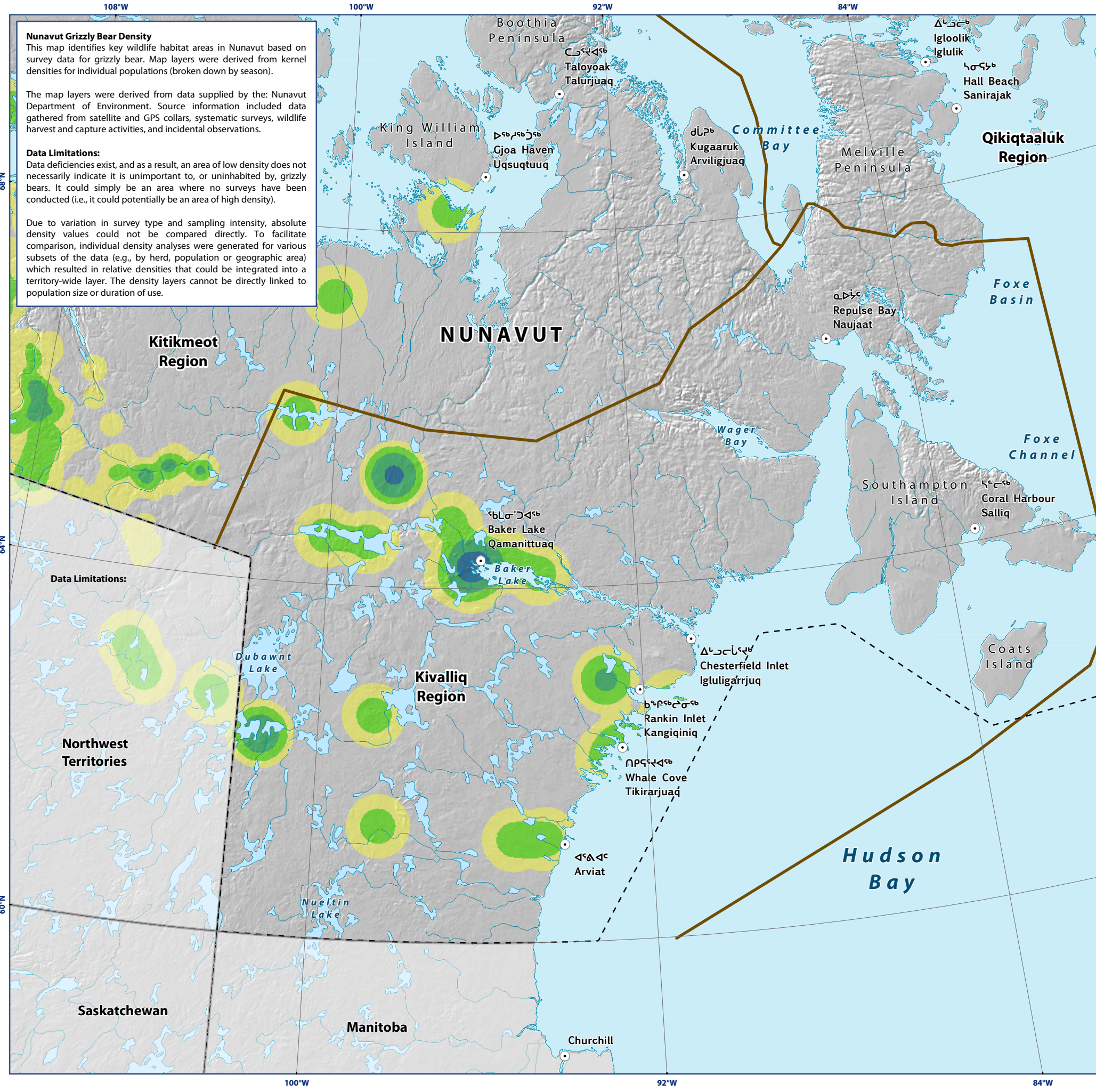
* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

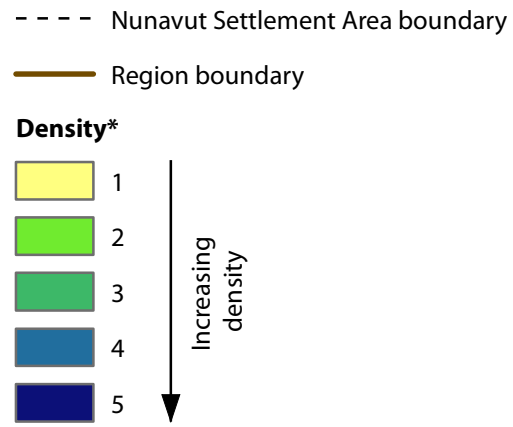
Data Sources:
Natural Resources Canada, Caslys Consulting Ltd.
Department of Environment (Government of Nunavut)

Prepared by:

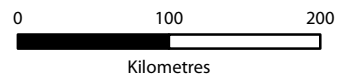


Map 5-22 Grizzly Bear Late Summer Density (August 1 to September 9)

Legend



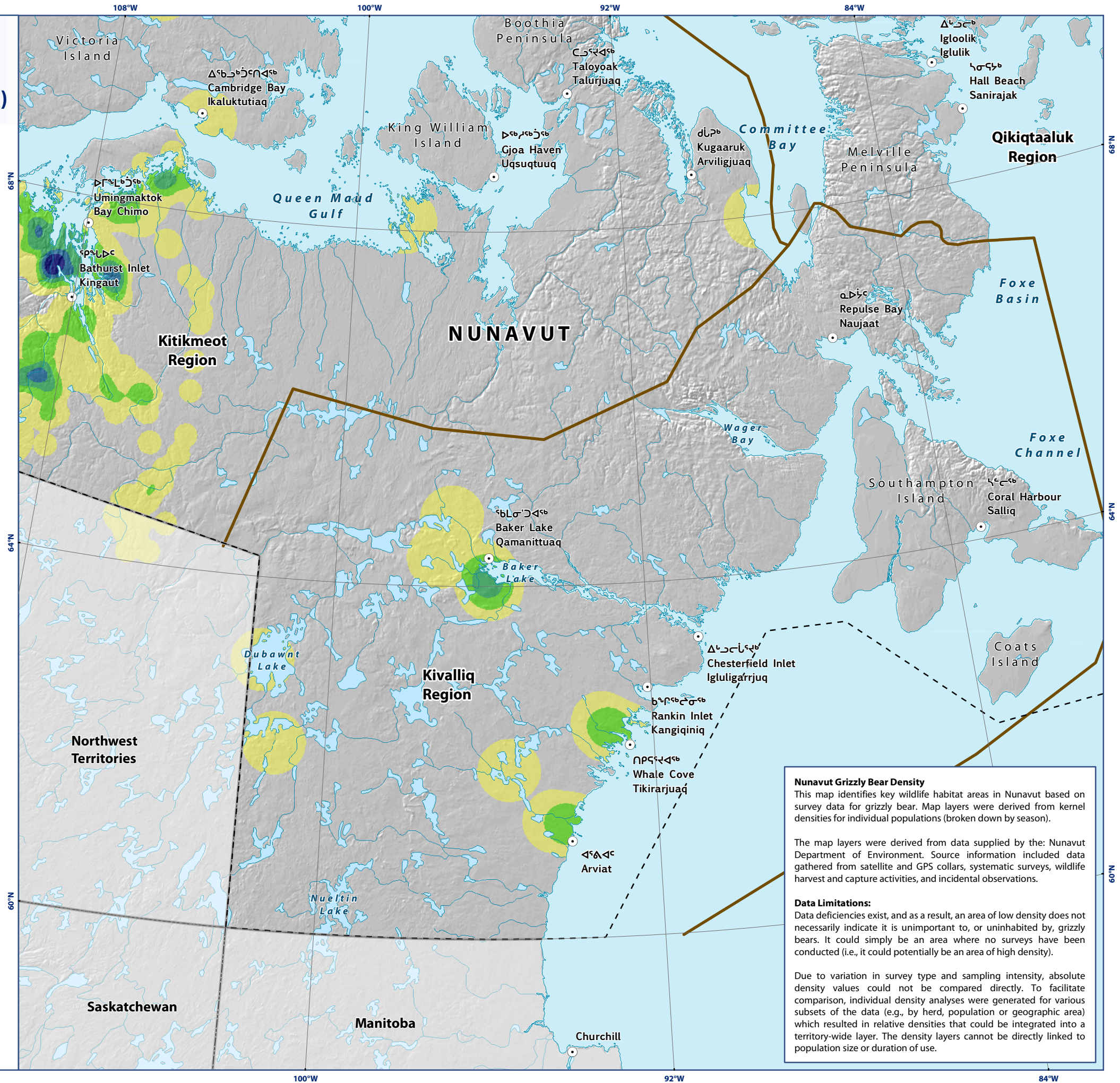
* Density values include survey and telemetry data collected up to 2010.



Canada Lambert Conformal Conic WGS 84

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

Prepared by:



Nunavut Grizzly Bear Density
 This map identifies key wildlife habitat areas in Nunavut based on survey data for grizzly 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. 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, grizzly bears. 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.

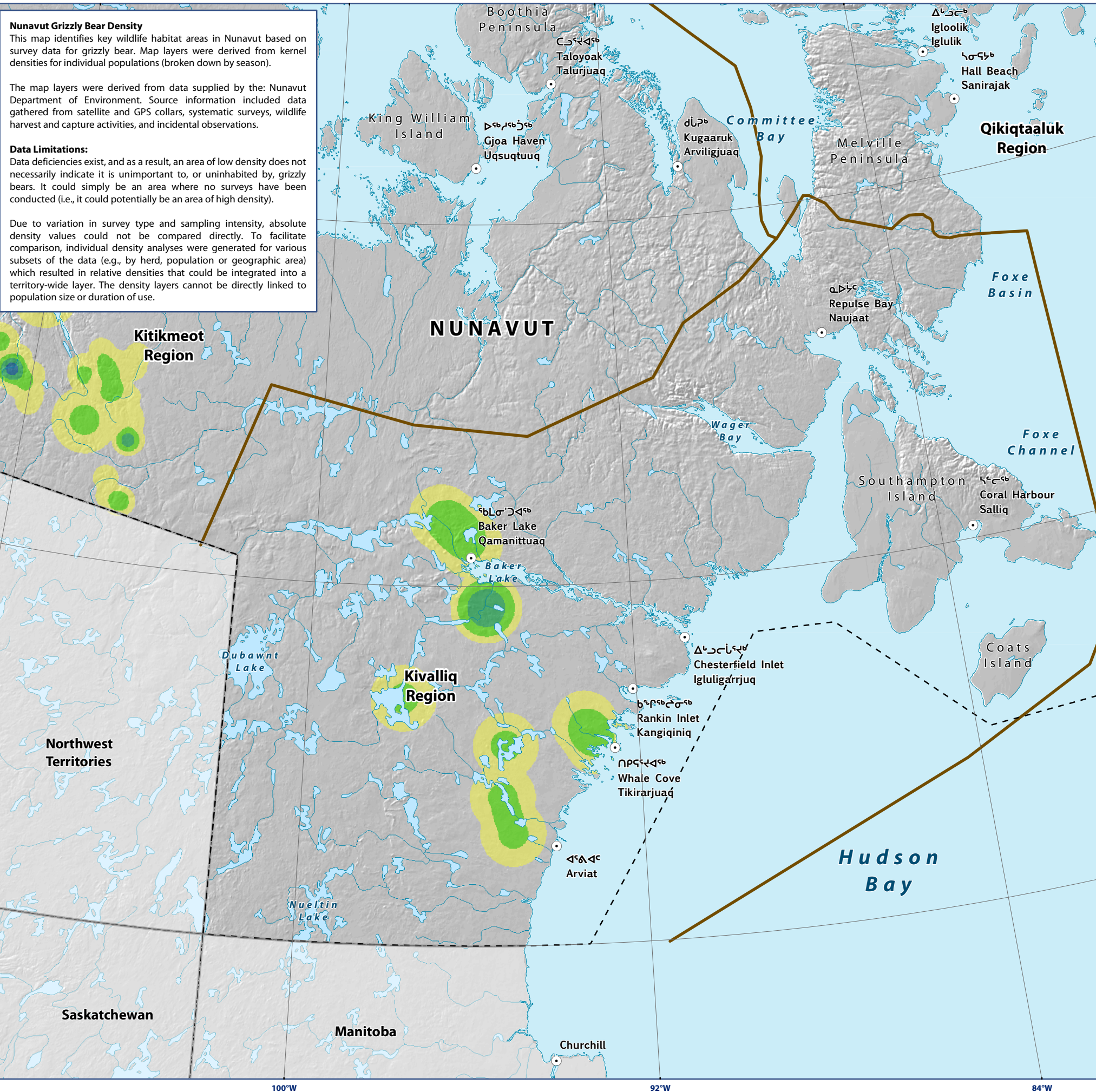
Map 5-23 Grizzly Bear Fall Density (September 10 to November 30)

Nunavut Grizzly Bear Density
This map identifies key wildlife habitat areas in Nunavut based on survey data for grizzly 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. 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, grizzly bears. 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

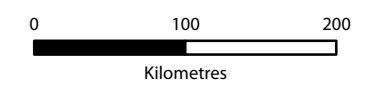
- Nunavut Settlement Area boundary
- Region boundary

Density*

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)

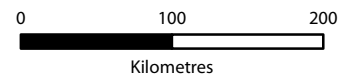
Map 5-24 Grizzly Bear Sensitivity

Legend

- Nunavut Settlement Area boundary
- Region boundary

Grizzly Bear Sensitivity

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

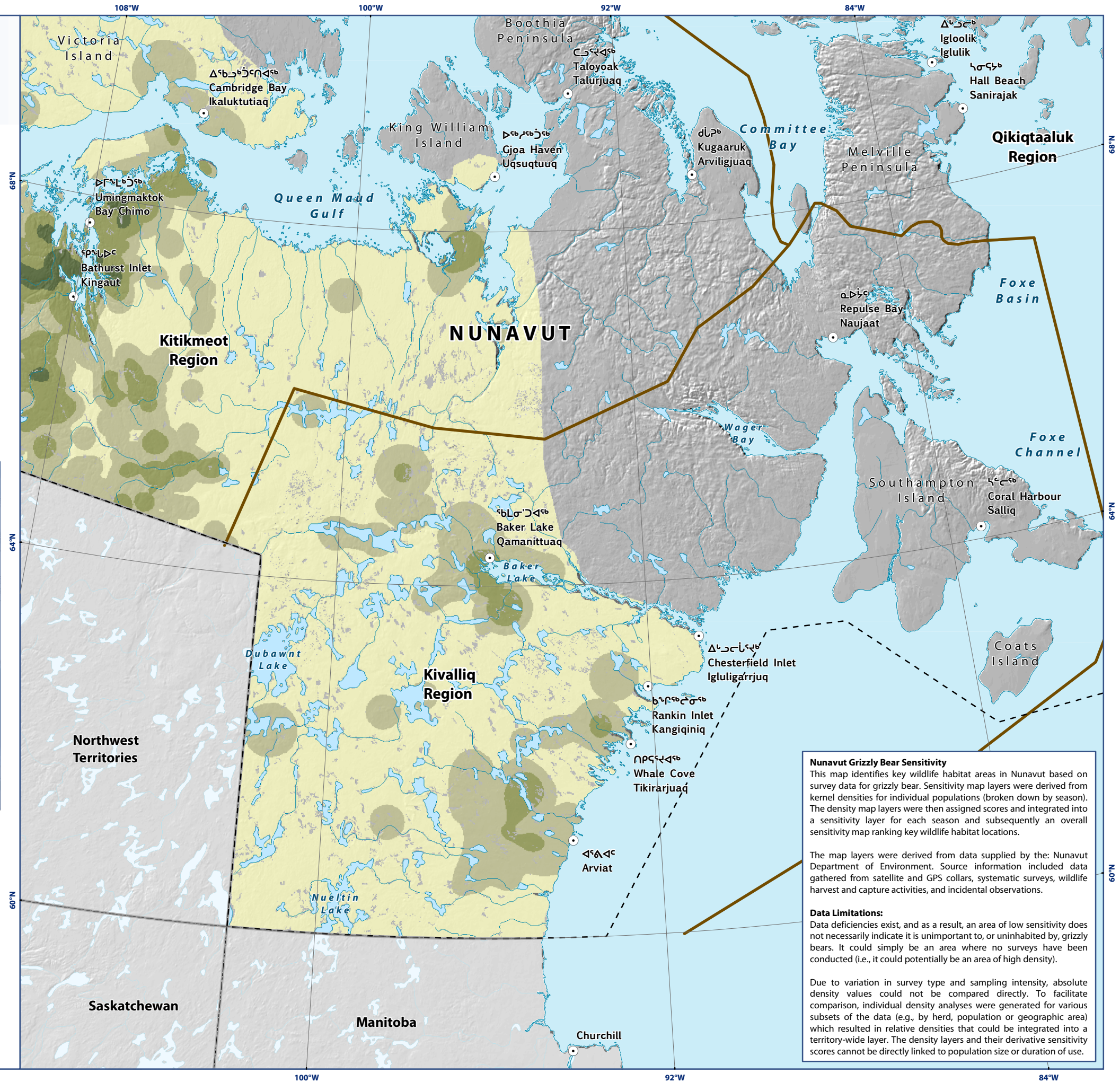


Canada Lambert Conformal Conic WGS 84

Data Sources:

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

Prepared by:



Nunavut Grizzly Bear Sensitivity
This map identifies key wildlife habitat areas in Nunavut based on survey data for grizzly bear. 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, grizzly bears. 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.

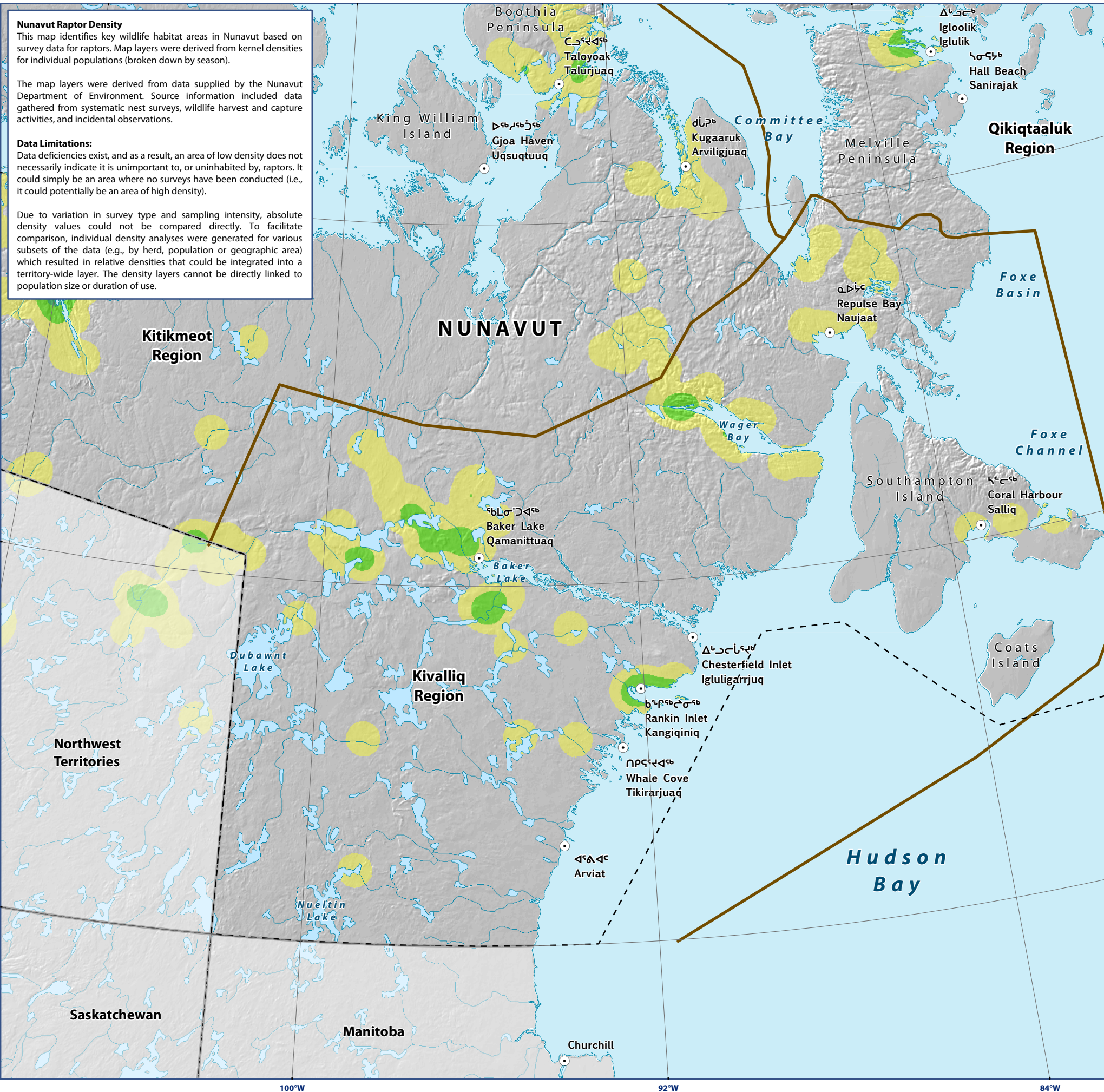
Map 5-25 Raptor Density

Nunavut Raptor Density
This map identifies key wildlife habitat areas in Nunavut based on survey data for raptors. 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 systematic nest 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, raptors. 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

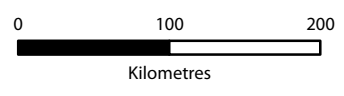
- - - Nunavut Settlement Area boundary
- Region boundary

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 2009.



Canada Lambert Conformal Conic WGS 84

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

Prepared by:



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Avatliqiyikkut
Department of Environment
Ministère de l'Environnement



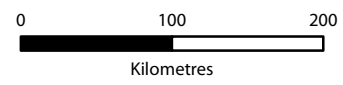
Map 5-26 Wildlife Sensitivity

Legend

- - - Nunavut Settlement Area boundary
- Region boundary

Wildlife Sensitivity

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



Canada Lambert Conformal Conic WGS 84

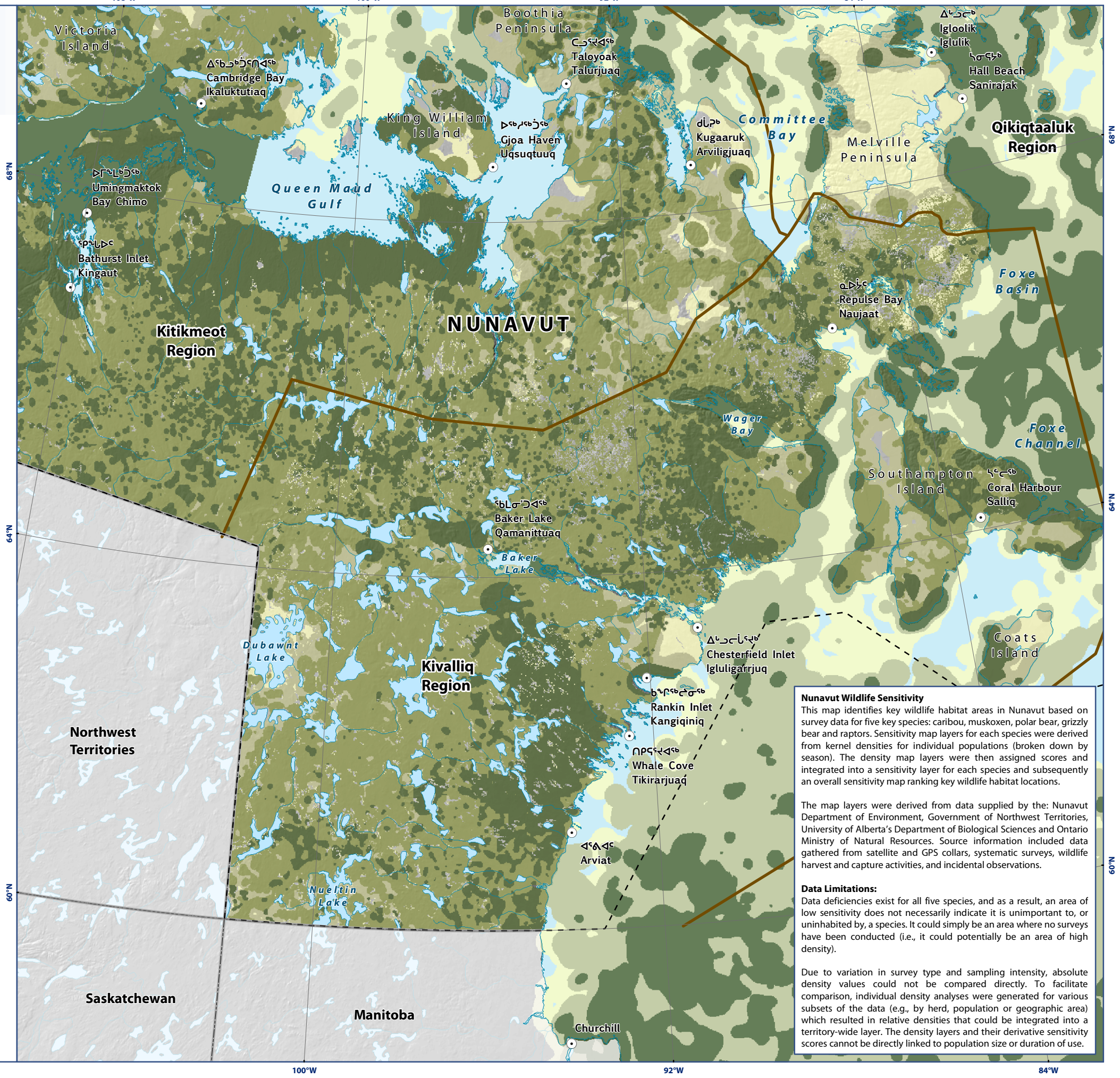
Data Sources:

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

Prepared by:



Avatiliqiyikuk
Department of Environment
Ministère de l'Environnement



Nunavut Wildlife Sensitivity

This map identifies key wildlife habitat areas in Nunavut based on survey data for five key species: caribou, muskoxen, polar bear, grizzly bear and raptors. Sensitivity map layers for each species 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 species 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, Government of Northwest Territories, 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, wildlife harvest and capture activities, and incidental observations.

Data Limitations:

Data deficiencies exist for all five species, and as a result, an area of low sensitivity does not necessarily indicate it is unimportant to, or uninhabited by, a species. 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.