

# User Guide

## User Guide: Species and Habitat Viewer

Version 3.0

For:

**Government of Northwest Territories  
Environment and Climate Change  
Wildlife Management Division**

By:

**Government of Northwest Territories Centre for Geomatics  
and**

**Caslys Consulting Ltd.**

Unit 10 – 6782 Veyaness Road  
Saanichton, B.C., V8M 2C2

**June 2023**



## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	Overview .....	1
1.2	Internet Browser Compatibility .....	1
1.3	Quick Reference Guide .....	1
1.4	Website Modules .....	1
<b>2.0</b>	<b>GETTING STARTED .....</b>	<b>3</b>
2.1	First Steps .....	3
2.2	Key Features .....	4
2.3	Common Tasks .....	5
2.3.1	I Want To .....	5
2.3.2	Scale .....	5
2.3.3	Coordinate System .....	6
2.3.4	Base Maps .....	6
2.3.5	Custom Module Tools / Reports .....	7
<b>3.0</b>	<b>LAYER WINDOW .....</b>	<b>8</b>
3.1	Map Layers .....	8
3.1.1	Default Map Layers .....	8
3.1.2	Expanded Map Layers .....	8
3.2	Layer Themes / Filters .....	10
3.3	Layer Customization and Information .....	12
3.3.1	Turn On/Off Layer Visualizations .....	13
3.3.2	Customize Labels .....	14
3.3.3	Toggle Labels .....	15
3.3.4	Metadata .....	15
<b>4.0</b>	<b>TOOLBARS .....</b>	<b>17</b>
4.1	Home Toolbar .....	17
4.2	Add Data Toolbar .....	19
4.3	Create a Map Toolbar .....	20
4.4	Species at Risk Toolbar .....	21
4.5	Boreal Caribou Toolbar .....	22
4.6	Migratory Caribou Toolbar .....	23
4.7	Biodiversity Toolbar .....	24
<b>5.0</b>	<b>GLOBAL SEARCH .....</b>	<b>26</b>
<b>6.0</b>	<b>DOWNLOAD DATA .....</b>	<b>27</b>
<b>7.0</b>	<b>WEBSITE CITATION .....</b>	<b>28</b>
<b>8.0</b>	<b>CONTACT INFORMATION .....</b>	<b>29</b>



## 1.0 INTRODUCTION

### 1.1 Overview

The *Species and Habitat Map Viewer* allows users to browse current map information maintained by the GNWT Wildlife Management Division and Centre for Geomatics. This support document provides an introduction to the components of the Map Viewer and how to use them.



The Map Viewer is designed to be used with minimal technical support through intuitive and standard web mapping functions. The easiest way to familiarize yourself with the Map Viewer is to review the Quick Start Guide and various map layers that are available, as well as the toolbar tips that appear when you hover over each button. If further information is required, this user manual can be referenced for details outlining specific map functions.

The Map Viewer *Home* page is found on the left side of the map when it opens. It provides basic information about the website and an introduction to the functions and support documentation for the *Species and Habitat Map Viewer* application.

Should you have questions, concerns, or recommendations on how to improve the Map Viewer or support documents, provide feedback using the contact information available in Section 6.0.

### 1.2 Internet Browser Compatibility

Before beginning to explore the *Species and Habitat Map Viewer*, it is important to check the internet browser compatibility on the computer that will be used to launch the Map Viewer. The Map Viewer is designed for compatibility between various internet browser services including Google Chrome, Mozilla Firefox and Apple Safari. If you are using an older version of Internet Explorer and you are finding that the application does not operate as presented in this user manual, you should consider changing the Internet Explorer tools/settings for compatibility mode.


### 1.3 Quick Reference Guide

The quick reference guide on page 2 provides a simple overview of the Map Viewer layout and key functions. Keep it on hand for reference while using the Map Viewer application.

### 1.4 Website Modules

The *Species and Habitat Map Viewer* website includes four (4) modules with specific data and functions that are located on Toolbar tabs at the top of the viewer. These modules include:

- Species at Risk
- Boreal Caribou
- Migratory Caribou (including Barren Ground Caribou and others)
- Biodiversity

Each of these modules (or themes) includes an *About* page which provides an introduction to the specific content that is available. Press the  icon on the left side of each tab toolbar to learn more about each individual theme.



By default all available map layers can be interactively displayed in the *Layers* list to the left of the map. Press the *Show Theme Layers* icon on each module tab to switch to a curated list of layers that pertain specifically to the module / theme of interest.



# Quick Reference Guide

## Toolbar Menu Tabs:

Click on other menu tabs to review other toolsets and controls.

Pg. 16

## Toolbar Buttons:

Use these buttons to perform specific tasks and move around the map window, explore data, and mark up map for printing.

Pg. 16 - 23

## Information Window:

The Information Window can be toggled on/off to add space for map window.

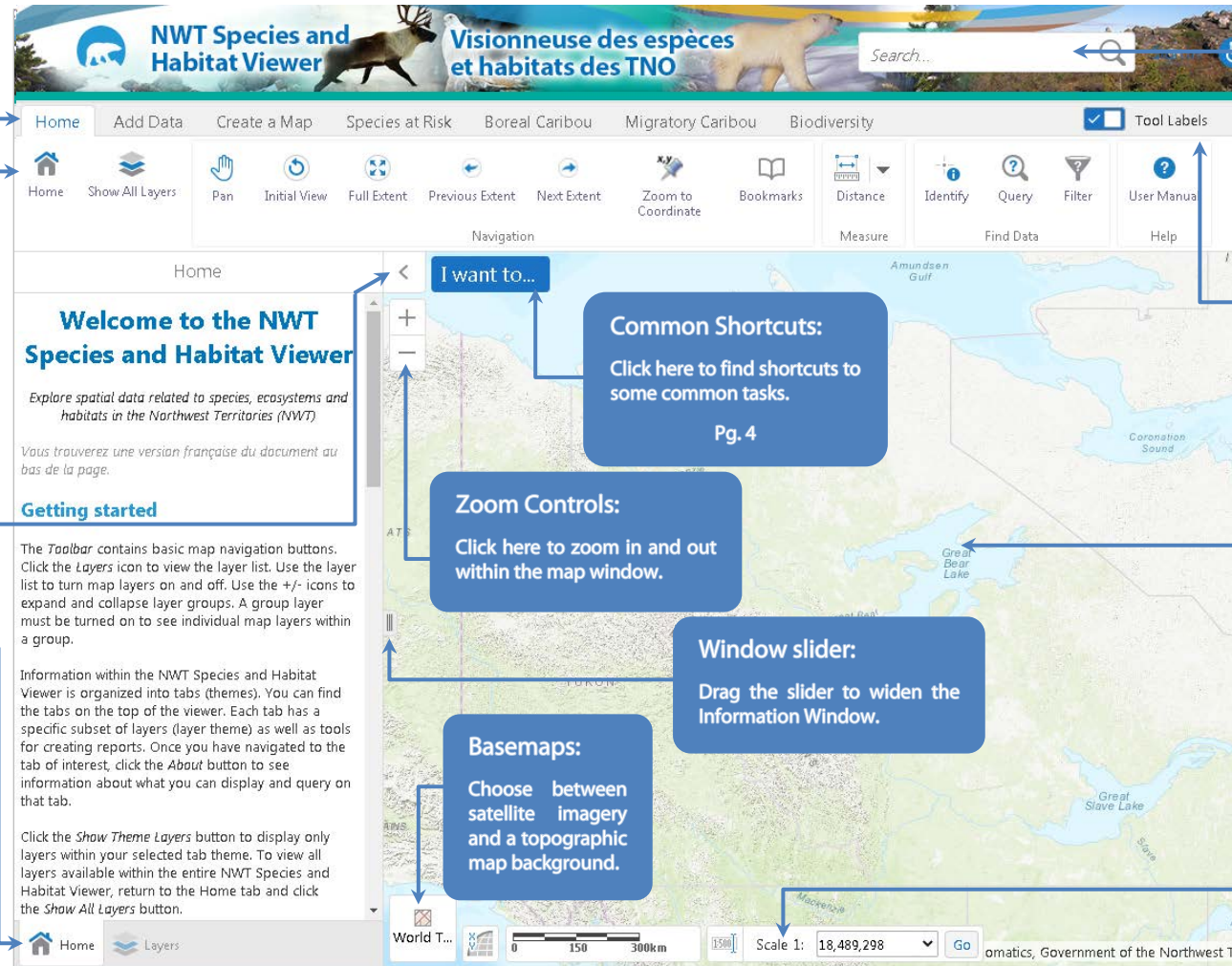
Tabs control what you see in the Information Window. By default, the Home and Layers tabs are visible. Searches will open new tabs. The new tabs can be closed via the "X" in the top right corner of the information window.

## Layer Tab:

All layers are displayed in this tab. Customize visible layers by using the check boxes to toggle on/off layers. Some layers are only visible within a certain map scale range, indicated by lighter font.

Use + and - to expand or collapse layers.

Pg. 8 - 11



## Global Search:

Search geographic place names, NTS map sheet numbers, key words, and layer fields.

Pg. 25

## Toggle Toolbar:

Hide the toolbar to increase map window size.

## Map Window:

The map window includes base mapping layers and interactive display of map layers.

## Download Map Data:

Data can be exported to shapefiles or tables (.csv, .xlsx) for use in desktop applications. Pg. 26

## Scale Button:

Display current map scale and switch to various pre-set scales.

Pg. 5

Access additional tools and information for each map layer (including metadata).

Pg. 12

## Coordinate Button:

Display x,y coordinates in different coordinate systems.

Pg. 6



## 2.0 GETTING STARTED

### 2.1 First Steps

While using the Map Viewer, explore information in the map window while also checking on/off layers of interest in the *Layers* list left of the map. Keep in mind that some layers are only visible within a certain map scale range so you may have to zoom in closer to for those data layers to appear in the map window. Also, a layer group must be checked to see individual (indented) layers. Reviewing all of the map layers is the best way to get familiar with what data is on this website. Use the Map Viewer to see maps and tables online or export tabular data and map information to common formats for use in spreadsheets, e-mail, or documents. For GIS users, functions exist to clip data to a desired extent and export map data for use in your desktop GIS applications. Each module includes tools that generate specific summary reports based on an area of interest that you define.

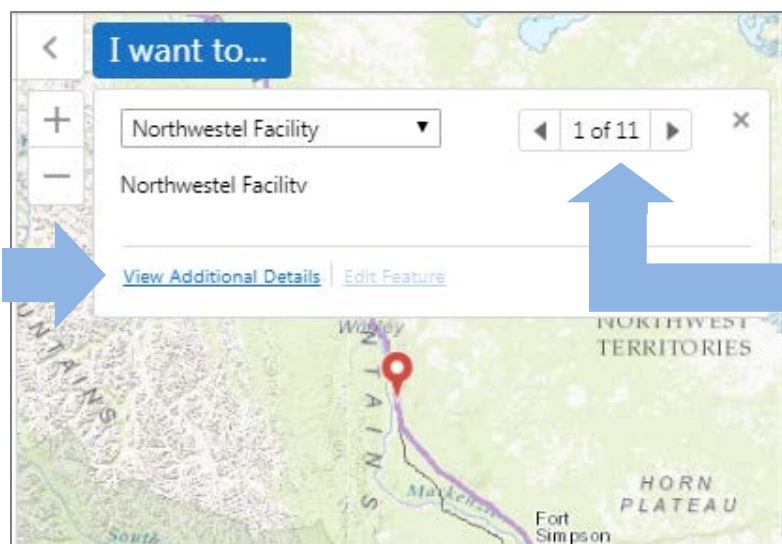
Keep in mind these common characteristics of the application to help you get started quickly:

- Read the *Home* message found left of the map window to get a quick introduction to the Species and Habitat Map Viewer and each module *About* message to further introduce each theme.
- Use the **Toolbars** and *I want to...* shortcuts to complete most tasks.
- Maximize the **Map Window** size when needed by collapsing the **Information Window** left of the map window.
- Use the tabs on the bottom-left of the Information Window to view map layers or to show the map legend and also to see various tool dialog messages or search results.



- This *User Manual* is accessible from all **Toolbar** tabs and the **Home** page.
- Hover the mouse over the tools to view **Tool Tips** that provide a description of each button.
- Click any feature displayed within the map window to learn more details (as illustrated below).

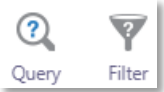

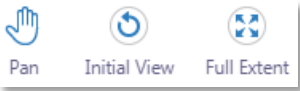



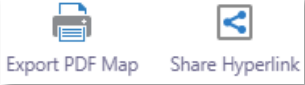
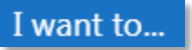
Press the *View Additional Details* option to open a new tab in the left window displaying key information for the selected feature.





## 2.2 Key Features

Provided are a list of key features that are available to investigate the data layers available within the Species and Habitat Map Viewer. Available features fall within four categories: search, navigation, editing/analysis, and communication.

Category	Feature	Description	Location
Search	<i>Home Tab Query Tool</i>	Query or filter a data layer by date, date range, or attributes (from a full list of map layers and data attributes.)	
	<i>Global Search</i>	Search designed to provide an easy way to find specific data layers or places. Search for a geographic place, map sheet, or layer name.	
Navigation	<i>Home Tab Navigation Tools</i>	Simple tools to pan, zoom, and quickly change map extents.	
	<i>Coordinate Button</i>	Change the coordinate system of the map window. Navigate around the map and the coordinates will update according to the mouse location.	
	<i>Zoom Controls</i>	Zoom in and out within the map window.	
Functions	<i>Add Data Toolbar</i>	Add map services. Upload common GIS layer formats. Browse the layer catalog.	
	<i>Create a Map</i>	Export / Download a custom map as a PDF or share a link to a custom map view.	
	<i>Common Shortcuts</i>	Various common tasks can be found on this menu on the upper left corner of the map window.	



## 2.3 Common Tasks

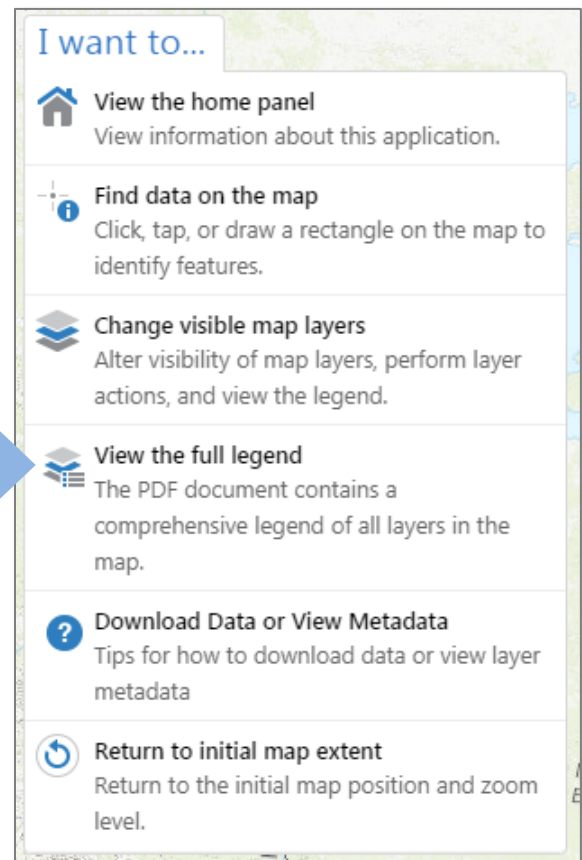
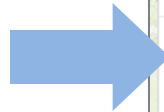
The information contained within this section outlines key ways to complete common tasks using the Species and Habitat Map Viewer.

### 2.3.1 I Want To...

Use this menu located inside the map window to quickly find and launch common tasks.

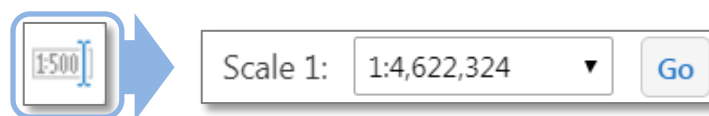


It can be helpful to print out a copy of the full map legend (available as a .PDF file). This legend should also be printed and included with any printed map products created using the *Export PDF Map* tool



### 2.3.2 Scale

The scale bar is located in the bottom left corner of the map window. Press the scale bar icon to view the current scale or to change to one of the pre-set scale options. The selectable scales are determined by the basemap tile cache and may not be round numbers; however, exporting a PDF map allows for the selection of common scale values.

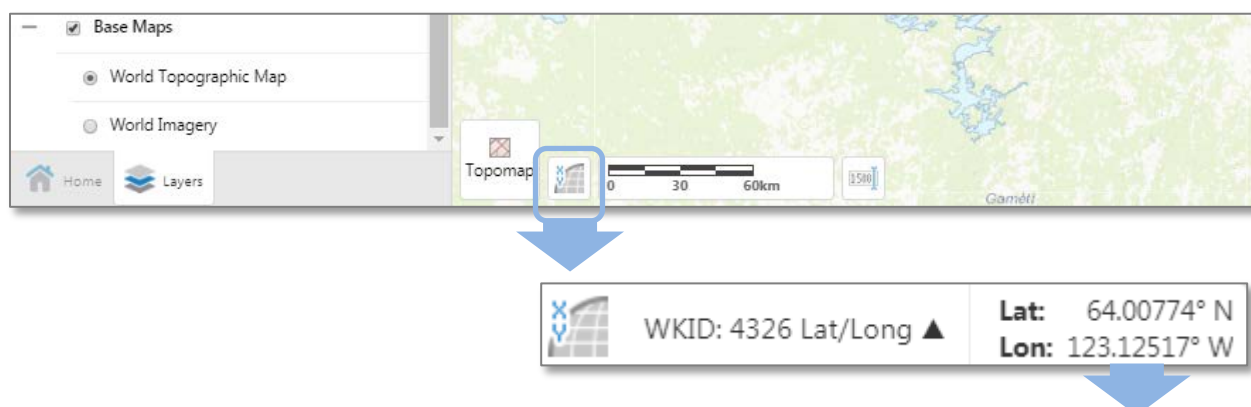




### 2.3.3 Coordinate System

Click the coordinate system button to display the current coordinate system for the map viewer. Click the black arrow to change the coordinate system to a set of predefined choices, including:

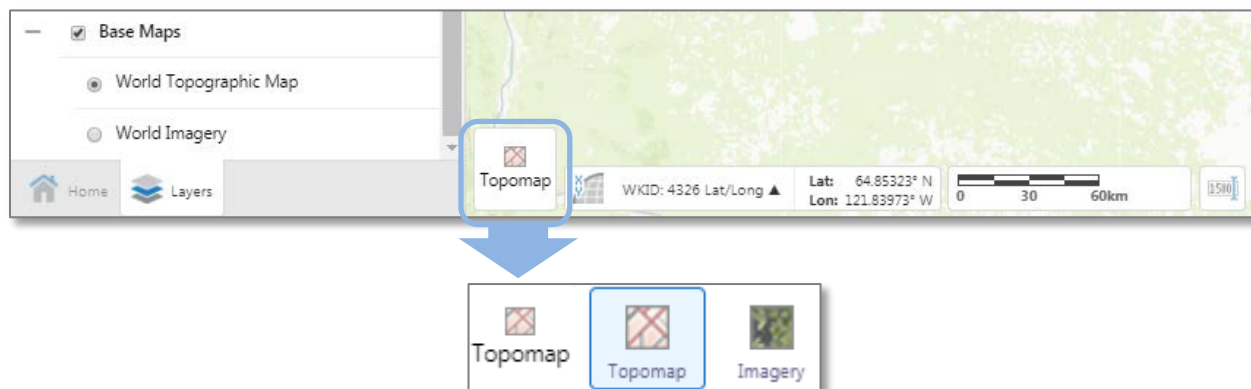
- WKID: 4326 Lat/Long
  - Name: Geographic Coordinate System, WGS 1984 datum
  - Units: latitude/longitude in decimal degrees (DD)
- WKID: 4326 DDM
  - Name: Geographic Coordinate System, WGS 1984 datum
  - Units: latitude/longitude in degrees, decimal minutes (DDM)
- WKID: 4326 DMS
  - Name: Geographic Coordinate System, WGS 1984 datum
  - Units: latitude/longitude in degrees, minutes, seconds (DMS)
- Default WKID: 102100 X/Y
  - Name: WGS 1984 Web Mercator (Auxiliary Sphere)
  - Units: X/Y in metres (m)



Move the mouse around the map and the coordinates will dynamically change to show the current position.

### 2.3.4 Base Maps

Change base map options using the shortcut icons on the bottom left of the map window. Or you'll find base maps options (topographic map or satellite imagery) at the bottom of the layers list.





### 2.3.5 Custom Module Tools / Reports

The four modules or themes of this website are found on individual toolbar tabs. Tools on each module include custom reports and maps that can be generated based on your area of interest. Details about each of these reporting tools are described in Section 4.0.

#### Species at Risk



Species at Risk  
Report

Use this tool to define an area of interest and generate a report (.pdf .xlsx .csv) that presents information about species at risk in the defined area.

#### Boreal Caribou



Habitat  
Disturbance  
Report



Project Screening  
Tool

Habitat Disturbance Report presents key information about human disturbances and fires that impact boreal caribou in a custom defined area of interest. Project Screening Tool tabulates impacts to habitat based on an uploaded footprint of a proposed development project.

#### Migratory Caribou



Bathurst Habitat  
Disturbance  
Report



Migratory  
Caribou Report

Bathurst Habitat Disturbance Report presents key information about impacts within the Bathurst Caribou Range. Migratory Caribou Report identifies key migratory caribou herds and ranges that overlap a custom defined area of interest.

#### Biodiversity



Species  
Distribution



Biodiversity  
Report

Species Distribution tool updates the map window with the range and abundance of various wildlife species found in the NWT. Biodiversity Report generates a detailed listing of species ranges that are present within a custom defined area of interest.

☒ Biodiversity Species Distribution

Absent

/// Presence Expected

■ Sparse

■ Occasional

■ Localized

■ Common



Note: The *Biodiversity Species Distribution* map layer must be turned on in the *Layers* list to see the results of the Species Distribution tool.



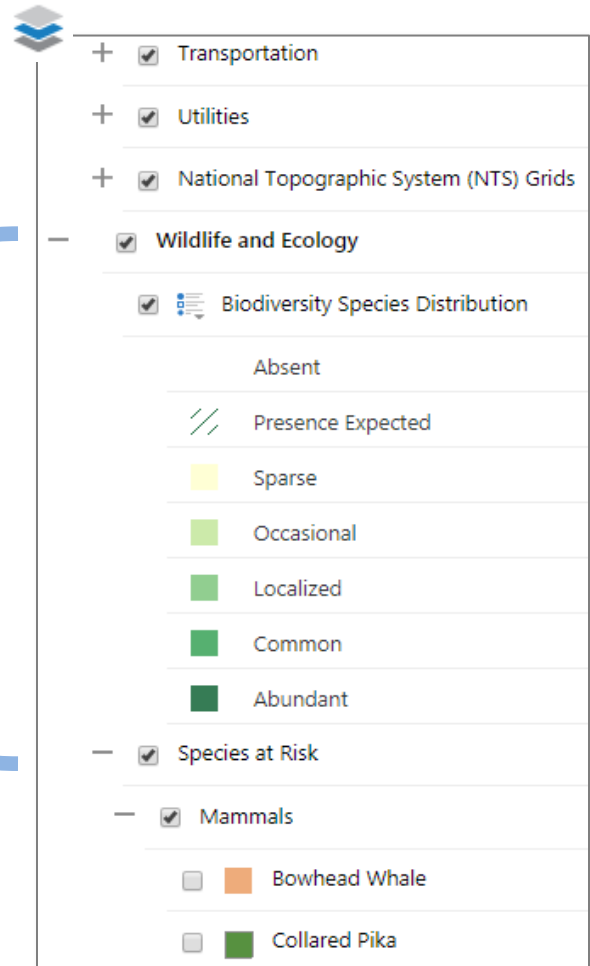
### 3.0 LAYER WINDOW

#### 3.1 Map Layers

##### 3.1.1 Default Map Layers

The map layers tab displays a table of contents for all data layers within the Map Viewer.

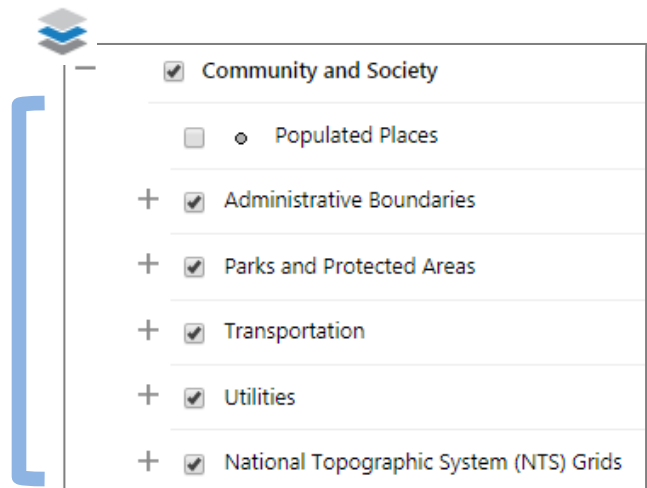
Most map layers are turned off by default. You may expand layer groups and turn on layers as needed. To turn on (make visible) or off (hide) a layer, click the checkbox. To expand or minimize a layer category, click the + or – buttons. Folder or layer groups must be turned on to activate the layers within them. Content in folder that are not turned on will appear grayed out.



##### 3.1.2 Expanded Map Layers

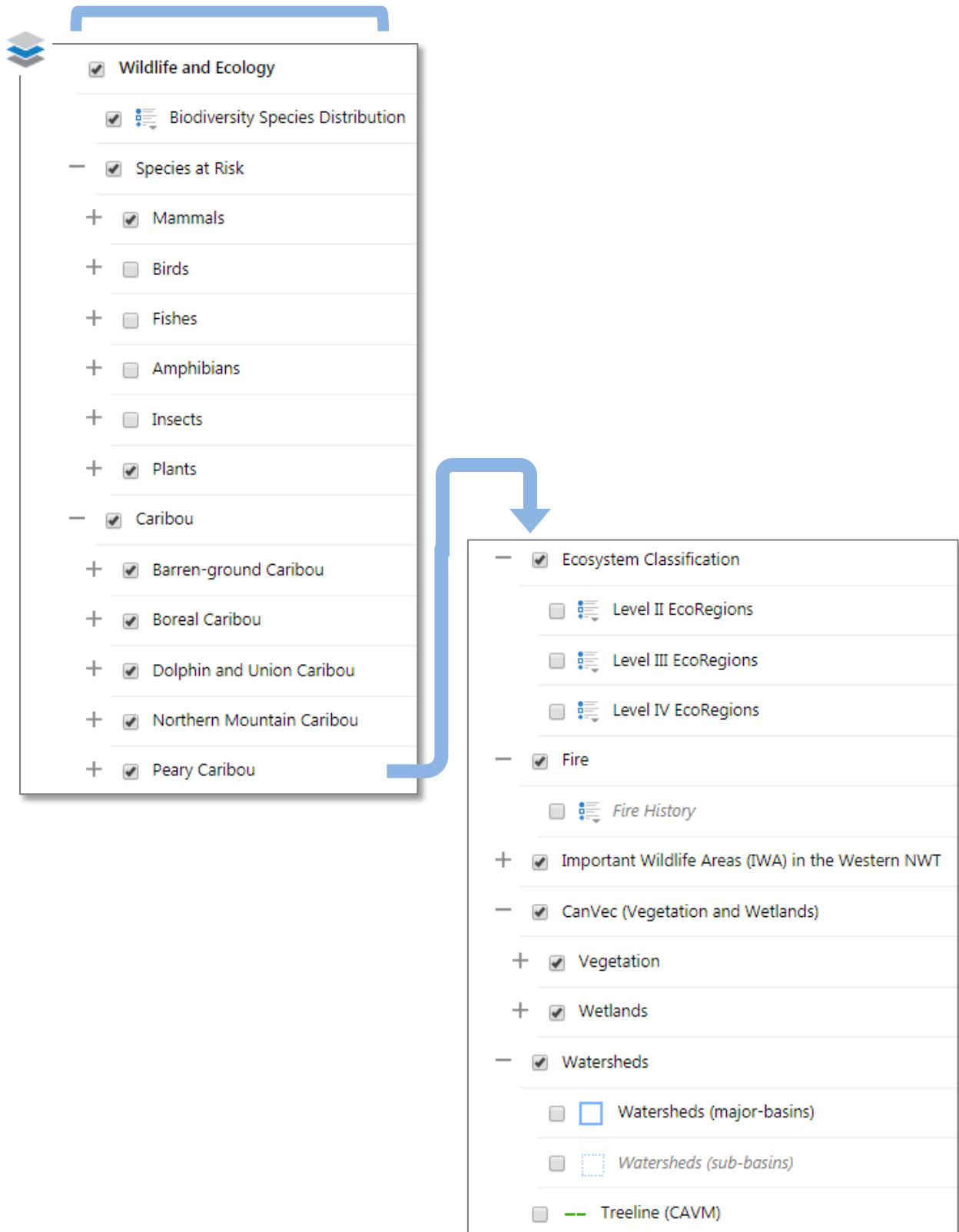
The map layers are grouped into three main categories: (1) Community and Society, (2) Wildlife and Ecology, and (3) Industry. Each category holds a series of relevant data layers.

The **Community and Society** category holds a set of subcategories that include various Communities, Administrative Boundaries, Parks and Protected Areas, Transportation and Utility layers. Also, the NTS grids used to define the location of 1:50,000 and 1:250,000 scale topographic maps.



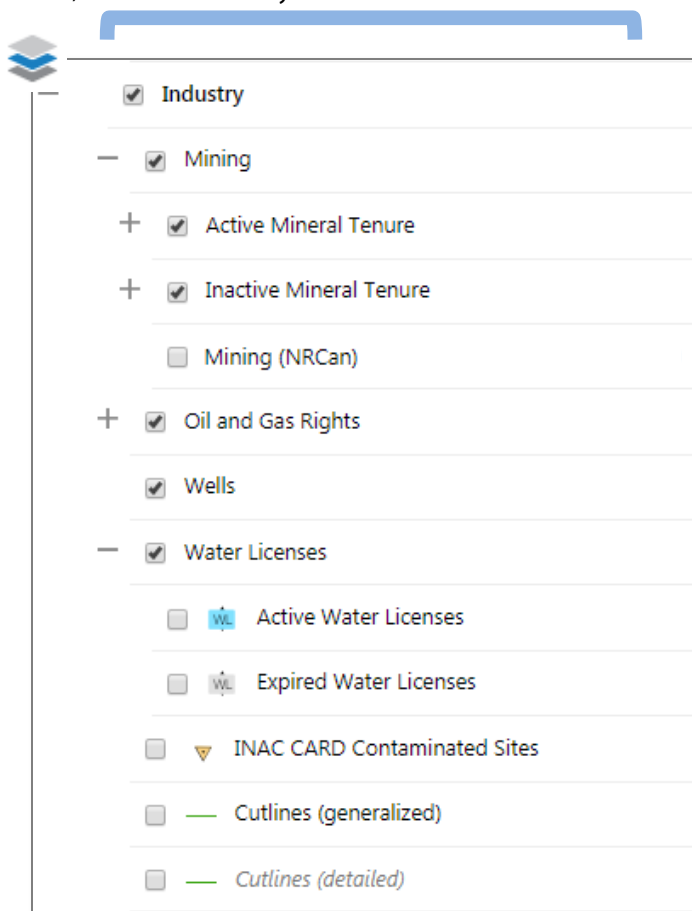


The **Wildlife and Ecology** category holds biodiversity distributions, species at risk, various caribou datasets, important wildlife areas, ecosystem classification (EcoRegions), fire, treeline, watershed and wetland layers with several layers within each category.



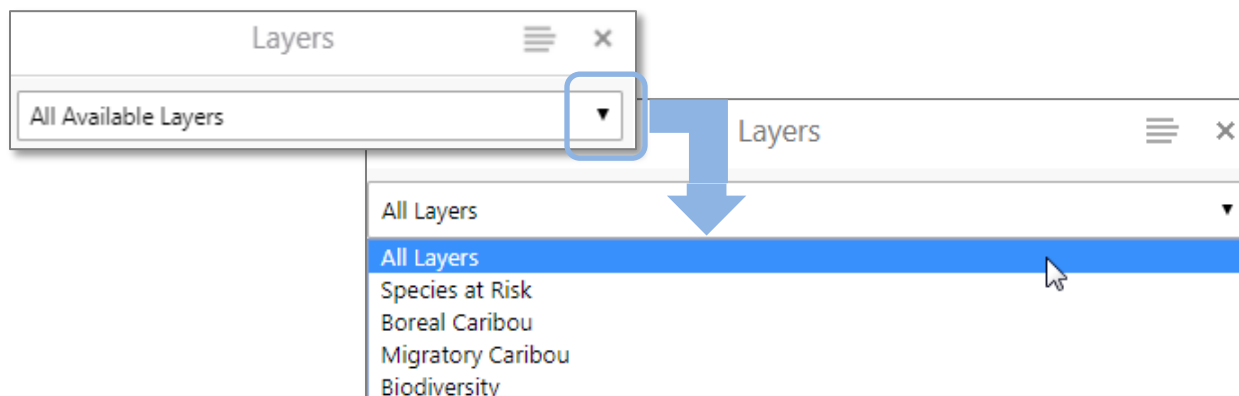


The **Industry** category holds a series of layers depicting mines, active and inactive mineral tenure, oil and gas rights, well locations, water licenses, registered contaminated sites, and seismic survey cut lines.



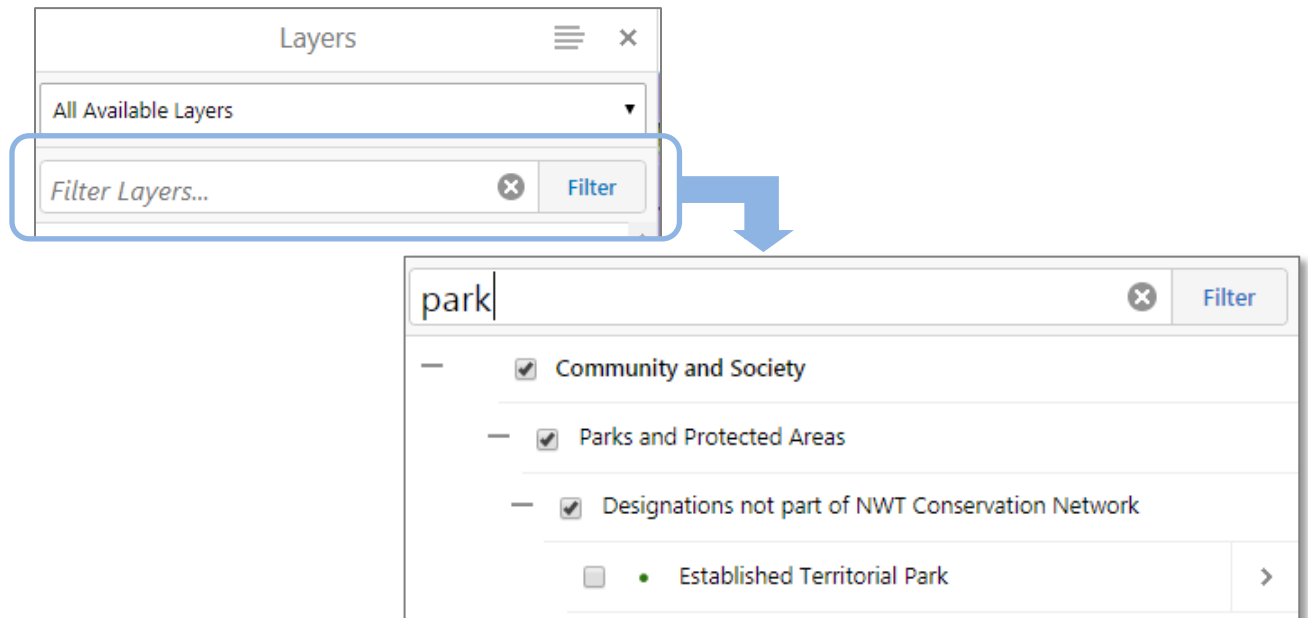
### 3.2 Layer Themes / Filters

Layer themes are used to revise the set of layers to a curated list to suit a specific module or theme (i.e., *Species at Risk*, *Boreal Caribou*, *Migratory Caribou*, or *Biodiversity*). Selecting a Layer Theme will remove un-related layers from the layer list turn on the visibility of key layers for the selected theme. To switch between layer themes, click the drop down menu (black arrow) at the top of the layer window. Select the desired category from the list to make visible all layers within the chosen theme. To return to the full data list choose the *All Layers* option.







The Filter Layers tool is used to only show certain layers in the Layer List window to the left of the map window. In the example below a filter is applied to only show layers that include 'park' in the layer name.






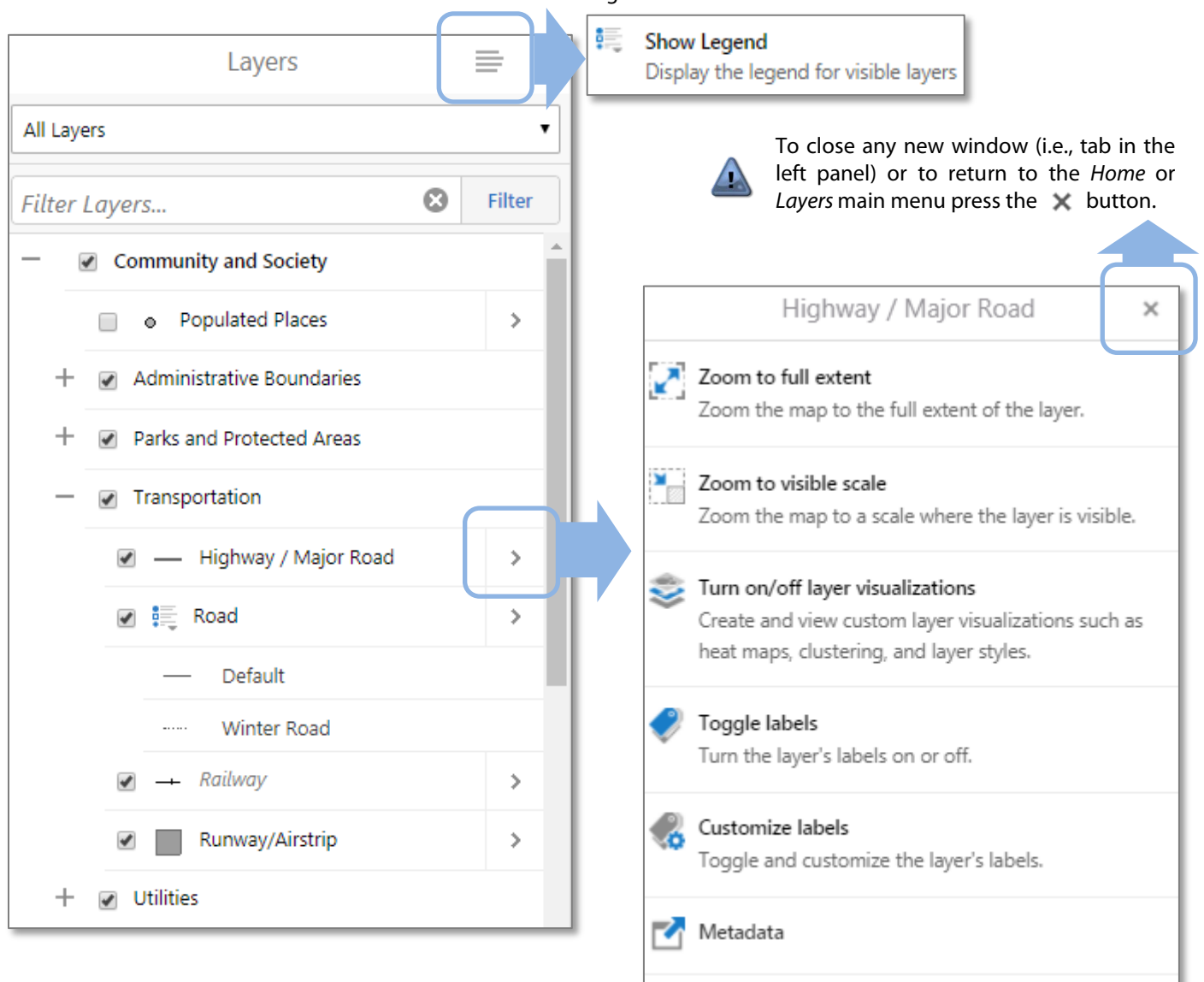
### 3.3 Layer Customization and Information

To access basic tools and to get more detailed layer information, click the  icon next to the layer name. A new tab will open and will be titled with the selected layer name. To return to the layer main menu, click the  button in the top right hand corner of the layer window.

The *Zoom to Full Extent* option will automatically zoom the features in the map window to the full extent of the layer. All features contained within the layer should be subsequently visible within the map window. However, some layers are only visible within certain scale ranges. Use the *Zoom to Visible Scale* tool to zoom to the visible extent of the selected layer.

Additional customization tools are discussed in Sections 3.3.1 (Turn on/off layer visualizations), 3.3.2 (Customize Labels), 3.3.3 (Toggle Labels), and 3.3.4 (Metadata).

The menu button  will open an option to see all visible layers displayed in a legend.




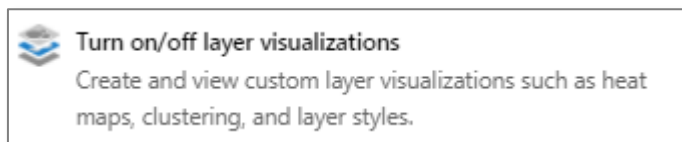
The screenshot shows the 'Layers' panel on the left and a 'Highway / Major Road' customization window on the right. The 'Layers' panel has a 'Show Legend' button (hamburger icon) at the top right, which is highlighted with a blue box and an arrow pointing to a callout box. The callout box contains the text: 'Show Legend' and 'Display the legend for visible layers'. Below the 'Layers' panel, there is a 'Filter Layers...' search bar and a list of layers. The 'Highway / Major Road' layer is selected, and its customization window is open. This window has a 'Close' button (X icon) at the top right, which is highlighted with a blue box and an arrow pointing to a callout box. The callout box contains the text: 'To close any new window (i.e., tab in the left panel) or to return to the Home or Layers main menu press the X button.' The customization window lists several options: 'Zoom to full extent', 'Zoom to visible scale', 'Turn on/off layer visualizations', 'Toggle labels', 'Customize labels', and 'Metadata'. Each option has a corresponding icon and a brief description.



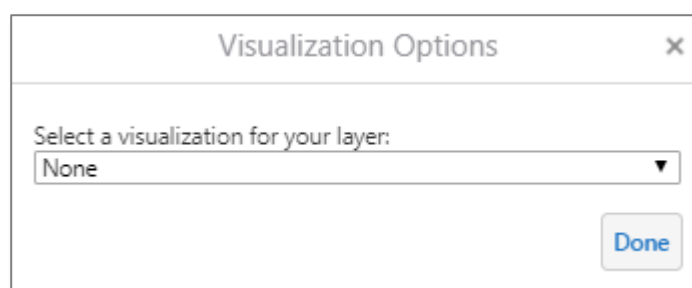
### 3.3.1 Turn On/Off Layer Visualizations

Layer visualizations tool provides a way for the user to customize how each layer is symbolized within the map viewer. Users can change the colours, line widths, or make layers semi-transparent to see other datasets more clearly.

To access layer visualizations, click the  button next to the layer name and select the *Turn On/Off Layer Visualizations* button.



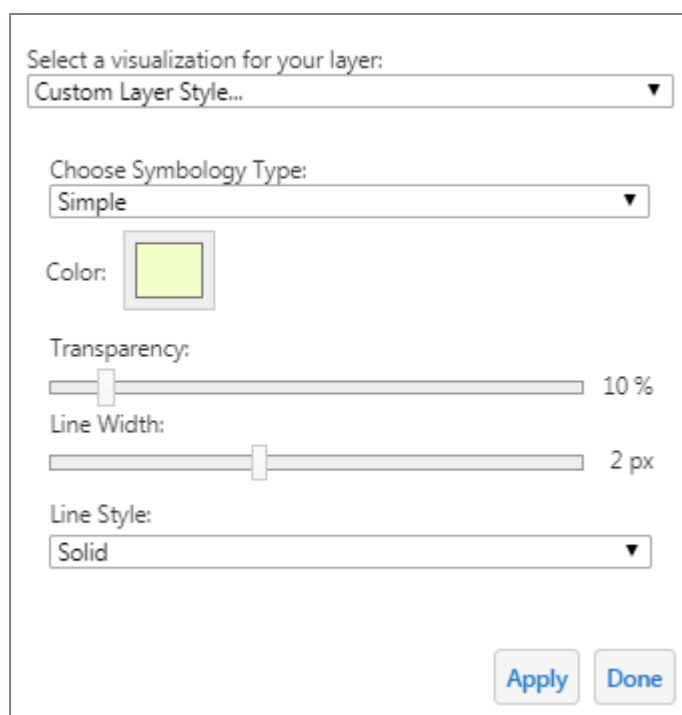
Click the black arrow to expand the drop down menu. Select custom layer style.



A layer can be symbolized using the simple or attribute symbology type selected from the drop down menu under the *Choose Symbology Type* option.

The simple symbology menu will provide options to change the colour, transparency and line style and width of the selected layer (as illustrated on the right).

The attribute symbology menu will provide a drop down list of available attributes for the selected layer. Select the attribute to be symbolized. Additional selections then become available. Adjust colour, transparency and line/marker style as necessary.

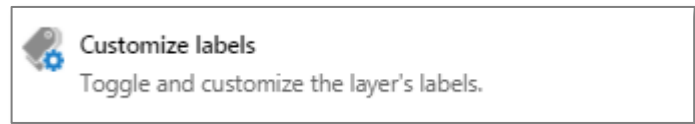




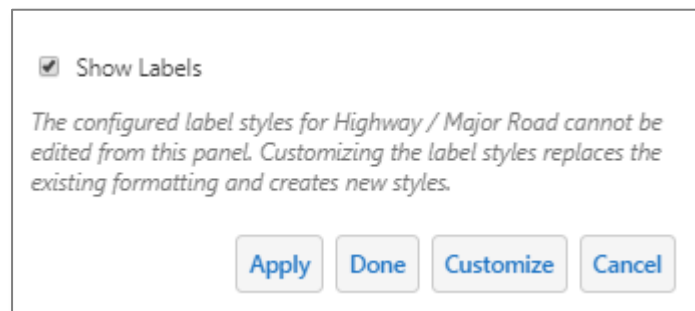
### 3.3.2 Customize Labels

Use the *Customize Labels* tool to change the font size, colour, or placement of the layer labels in the map window. The illustration below uses the Highway/ Major Road layer as an example.

To access *Customize Labels*, click the > button next to the layer name and select the *Customize Labels* button.



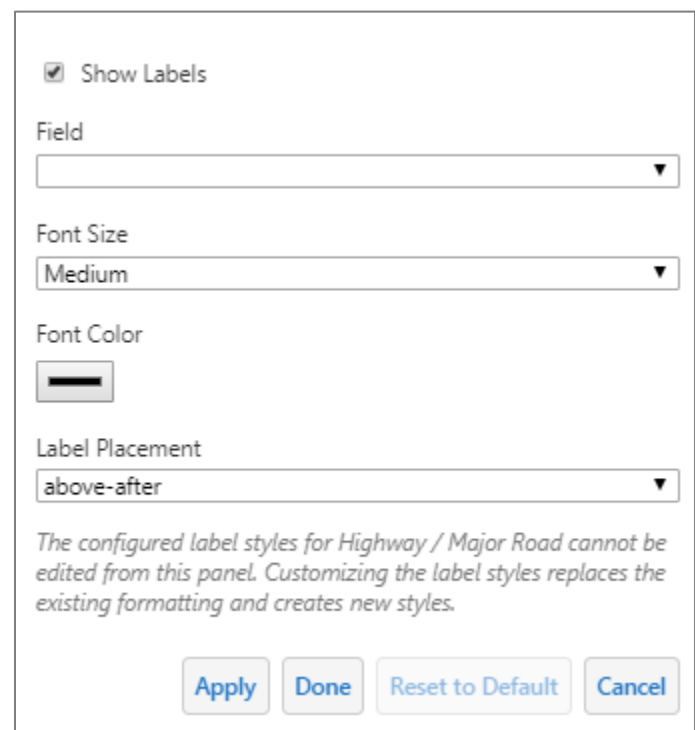
Click the *Customize* button to open the customization window.



The *Show Labels* toggle controls the label visibility. Check the box to make the label visible in the map window or uncheck to hide all labels.

Select the layer field (attribute) that contains the attribution of desired information.

Change font size and colour as necessary and adjust the label placement by selecting one of the options from the drop down menu.





### 3.3.3 Toggle Labels

The *Toggle Labels* feature will turn on and off the layer labels within the map window. The example below toggles the labels of the Mining layer.

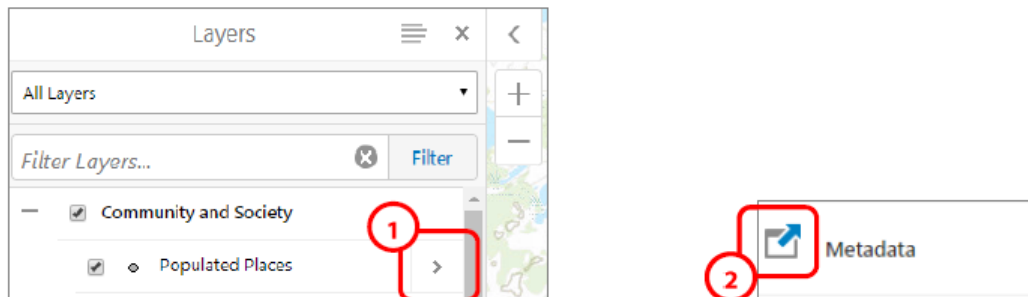


### 3.3.4 Metadata

Layer metadata contains the important information (e.g., spatial reference, description, citation, and dataset credit) associated with a particular dataset.

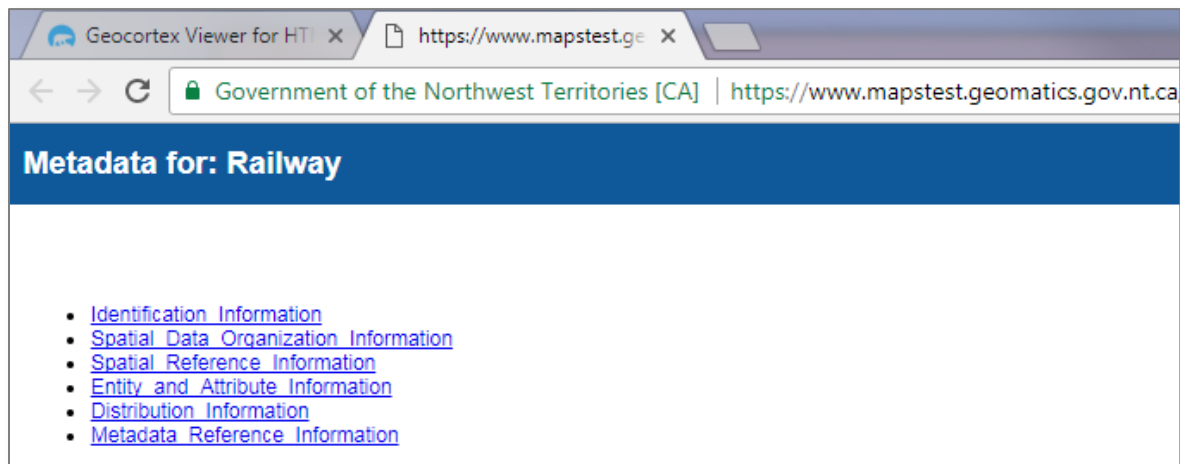
To access the metadata for a particular layer, follow these steps:


**How to Review Metadata:** Press the **>** icon to the right of the layer in the *Layers* window as shown below. Then (scroll down if required and) select the *Metadata* option.





When you select the *Metadata* option for a layer, a new internet browser tab displaying the metadata information will be launched. To return to the Map Viewer, click the internet browser Geocortex Viewer tab.



<p><b>Title:</b> sd.DBO.TRA_NRCAN_NTDB50K_Railways <b>Geospatial_Data_Presentation_Form:</b> vector digital data</p> <p><b>Description:</b></p> <p><b>Abstract:</b> NTDB digital topographical dataset of NTS sheets within NWT, Nunavut and Yukon with northern parts of Alberta, British Columbia, Manitoba and Saskatchewan (to the 5... Data Base (NTDB) comprises digital vector data sets that cover the entire Canadian landmass. Geomatics Canada has digitized and structured thousands of topographic product that can be highly useful in a broad range of industries. The NTDB includes features such as watercourses, urban areas, railways, roads, vegetation, and relief. The National Topographic System (NTS), based on the North American Datum of 1983 (NAD83). Each file (data set) consists of one NTS unit at either the 1:50,000 or 1:2... now available by themes within a file. The ground data is depicted through points, lines, and areas.</p> <p><b>Purpose:</b> NTDB railway lines at 1:50,000 scale. The NTDB provides a base of properly structured vector data (segmentation, mathematical closure, connection and sharing between geographic information system (GIS) applications. It also can be used for preparing thematic maps. Data was downloaded from ftp site ftp://ftp2.cits.mcan.gc.ca/pub/bnd/</p>		<p>Name of the source file on NWTCG spatial data infrastructure for direct use within desktop GIS.</p>
--	---	--





## 4.0 TOOLBARS

The five toolbars hold a variety of map functions, editing tools and analysis options. Hover over each tool to view a description. Select the *User Manual* button to be directed to the user manual and quick start guide.

### 4.1 Home Toolbar








The *Home Toolbar* includes several *Navigation* tools to help zoom to an area of interest, *Measure* tools to calculate distances or areas, Find Data tools to see map data attributes or locate specific map features of interest, plus a few other common tools to learn more about the NWT Species and Habitat Viewer. Review the following section to learn more about these tools.

[Home](#)
[Add Data](#)
[Create a Map](#)
[Species at Risk](#)
[Boreal Caribou](#)
[Migratory Caribou](#)
[Biodiversity](#)





Press the *Home* tool to open the *Home Page* with information to help guide you through the use of the Map Viewer. Use the *Show All Layers* tool to view the Layers list and turn on/off various map layers.




Hold the mouse over any of these *Navigation* Tools to learn more about them. Press the *Pan* tool and then drag the mouse in the map window to move around the map. *Zoom to Coordinate* if you know the map coordinates of an area of interest. Use *Bookmarks* to create a spatial bookmark of the current map extent.

Pan
Initial View
Full Extent
Previous Extent
Next Extent
Zoom to Coordinate
Bookmarks




Press the *Distance* tool to set measurements units and options to snap to map features to perform measurements. Press the down arrow to the right of this tool to switch between length and area measurements.

Identify
Query
Filter

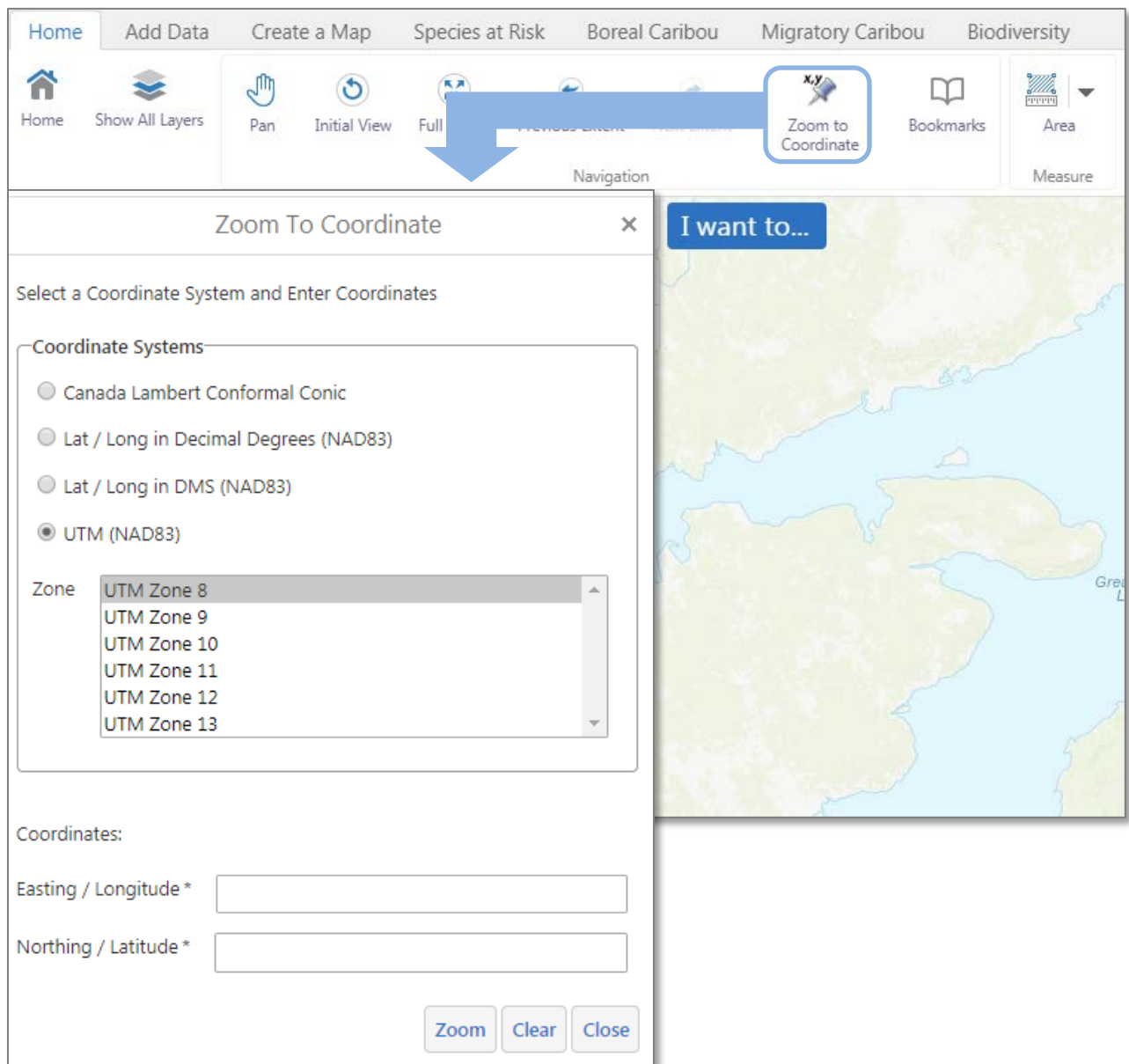
Clicking on many features on the map will open a dialog with key attribute information about that feature. The *Identify* tool can also be used to learn more about the details of any feature on the map. *Query* performs a selection query that highlights features (on the map or in a table) that fulfill the defined conditions. *Filter* removes features from the map based on a set of conditions.



This *User Manual* is available from links on any one of the map viewer toolbars. Use it as a reference if you need guidance for any map function.



The *Zoom to Coordinate* tool is used to pan the map directly to a specific coordinate that is entered. Be sure to select the appropriate *Spatial Reference* (coordinate system) from the available choices. Then enter the pair of coordinate values and press the *Zoom* to complete the task.






## 4.2 Add Data Toolbar


The *Add Data* Toolbar includes tools to bring more GIS data into the web map viewer for the duration of the current map session. These added layers will not be retained if the web browser is closed, but adding more data can help visualize other map layers along with the data that is already available in the NWT Species and Habitat Viewer *Layers* list.

Home
Add Data
Create a Map
Species at Risk
Boreal Caribou
Migratory Caribou
Biodiversity




Add more map layers to the map from known secure web map services that may be located on geospatial websites. Ideally, the new layer(s) should have the same projection as the existing map (WGS 1984 Web Mercator Auxiliary Sphere, WKID 102100). If your layer has a different projection, map performance may be affected.

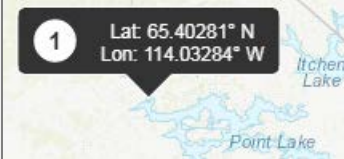
Example web map service: <https://geoappext.nrcan.gc.ca/arcgis/rest/services/BaseMaps/CBMT3978/MapServer>



Upload GIS files in formats such as .SHP, .KML, or Esri file geodatabases. Esri shapefiles or file GDBs must be uploaded in a .ZIP file. Large files may perform slowly in the web browser. Consider downloading data from this website to add to your own desktop GIS for further analysis.



Use the *Plot Coordinates* tool to record and label points on the map with coordinates. You may enter known coordinates or click on the map to add map annotation. Use snapping to annotate features precisely.



Home
Add Data
Create a Map
Species at Risk
Boreal Caribou
Migratory Caribou
Biodiversity

Add Layers
Upload Data
Plot Coordinates
Enable Snapping
Select Snapping Layers
User Manual

Plot Coordinates


Coordinate System:  
WKID: 4326 Lat/Long

1	Lat 65.40281° N Lon 114.03284° W	...
2	Lat 66.04417° N Lon 120.94325° W	...
3	Lat 65.66670° N Lon 120.62464° W	...
4	Lat <input type="text"/> Lon <input type="text"/>	

Add
Cancel

Coordinate 2 Actions

- Hide Coordinate  
Temporarily hide this coordinate.
- Edit  
Edit the location of this coordinate.
- Delete  
Delete this coordinate and remove it from the map.





### 4.3 Create a Map Toolbar

The *Create a Map* toolbar includes drawing tools to add *points*, *lines*, *polygons* and *text* annotation to the dynamic map. This can be useful to document and share details prior to exporting (printing to .PDF). You may also choose to *Share a Hyperlink* to provide somebody else with a link to the web map via social media. Often, drawing tools can serve to mark-up an area of interest on the map to then be shared with colleagues or other stakeholders via PDF. Graphics/text added to the map can be modified or deleted using the *Edit* tools in the *Create a Map* toolbar.

Home
Add Data
**Create a Map**
Species at Risk
Boreal Caribou
Migratory Caribou
Biodiversity

Export PDF Map

Share Hyperlink

Use the *Export PDF Map* dialog to save a map view as a PDF. Selecting a defined map scale, *Current Scale* or *Current Extent* to create a printed map that is designed for letter-size (8.5x11) paper. Use *Share Hyperlink* to send a link to this web map via email or social media.

Point

Edit

Export Drawings

Point

Text

Line

Freehand

Freehand Shape

Ellipse

Circle

Polygon

Rectangle

Press the down arrow beside *Point* to access other types of drawing tools that can be used to mark-up the map window.

Use the *Edit* tools to modify graphics you have added to the map. This includes moving or resizing graphics/text, reshaping graphics by editing vertices, erasing specific graphics/text, or clearing all graphics/text off the map.

Once a graphic tool is selected you may also *Enable Snapping* to improve digitizing precision by snapping to existing map features or use the *Styles* dialog to set the colour or look of each graphic.

*Export Drawings* becomes active once some graphics are drawn. This tool can be used to convert drawn graphic mark-up into a shapefile GIS format to then be downloaded for use in common GIS software.

Single click on the map to start the drawing process. To finish, double click to complete the shape or text. The shape will turn blue.

To change the look of the graphic, click the *Styles* button in the toolbar tab before starting the drawing process.

Styles

#### Select Drawing Style

Type:

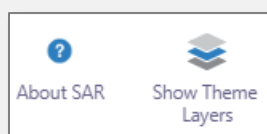
Choose a style ▼

**Solid Transparent Fill Blue**



## 4.4 Species at Risk Toolbar

The *Species at Risk* Toolbar contains a series of tools that are focused on the NWT Species at Risk data and programs. Click the *About SAR* tool to learn more about the Species at Risk data and available web map tools.



Click the *About SAR* tool to learn more about the Species at Risk functions on this website and find links to other Species and Risk websites. Scroll down as required to read the full about page. Press *Show Theme Layers* to modify the *Layers* list to a curated set of information that pertains to Species at Risk.



The *Species at Risk Report* tool creates a custom report (in PDF, CSV, or XLSX formats) that highlights the species that exist within a user defined area of interest. Follow the dialog in the left window once the tool is selected. The area of interest may be drawn in the map window, uploaded from a shapefile, or defined from a list of coordinates. If you choose to draw the area of interest on the map you will be prompted to start drawing on the map by clicking each vertex and then ending the graphic by double clicking. Submit the report request and then download files once they have been generated. Downloaded files may open directly from the link or appear at the bottom of the web browser page.

### Species Information

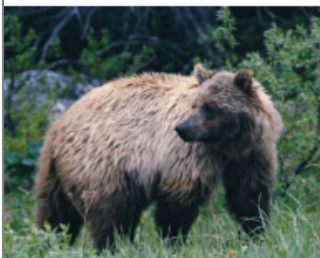


Photo Credit: Gordon Court

**Species:** Grizzly Bear  
**Category:** Mammal  
**Scientific name:** *Ursus arctos*  
**Range type:** Areas of increased presence

**Table 1. Status of the species under federal and territorial species at risk legislation**

	Assessment	Legal List
Canada	Special Concern	Under Consideration
NWT	Special Concern	Under Consideration

### Additional Information

Date range information was last reviewed:	31-Aug-2016
Date status information was last reviewed:	6-Apr-2017
Lead agency:	ENR
Authoritative website:	<a href="http://www.nwt-speciesatrisk.ca">www.nwt-speciesatrisk.ca</a>
NWT species information page:	<a href="http://www.nwt-speciesatrisk.ca/species/grizzly-bear">http://www.nwt-speciesatrisk.ca/species/grizzly-bear</a>
NWT range map:	<a href="http://www.nwt-speciesatrisk.ca/sites/default/files/speciesmap_grizzlybear.jpg">http://www.nwt-speciesatrisk.ca/sites/default/files/speciesmap_grizzlybear.jpg</a>
Contact for range map and shapefiles:	<a href="http://www.nwt-speciesatrisk.ca/content/range-map-information-gnwt">http://www.nwt-speciesatrisk.ca/content/range-map-information-gnwt</a>
Metadata:	<a href="http://www.appstest.geomatics.gov.nt.ca/arcgis/rest/services/GNWT/BiologicEcologic_LCC/MapServer/37">http://www.appstest.geomatics.gov.nt.ca/arcgis/rest/services/GNWT/BiologicEcologic_LCC/MapServer/37</a>

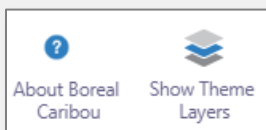
The Species at Risk Report generates a list of species at risk that are expected to occur in a user-defined Area of Interest, based on range maps. Species range maps are approximate and are not intended for legal use.

Northwest Territories Environment & Natural Resources  
 For more information, contact the Wildlife Biologist (Species at Risk): SARA@gov.nt.ca, (867) 767-9237 ext. 53214

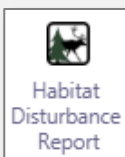


## 4.5 Boreal Caribou Toolbar

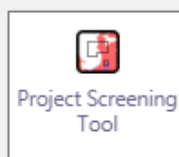
The *Boreal Caribou* Toolbar contains a series of tools that are focused on the Boreal Caribou data within the NWT range (called NT1) and reporting tools that describe the level of human disturbance and fire impacts within Caribou habitat. Click the *About Boreal Caribou* tool to learn more about the Boreal Caribou data and available web map tools.



Click the *About Boreal Caribou* tool to learn more about the Boreal Caribou functions on this website and find links to other pertinent websites. Scroll down as required to read the full about page. Press *Show Theme Layers* to modify the *Layers* list to a curated set of information that pertains to Boreal Caribou.



The *Habitat Disturbance Report* tool creates a custom report (in PDF format) that highlights the overlap of a custom area of interest with past fire and human disturbances. Follow the dialog in the left window once the tool is selected. The area of interest may be drawn in the map window, uploaded from a shapefile, (or defined from a list of coordinates). If you choose to draw the area of interest on the map you will be prompted to draw a rectangle or multi-sided polygon. Click and drag the rectangular shape or for polygons start drawing on the map by clicking each vertex and then ending the graphic by double clicking. Download files once they have been generated. Downloaded files may open directly from the link or appear at the bottom of the web browser page.





The *Project Screening* tool creates a custom report (in PDF, CSV, or XLSX formats) that tabulates the cumulative human disturbance in NT1 range planning areas along with the new disturbance added by the proposed project footprint. The footprint must first be added to the map as a GIS file using the *Upload Data* tool on the *Add Data* toolbar. Follow the dialog in the left window once the tool is selected. The maps generated via this report illustrate the project footprint relative to existing disturbances in the vicinity. Download files once they have been generated. Downloaded files may open directly from the link or appear at the bottom of the web browser page.




## 4.6 Migratory Caribou Toolbar

The *Migratory Caribou* Toolbar contains a series of tools that are focused on the Barren-ground Caribou herds as well as the Dolphin & Union herd. Use the *Show Theme Layers* tool to display the various annual ranges and calving areas. Seasonal ranges are also provided and can be toggled on if required. Click the *About Migratory Caribou* tool to learn more about the Migratory Caribou data and available web map tools.


  
 About Migratory Caribou

  
 Show Theme Layers

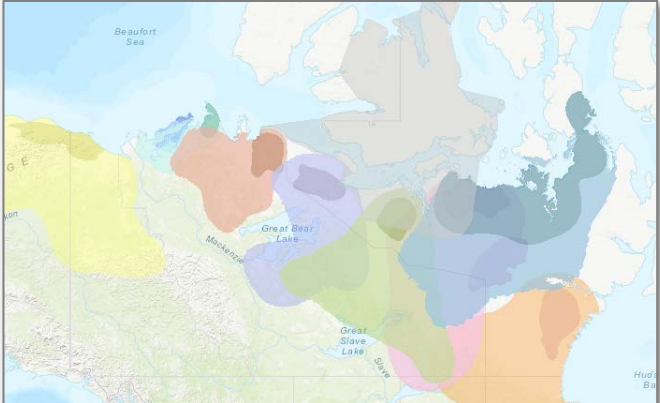
Click the *About Migratory Caribou* tool to learn more about the functions on this tab and find links to other pertinent websites. Scroll down as required to read the full about page. Press *Show Theme Layers* to modify the *Layers* list to a curated set of information that pertains to Migratory Caribou.

  
 Bathurst Habitat Disturbance Report

The *Bathurst Habitat Disturbance Report* tool creates a custom report (in PDF format) that provides information about human-caused land disturbance within the Bathurst Caribou Range Plan (BCRP). This report refers to Range Assessment Areas and defined management responses that depend upon disturbance thresholds within the Cumulative Land Disturbance Framework (CDLF). Follow the dialog in the left window once the tool is selected. The area of interest may be drawn in the map window, uploaded from a shapefile, (or defined from a list of coordinates). If you choose to draw the area of interest on the map you will be prompted to draw a rectangle or multi-sided polygon. Click and drag the rectangular shape or, for polygons, start drawing on the map by clicking each vertex and then ending the graphic by double clicking. Define a buffer distance to be used as a Zone of Influence for disturbance calculations or select a disturbance type from the menu which will apply a predefined buffer distance. Download (PDF, CSV, XLSX) files once they have been generated. Downloaded files may open directly from the link or appear at the bottom of the web browser page.

  
 Migratory Caribou Report


The *Migratory Caribou Report* tool creates a custom report (in PDF, CSV, or XLSX formats) based on a user defined area of interest. The report includes information about migratory caribou ranges including seasonal ranges and calving grounds that overlap the area of interest. Follow the dialog in the left window once the tool is selected. The area of interest may be drawn in the map window, uploaded from a shapefile, (or defined from a list of coordinates). If you choose to draw the area of interest on the map you will be prompted to draw a rectangle or multi-sided polygon. Click and drag the rectangular shape or, for polygons, start drawing on the map by clicking each vertex and then ending the graphic by double clicking. Downloaded files may open directly from the link or appear at the bottom of the web browser page.






## 4.7 Biodiversity Toolbar

The *Biodiversity* Toolbar contains a series of tools that provide details about the full variety of species and ecosystems in the NWT. Use the *Show Theme Layers* tool to display related map information. Click the *About Biodiversity* tool to learn more about available data and available web map tools.




About Biodiversity



Show Theme Layers


Click the *About Biodiversity* tool to learn more about the functions on this tab and find links to other pertinent websites. Scroll down as required to read the full about page. Press *Show Theme Layers* to modify the *Layers* list to a curated set of information that pertains to species and ecosystem biodiversity.










Species Distribution


The *Species Distribution* tool is used in conjunction with the Biodiversity Species Distribution map layer (shown right) to display a specific species of interest.

The map legend layer must have visibility checked on to display the species distribution map. The *Species Distribution* tool allows for the entry or browsing of categories to select a species of interest and update the map display.

 Biodiversity Species Distribution

- Absent
-  Presence Expected
-  Sparse
-  Occasional
-  Localized
-  Common
-  Abundant












Biodiversity Report


The *Biodiversity Report* tool creates a custom report (in PDF, CSV, or XLSX formats) that lists the species that are present within a user defined area of interest. The report breaks down the species by the various ecosystems (Level IV EcoRegions) that are also present. Follow the dialog in the left window once the tool is selected. The area of interest may be drawn in the map window, uploaded from a shapefile, or defined from a list of coordinates. If you choose to draw the area of interest on the map you will be prompted to start drawing on the map by clicking each vertex and then ending the graphic by double clicking. Submit the report request and then download files once they have been generated. Downloaded files may open directly from the link or appear at the bottom of the web browser page.

The *Species Distribution* tool is used to view distribution maps for a specific species of interest. Guidance for use of this tool is provided on the following page and also accessed in the website as illustrated below. Metadata is also available through the layer menu.





 Biodiversity Species

Distribution

- Absent
-  Presence Expected
-  Sparse
-  Occasional
-  Localized
-  Common
-  Abundant



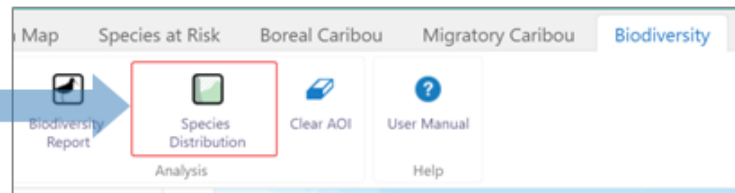
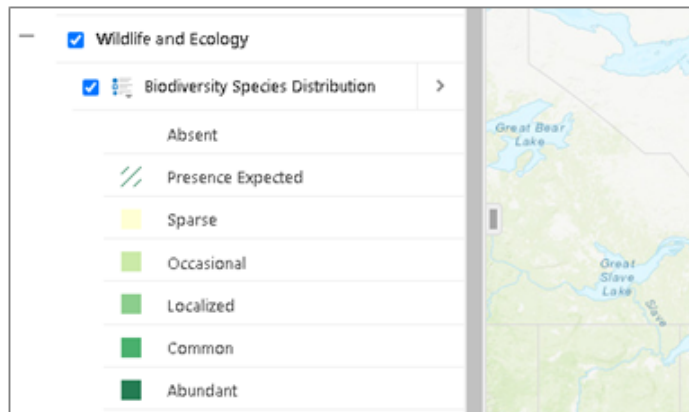
Biodiversity Species Distribution ×

-  **Customize labels**  
Toggle and customize the layer's labels.
-  **How to use this layer**
-  Amphibian and Reptile Biodiversity Metadata
-  Bird Biodiversity Metadata



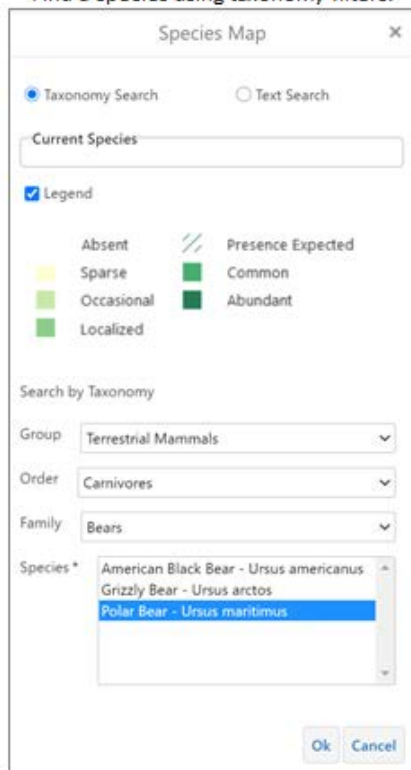
## How to use the Biodiversity Species Distribution Layer:

Use the Species Distribution tool found on the Biodiversity Toolbar to display one species at a time. This layer displays the expected distribution of each species and has a dialog to select the species of interest to display.



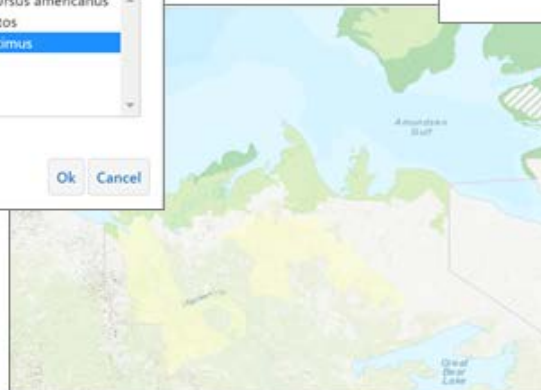
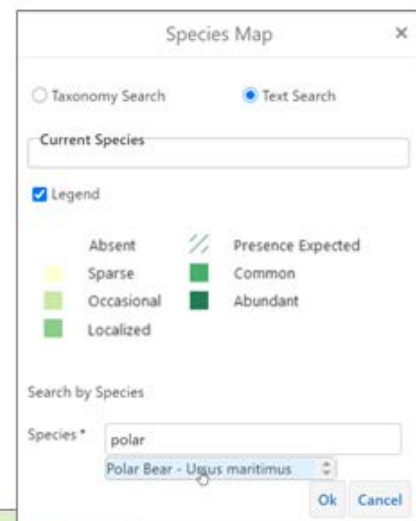
Find a species using a guided taxonomic search or search by text entry. Both options are illustrated below. Click the 'Ok' button to display the species distribution on the map.

Find a species using taxonomy filters.



OR

Find a species by text search.





## 5.0 GLOBAL SEARCH


*Global Search* is a simple way to zoom to a known feature or geographical region, such as the city of Yellowknife used in the example below. Place names (communities, geographic features, lakes, and rivers) and NTS Mapsheets (1:50,000 and 1:250,000) are a few of the map layers that are searchable using the Global Search Tool.

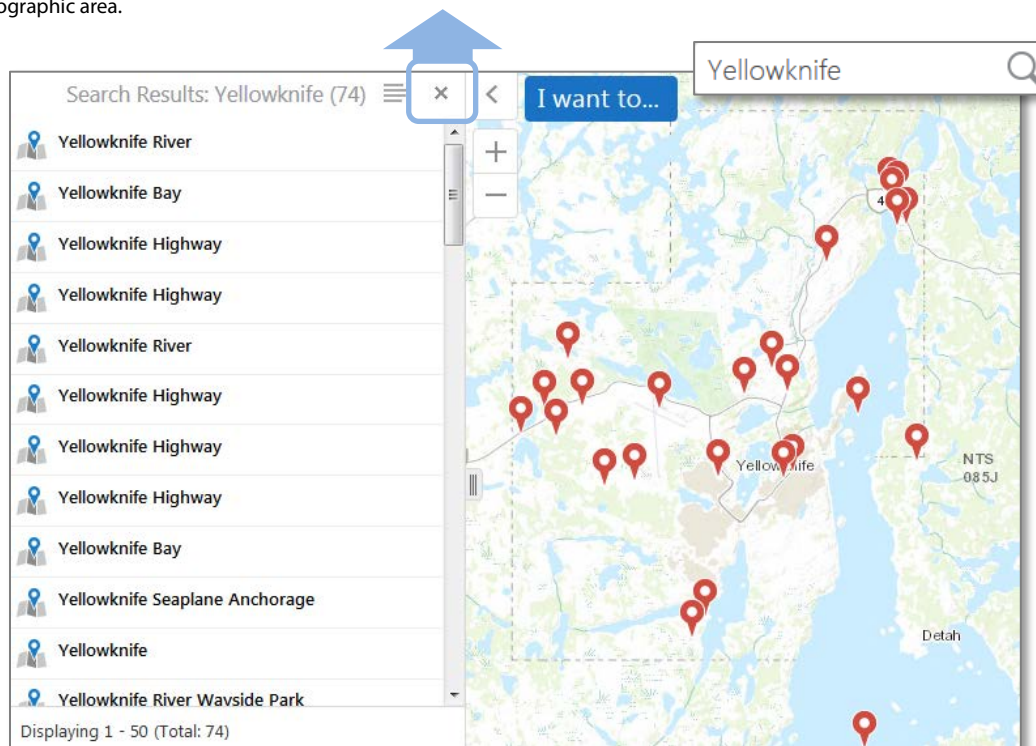
The Global Search tool is located in the top right corner of the Map Viewer, within the NWT Species and Habitat Viewer banner.



Enter the search term in the Global Search box. Notice the relevant results that populate in a new tab to the left of the map window.

Click any result to zoom into the area of the selected feature or geographic area.

Press the **X** to close the search results window. 



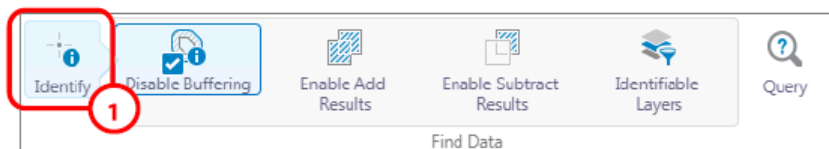


## 6.0 DOWNLOAD DATA

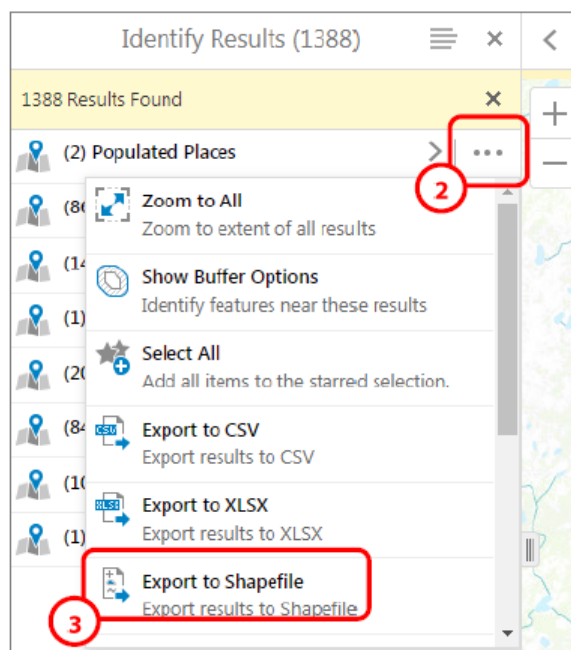
The data on this website is managed by the NWT Centre for Geomatics and is updated periodically to display current information as much as possible. If you have access to GIS software and wish to further analyse these datasets, or generate your own maps, you can download spatial data from the website.

To download a static copy of any particular map layer, follow these steps:

**How to Download Data:** The *Identify* tool is located on the *Home* toolbar. Use the *Identify* tool to select an area of interest that will be used for data download. More specifically, the *identify* tool can be used to select one point or drag a rectangular window on the map. Optionally, you may also choose to use the *Enable Buffering* tool to select all features with a certain distance of a specific location.



Once the area of interest is identified, the layers and number of features are displayed to the left of the map window. Press the ... icon for more options and select Export to Shapefile (or perhaps one of the tabular data format options). Each layer of interest can be exported individually.



Note: If you are using GIS software, it may be feasible to connect directly to the managed map services and spatial datasets contained on this website. To browse available datasets, please visit: <https://www.geomatics.gov.nt.ca/en>



## **7.0 WEBSITE CITATION**

Information and maps derived from the NWT Species and Habitat Viewer should be cited as:

NWT Species and Habitat Viewer. [Date Accessed]. Environment and Climate Change,  
Government of the Northwest Territories, Yellowknife, NT.  
[https://www.maps.geomatics.gov.nt.ca/Html5Viewer\\_PROD/Index.html?viewer=NWT\\_SHV](https://www.maps.geomatics.gov.nt.ca/Html5Viewer_PROD/Index.html?viewer=NWT_SHV)

Noting the date that this information has been extracted from the website is important since many datasets are updated periodically.



## 8.0 CONTACT INFORMATION

For more information related to the NWT Species and Habitat Map Viewer contact:

**NWT Centre for Geomatics**

Information Systems Shared Services,  
Finance

**[www.geomatics.gov.nt.ca](http://www.geomatics.gov.nt.ca)**

**NWT Wildlife Management Division**

Department of Environment and Climate Change  
5102-50<sup>th</sup> Avenue  
Yellowknife, NT X1A 3S8

**[www.ecc.gov.nt.ca/en](http://www.ecc.gov.nt.ca/en)**

The map viewer has been developed with the assistance of Caslys Consulting Ltd.

**Caslys Consulting Ltd.**

Unit 10 – 6782 Veyaness Road  
Saanichton, B.C., V8M 2A1

Contact: Justin McPherson

Tel: (250) 652-9268

Email: [jmcpherson@caslys.ca](mailto:jmcpherson@caslys.ca)



Community and Society

- Populated Places
- ECC / ITI Admin Boundary
- Final Land Claims
- Land Withdrawal Areas
- Subsurface
- Surface
- Surface / Subsurface
- Regulated Areas
- Aboriginal Owned Lands
- Surface
- Surface / Subsurface
- Federally Managed Lands
- Subsurface
- Surface
- Surface / Subsurface
- Parks and Protected Areas
- Conservation / Protected Areas
- Subsurface
- Surface
- Surface / Subsurface
- NWT Protected / Conservation Areas
- Terrestrial Protected Areas
- Marine Protected Areas
- Federal / Territorial Conservation Areas
- Proposed Protected / Conservation Areas
- Conservation zoning in a draft land use plan
- Conservation zoning (approved)
- Sahtu / Gwich'in / Tlicho land use plans
- Established Territorial Park
- Nagwichoonjik National Historic Site
- Mackenzie Bison Sanctuary
- Transportation and Utilities
- Highway / Major Road
- Road
- Winter / Ice Road
- Railway
- Runway / Airstrip
- Transmission / Fibre Optic Line
- Northwestel Facility
- NT Power Facility

Species and Habitat Viewer:

MAP LEGEND

v3.0

Fire

Fire History

- 2011 - 2019
- 2001 - 2010
- 1992 - 2000
- 1984 - 1991
- 1976 - 1983
- 1965 - 1975

Industry

Mining

Active Mineral Tenure

Active Mineral Claims

- Active
- Pending
- Cancelled (Pending Ground Opening)

Active Mineral Leases

- Active
- Pending
- Cancelled (Pending Ground Opening)

Active Prospecting Permits

- Active
- Cancelled (Pending Ground Opening)

Active Coal Exploration License

- Active
- Pending

Inactive Mineral Tenure

Inactive Mineral Claims

Inactive Mineral Leases

Inactive Prospecting Permits

Inactive Coal Exploration License

Mining (NRCan)

Mines

- Past Producer
- Producer
- Mining (Advanced Exploration)

Oil and Gas Rights

CIRNAC Oil and Gas Rights

- Exploration Licence
- Pioneer Production Lease
- Significant Discovery Licence

ITI NWT Oil and Gas Rights

- Pioneer Production Lease
- Production Licence
- Significant Discovery Licence

NWT Pipelines

- Gas
- Liquid

NEB Wells & OROGO Wells

- Producer
- Abandoned
- Suspended
- Injector
- Other

Active Water License

Expired Water License

INAC CARD Contaminated Sites

Cutlines

Reference Grids

1:50,000 NTS Grid

1:250,000 NTS Grid

Base Maps

- World Topographic Map
- World Imagery

Biodiversity

Biodiversity Species Distribution

- Absent
- Presence Expected
- Sparse
- Occasional
- Localized
- Common
- Abundant



# Species At Risk

## ☒ Mammals

### Barren-ground Caribou

 Annual Range

 Calving Area

 Boreal Caribou

 Bowhead Whale

 Collared Pika

 Dolphin and Union Caribou

 Grey Whale

### Grizzly Bear

 Range

 Areas of increased presence


### Little Brown Myotis


 Area containing critical habitat

 Range

### Northern Mountain Caribou


 Range


 Trace occurrences

 Northern Myotis

### Peary Caribou

 Range

 Area containing critical habitat

 Polar Bear

 Ringed Seal

### Wolverine

 Range

 Areas of increased presence

### Wood Bison


 Disease-free

 Diseased

 Captive

### Bank Swallow

 Range

 Area containing critical habitat

 Barn Swallow

 Buff-breasted Sandpiper

 Canada Warbler

 Common Nighthawk

## Eskimo Curlew

 Evening Grosbeak

 Harris Sparrow


 Horned Grebe

 Hudsonian Godwit

### Ivory Gull

 Colonies

 Historical colonies


 Ivory Gull

 Lesser Yellowlegs

 Olive-sided Flycatcher


 Peregrine Falcon


### Red Knot

 islandica subspecies range

 rufa subspecies range

 Red-necked Phalarope

 Rusty Blackbird

 Short-eared Owl

### Whooping Crane

 Range

 Critical habitat


 Yellow Rail

## ☒ Fishes

 Bull Trout

 Dolly Varden

 Northern Wolffish

 Shortjaw Cisco

## ☒ Amphibians


### Northern Leopard Frog

 Recent range


 Historical range

 Western Toad


## ☒ Insects

 Gypsy Cuckoo Bumble Bee

 McKay's Bumble Bee

 Suckley's Cuckoo Bumble Bee


 Transverse Lady Beetle


 Yellow-banded Bumble Bee


## ☒ Plants

### Hairy Braya

 Known range

 Possible range


 Area containing critical habitat

 Nahanni Aster

### Other Rare Plants

 Drummond Bluebell - sites

 Banks Island Alkali Grass - sites

 Raup's Willow - sites

 Mackenzie Hairgrass - possible site



# Caribou

## ☒ Barren-ground Caribou

### ☒ Barren-ground Caribou Range


#### ☐ Ahiak Herd

 Calving Area

 Annual Range

#### ☐ Bathurst Herd

 Calving Area

 Annual Range


#### ☐ Beverly Herd

 Calving Areas

 Annual Range


#### ☐ Bluenose-East Herd

 Calving Area

 Annual Range

#### ☐ Bluenose-West Herd

 Calving Area

 Annual Range

#### ☐ Cape Bathurst Herd

 Calving Area

 Annual Range


#### ☐ Porcupine Herd

 Calving Area

 Annual Range


#### ☐ Qamanirjuaq Herd

 Calving Area

 Annual Range

#### ☐ Tuktoyaktuk Peninsula Herd


 Calving Area

 Annual Range

## ☒ Barren-ground Caribou Core Seasonal Ranges

### ☐ Ahiak Herd Colour variations for each other herd as shown for Ahiak Herd

 Calving Core Seasonal Range

 Summer Core

 Late Summer

 Fall Migration (Pre-Breeding)

 Rut


 Fall Migration (Post-Breeding)

 Winter Core

 Spring Migration

## ☒ Bathurst Caribou Range Plan

☐  Range Planning Area

☐  Range Assessment Areas

☐  Centre of Habitation

☐  Water Crossings

## ☒ Landscape Disturbance


☐  Direct Disturbance Footprint

☐  Total Human Disturbance

## ☒ Boreal Caribou

### ☒ Boreal Caribou Range Planning

☐  NT1 Boreal Caribou Range (GNWT 2016 version)


☐  Boreal Caribou Range Planning Regions

☐  Other Canada Boreal Caribou Range Boundaries

### ☒ Range Plans

☐  Wek'èezhii Interim Boreal Caribou Range Plan

#### Management Class Areas


 Basic

 Enhanced

 Intensive

### ☒ Boreal Caribou Habitat Selection Model


☐  All year  Calving  Summer ...

 1 - most avoided

 2

 3

 4

 5 - neutral

 6

 7


 8

 9

 10 - most selected


## ☒ Landscape Disturbance

☐  Latest Total Disturbance (Human + Fire)

☐  Fire History (NBAC/CNFDB) - NT1 Range


 1950 - 1979

 1980 - 1989

 1990 - 1999

 2000 - 2009

 2010 - 2019

☐  Forty-year Fire Footprint

☐  Buffered Human Disturbance 2010 (EC)


☐  Buffered Human Disturbance 2015 (ECCC)

## ☒ Unbuffered Human Disturbance 2010 (EC)

☐  Linear Human Disturbance 2010

☐  Polygonal Human Disturbance 2010

## ☒ Unbuffered Human Disturbance 2015 (ECCC)


☐  Linear Human Disturbance 2015

☐  Polygonal Human Disturbance 2015

## ☒ Dolphin and Union Caribou

☐  Dolphin & Union Caribou Range


## ☒ Northern Mountain Caribou

☐  Northern Mountain Caribou Range

 Range

 Trace occurrences
















## ☒ Peary Caribou

☐  Peary Caribou Range



## Important Wildlife Areas

### ☒ Important Wildlife Areas (IWA) in the Western NWT

- ☐  Barren-ground Caribou IWA
- ☐  Beaver IWA
- ☐  Dall Sheep IWA
- ☐  Grizzly Bear IWA
- ☐  Lynx IWA
- ☐  Marten IWA
- ☐  Moose IWA
- ☐  Mountain Goat IWA
- ☐  Mountain Woodland Caribou IWA
- ☐  Muskox IWA
- ☐  Muskrat IWA
- ☐  Peary and Dolphin Union Caribou IWA
- ☐  Polar Bear IWA
- ☐  Western Toad IWA
- ☐  Wood Bison IWA

### ☐ Mineral Lick Density

- ☐  1
- ☐  2
- ☐  3
- ☐  4








### ☐ Unique Areas

### ☐ Watersheds (sub-basins)

### ☐ Treeline (CAVM)

## Ecological Regions

### Level II EcoRegions

- ☐  Taiga Plains
- ☐  Taiga Shield
- ☐  Boreal Cordillera
- ☐  Taiga Cordillera
- ☐  Tundra Cordillera
- ☐  Southern Arctic
- ☐  Northern Arctic

### Level III EcoRegions

- ☐  High Arctic oceanic
- ☐  High Arctic
- ☐  Mid-Arctic
- ☐  Low Arctic north
- ☐  Low Arctic south
- ☐  High Subarctic
- ☐  Low Subarctic
- ☐  High Boreal
- ☐  Mid-Boreal

### Level IV EcoRegions

- ☐  Boreal Cordillera, High Boreal
- ☐  Boreal Cordillera, Mid-Boreal
- ☐  Taiga Cordillera, High Subarctic
- ☐  Taiga Cordillera, Low Subarctic
- ☐  Tundra Cordillera, High Subarctic
- ☐  Taiga Plains, High Boreal
- ☐  Taiga Plains, High Subarctic
- ☐  Taiga Plains, Low Subarctic
- ☐  Taiga Plains, Mid-Boreal
- ☐  Taiga Shield, High Boreal
- ☐  Taiga Shield, High Subarctic
- ☐  Taiga Shield, Low Subarctic
- ☐  Taiga Shield, Mid-Boreal
- ☐  Southern Arctic: Tundra Plains, Low Arctic south
- ☐  Southern Arctic: Tundra Plains, Low Arctic north
- ☐  Northern Arctic, Low Arctic north
- ☐  Northern Arctic, Mid-Arctic
- ☐  Northern Arctic, High Arctic
- ☐  Northern Arctic, High Arctic oceanic