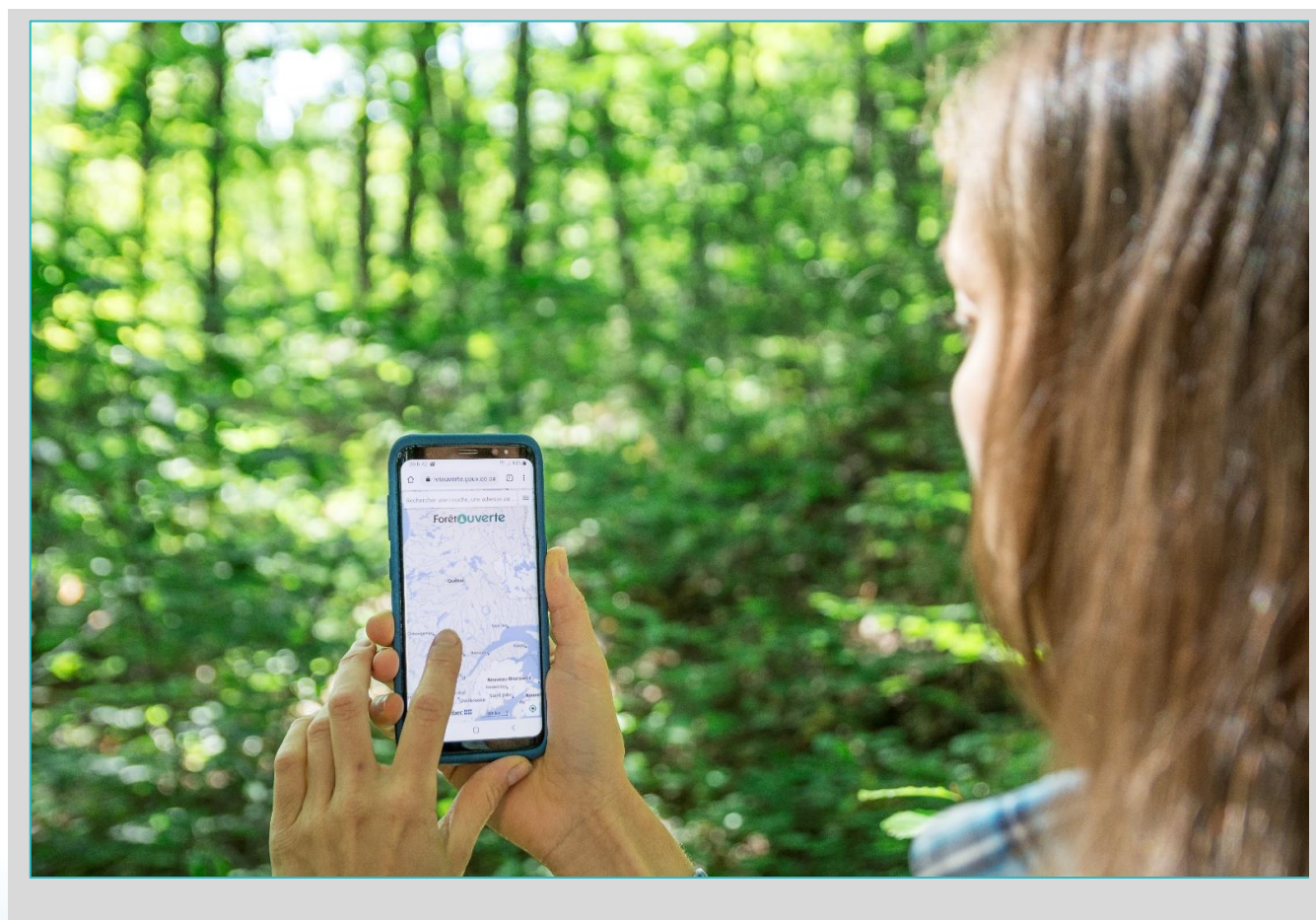


Forêtouverte User Guide

March 2026

MINISTÈRE DES RESSOURCES NATURELLES ET DES FORÊTS



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Introduction

In 2017, the Ministry committed to providing free and up-to-date data to its external clients. This open data initiative is part of Québec's commitment to be an open government, with the objective of promoting transparency and accessibility to data. The interactive Web map of ecoforest data of the Direction des inventaires forestiers (DIF) facilitates access to free data and makes it possible to explore this data without having to use specialized geomatics software.

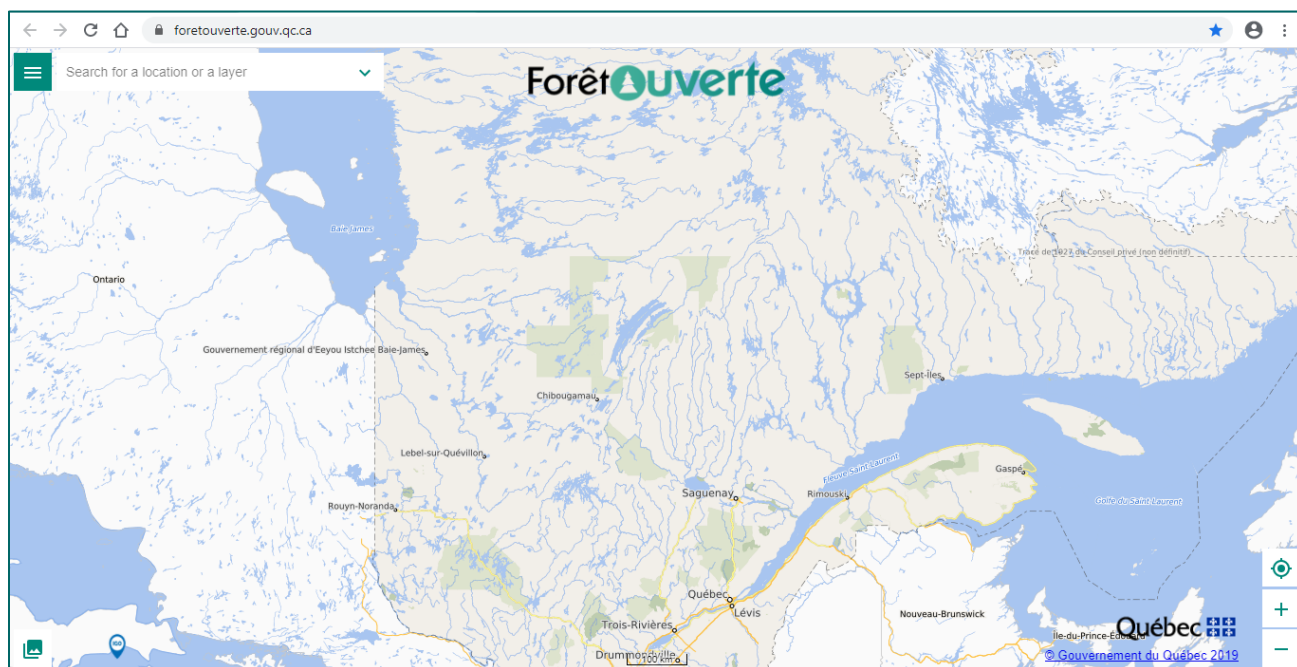
In April 2019, the interactive Web map of ecoforest data produced by the DIF became *Forêt ouverte*. This new name better represents the interactive map's content.

In April 2020, the Web map service of the "Subdivisions territoriales forestières (STF)" was added to *Forêt ouverte* following a partnership with the Direction de la gestion intégrée de l'information et des orientations (DGIO). In July 2021, wildlife data were added to *Forêt ouverte* following a distribution agreement with the fauna sector of the MFFP.

Forêt ouverte is supported by version 2.0 of the [Open GIS infrastructure](#) (IGO2), an open geomatics Web solution which respects open geomatics international standards. IGO2 was recognized as the first open Web solution of Québec's public administration. Based on collaborative development, IGO2 is constantly improved for the benefit of its users. A new version already exists as of December 2019, allowing for an improved visual experience, and new functions have been added regularly.

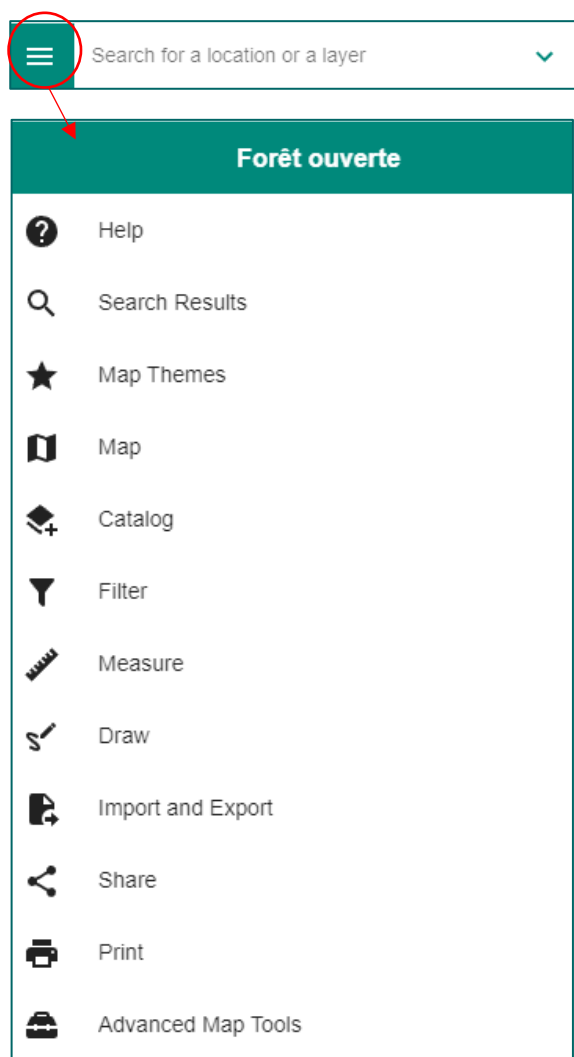
To access *Forêt ouverte*: <https://www.foretouverte.gouv.qc.ca>

Click on the image below to watch a short [tutorial](#), which will help you understand the basics of the interactive map and greatly improve your first use of *Forêt ouverte*.



Main Menu Features

Click on the Main Menu icon in the upper left corner of the interactive map to access all menu features.



? Help

A brief description of all the features of the interactive map is found in the “Help” section, as well as a list of the different resources available to facilitate the use of *Forêt ouverte*.

For example, you will find:

- 1) A section with the most useful links for new users, notably the interactive tour, several [tutorials](#) and the [user guide](#);
- 2) A section with the [email address](#) to contact the *Forêt ouverte* team for any questions, comments or technical issues, a link to a [survey](#) to help us improve *Forêt ouverte*, as well as the link to [subscribe to the newsletter](#);
- 3) A section on how to download data, including a [tutorial](#) and a [guide](#);
- 4) A section on web map services (WMS) and a list of web map services URLs available in *Forêt ouverte*, as well as including a [tutorial](#) and [guide](#) on how to use these services.

First use:

1

- Interactive tour: click on the [Discover Forêt ouverte](#) button above
- [Features overview](#)
- [Tutorial: First use](#)
- [Tutorial: Map display options](#) (French only)
- [Tutorial: Search options](#) (French only)
- [User's guide](#)

Informations, comments or technical issues:

2

Contact us:

foret.ouverte@mrmf.gouv.qc.ca

Survey:

[Help us to improve Forêt ouverte](#) (French only)

Stay tuned:

[Newsletter subscription](#) (French only)

Data download:

3

- [Tutorial: Data download](#) (French only)
- [Download guide](#) (French only)

Choose the “Téléchargement” Map theme. Display the download layer of the desired product by clicking on the eye (it should be green). Click directly on the map to display the available products for a given territory (map sheet or other). Click on the “ACCÉDER” button to launch the download.

To download several files at once, use an FTP client (FileZilla, Cyberduck, etc.) to access the following server (copy the URL):

<https://transfert.mffp.gouv.qc.ca/>

Web Map Services:

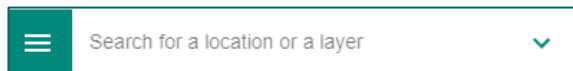
4

A web map service can be used to visualize and even query a map dataset in a geographic information system (GIS) without having to download the data.

- [Tutorial: Use a Web Map Service in QGIS and ArcMap](#) (French only)
- [Web Map Service Procedure](#) (French only)
- [Web Map Services URLs](#)

🔍 Search Results and Positioning

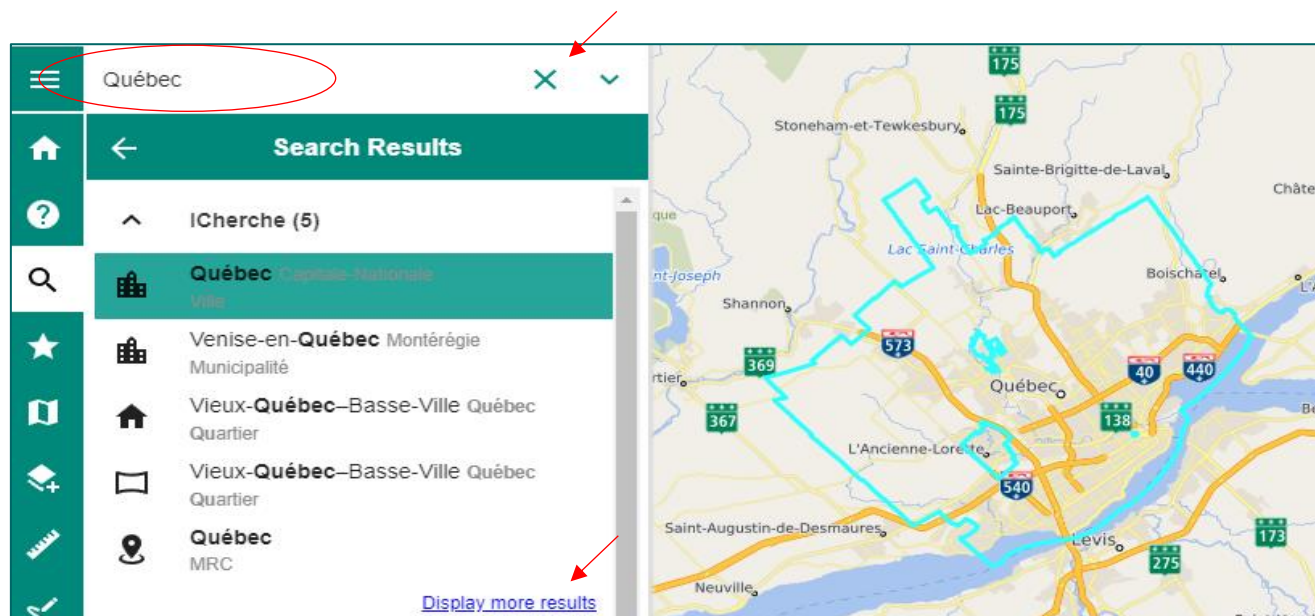
In the top left corner of the interface, the “Search” bar allows you to search for an address, a location, a lot number, GPS coordinates or a map sheet. This tool can also be used to search for a layer.



SEARCH FOR A LOCATION

First, type the location in the “Search” bar, for example, “Québec”. The search results are displayed underneath. Different icons are used to distinguish the type of search results (e.g., a city, a lake, a mountain), found via the “iCherche” search engine. Click on “Display more results” if you do not see what you are looking for.

To cancel a search, click on the x at the right of the search bar. This also removes the turquoise selection that appears when clicking on one of the “iCherche” search results.

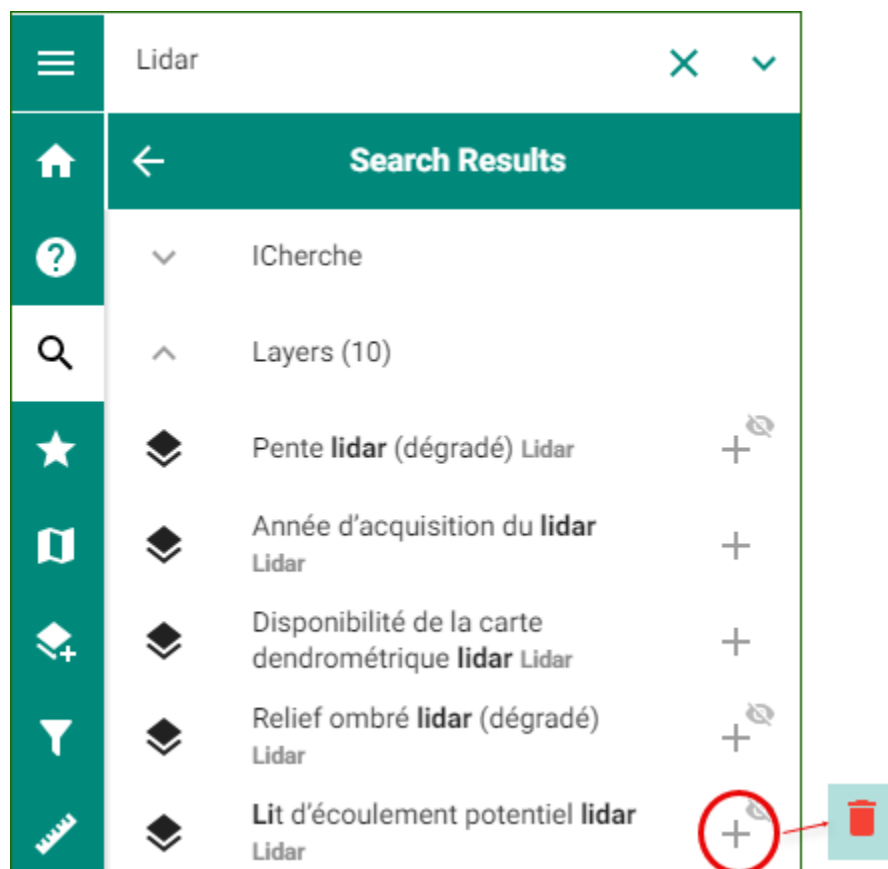


SEARCH FOR A LAYER

Type the name of a layer or a keyword in the “Search” bar, for example “Lidar”. The layer search results are displayed in the “Layers” section. You can mask a search result category, for example “iCherche”, by clicking on the arrow to the left of this category.

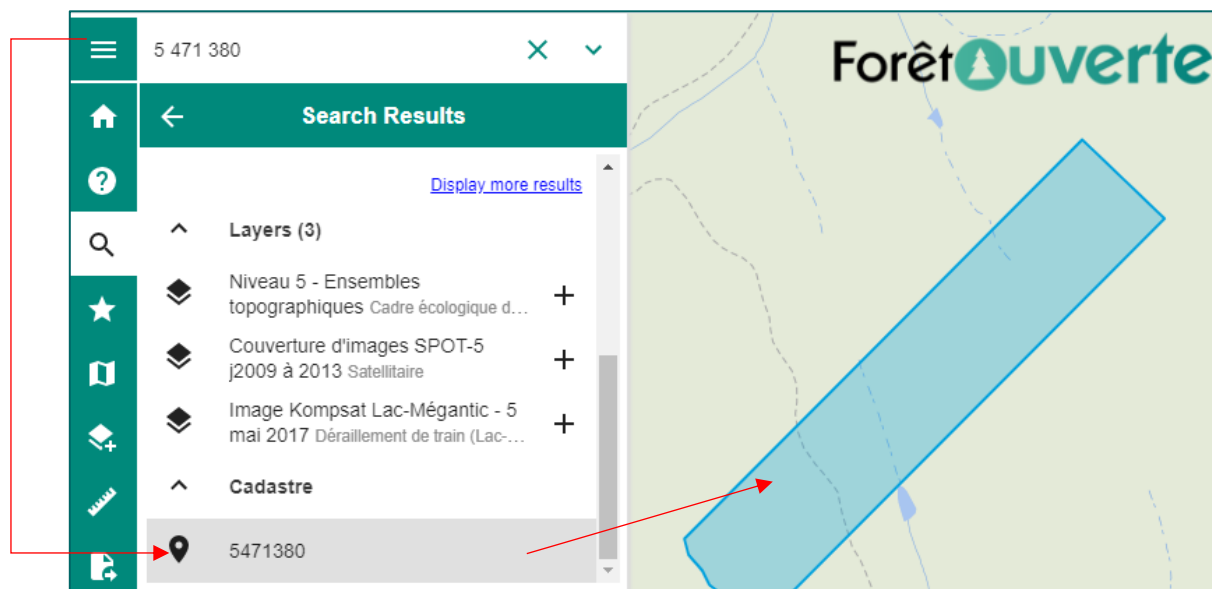
To add a layer from the search results, click the “+” beside the layer name. The icon changes into a red garbage bin to show that the layer has been added to “Map”.

A small grey eye above the red garbage bin indicates that the current display scale is too small to see the layer. Simply zoom in and the layer will appear when the eye becomes green. Click on the Map feature to see the display options or refer to the [Zoom and Layer Display Scales](#) section of this guide.



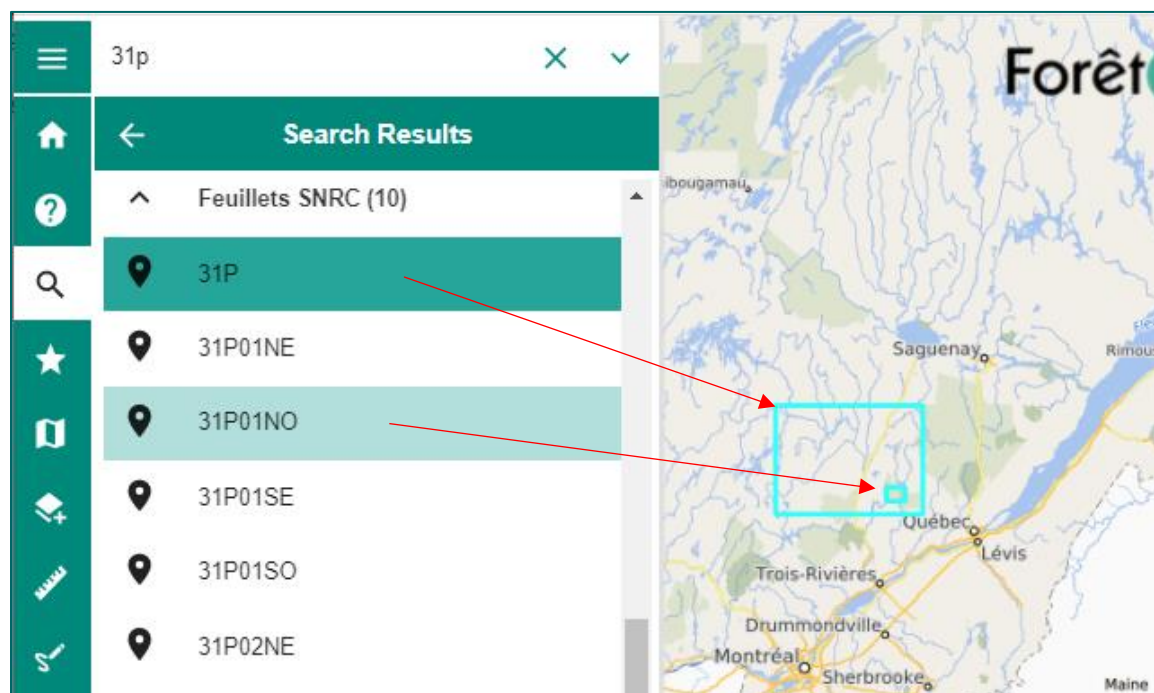
SEARCH BY LOT NUMBER

Type the lot number in the “Search” bar, for example “5 471 380”. Click on the result found under “Cadastre”.



FIND AN NTS MAP SHEET

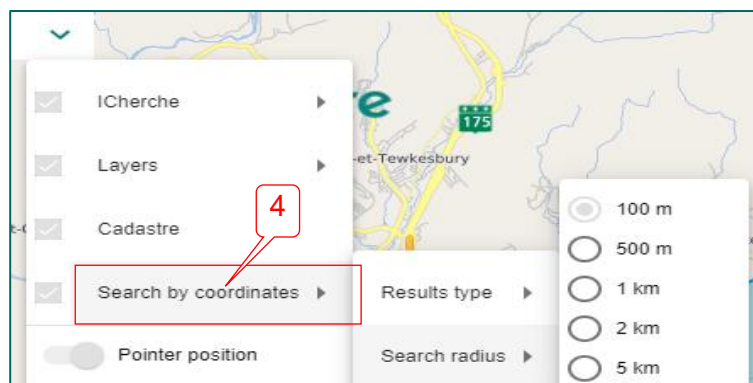
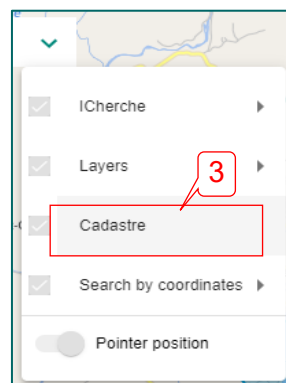
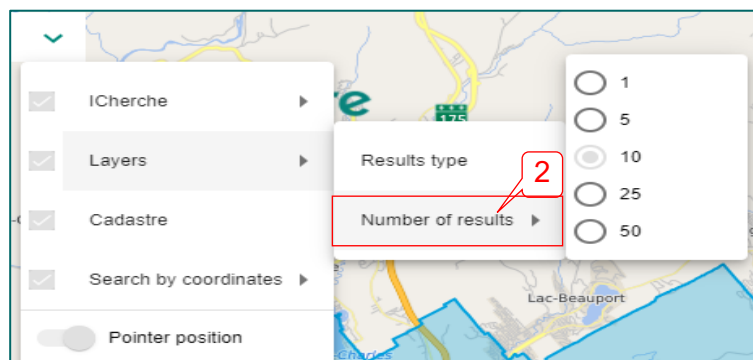
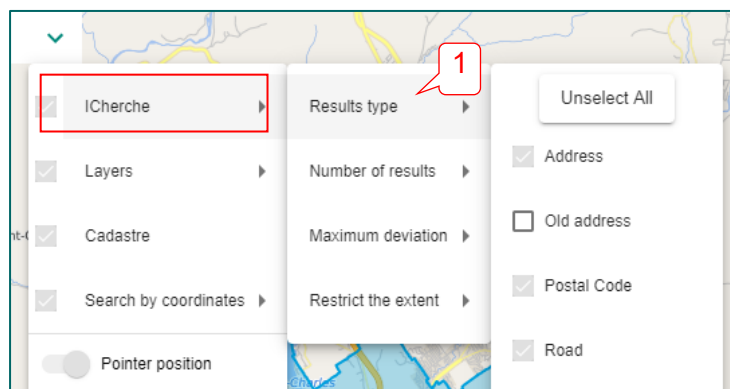
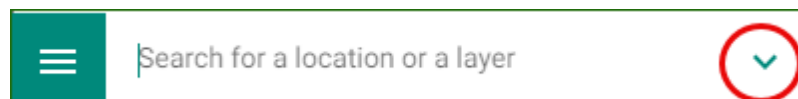
You can search for a specific 1:250,000 or 1:20,000 NTS map sheet.



PERSONALIZE SEARCH RESULTS

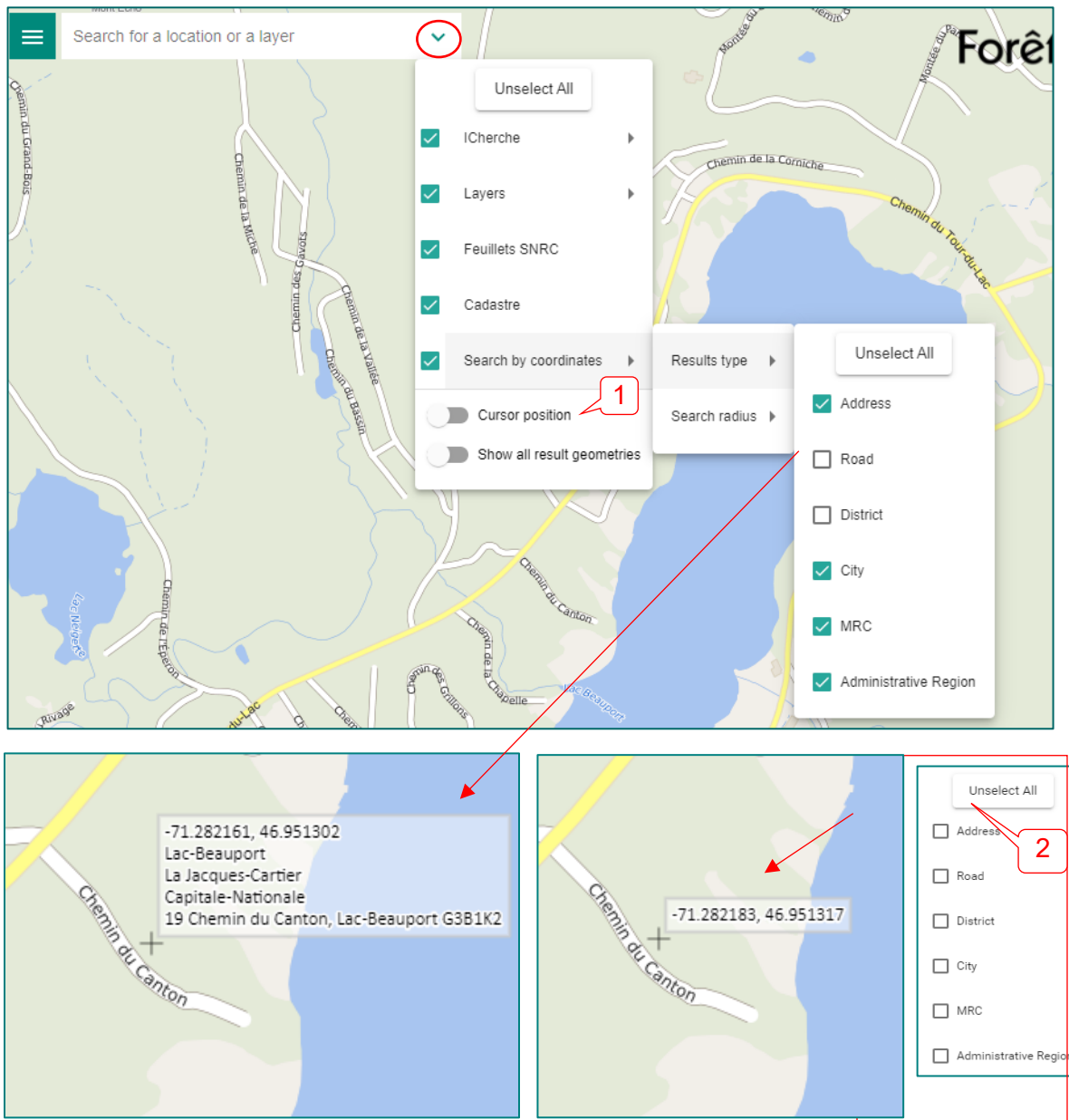
You can personalize your search results by clicking on the arrow to the right of the Search bar and selecting the desired type and quantity of results.

For example, you can: (1) select the type of results you want from the “iCherche” search engine; (2) select the number of results shown for the layers; (3) deselect the lot number (cadastre) or map sheet search option (not illustrated); (4) select the search radius for the search by coordinates.



CURSOR POSITION OPTION

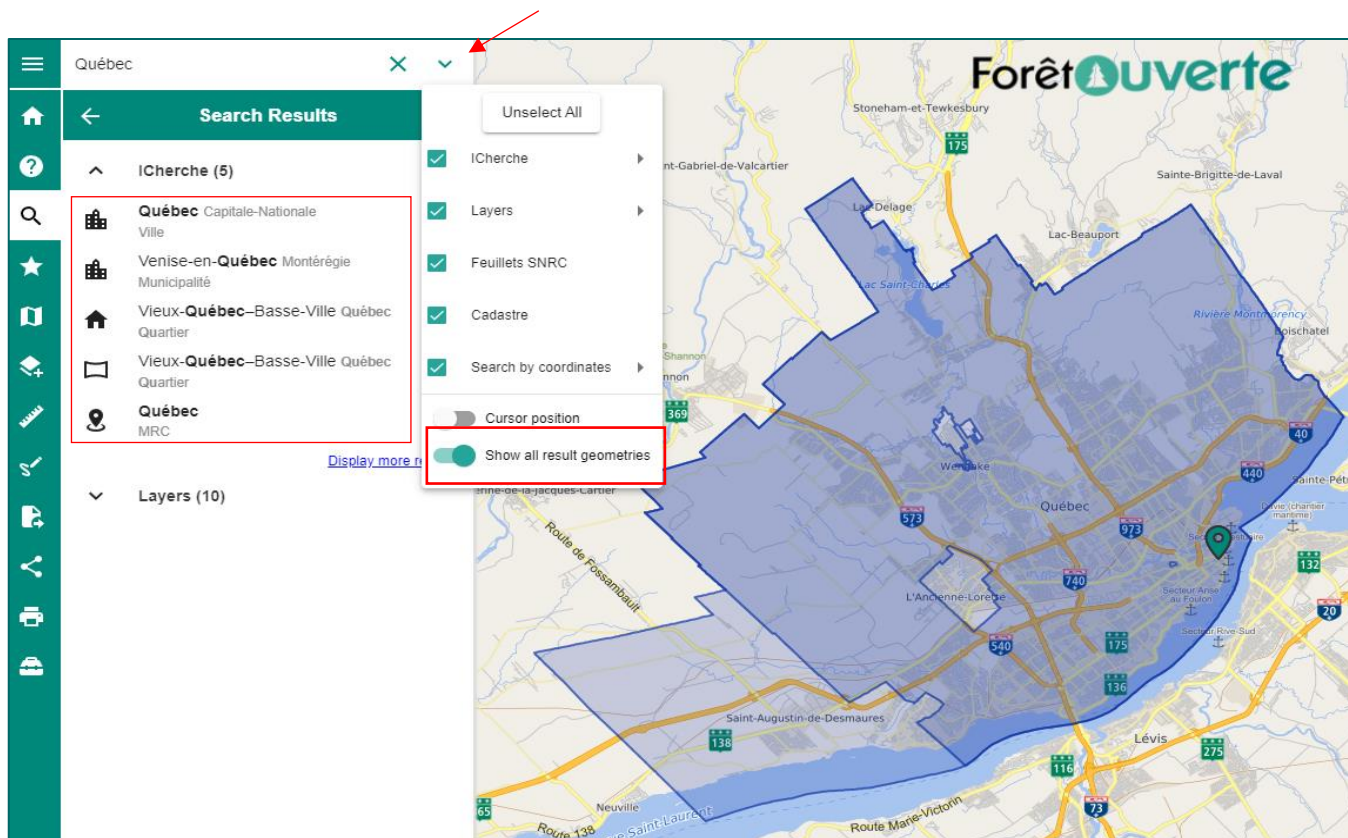
By clicking on the arrow to the right of the search box, you can also activate an option that displays the coordinates and information related to the selected search result types near the mouse pointer during a coordinate search. Simply slide the button for this option to the right to activate it.



Tip: Use the **F2** key to activate/deactivate the cursor position option.

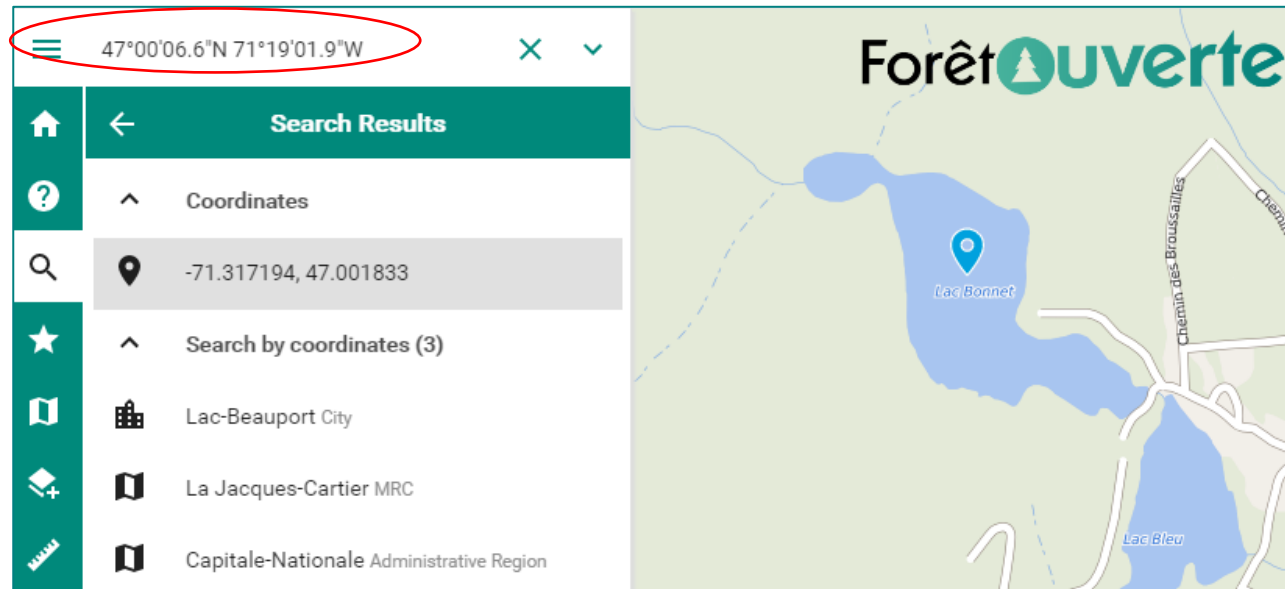
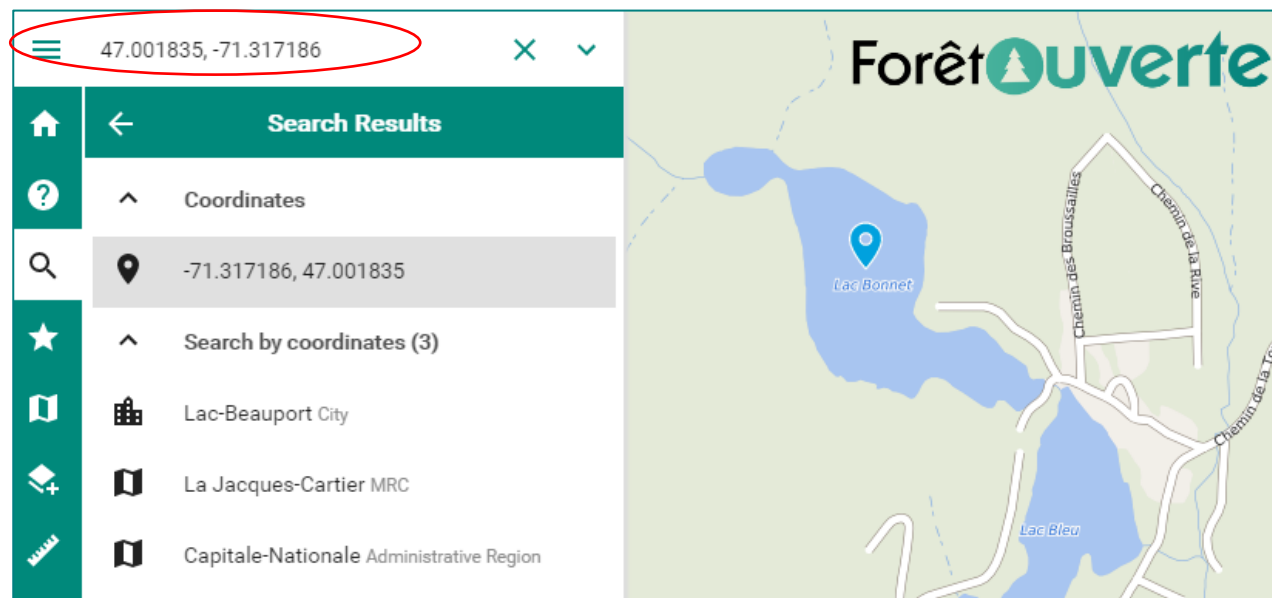
OPTION TO DISPLAY SEARCH RESULT GEOMETRIES

An option allows to display the geometries of all the search results of the “iCherche” search engine. This option is disabled by default. Simply click on the arrow to the right of the search bar to access the search options and slide the button to the right to activate it (“Show all result geometries”).



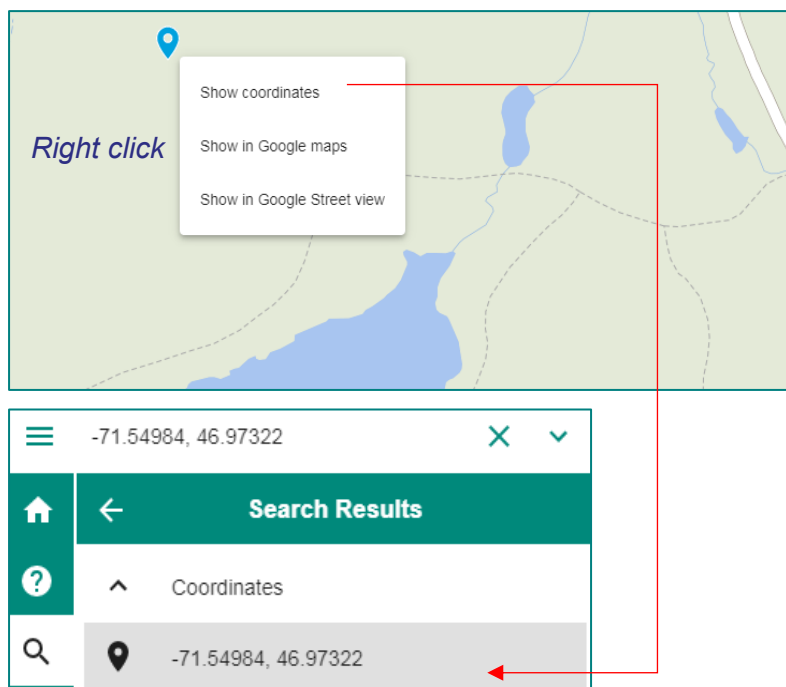
SEARCH BY COORDINATES

A search by GPS coordinates can be done using various formats, for example in a decimal degree format, in WGS84 projection format (EPSG: 4326) (e.g., 47.001835, -71.317186), or a degrees, minutes, seconds format (e.g., 47°00'06.6"N 71°19'01.9"W).



IDENTIFY THE COORDINATES OF A MAP POINT

In order to identify the coordinates of a desired point on the map, right-click on the desired point and select “Show coordinates”, which will appear in the search results window. The selected point can also be displayed in Google Maps or Google Street View. When using a mobile device, simply touch and hold the screen to access this option.



Tip: Copy the coordinates of a point for later use with the [Search by Coordinates](#) option. You can also save the display scale when sharing the map. Refer to the [Share](#) section to learn more.



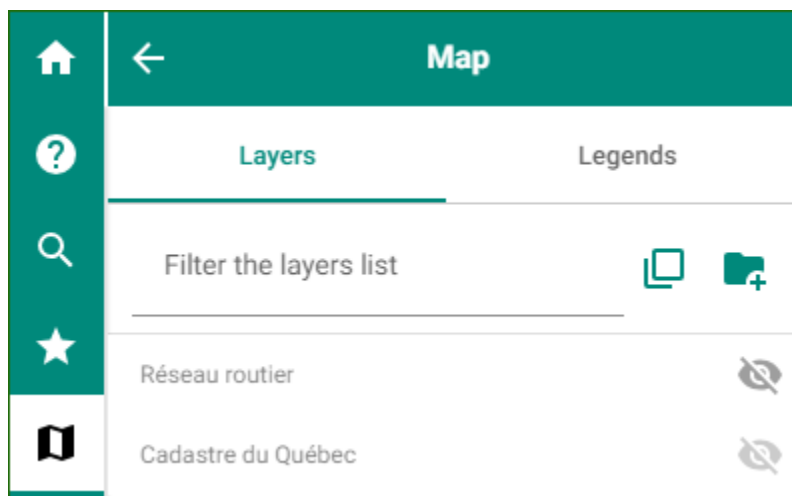
GEOLOCATION

You can find your current location using the geolocation tool found at the bottom right of the screen. This option allows you to center the map on your current location. Click a second time on the tool to deactivate the geolocation. See the [Geolocation Tool](#) section for more information.

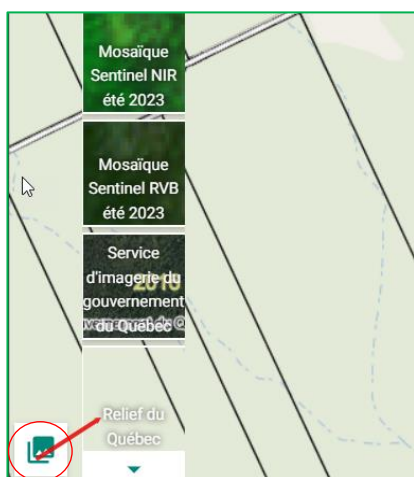


Map

The “Map” feature is the heart of *Forêt ouverte*. It allows you to add, delete or query layers as well as to download data. Layers can be added using “Catalog”, the “Search” bar, or by choosing a theme in the “Map themes” feature.

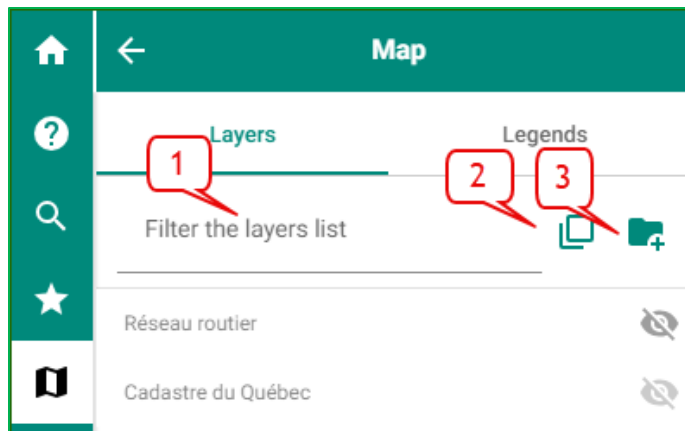


A shortcut at the bottom left of the screen allows you to quickly switch between the basemaps available in the selected map theme.



OPTIONS FOR MULTIPLE LAYERS

1. Search for layers within the “Map”.
2. Activate the multiple selection mode.
The multiple selection mode can be used to apply layer options to multiple layers at once: change the order, modify the visibility of layers, or delete multiple layers.
3. Create a layer group.



LAYER OPTIONS

1. Layer name.
2. Display or hide the legend by clicking on the name of the layer. The legend appears by default when the layer is visible (green eye).
3. Display or hide the layer. The layer is visible when the eye is green.
4. Additional options for the layer

When you click on "...", a new window appears below the list of layers in "Map", showing the options available for this layer.

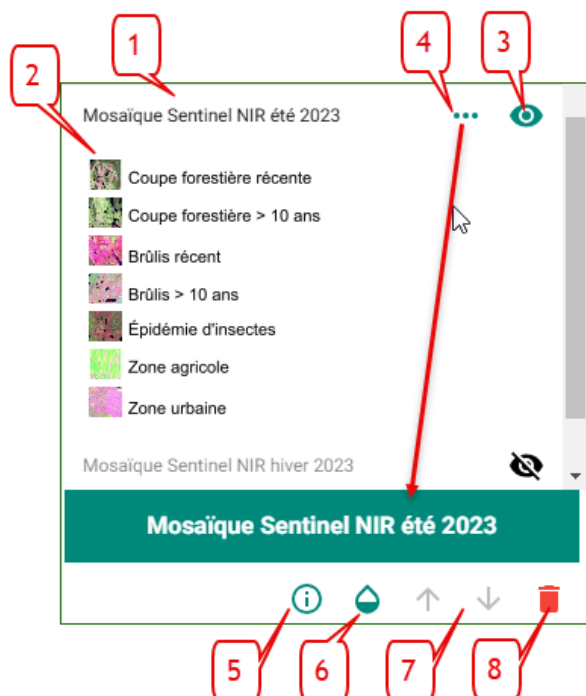
5. Consult the Données Québec data factsheet.
6. Change the transparency of the layer.
7. Change the order of the layers.

Note 1: you cannot move layers defined as a basemap layer.

Note 2: the drag-and-drop function is available. This feature allows you to select a layer and move it to another location in the list using your mouse.

8. Remove the layer from the "Map".

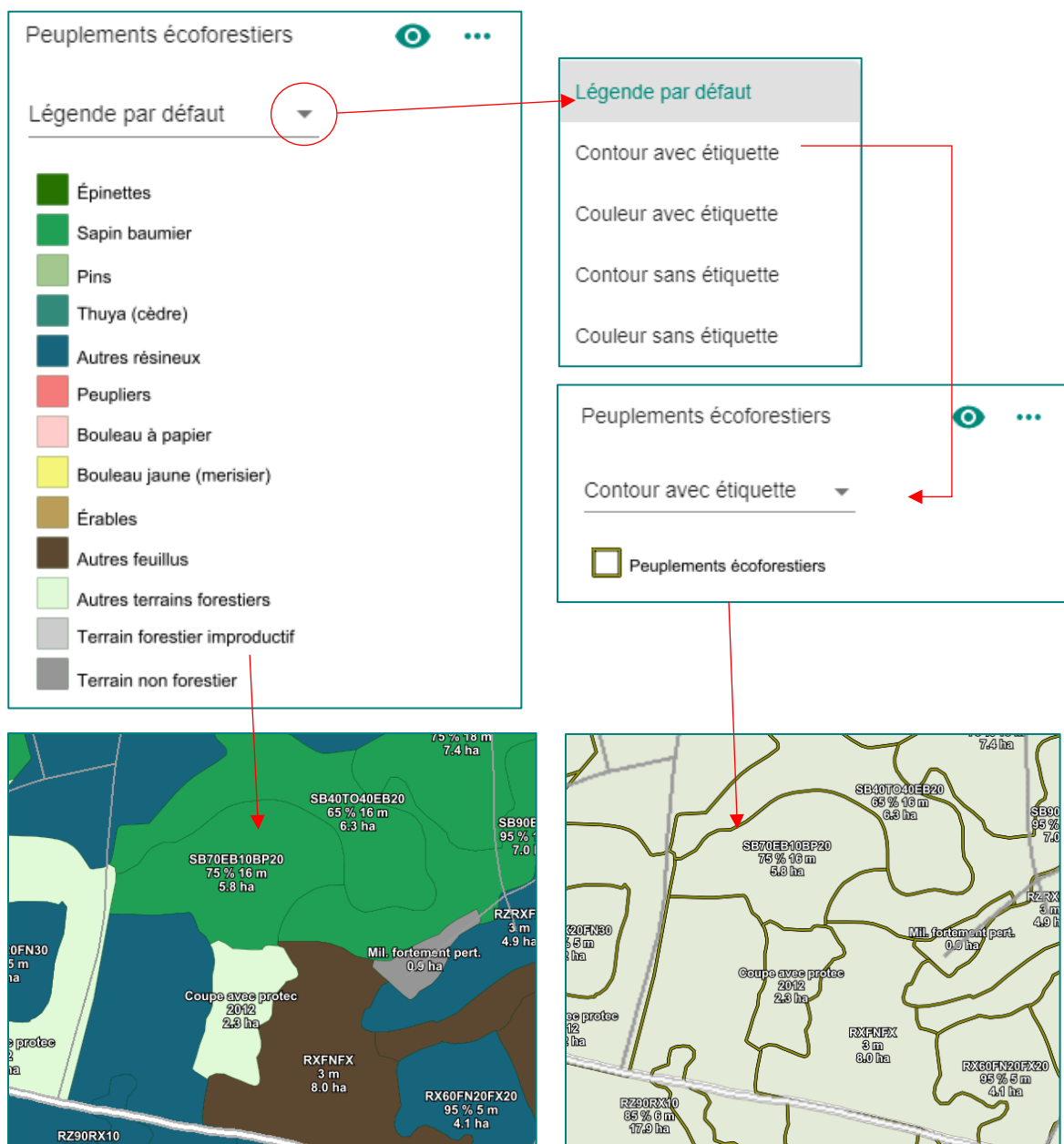
Note: you cannot remove layers defined as basemap layer.



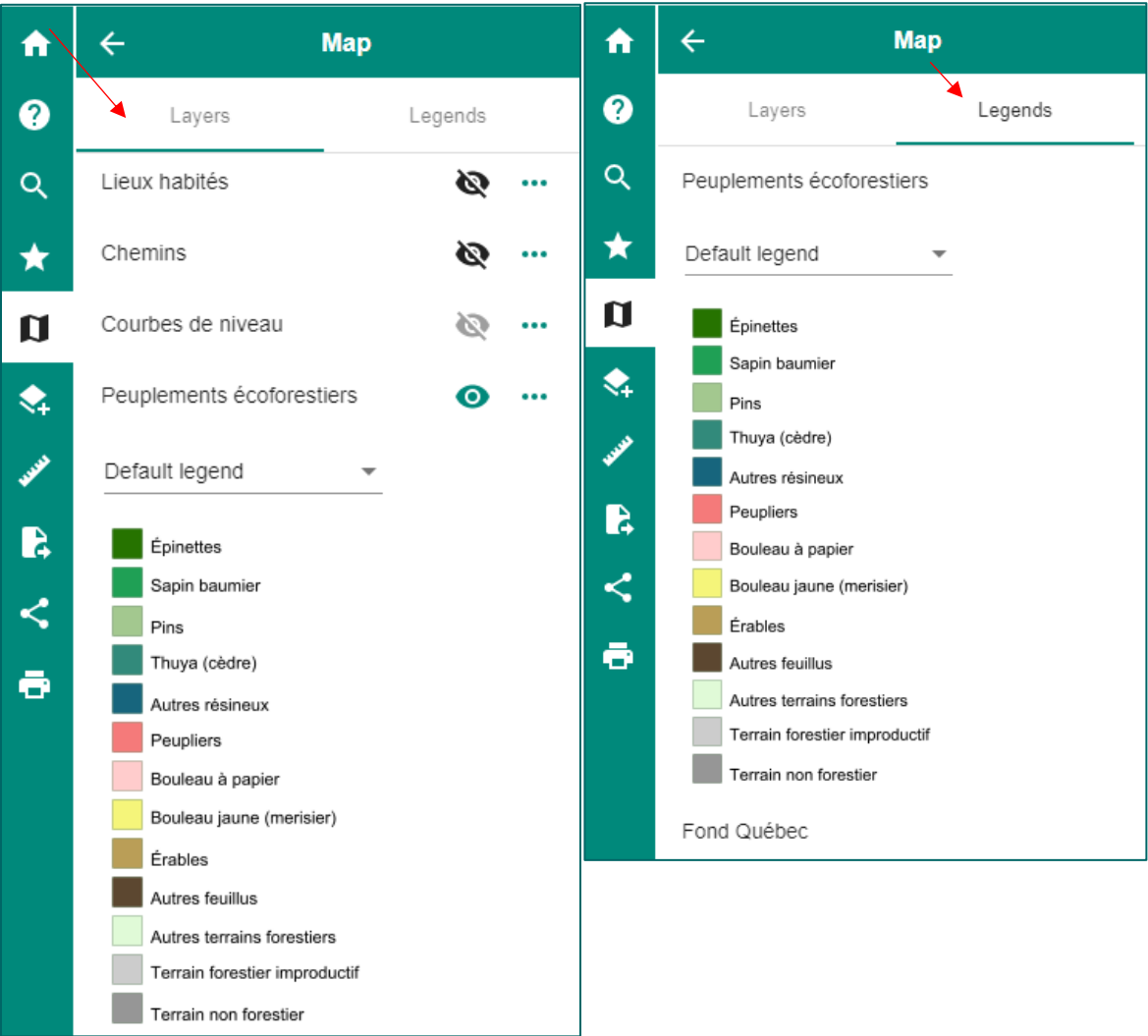
LEGEND OPTIONS

By default, the legend appears when the layer is active (green eye). Click on the name of the layer to display its legend if it is hidden. Click on the name of the layer once again to hide the legend if needed.

Certain layers have several legend options. You can choose the legend option that best suits your needs. Click on the arrow to the right of the legend to access the drop-down menu with the layer's available legend options.



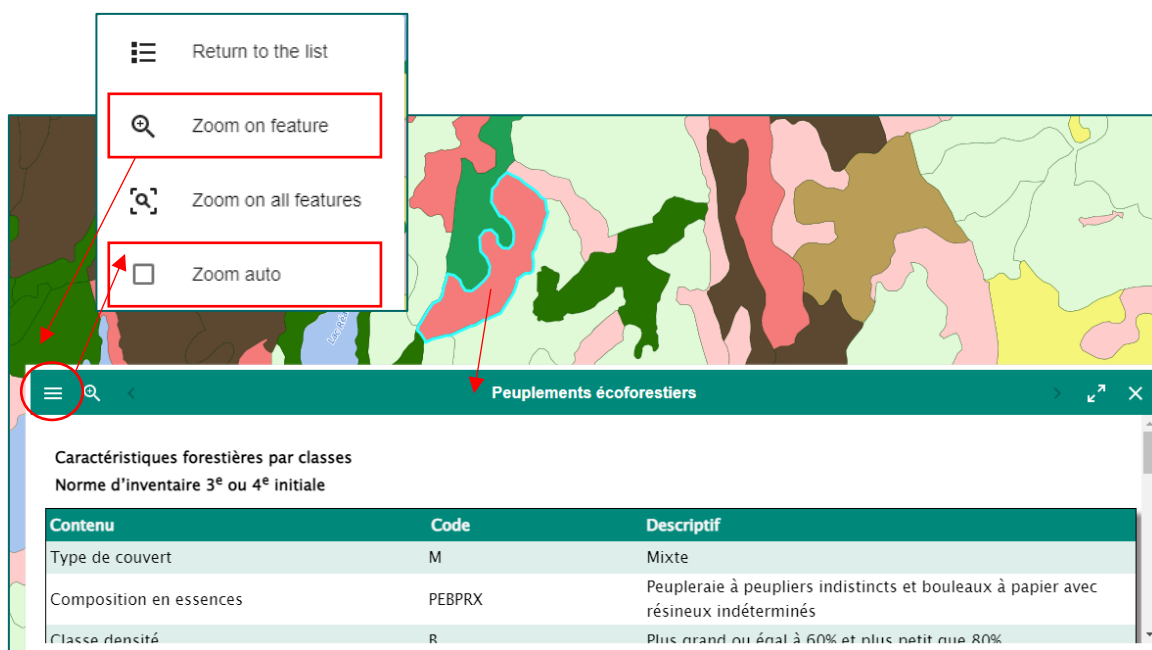
You can choose between the “Layers” and “Legends” tabs above the list of layers in the “Map” feature. The “Layers” tab is where you can see all layer options, whereas the “Legends” tab shows only the legends of active layers (green eye).



QUERY A LAYER: DESCRIPTIVE WINDOW OF A LAYER'S FEATURES

When viewing a layer, you can obtain additional information on a layer's features if this information is available. Simply click on the desired feature of a layer to open its descriptive window. For example, if you are viewing the "Peuplements écoforestiers" layer and you click on a forest stand, a new window will appear presenting a detailed description of that stand.

The  icon at the top left of the window allows you to select different zoom options for the selected feature. The "Zoom on feature" function allows to adjust the map scale to the selected feature. A shortcut to this option is available in the window's header, to the right of the  icon. Activating the "Zoom auto" function will automatically zoom on features as soon as they are selected.



ENLARGE, REDUCE, HIDE OR CLOSE THE DESCRIPTIVE WINDOW OF A LAYER'S FEATURES

An arrow icon to the right of the window title allows you to enlarge or reduce it for easier consultation. The window is completely minimized when you click on the title directly. Just click on the title again to enlarge it. The "x" icon closes the window.



QUERY OVERLAPPING LAYERS

When several layers overlap, select the  icon next to the layer you wish to query—in this case the “Peuplements écoforestiers” layer—to open the descriptive window associated to the selected stand. You can consult the attributes of the other overlapping layers by using (1) the arrows to the left and right of the window title, or (2) by returning to the list of selected layers by clicking on the  icon at the top left of the window and then on “Return to the list”. The “Zoom on all features” function adjusts the map’s scale to show all the selected features (3).

☰

Entities found on the map

✕

^

Peuplements écoforestiers



Peuplements écoforestiers

🔍

^

Pentes LiDAR (dégradé)



Pentes LiDAR (dégradé)

🔍

☰

< 1

Peuplements écoforestiers

1 >

✕

Contenu	Code	Descriptif
Type de couvert	M	Mixte
Composition en essences	BPBPSB	Bouleau à papier, bouleau à papier et sapin baumier
Classe densité	B	Plus grand ou égal à 60% et plus petit que 80%

☰

Return to the list

🔍

Zoom on feature

2

🔍

Zoom on all features

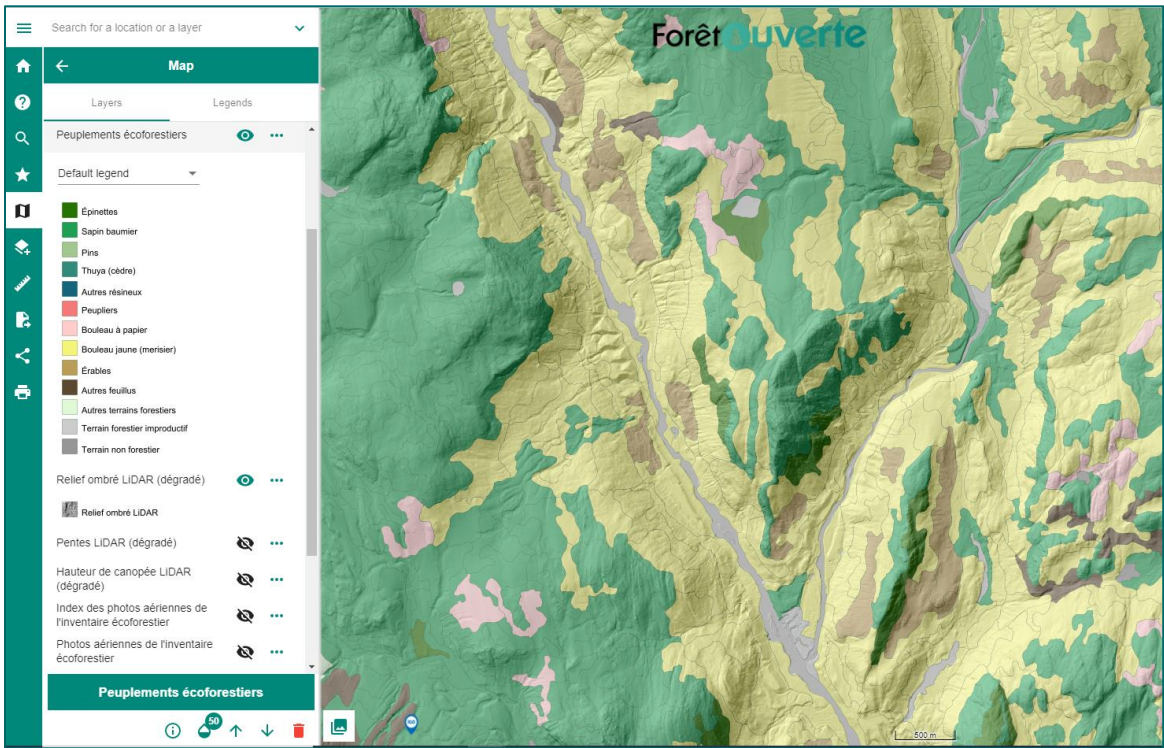
3

☐

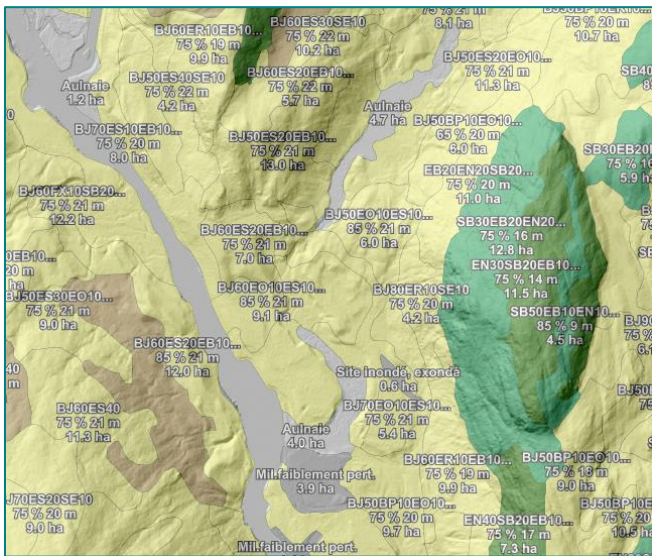
Zoom auto

MAP PROJECT EXAMPLE

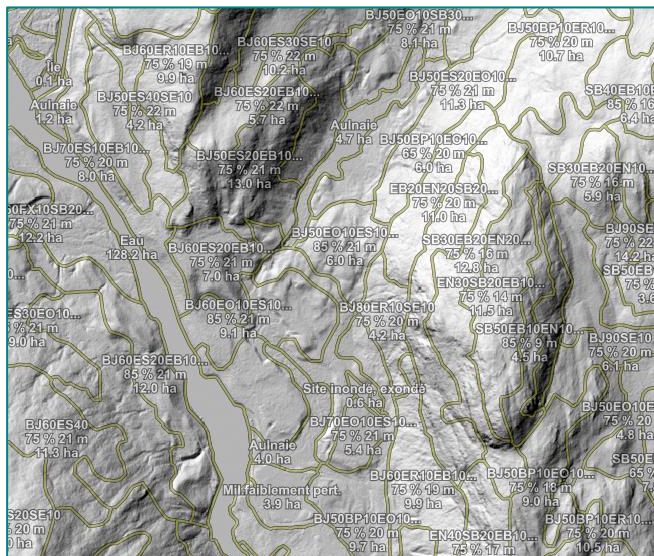
The “Peuplement écoforestier” layer with 50% transparency overlapping the “Relief ombré lidar” layer.



Legend: “Colour with labels”



Legend: “Contour with labels”



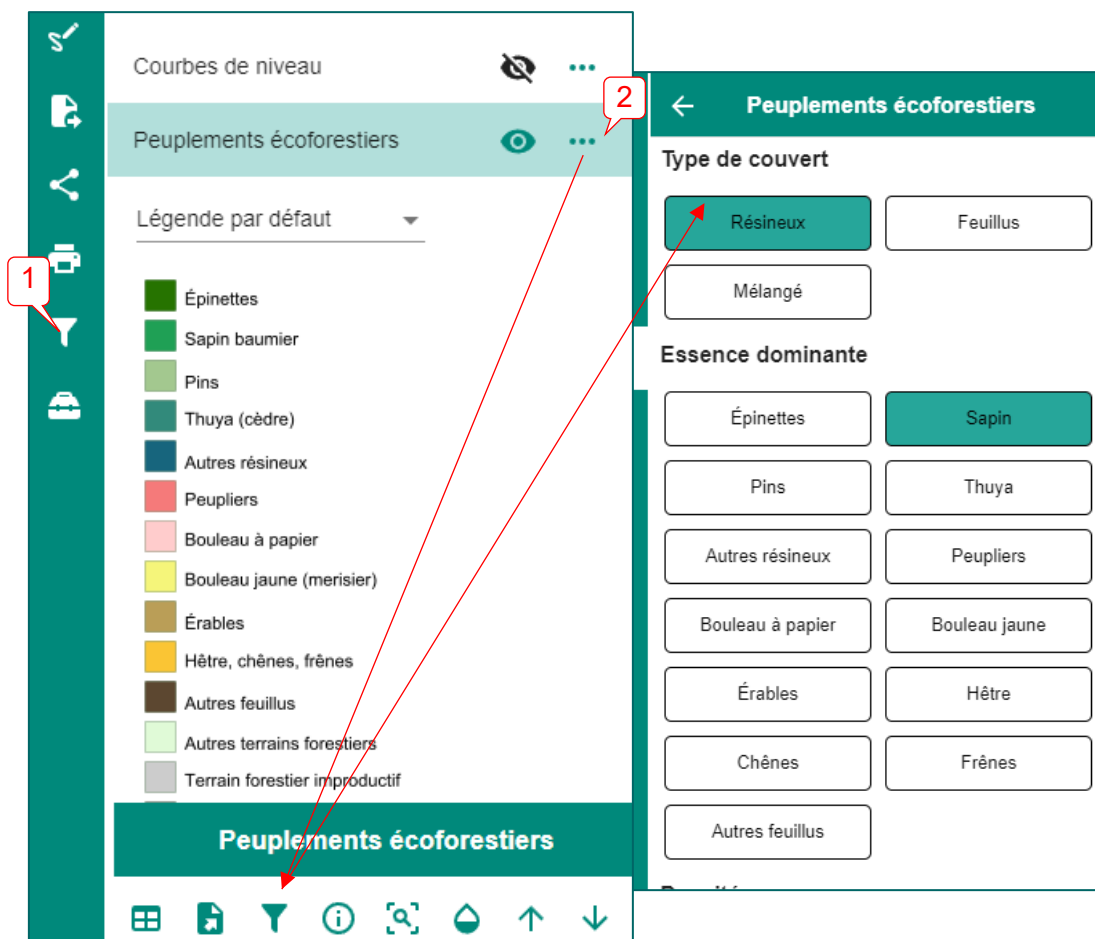
▼ Filter

The time filter is integrated to the attribute filter. The filter function allows you to select, using buttons or dates, the elements to be displayed in a layer based on certain attributes. The filter is only available for certain layers, such as “Peuplements écoforestiers”, “Perturbations naturelles et anthropiques”, “Pentes numériques”, “Dépôts de surfaces de la carte écoforestière” and some other layers of the “Classification écologique” group.

There are two ways to access the filter:

- 1) In the main menu, click on the “Filter” tab. This option makes it possible to view all the layers that can be filtered within the selected map theme. However, some layers may not be filterable, depending on the selected map theme.
- 2) Click on “...” to the right of the layer name to open the layer options window, then click on the filter icon.

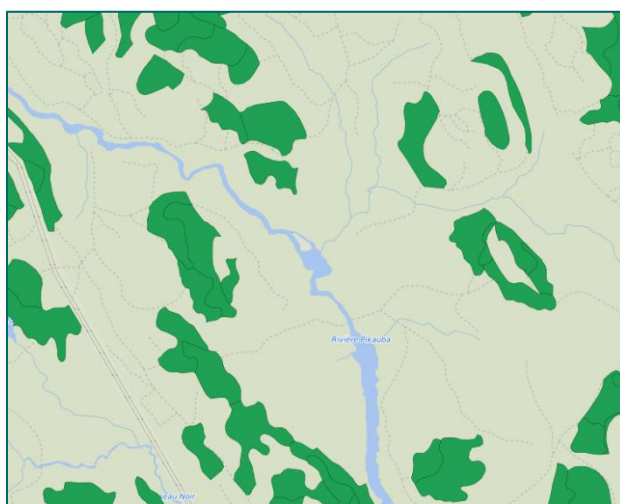
Click on the different buttons to filter the layer. In the example below, the layer will only show **conifer (résineux)** stands that are dominated by **fir (sapin)**.



Map without filter



Map with filter



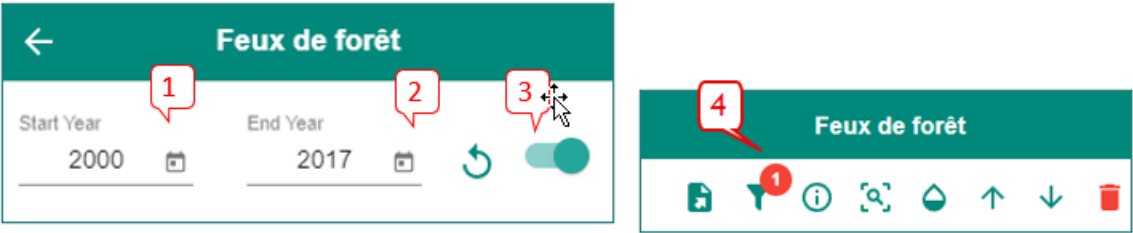
Warning: the filter is only available for certain layers that are already in a map theme. If the layer is added using the catalog or search bar, the filter may not be available.

When accessing the filter from the main menu, the layers' legends can be viewed simply by clicking on the name of a layer, without going back to the "Map" tab. The crossed-out eye indicates that the layer is not visible in the "Map".

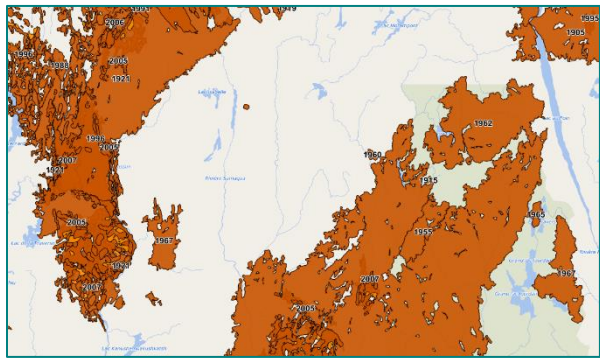


The filter can also be used to define a time lapse on the layer you wish to display. This feature is only available for the "perturbations naturelles et anthropiques" layers, available in the "Perturbations de la forêt" map theme. The "Chasse et piégeage" map theme also contains a layer that can be filtered by year.

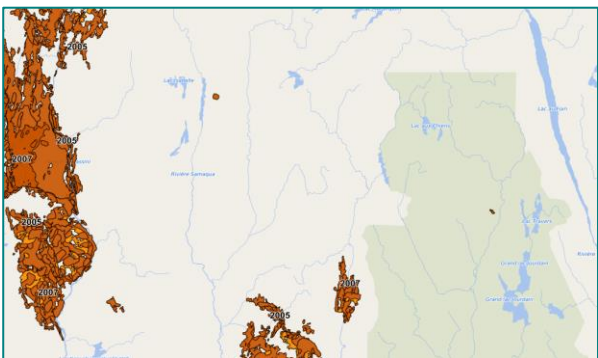
First, choose the desired time lapse (1), such as the forest fires that occurred between 2000 and 2017. The circular arrow icon (2) can be used to reset the filter to default values. The filter can also be deactivated or reactivated using the slider (3), which can be useful to visually compare results in the map. (4) A red number in the layer options window indicates that a filter is applied to the layer.



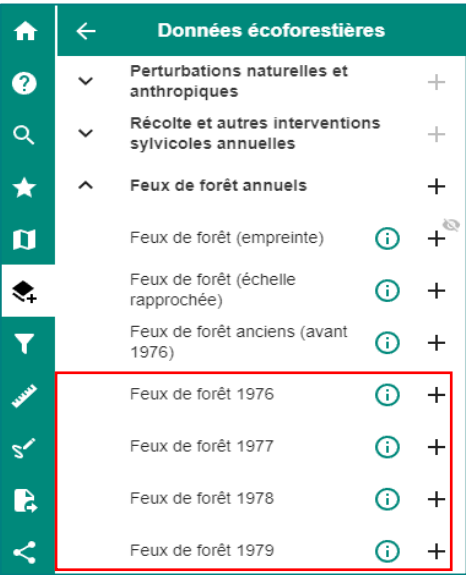
Map without filter



Map with filter



Tip: To visualize different types of disturbances in non-consecutive years, annual layers are available in the “Données écoforestières” catalog. Refer to the [Catalog](#) section for more information.



ZOOM AND LAYER DISPLAY SCALES

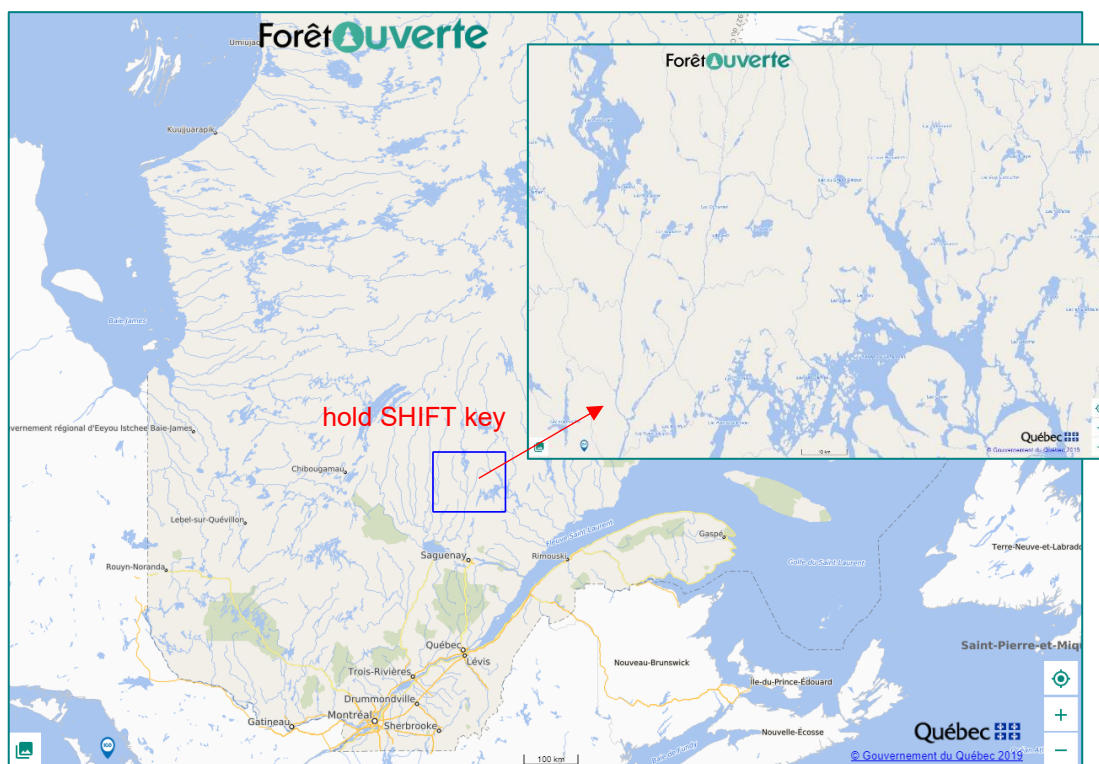
Certain layers, such as the “Peuplements écoforestiers” layer, are too heavy to display on a provincial scale. To remedy this situation, display scales are set for certain layers. The display parameters for these layers can be found in [Appendix 1](#).

A grey eye  next to a layer indicates that the latter cannot be viewed in the active scale (the value of the active scale is found at the bottom of the map).



To view the layer's information, simply **zoom** in or out. To zoom in or out, use the buttons at the bottom right of the screen or scroll using the mouse (in the case of a desktop computer). For mobile devices, use two fingers on the screen to zoom in or out.

Tip: A keyboard shortcut exists to zoom in or out using a square selection. Hold the Shift key and the left mouse button to draw a rectangle over the desired area.



DATA IMPRINTS

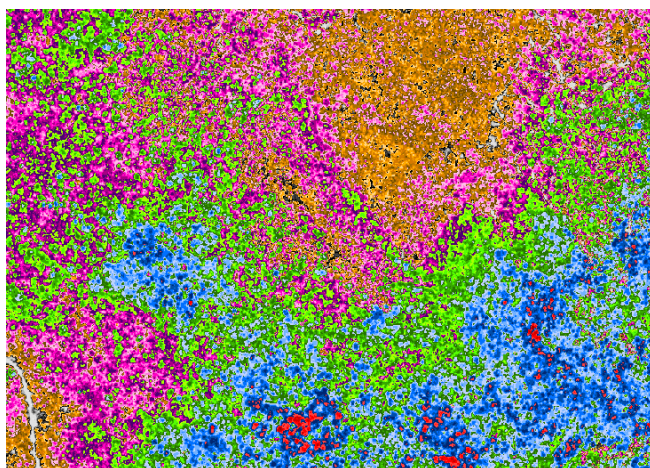
For certain layers, a salmon-coloured imprint appears to show the areas where data is available. Simply zoom in to the active view scale to view the detailed content of the layer.



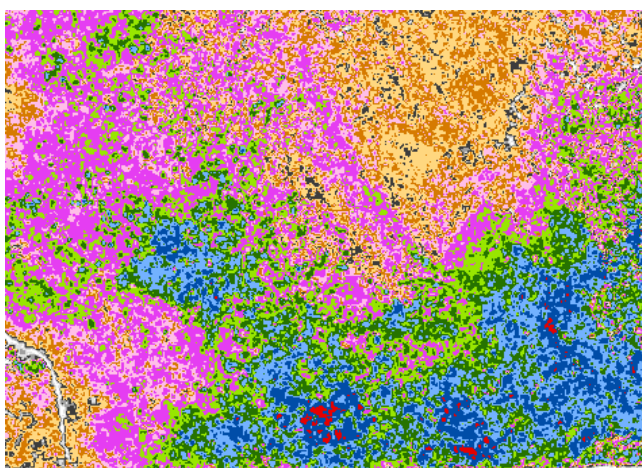
DOWNSCALED RESOLUTIONS OF LIDAR PRODUCTS

In order to optimize the display of LiDAR-derived layers (“MNT” [DTM], “Relief ombré” [Shaded Relief], “Hauteur de canopé” [Canopy height], “Pentes” [Slopes] and “Indice d’humidité topographique” [Topographic wetness index]), the resolution of these layers has been slightly downsampled. To view these layers at full resolution, download them (view the [Download](#) section of this guide) and add them to a GIS (e.g., ArcGIS Pro or QGIS).

Canopy height – Full resolution



Canopy height – Downsampled resolution

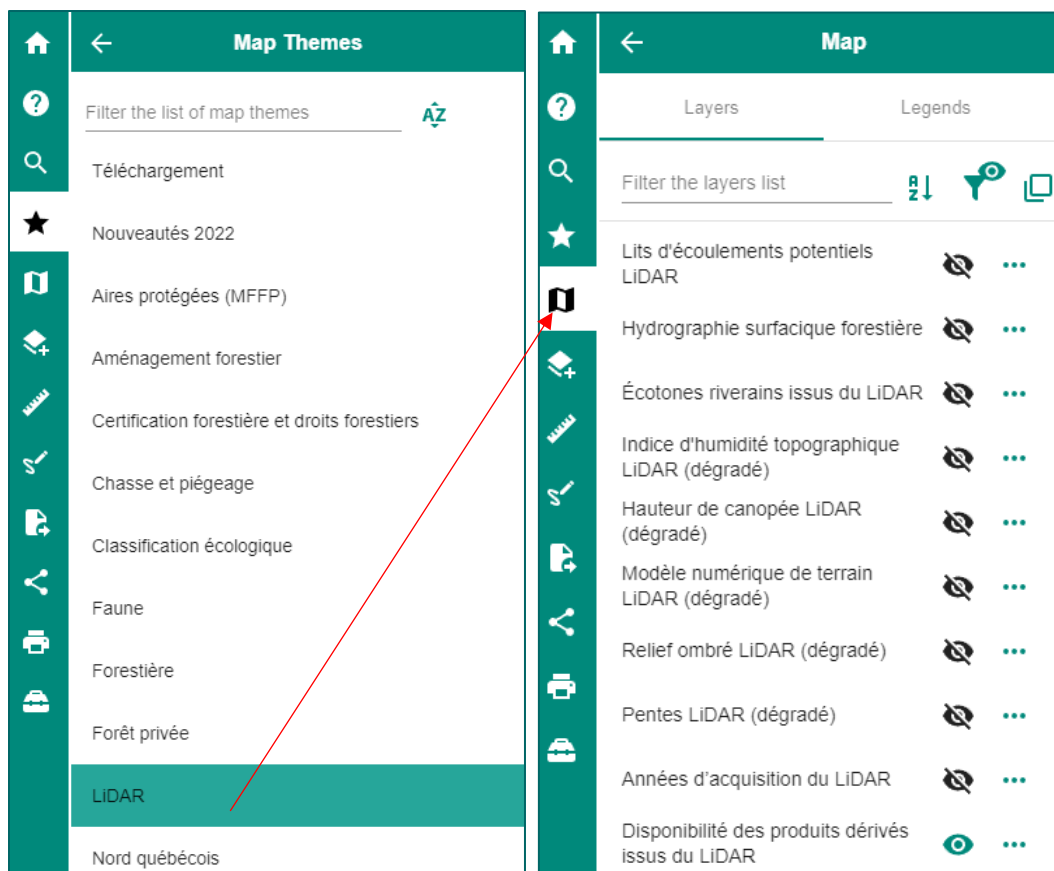


★ Map Themes

The “Map themes” feature allows for the quick display of layers grouped under different themes. This key concept is central to the effective use of *Forêt ouverte*.

When you select a map theme, all layers associated to this theme are added to the “Map”. The layers found by default in the “Map” are those found under the “À construire” theme. Depending on your interests, you may begin a project using the default map theme or select another one. You can then add layers to your map by using the Catalog or the Search bar.

For example, if you choose the “Lidar” map theme, it includes all layers of LiDAR-derived products, as well as maps for the disseminated planning of lidar-derived products, lidar data acquisition years, and the planned dissemination of Lidar dendrometric maps.



Warning: When you choose another map theme, all layers found in the “Map” feature will be replaced by those of the new theme. Therefore, you will lose all the layers previously added through the “Catalog” or the “Search” bar.

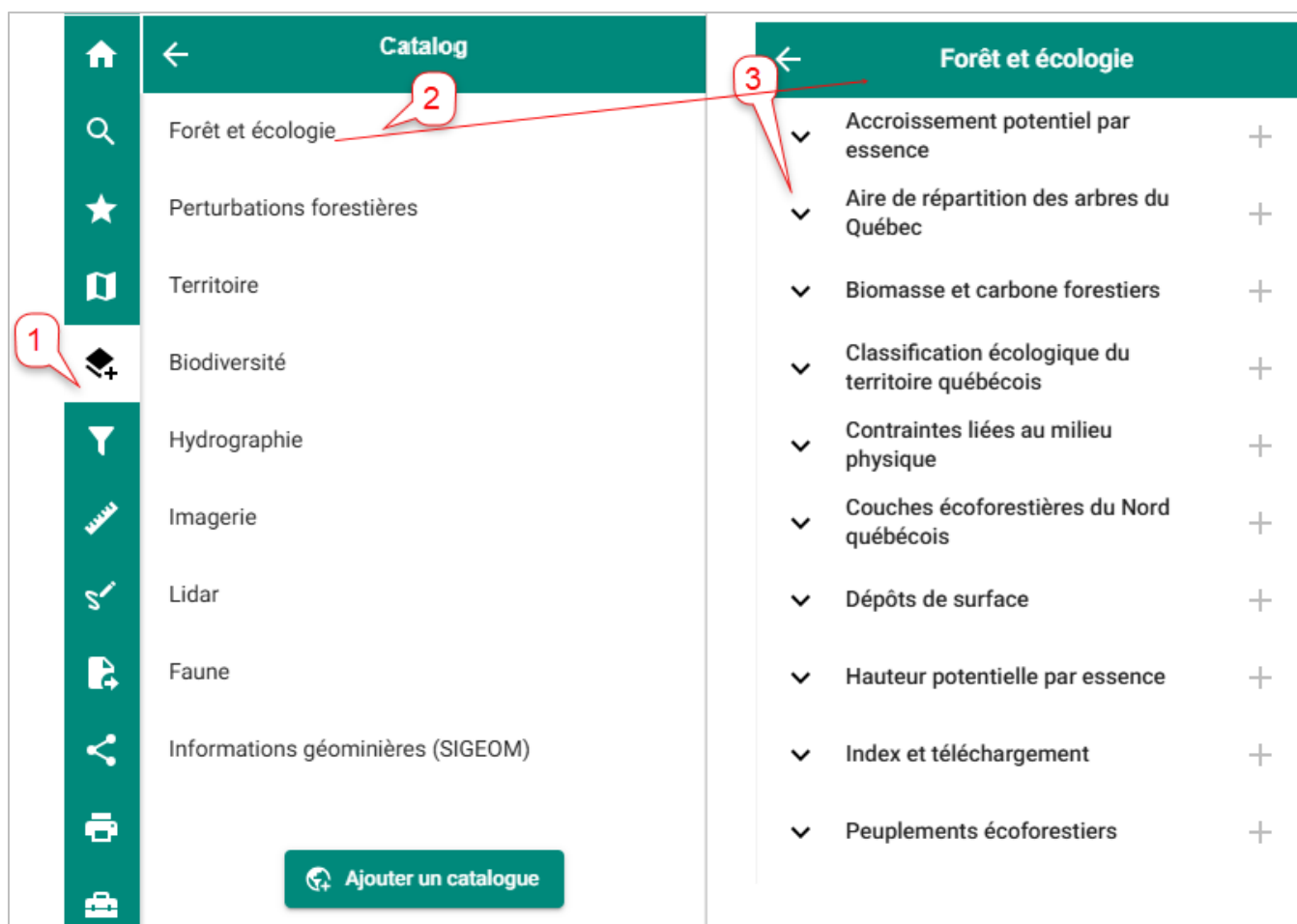
Tip: Before changing your map theme, be sure to [share](#) your map!

Catalog

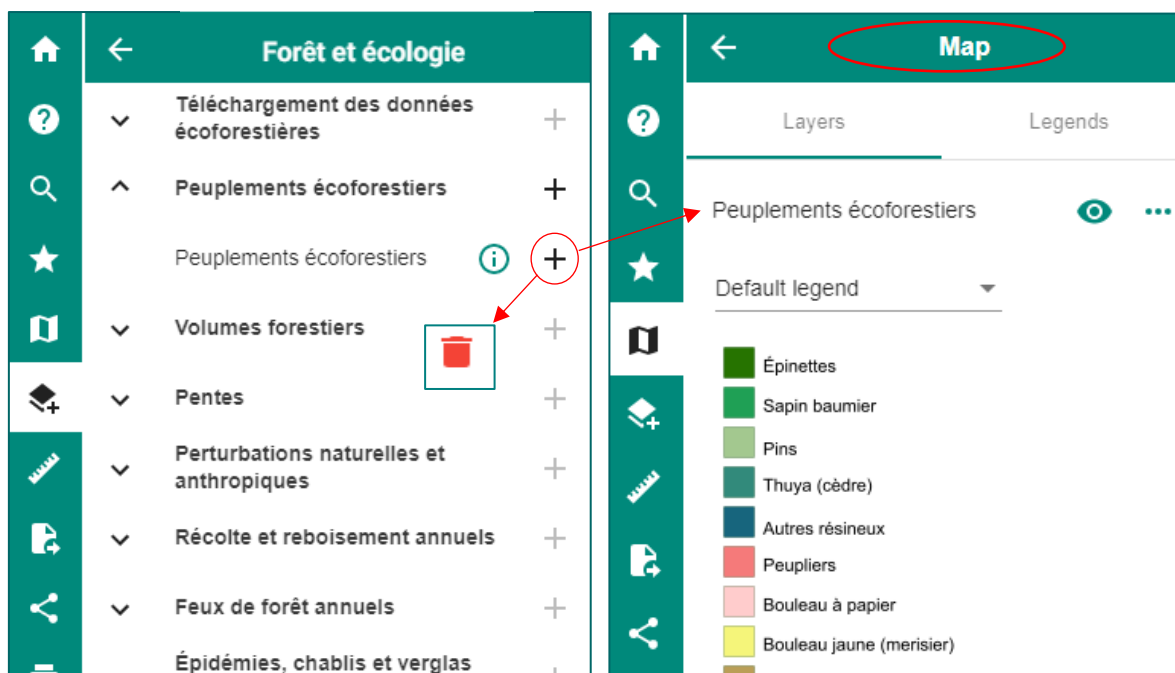
The “Catalog” contains all the layers that can be added to the “Map” feature. Click on “+” to the right of the layer to add the latter to the “Map”. The “+” then becomes a red garbage can, which allows you to remove the layer if needed. You can also add an entire group of layers using the “+” next to the group name.

For example, to add the “Peuplements écoforestiers” layer to the “Map”:

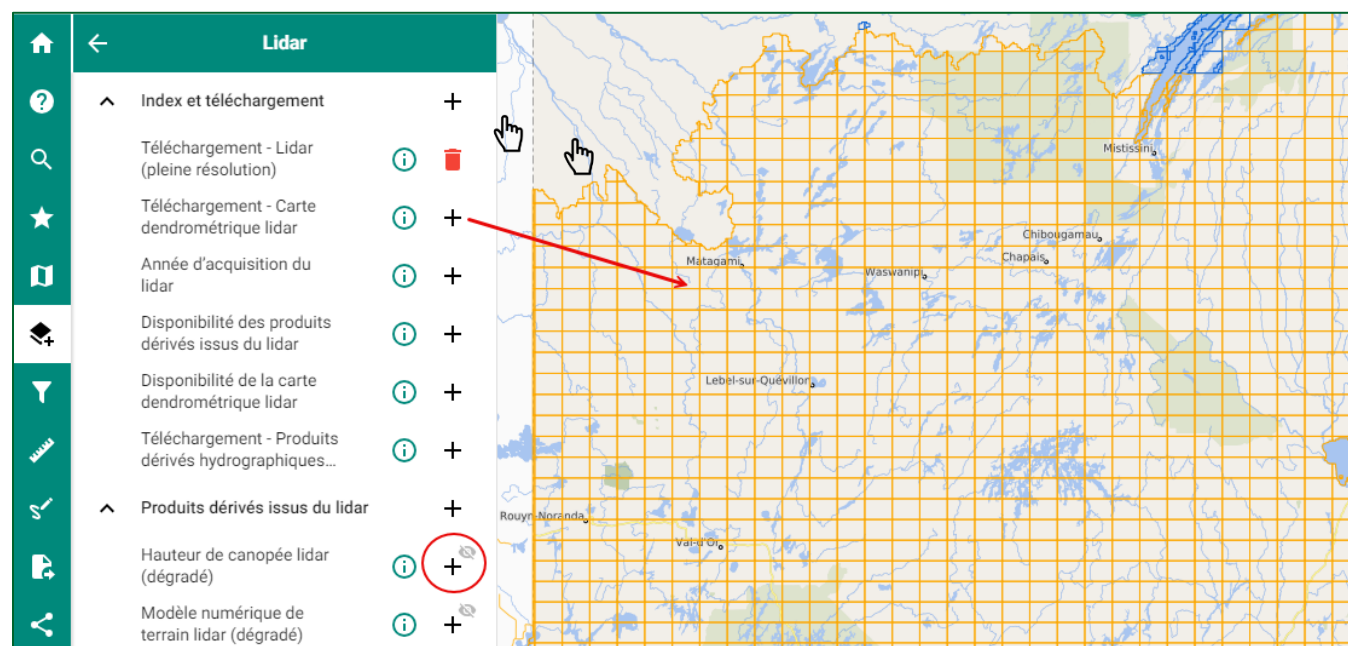
- 1) Click on “Catalog”.
- 2) Select the “Données écoforestières” catalog.
- 3) Then click the arrow next to “Peuplements écoforestiers” to see all layers within this group.



Click on “+” to the right of the “Peuplements écoforestiers” layer. The “+” becomes a red garbage can and the layer is now available in the “Map” feature.

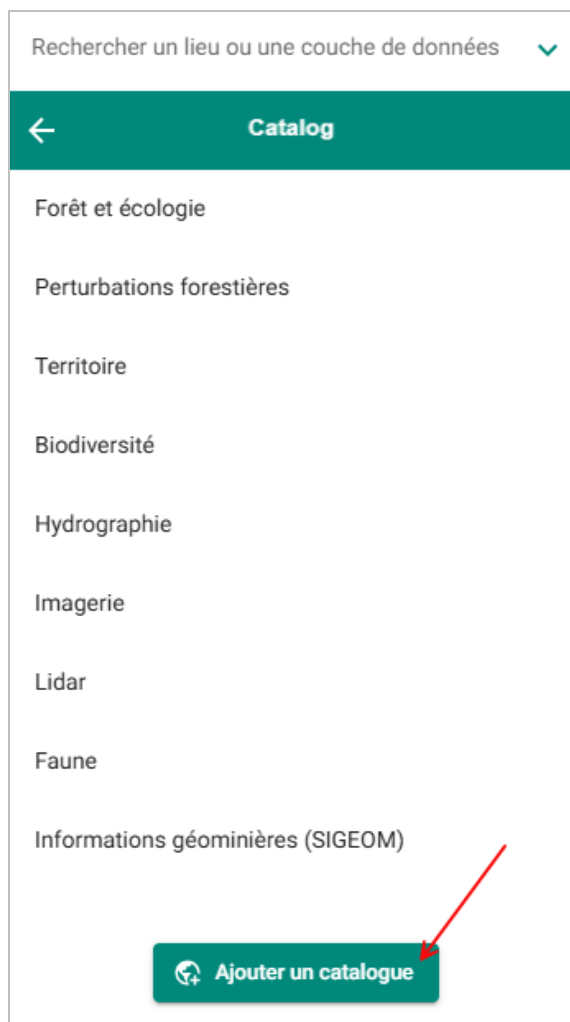


You can preview the layer on the map by hovering the mouse cursor over the “+” without clicking on it. However, if a grey crossed-out eye appears over the “+”, the map’s display scale does not allow the preview to be visible.



ADD A CATALOG USING A WEB MAP SERVICE

A personalized “Catalog” can be added using the URL of a Web map service. In the “Catalog” tab, click on “Add a catalog”.



Rechercher un lieu ou une couche de données

← Catalog

Forêt et écologie

Perturbations forestières

Territoire

Biodiversité

Hydrographie

Imagerie

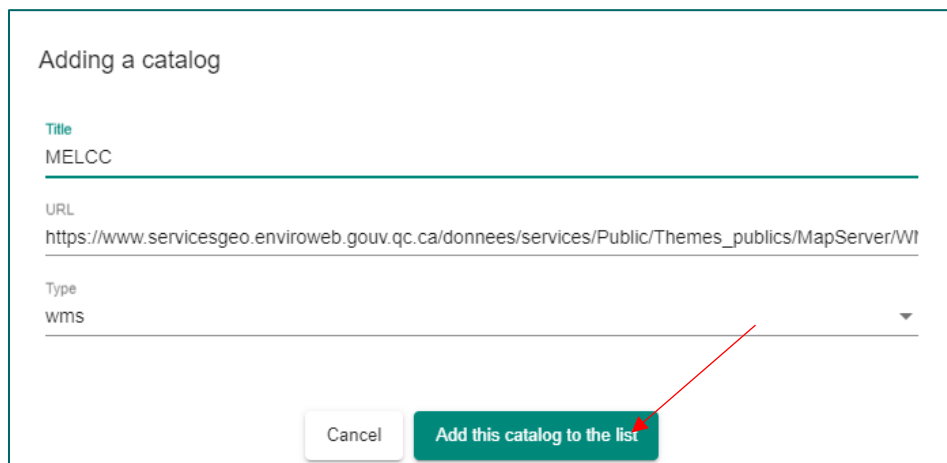
Lidar

Faune

Informations géominières (SIGEOM)

Ajouter un catalogue

Paste your Web map service URL in the new window, add a title and choose the right type (or format) for your Web map service, then click on “Add this catalog to the list”.



Adding a catalog

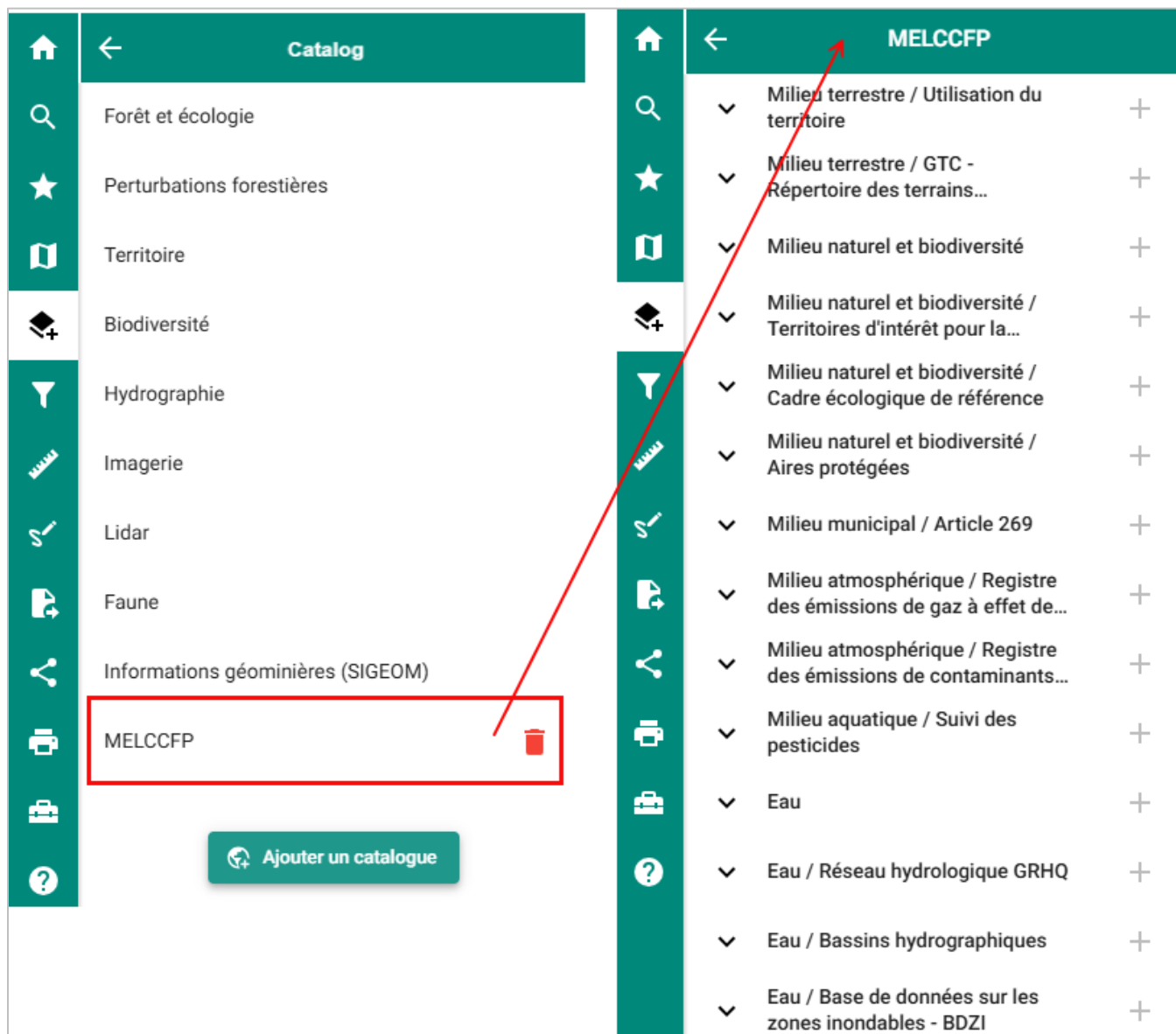
Title
MELCC

URL
https://www.servicesgeo.enviroweb.gouv.qc.ca/donnees/services/Public/Themes_publics/MapServer/WI

Type
wms

Cancel Add this catalog to the list

The new catalog is added to the list. It can be removed by clicking on the red garbage can.



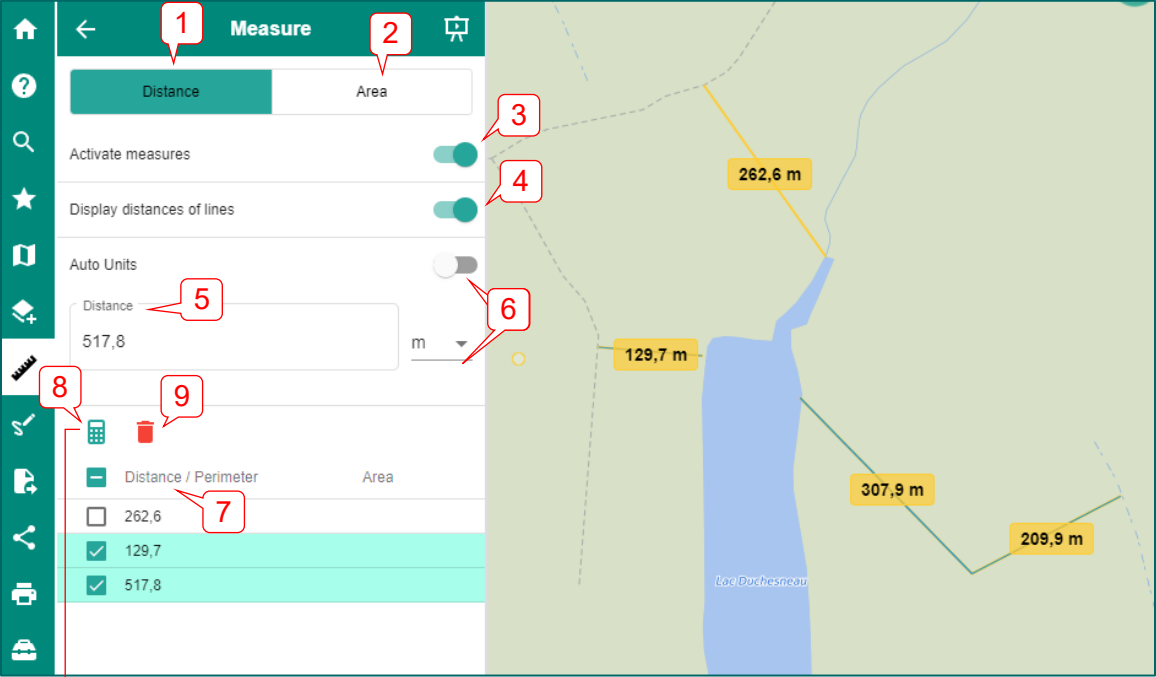
Warning: Some URLs may be blocked for security reasons. If you get the following error message, email the *Forêt ouverte* team to request authorization to use a specific URL (foret.ouverte@mffp.gouv.qc.ca).

The catalog 'http://cartes.geogratis.gc.ca/wms/nts_grid_fr' is unavailable at the moment or you don't have the required permissions.

Measure

You can measure different distances (1) and areas (2) on your map using the “Measure” tool. Once the measure tool is activated (activated by default), (3) simply click on the map to measure a distance. You can also measure several segments, the distances of which are added until you double click the map. Each segment has a distance label if this option is activated (4) and the total distance is displayed in the “Distance” bar (5). The units can be changed by clicking on the drop-down menu or by activating the Auto Units option, which adjusts the units to the map’s scale (6).

Previously measured distances are found at the bottom of the window (7). Simply click the box to the left of a distance to select it (the line becomes green in the map). You can calculate the total selected distances using the calculator (8) or delete them by clicking on the garbage can (9).

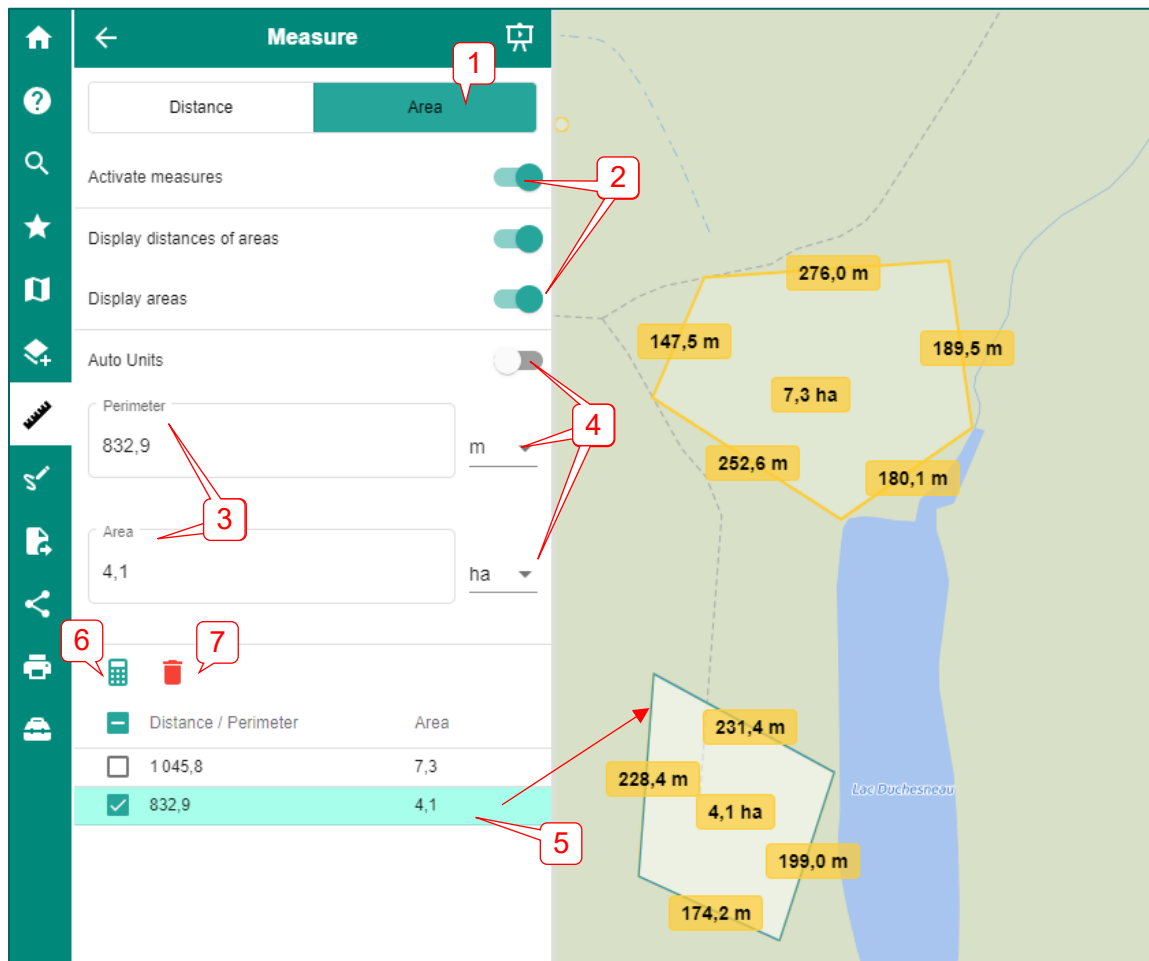


Sum of the selection

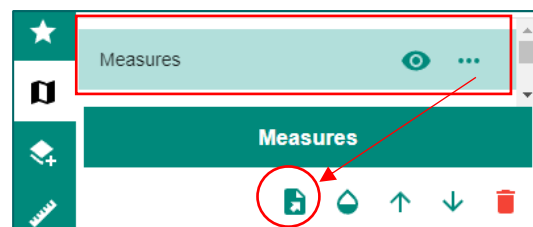
Length	
647,5	m
0,6	km
0,4	mi
2 124,3	ft

To measure an area, select the area option (1) and draw a polygon in the map, double clicking to close the shape. The area and perimeter labels appear in the map if these options are activated (2), as well as in the measure window (3). It is possible to change the units for both area and perimeter measures by (4) clicking on the drop-down menu or by activating the Auto Units option which adjusts the units to the map's scale.

Previously measured areas and perimeters are found at the bottom of the measure window (5). Simply click the box to the left of a measure to select it. The selected measures become green in the map. You can calculate the total selected measures using the calculator (6) or delete them by clicking on the garbage can (7).



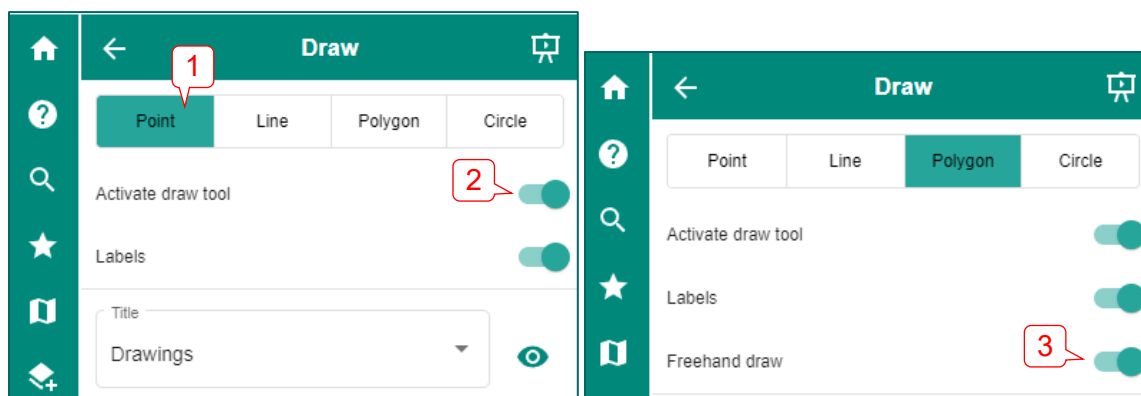
When creating a measure, a “Measures” layer is added to the list of layers in the “Map”. This layer can be printed using the “Print” tab or exported using the “Import and Export” tab. A shortcut to the export feature is also available in the layer’s options.



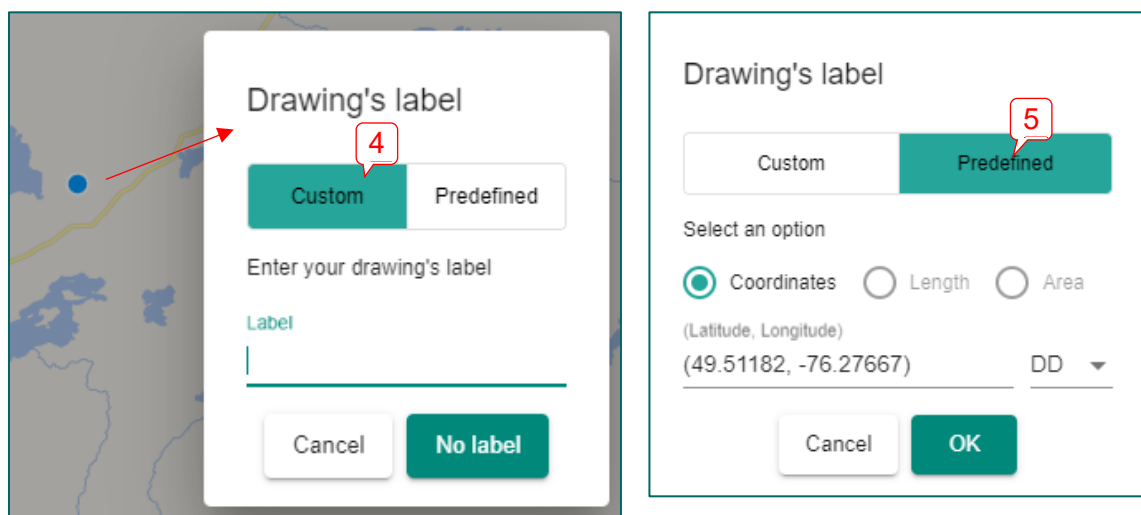
Draw

The “Draw” tool allows you to add (1) points, lines, polygons and circles to the map, depending on the selected tab. Simply click on the “Map” when the drawing tool is activated (activated by default) (2).

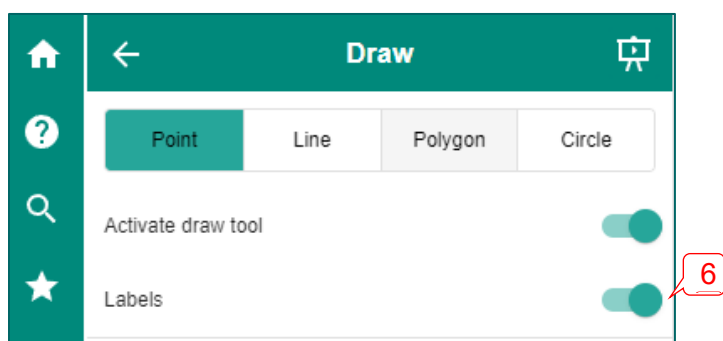
When the “Line”, “Polygon” or “Circle” option is selected, you can also do a freehand drawing by sliding the button to the right for that option (3).



When creating a new entity, the tool proposes assigning a custom (4) or predefined label to it (5).

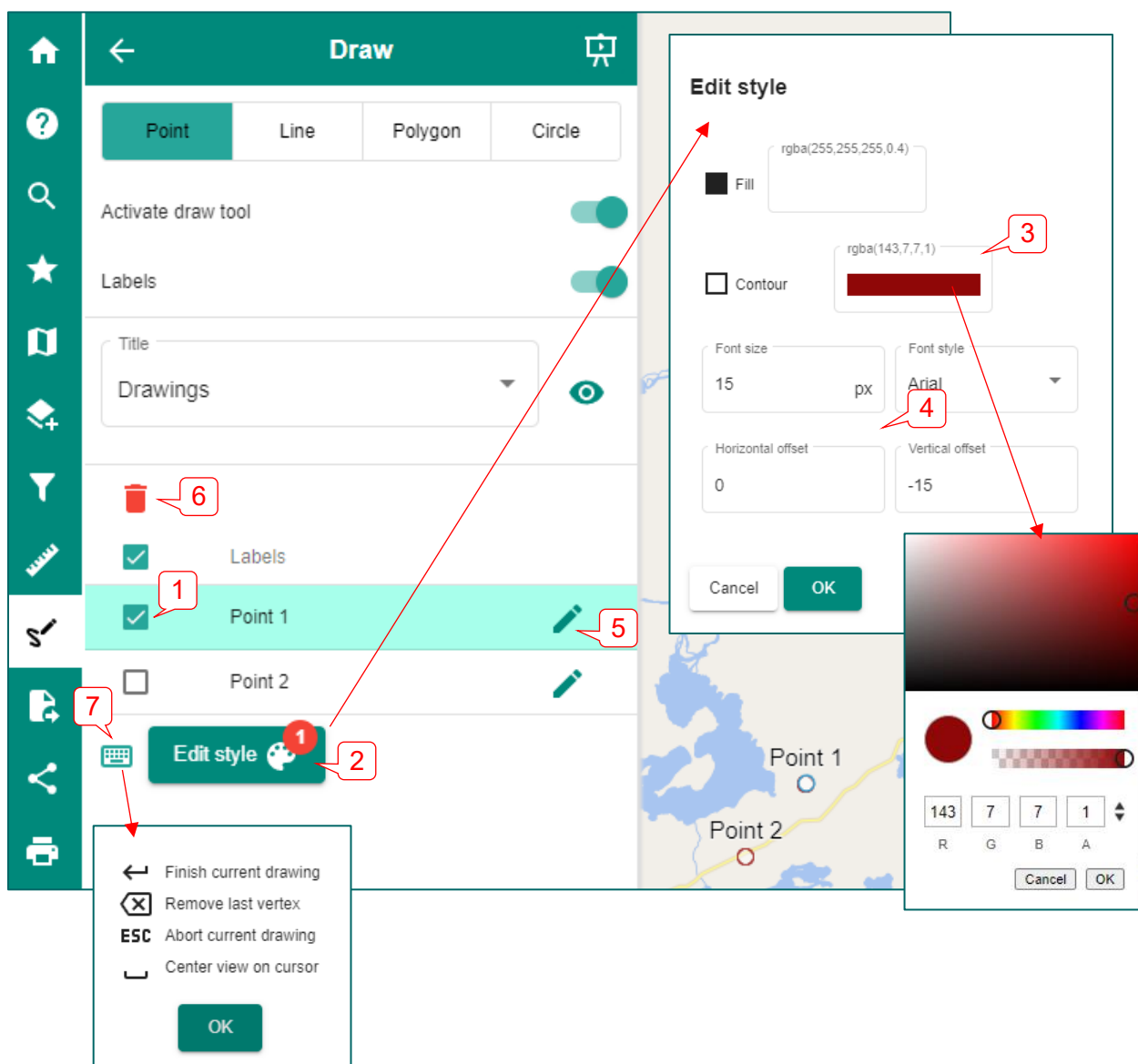


You can then hide the labels in the map (6) by sliding the button to the left.

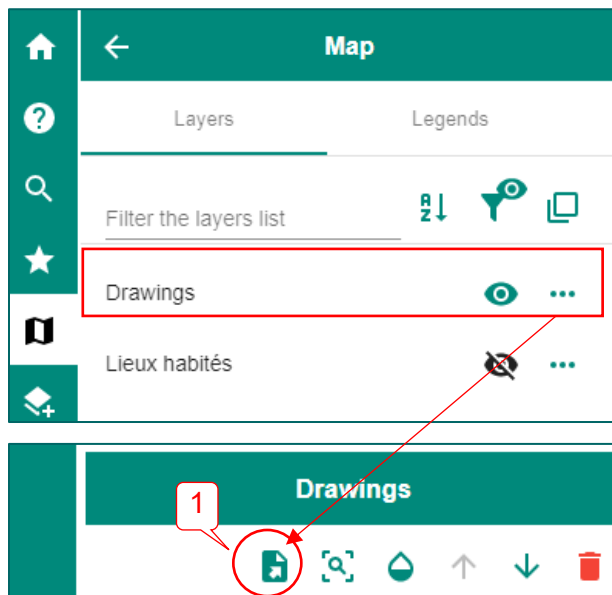


To change the parameters of a drawing, (1) check the box to the right of the drawing to select it (the selected drawing appears in blue on the map), (2) then click the “Edit style” button. In the new window that appears, you can change the fill or contour colours of the selected drawing using (3) the colour selectors. You can also change the label size and font and move it relative to the entity using the horizontal and vertical offset options (4). You can modify multiple drawings at a time by selecting them before clicking on the “Edit style” option.

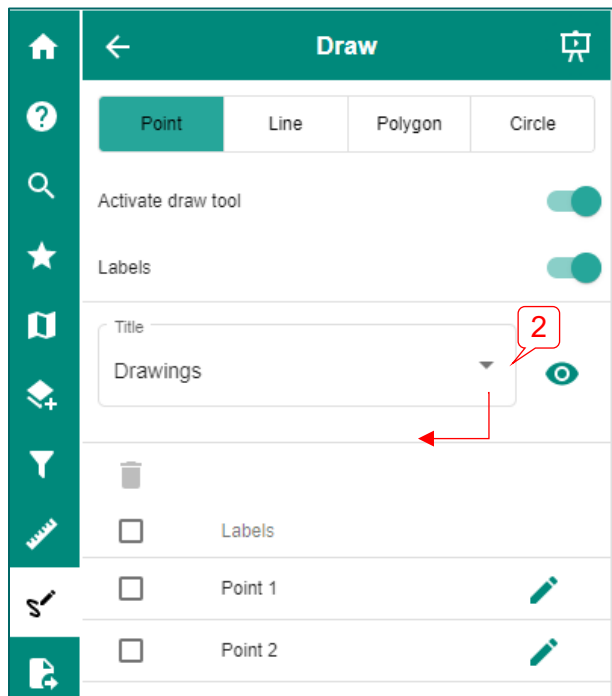
The label text can be modified by clicking on the pencil icon (5). Selected drawings can be deleted by clicking on the red garbage can (6). An icon at the bottom of the window indicates keyboard shortcut keys (7).



When you create a drawing, a “Drawings” layer is added in the list of layers in the “Map”. The layer can be printed using the [Print](#) feature or exported using the “[Import and Export](#)” feature. A shortcut to the export feature (1) is also available in the layer’s options.



Various “Drawings” layers can be created by clicking on the drop-down menu to the right of the layer name (2). When editing, the selected layer is the only one visible in the map. However, all drawing layers are visible when in the “Map” tab.



Import and Export

The “Import and Export” feature applies to a layer or a personalized map.

IMPORT OR EXPORT LAYERS, MEASURES OR DRAWINGS

To import a layer, select (1) the “Layer” tab, (2) the “Import” tab, (3) the coordinate system of the file you wish to import and (4) click on the “Import” button.

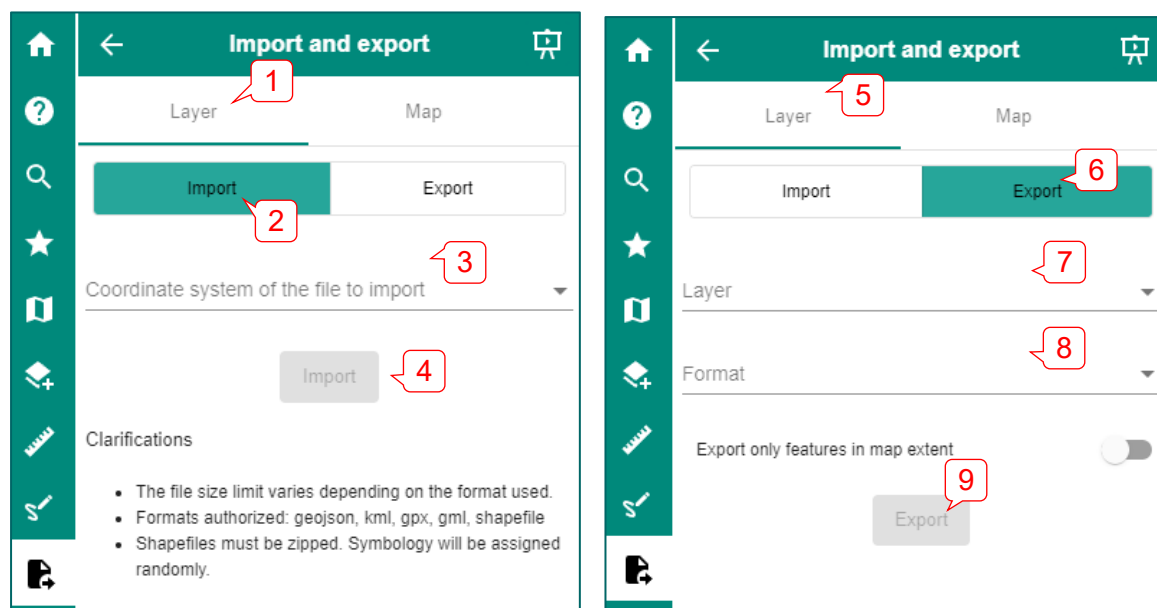
Note:

The size limit for importing a file varies depending on the format (GeoJSON, GML, GPX, KML, Shapefile). For larger files, use the GeoJSON format.

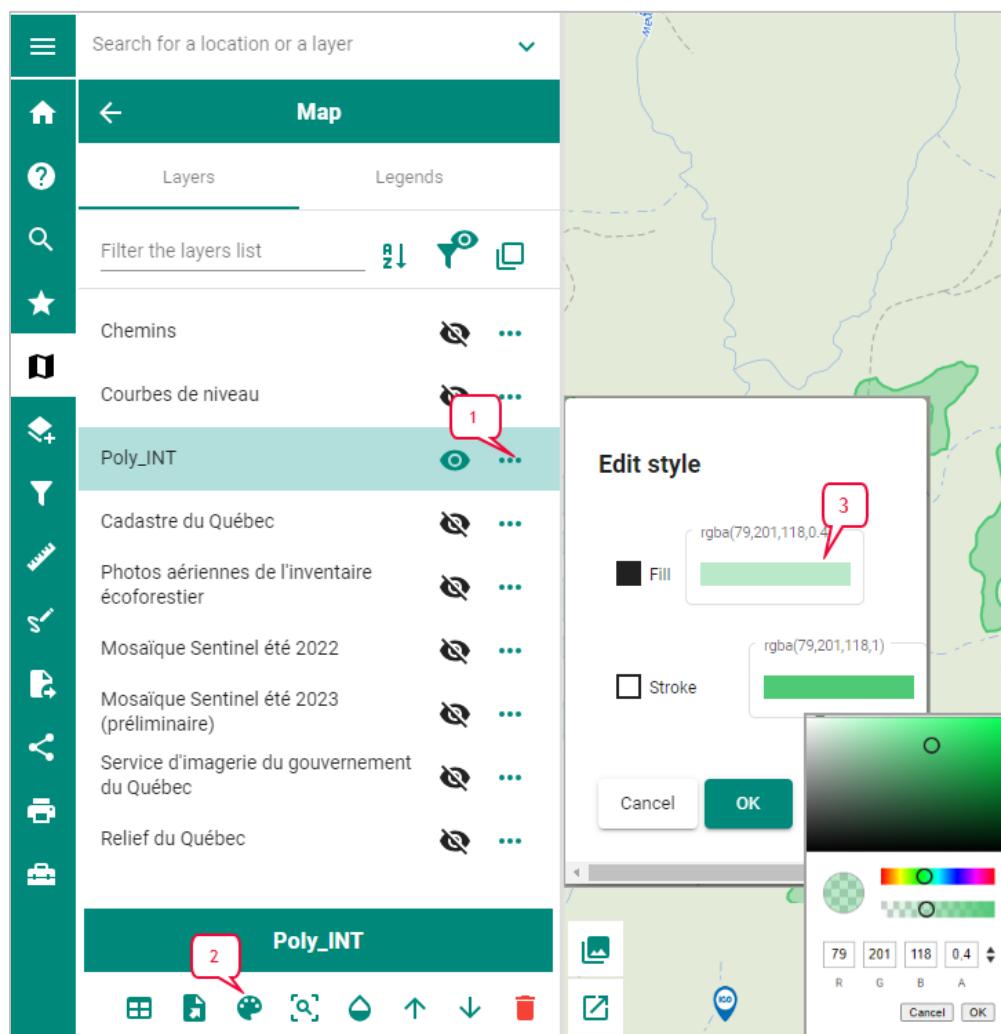
Shapefiles must be zipped. If needed, refer to the .PRJ file (text file) of your shapefile to know what coordinate system your shapefile is in.

The export layer feature is possible only for Web Feature Service (WFS) layers. As the majority of *Forêt ouverte*’s layers are in WMS format, very few layers can be exported. However, the “Measures” and “Drawings” layers can be exported. First, (5) select the “Layer” tab, then (6) the “Export” tab. Next, (7) select the layer you wish to export, (8) choose a file format from the drop-down menu (GeoJSON, GML, GPX, KML, Shapefile, CSV (comma delimited) or CSV (semicolon delimited) and (9) click on “Export”. A new file will be created in your computer’s “Downloads” folder.

Note: The exported layer’s coordinate system is WGS84 (EPSG: 4326). This is the coordinate system you must choose if you wish to import the layer back into your map.



When a layer is imported, you can modify its style by; clicking on the ellipsis to the left of the layer (1); using the paint palette icon on the bottom bar (2); in the new window that appears, changing the fill and outline colour (3).

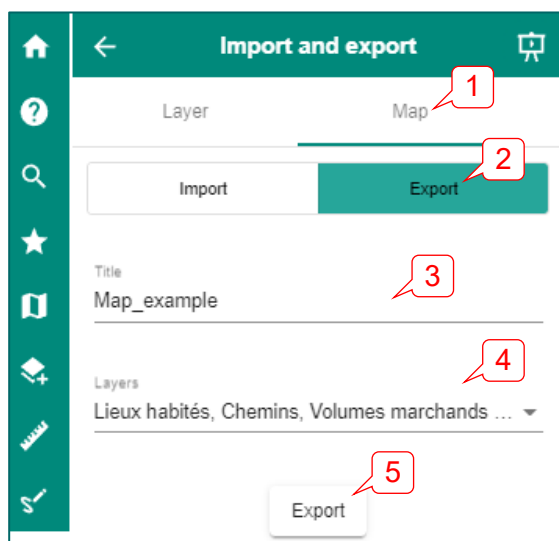


IMPORT AND EXPORT A PERSONALIZED MAP

You can also export a personalized map, e.g., a map theme to which layers have been added. To export a map, (1) select the “Map” tab, (2) then select the “Export” tab, (3) choose a title for the map, (4) select the layers you wish to add to the exported map and (5) click on the “Export” button. The export tool will create a .JSON file in your computer’s “Downloads” folder.

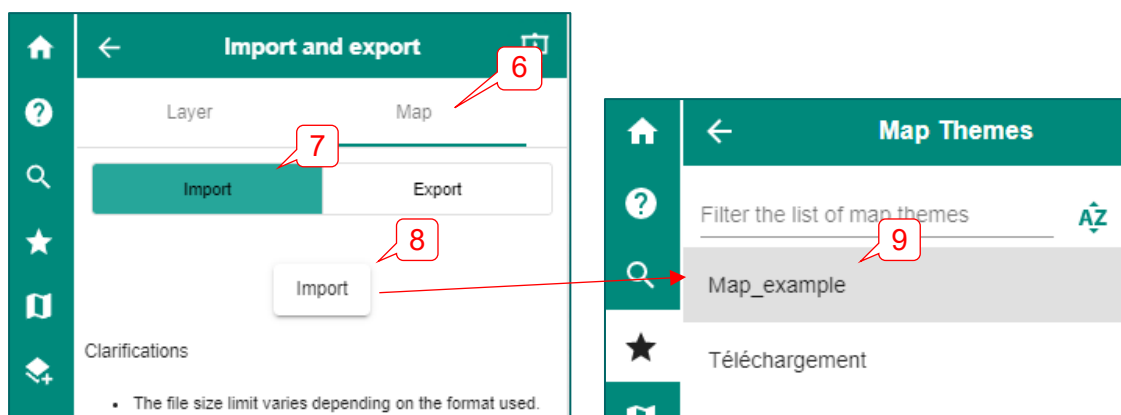
This feature, as opposed to the Share feature, does not maintain the zoom of the exported map, but does save the list of layers for future use.

Warning: You cannot export your map if you have “Measures” or “Drawings” layers. You must therefore delete these layers before exporting your map. You can export these layers individually before deleting them.



To import a map, (6) select the “Map” tab, (7) then the “Import” tab and (8) click on “Import”. Select a .JSON file that you have previously exported. Your map will be added to the list of map themes (9) and its layers will appear in the “Map” feature.

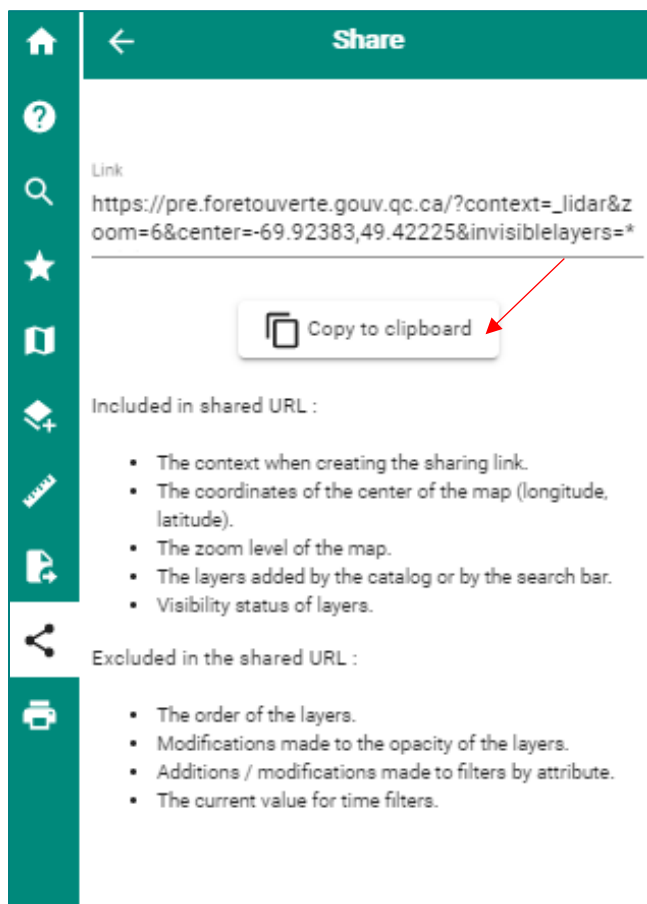
Warning: You cannot share a map that you have imported, since the map is saved locally on your computer. However, you can send the .JSON file to another party by email.



Share

The “Share” function creates a hyperlink (URL) of your map that redirects you to an exact representation of what you see on your screen. This link can be shared or saved in a document to “save” your map for future reference.

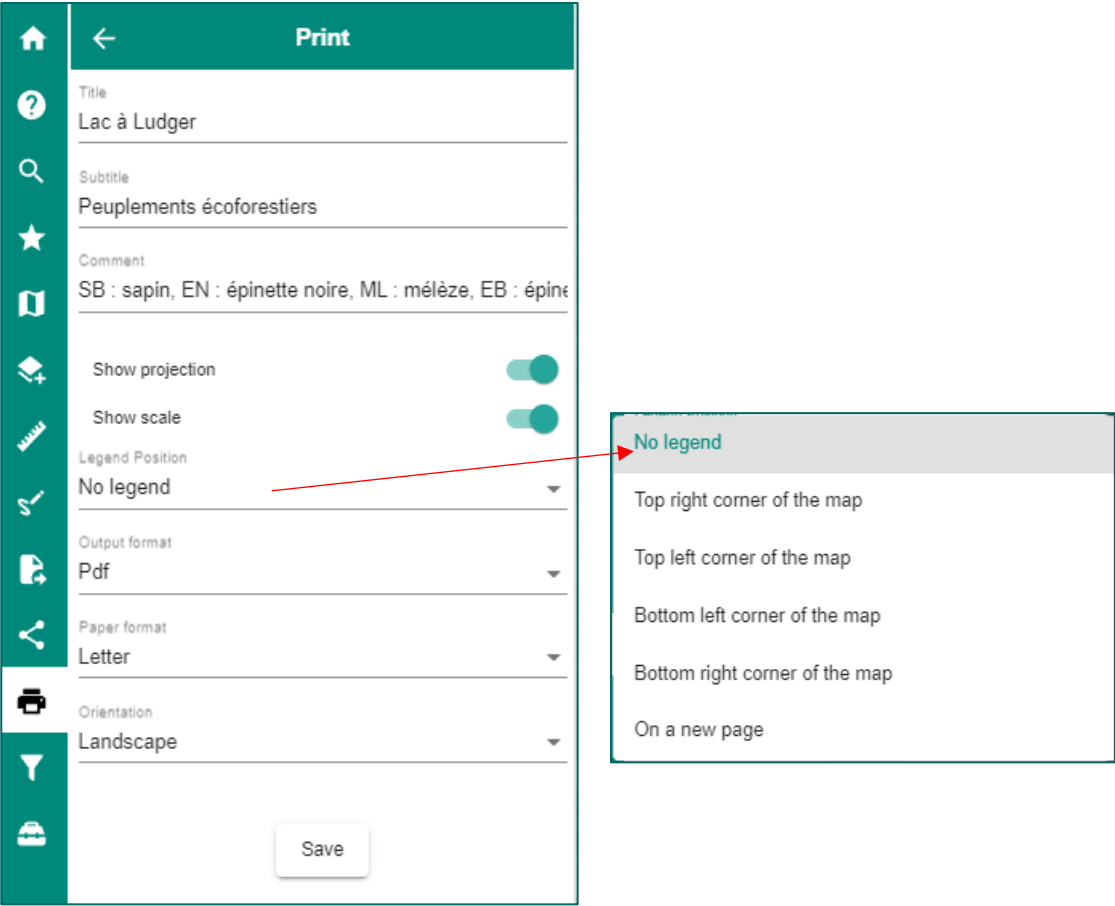
Warning: The “Measures” and “Drawings” layers will not be included in a shared map. However, these layers can be [printed](#) with the map, in a PDF or image format.



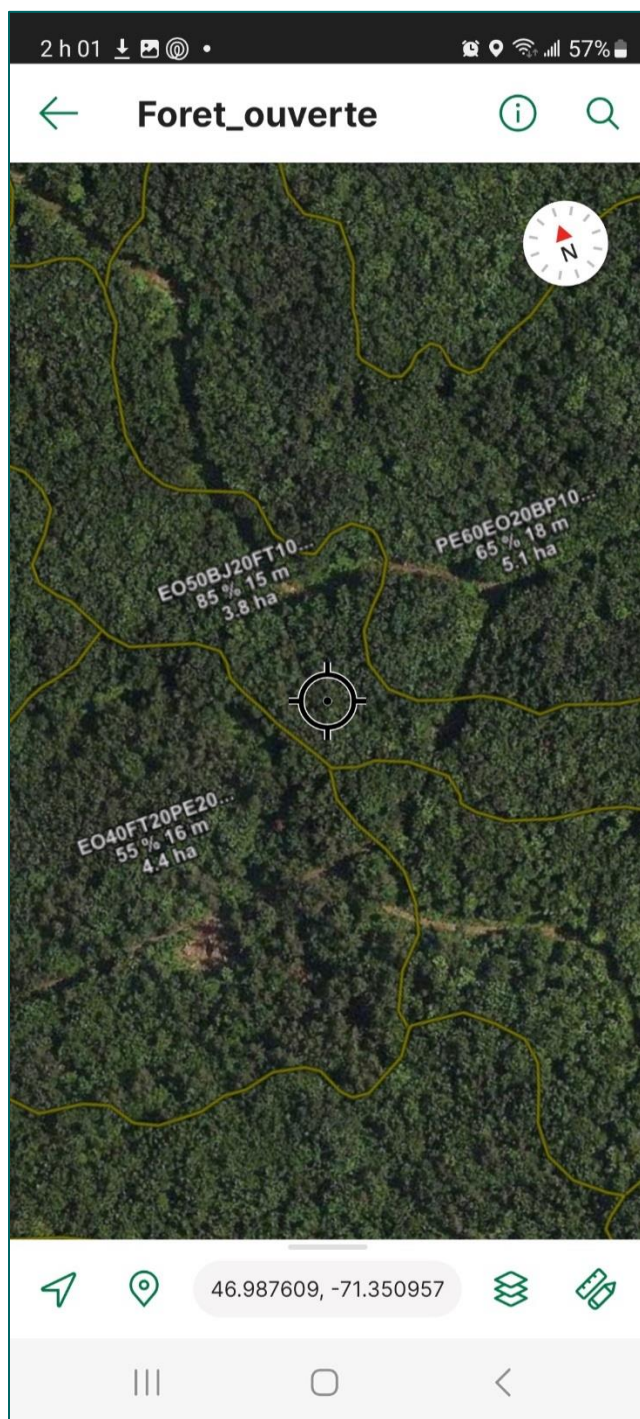
Print

You can print the map viewed on screen using the “Print” option. Add a title and a short description of the map, choose the output format (PDF or image [PNG, BMP, GIF or TIFF]), the page size (A0 through A5, letter or legal) and the desired layout (landscape or portrait).

You can always display the projection, the scale and the legend of the map in the printed document. The legend can be positioned in different areas of the printed map. The options are presented in the drop-down menu.



Note: Maps printed in PDF format from *Forêt ouverte* are georeferenced. They can therefore be used to navigate on a mobile device in offline mode, for example with Avenza Maps.



Example of a printed PDF map



Tip: To avoid printing the cursor position, deactivate this option by pressing the F2 key before printing or see the [Cursor position](#) section of this guide.

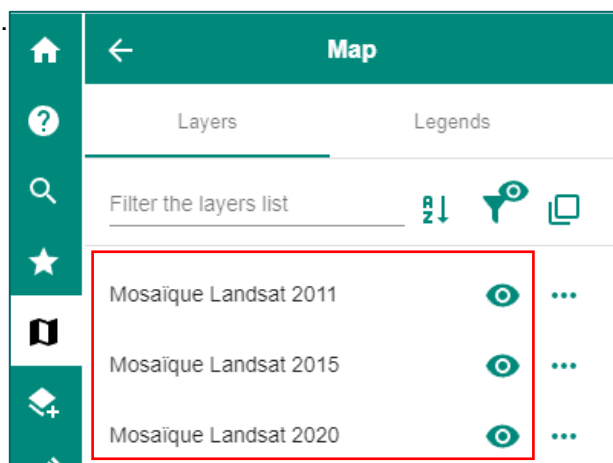
Advanced tools

The advanced toolbox includes a tool for comparing layers and another for identifying the coordinates of the map's center based on different coordinate systems.

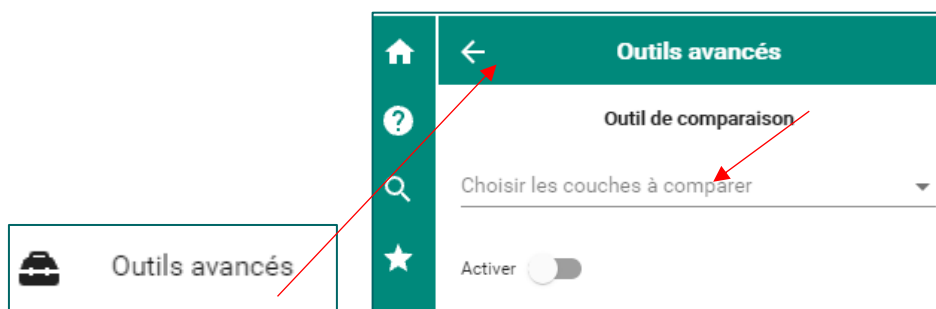
SWIPE TOOL

The swipe tool allows you to vertically split the map in two and swipe this division from left to right. This tool can be very useful for comparing opaque layers such as aerial photos or satellite images from different years. For example, the tool can be used to quickly observe the evolution of disturbances over time, such as regeneration following a forest fire.

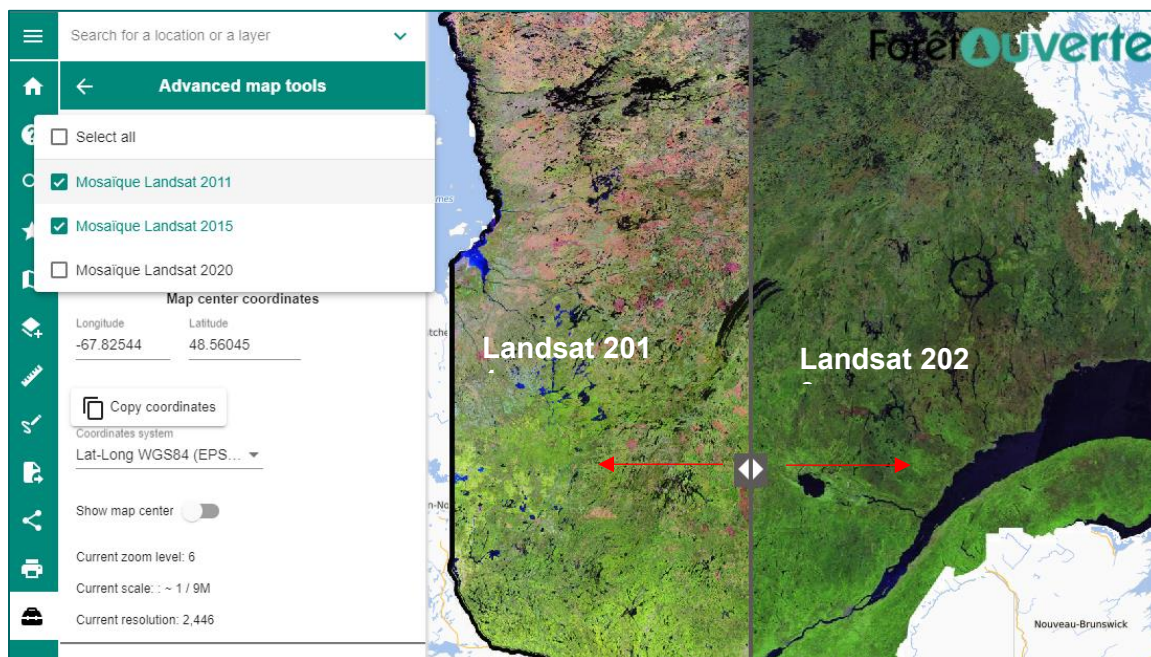
First, make sure the layers to compare are visible in the “Map” feature. The layers’ order is also important to note, as the top layers can be compared to those underneath. In the example below, Landsat mosaic data from 2011, 2015 and 2020 are visible (green eye) and are in ascending chronological order.



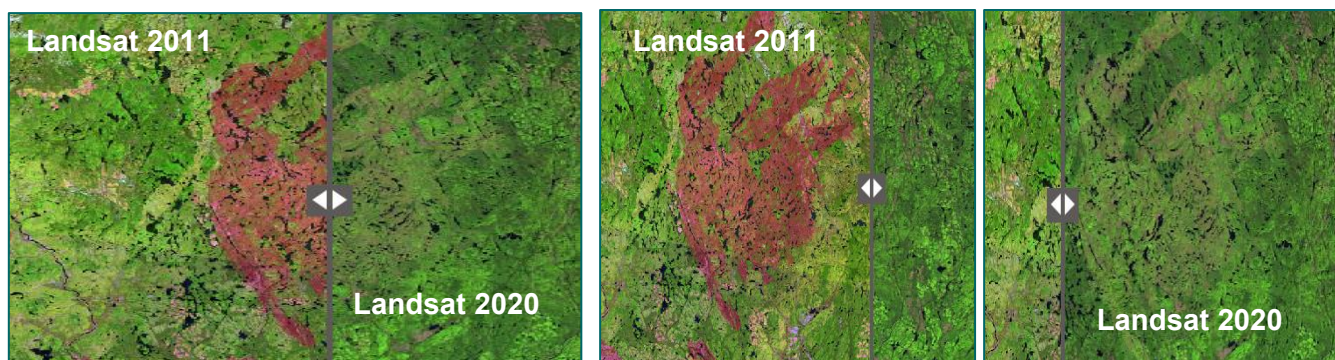
Next, select the “Advanced map tools” feature and click in the box to “select the layers for swiping”.



When you select a layer in the drop-down menu, the layer is moved to the right of the map divide. You will therefore see the next visible layer, beneath the last selected layer. In the example below, we see the Landsat 2011 mosaic on the left and the Landsat 2020 mosaic on the right. The 2011 and 2015 mosaics have been moved to the right of the map divide since they are both selected in the drop-down menu. You can then swipe the divide arrows to compare the two layers.

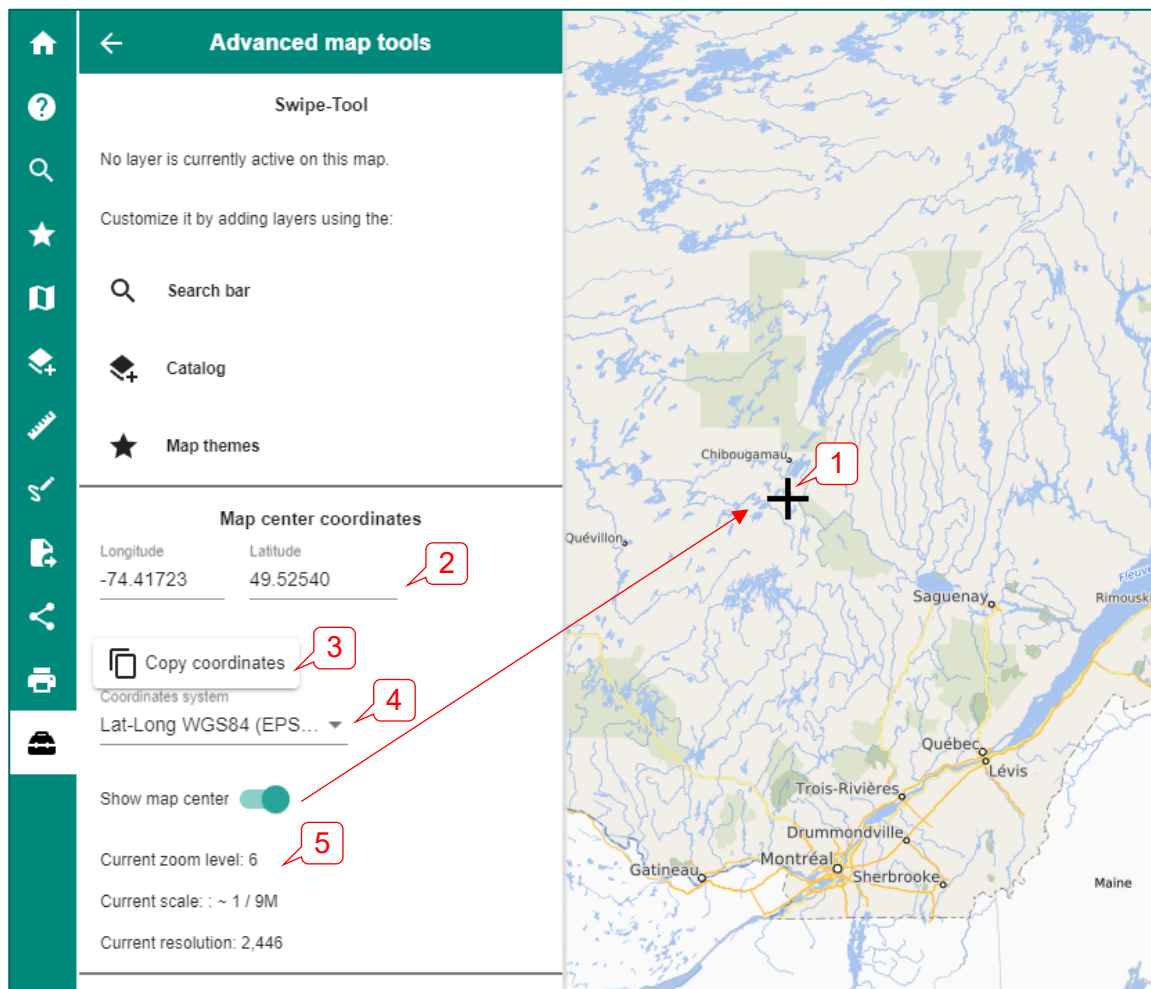


Below, the swipe tool is used to compare a fire which occurred in 2010, on the 2011 mosaic to the left and the 2020 mosaic to the right.



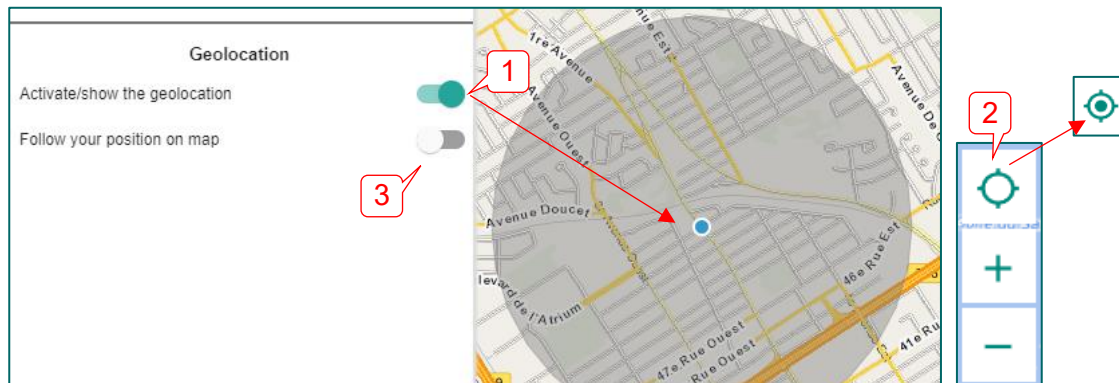
MAP CENTER COORDINATES TOOL

This tool allows (1) to identify the center of the map with a black plus sign and (2) to identify the map's center coordinates. It also allows (3) to copy these coordinates, (4) modify the coordinate system in which they are displayed and (5) to know the current zoom level and map scale.



GEOLOCATION TOOL

The geolocation tool shows your geographic position on the map (blue dot) and centres the map on your actual position. The tool can be activated (1) by using the slider or (2) by clicking on the geolocation icon located at the bottom right of the map.



You can also activate position tracking on the map (3). The map will stay centred on your position while you move, for example in a vehicle.

Download

The *Forêt ouverte* interface offers a few ways to download the data for free.

DOWNLOAD LAYERS

The first way consists of choosing the “Téléchargement” map theme. You will then find in “Map” several download layers, e.g., “Téléchargement - Données écoforestières”, “Téléchargement - LiDAR (pleine résolution)”, and “Téléchargement - Cartes écoforestières PDF”. Note that these layers can also be added to another map theme using the “Catalog” or “Search” bar to avoid “losing” your map project when changing map themes.

Downloading using these layers is performed with a cartographic index, at a scale of 1:20,000 for PDF maps and LiDAR products, and 1:250,000 for ecoforestry data. It is carried out by “unité d’aménagement (UA)”, by “agence de mise en valeur des forêts privées” or by “territoire forestier résiduel (TFR)” for the LiDAR dendrometric map; by “region administrative” for riparian ecotone from LiDAR and by “unité de drainage hydrique (UDH)” for potential flow bed from LiDAR.

Téléchargement - Données écoforestières

☐ Limite des feuillet

Téléchargement - LiDAR (pleine résolution)

☐ MNT, MHC, relief ombré, pentes et TWI
☐ MNT, MHC, relief ombré et pentes

Téléchargement - Carte dendrométrique LiDAR

☐ UA
☐ Agence
☐ TFR

Téléchargement - Lits d'écoulements potentiels LiDAR

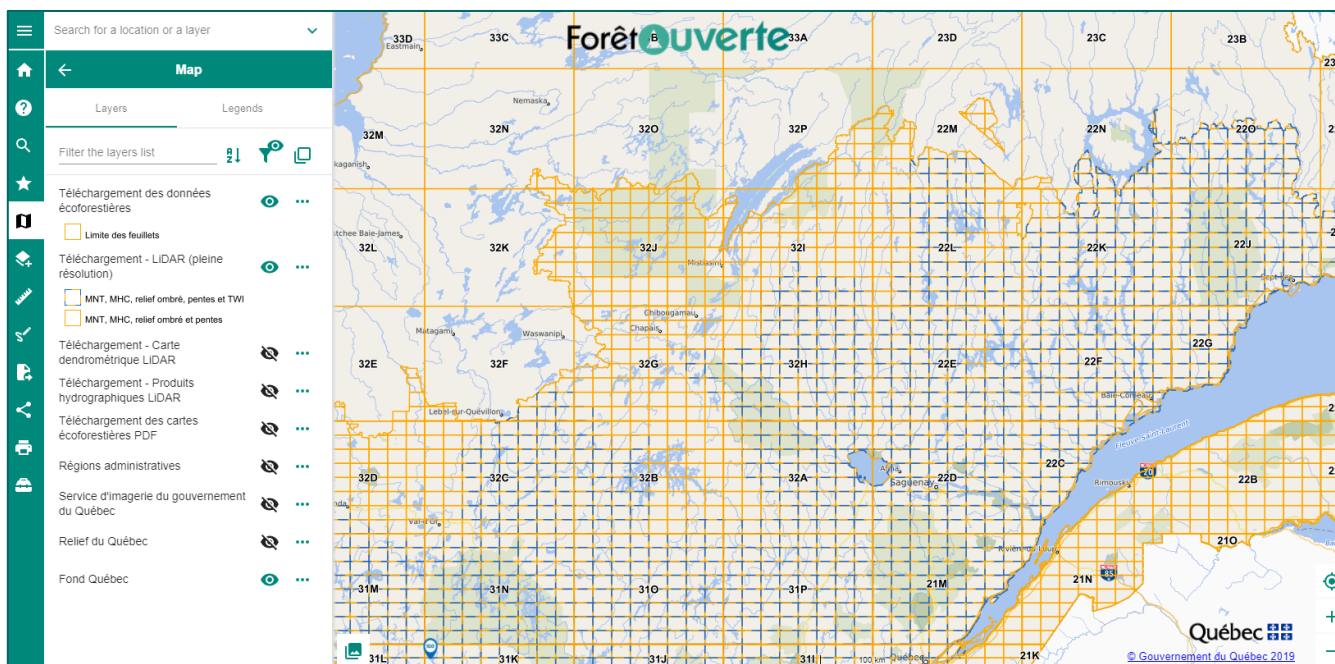
Unité de drainage hydrique
☐ Disponible en visualisation
☐ Téléchargement seulement

Téléchargement - Écotones riverains LiDAR

☐ Région administrative

Téléchargement - Cartes écoforestières PDF

☐ Limite des feuillet



When you click on a map sheet or area associated to the layer of the desired data, for example the 1:250 000 - 32A map sheet of the “Téléchargement des données écoforestières” index layer, a window will appear with a list of available products to download for this map sheet.

32G

32H

22E

32B

32A

Saguenay

22D

31O

31P

21M

Téléchargement - Données écoforestières

Feuille 1 / 250 000 - 32A

Données disponibles

Répertoire données

Carte écoforestière originale et résultats d'inventaire

ACCÉDER

Carte écoforestière à jour

ACCÉDER

Régime de feux

ACCÉDER

Feux de forêt

ACCÉDER

Récolte et autres interventions sylvicoles

ACCÉDER

Click on the **ACCÉDER** button to download the product of your choice. You will then be redirected to an https site where you can download the desired folder.

diffusion.mffp.gouv.qc.ca - /Diffusion/DonneeGratuite/Foret/DONNEES_FOR_ECO_SUD/Resultats_

[To Parent Directory]

2024-06-25

14:53

763867549

PRODUITS_IEOM_32A_10.zip

2024-06-25

15:07

1118678543

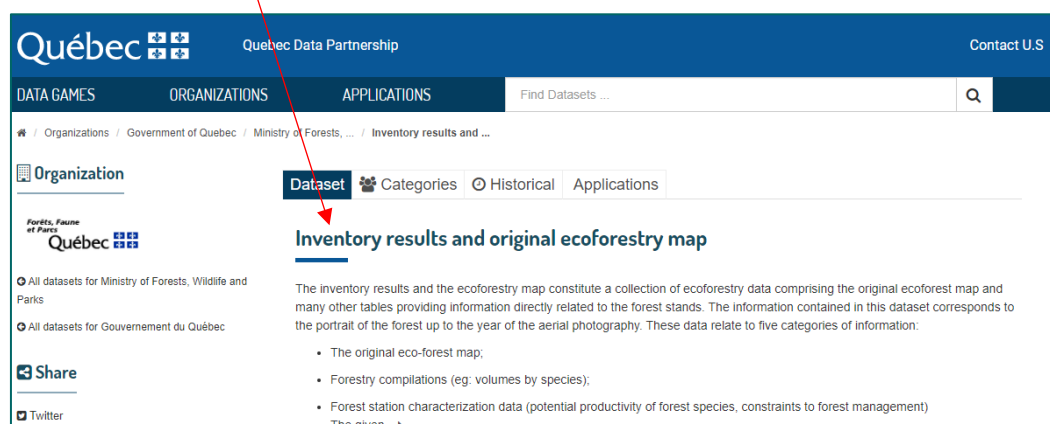
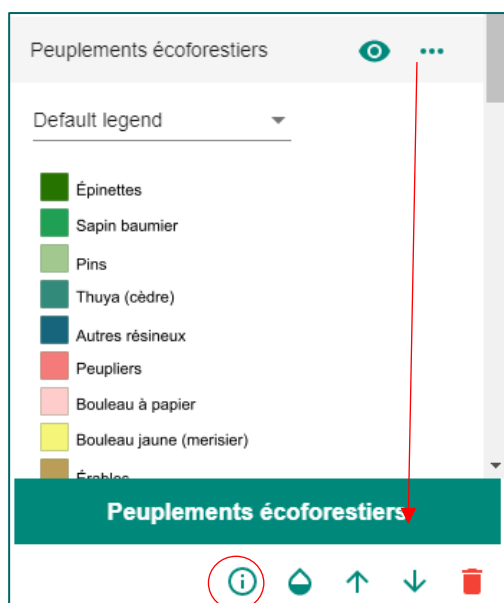
PRODUITS_IEOM_32A_GPKG.zip

Ministère des Ressources naturelles et des Forêts

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DONNÉES QUÉBEC

The second way to download data is to click on the  icon of the desired layer in the “Map”. This button acts as a link to Données Québec’s data factsheet, where you can access different types of downloadable data (.shp, .csv, .gdb, .gpkg, .jp2, .ecw, etc.) as well as complementary documents (metadata, normative files, planning indexes, etc.).



CSV and SHP files are available to see the download links of individual map sheets, corresponding to the download layer in *Forêt ouverte*. Click the arrow on the “Explorer” button to download a file.



ACCESS THE DATA DIRECTORY

You can access all available data by clicking on “Access the data directory” in the “Further information” section of a Données Québec data factsheet. The data is generally presented by map sheet, therefore, you must know in which map sheet you wish to find your data.

Dataset description sheet	
Organization	Ministry of Forests, Wildlife and Parks
Categories	Environment, natural resources and energy
Labels	Agency Wood characterization Ecological classification Forest compilation DIF Forest inventory department Forest Ecoforest inventory Integrated product Inventory result Forest station UA Volume
Licence	 Attribution (CC-BY 4.0)
Responsible	Forestry Sector-Direction of Forest Inventories (DIF)
E-mail	services.clientele@mffp.gouv.qc.ca
Update frequency	Annual
Geographic coverage	Other
Temporal coverage	1998-01-01/2016-01-01
Further information	Since 2014, all work processes supporting the production of this dataset have been certified according to ISO 9001:2015. Metadata: Geodetic reference system: NAD 1983 Quebec Lambert Map projection: Lambert conformal conic - EPSG: 32198 Access the data directory
Source (URL)	http://mffp.gouv.qc.ca/les-forets/inventory-ecoforestier/

← → ↺ 🏠 diffusion.mffp.gouv.qc.ca/Diffusion/DonneeGratuite/Foret/DONNEES_FOR_ECO_SUD/Resultats_inventaire_et_carte_ecofo	
diffusion.mffp.gouv.qc.ca - /Diffusion/DonneeGratuite/Foret/DONNEES_FOR_ECO_SUD/Resultats_inventaire_et_carte_ecofo	
[To Parent Directory]	
9/23/2021 6:09 AM	<dir> 1-Documentation
6/28/2021 7:00 AM	<dir> 11M
6/28/2021 7:00 AM	<dir> 11N
6/28/2021 7:00 AM	<dir> 12E
6/28/2021 7:00 AM	<dir> 12F
6/28/2021 7:00 AM	<dir> 12K
6/28/2021 7:01 AM	<dir> 12L

To download more than one database at a time, for example several map sheets, use an FTP client such as FileZilla to access the FTPS server (<https://transfert.mffp.gouv.qc.ca/Diffusion/Foret/>). Consult the following document to learn more: “[Téléchargement de données – méthode rapide de téléchargement](#)” (French only).

Appendix 1: List of Catalog Layers

Catalogues, groupes et couches
Forêt et écologie
Accroissement potentiel par essence
• BOJ, accroissement potentiel (cm²/ti/an) • ERR, accroissement potentiel (cm²/ti/an) • ERS, accroissement potentiel (cm²/ti/an)
Aire de répartition des arbres du Québec
• 49 essences disponibles
Biomasse et carbone forestiers
• Biomasse des arbres vivants • Carbone des arbres vivants
Classification écologique du territoire québécois
• District écologique • Domaine bioclimatique • Étage de végétation • Région écologique • Sous-domaine bioclimatique • Sous-région écologique • Sous-zone de végétation • Unité de paysage régional • Végétation potentielle de la carte écoforestière • Zone de végétation
Contraintes liées au milieu physique
• Contrainte de sol mince • Contrainte de solidité du sol • Contrainte de rugosité • Contrainte d'orniérage • Contrainte d'érosion du sol • Contrainte d'appauvrissement des sols par la récolte
Couches écoforestières du Nord québécois
• Dépôts de surface de l'inventaire écoforestier nordique (PIEN) • Dépôt de surface du Nord québécois • Distribution du pergélisol • Inventaire écoforestier nordique (empreinte dépôts) • Inventaire écoforestier nordique (empreinte végétation) • Photographies obliques • Susceptibilité aux affaissements du sol liés au dégel du pergélisol • Végétation de l'inventaire écoforestier nordique (PIEN) • Végétation du Nord québécois

Dépôt de surface
Dépôt de surface de la carte écoforestière
Hauteur potentielle par essence
- BOP, hauteur potentielle à 50 ans - EPB, hauteur potentielle à 50 ans - EPN, hauteur potentielle à 50 ans - EPR, hauteur potentielle à 50 ans - PET, hauteur potentielle à 50 ans - PIB, hauteur potentielle à 50 ans - PIG, hauteur potentielle à 50 ans - SAB, hauteur potentielle à 50 ans - THO, hauteur potentielle à 50 ans
Index et téléchargement
- Téléchargement – Carte écoforestière PDF - Téléchargement – Données écoforestières - Disponibilité de la carte écoforestière du 5e inventaire
Peuplement écoforestier
Peuplement écoforestier
Propriétés du bois, par essence
- BOP, densité (kg/m³) - BOP, rigidité (GPa) - EPB, densité (kg/m³) - EPB, rigidité (GPa) - EPN, densité (kg/m³) - EPN, rigidité (GPa) - PET, densité (kg/m³) - PET, rigidité (GPa) - PIG, densité (kg/m³) - PIG, rigidité (GPa) - SAB, densité (kg/m³) - SAB, rigidité (GPa)
Sondage terrestre
- Placette temporaire 2^e inventaire - Placette temporaire 3^e inventaire - Placette temporaire 4^e inventaire - Unité de sondage 4e inventaire - Placette temporaire 5^e inventaire - Unité de sondage 5^e inventaire - Point d'observation écologique

Volume forestier
• Volume marchand brut (7 m et +)
Perturbations forestières
Feux de forêt
• Régimes de forêt
• Potentiel d'intensité et de propagation des feux de forêt
• Feux de forêt anciens (avant 1976)
• Feux de forêt (historique)
• Feux de forêt de 1977 à 2024
Feux de forêt - Mesures préventives
• Interdiction de faire des feux à ciel ouvert (IFCO)
• Restriction de travaux en forêt (RTF)
• Interdiction de circuler et d'accéder en forêt (ICAF)
Épidémies, chablis et verglas
• Épidémies, chablis et verglas anciens (avant 1976)
• Épidémies, chablis et verglas (historique)
• Épidémies, chablis et verglas de 1977 à 2024
Récolte et autres interventions sylvicoles annuelles
• Récolte et autres interventions sylvicoles anciennes (avant 1976)
• Récolte et autres interventions sylvicoles récentes (historique)
• Récolte et autres interventions sylvicoles récentes 1977 à 2024
Infrastructures en milieu forestier
• Infrastructures en milieu forestier
Changement du couvert forestier détecté par imagerie satellitaire
• Changement du couvert forestier détecté par imagerie satellitaire
TBE - Défoliation annuelle 2025
• Défoliation annuelle 2025 (1:5M)
• Défoliation annuelle 2025 (1:1M)
• Défoliation annuelle 2025 (échelle rapprochée)
TBE - Défoliation annuelle 2024
• Défoliation annuelle 2024 (1:5M)
• Défoliation annuelle 2024 (1:1M)
• Défoliation annuelle 2024 (échelle rapprochée)
TBE - Défoliation cumulative
• Défoliation cumulative grave
• Défoliation cumulative grave (échelle rapprochée)
• Défoliation cumulative
• Défoliation cumulative (échelle rapprochée)
TBE - Historique
• Fréquence des épidémies

TBE - Prévision des populations
• Prévision des populations 2024
• Prévision des populations (année courante)
TBE - Vulnérabilité des peuplements
• Vulnérabilité (1:1M)
• Vulnérabilité (1:500K)
• Vulnérabilité (1:250K)
• Vulnérabilité (échelle rapprochée)
Territoire
Découpages administratifs
• Agglomération
• Arrondissement
• Communauté métropolitaine
• Municipalité
• Municipalité régionale de comté
• Région administrative
Découpages cartographiques
• Feuille 1/20 000
• Feuille 1/250 000
• Fuseau MTM
• Fuseau UTM
STF - Aires protégées - MRNF
• Écosystème forestier exceptionnel - Point
• Écosystème forestier exceptionnel classé
• Projet de refuge biologique
• Refuge biologique - Point
• Refuge biologique désigné
STF - Limites et territoires forestiers du domaine public
• Aire d'intensification de la production ligneuse
• Bureau unité de gestion – UG
• Certification forestière
• Forêt enseignement et recherche
• Forêt enseignement et recherche – Point
• Forêt expérimentation
• Forêt expérimentation – Point
• Limite territoriale des forêts attribuables
• Région de garantie approvisionnement 1/1 000 000
• Région de garantie approvisionnement 1/20 000
• Unité aménagement 1/1 000 000
• Unité aménagement 1/20 000

• Unité de gestion 1/1 000 000
• Unité de gestion 1/20 000
• Zone de tarification
STF - Limites territoriales forestières du domaine privé
• Agence régionale de mise en valeur des forêts privées 1/1 000 000
• Agence régionale de mise en valeur des forêts privées 1/20 000
• Conseiller forestier indépendant accrédité 1/1 000 000
• Conseiller forestier indépendant accrédité 1/20 000
• Groupement forestier 1/1 000 000
• Groupement forestier 1/20 000
• Propriété privée
• Syndicat et office de producteurs forestiers 1/1 000 000
• Syndicat et office de producteurs forestiers 1/20 000
STF - Subdivisions territoriales forestières amalgamées
• Autres terrains publics
• Conservation de la biodiversité
• Forêt de proximité – FP
• Forêt d'enseignement et de recherche
• Forêt expérimentation – FE
• Lacs et rivières importantes
• Pépinière publique forestière – PPU
• Station forestière Duchesnay
• Terres privées
• Territoires autochtones
• Territoires forestiers résiduels – TFR
• Unité aménagement – UA
STF - Terrain forestier par domanialité
• Forêt privée 1/1 000 000
• Forêt privée 1/20 000
• Forêt publique fédérale 1/1 000 000
• Forêt publique fédérale 1/20 000
• Forêt publique provinciale 1/1 000 000
• Forêt publique provinciale 1/20 000
STF - Territoires forestiers publics sous droits consentis
• Convention de gestion territoriale – CGT
• Entente de délégation – ED
• Forêt enseignement et de recherche – FER
• Garantie approvisionnement – GA
• PRAU de bois marchand – PR
• PRBIO pour PRAU de biomasse forestière – PRBIO

• Station forestière
• Terres de catégorie 1 – TC1
Zones agricoles (CPTAQ)
• Zone agricole limite
• Zone agricole max.
• Zone agricole min.
Biodiversité
Milieu naturel et biodiversité
• Espèces exotiques envahissantes
Cadre écologique de référence
• Niveau 5 - Ensembles topographiques
• Niveau 4 - Districts écologiques
• Niveau 3 - Ensembles physiographiques
• Niveau 2 - Régions naturelles
• Niveau 1 - Provinces naturelles
Aires protégées (MELCCFP)
• Territoires d'importance pour la conservation
• Ensemble des aires protégées
Aires protégées (MRNF)
• Écosystème forestier exceptionnel – Point
• Écosystème forestier exceptionnel classé
• Projet de refuge biologique
• Refuge biologique – Point
• Refuge biologique désigné
Hydrographie
Réseau hydrographique du Québec (GRHQ)
• Sens d'écoulement des cours d'eau
• Cours d'eau intermittents (rivières, ruisseaux, etc.)
• Cours d'eau permanents (fleuve, lacs, rivières, ruisseaux, etc.)
• Plans d'eau (fleuve, lacs, rivières, réservoirs, etc.)
Hydrographie forestière (IEQM)
• Hydrographie surfacique forestière
Milieus humides potentiels (MELCCFP)
• Milieus humides potentiels
Milieus humides (CIC)
• Milieus humides 2022
Produits dérivés hydrographiques (lidar)
• Écotone riverain issu du lidar
• Indice d'humidité topographique lidar
• Lit d'écoulement potentiel lidar

Bassins hydrographiques
• Bassins résiduels 20k et 50k
• Bassins hydrographiques 20k et 50k niveau 8
• Bassins hydrographiques 20k et 50k niveau 7
• Bassins hydrographiques 20k et 50k niveau 6
• Bassins hydrographiques 20k et 50k niveau 5
• Bassins hydrographiques 20k et 50k niveau 4
• Bassins hydrographiques 20k et 50k niveau 3
• Bassins hydrographiques 20k et 50k niveau 2
• Bassins hydrographiques 20k et 50k niveau 1
Base de données sur les zones inondables
• Limites des feuillets cartographiques des zones inondables
• Localisation des études de zones inondables
• Polygones de zones inondables
• Limites des plaines inondables
Imagerie
Téléchargement - mosaïques d'images satellites
• Téléchargement – Données écoforestières
Mosaïques d'images satellites
• Mosaïque Landsat 1986
• Mosaïque Landsat 2011 à 2021
• Mosaïque Sentinel 2021 à 2024
Téléchargement - Imagerie aérienne de l'inventaire écoforestier et acquisition récente
• Index plus récent
• Index historique (orthophotos)
• Index historique (orthomosaïques)
Imagerie aérienne du gouvernement du Québec
• Index_Imagerie_GQ
• Imagerie_GQ
Imagerie aérienne de planification, suivis et contrôles historiques
• Index Planification Suivi contrôle Historique
• 2004 à 2023_Planif_Suiv_Cont
Lidar
Index et téléchargement
• Téléchargement – Lidar (pleine résolution)
• Téléchargement – Carte dendrométrique lidar
• Année d'acquisition du lidar
• Disponibilité des produits dérivés issus du lidar
• Disponibilité de la carte dendrométrique lidar
• Téléchargement – Produits dérivés hydrographiques lidar

Produits dérivés du lidar
• Classe de pente polygonale issue du lidar
• Courbe de niveau à intervalle de 1m
• Courbe de niveau à intervalle de 5m
• Courbe de niveau à intervalle de 10m
• Hauteur de canopée lidar (dégradé)
• Modèle numérique de terrain lidar (dégradé)
• Pente lidar (dégradé)
• Relief ombré lidar (dégradé)
Produits dérivés hydrographiques issus du lidar
• Écotone riverain issu du lidar
• Lit d'écoulement potentiel lidar
• Indice d'humidité topographie lidar (dégradé)
Téléchargement – Données lidar (nuage de points)
• Index plus récent
• Index historique
Faune
Gestion de la faune et des habitats
• Chasse interdite
• Habitats fauniques
• Station de nettoyage des embarcations
• Espèces exotiques envahissantes
• Territoires fauniques structurés
• Unités de gestion des animaux à fourrure
• Zones et parties de zones de chasse
Protection de la faune
• Bureaux de la Protection de la faune du Québec
• Districts de la Protection de la faune
Réseaux de transport (AQRéseau+)
<i>Catalogue non décrit</i>
Information géominière (SIGEOM)
<i>Catalogue non décrit</i>
Couches de base (non disponibles dans le catalogue)
Cadastre du Québec
Relief du Québec

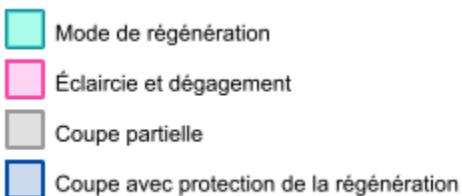
Appendix 2: Value of Grouped Fields in Legends of Certain Layers¹

PEUPLEMENTS ÉCOFORESTIERS - COULEURS

Épinettes	Épinettes	EB, EN, EP, EU, EV, RE, EE, EF, EM
Sapin baumier	Sapin baumier	SB, SE, SC, SS, SF, SM, SP
Pins	Pins	PB, PG, PI, PR, PS, PC
Thuya occidental (cèdre)	Thuya (cèdre)	TO, CE
Autres résineux	Autres résineux	ME, MH, MJ, ML, MR, PU, RB, RF, RM, RP, RS, RX, RZ,
Peupliers	Peupliers	PA, PD, PE, PH, PO, PT
Bouleau à papier	Bouleau à papier	BB, BG, BP
Bouleau jaune (merisier)	Bouleau jaune	BJ
Érables	Érables	EA, EI, EO, ER, ES
Hêtre à grandes feuilles, chênes, frênes	Autres feuillus	FH, FI, FN, FX, FZ, MF, FO, FP, FR FT, CC, NN, OA, OR, TA, FA, HG, CB, CH, CR
Autres feuillus	Autres terrains forestiers	PL, CPI_RL_F, CPPTM_U, CPHRS, CPPTM_DIS, CPRS_BA, BR, CBA, CBT, CDV, CEF, CHT, CPE, CPH, CPR, CPT, CRB, CRR, CRS, CT, DT, ENS, ETR, P, PLR, PRR, REA, RPS, VER, RIA, CPR_U-F, CPRS_U, RECUP_C-T
Terrain forestier improductif	Terrain forestier improductif	AL, DH, DS, IMP
Terrain non forestier	Terrain non forestier	A, AF, ANT, AEP, AER, AUT, BAS, BAT, BHE, CAM, CAR, CFO, CHE, CS, CU, DEF, DEM, DEP, ESG, FRI, GOL, GR, HAB, INC, INO, LTE, MI, MX, NF, NX, QUA, RO, TNP, TOE, US, VIL, VRG, RRG, ENR, DL, EPC_SYS, CP, EL, BRP, ENP, CHP

¹ For the meaning of each code, refer to the following document: [Cartographie du cinquième inventaire écoforestier du Québec méridional \(French only\)](#).

RÉCOLTE ET AUTRES INTERVENTIONS SYLVICOLES

	Mode de régénération	CON, ENM, ENR, ENP, ENS, P, PLB, PLN, PLR, PRR, RIA, RR, RRG, RRN, RRP, RRR, REA, FR
	Éclaircie et dégagement	DEG, DRC, DRM, EPC, EPR
	Coupe partielle	CA, CAM, CB, CBT, CD, CDL, CE, CEA, CIP, CJ, CJP, CJT, CJD, CP, CPI, CPS, CPF, CPM, CPC, CTR, EC, ECE, ECL, ESI, PCP, PSP, PTA
	Coupe avec protection de la régénération	CPE, CPH, CPR, CPT, CDV, CRS, CEF, CRB, CS, CBA, CIF, CT, DLD, ETR, CRR, RBV, RPS

INFRASTRUCTURES EN MILIEU FORESTIER

	Aire d'empilement et d'ébranchage	AEP
	Camp forestier	CFO
	Dépotoir	DEP
	Gravière	GR
	Ligne de transport d'énergie	LTE
	Milieu perturbé par l'activité humaine	NF, ANT
	Terrain agricole	AF, A
	Emprise de chemin	RO

VÉGÉTATIONS POTENTIELLES

VÉGÉTATIONS POTENTIELLES FEUILLUES Érablière à caryer cordiforme Érablière à tilleul Érablière à bouleau jaune ou hêtre Érablière à ostryer ou chêne rouge Autres végétations potentielles feuillues VÉGÉTATIONS POTENTIELLES MÉLANGÉES Bétulaie jaune à sapin ou sapinière à bouleau jaune Sapinière à bouleau à papier Autres végétations potentielles mélangées VÉGÉTATIONS POTENTIELLES RÉSINEUSES Sapinière à épinette noire Pessière noire à mousses ou à éricacées Pessière noire à lichens Végétations potentielles de milieu hydrique Autres végétations potentielles TOURBIÈRE, MARAIS ou MARÉCAGE ARBUSTIF VÉGÉTATIONS POTENTIELLES D'ALTITUDE VÉGÉTATIONS POTENTIELLES MARITIMES AUTRES VÉGÉTATIONS POTENTIELLES	Érablière à caryer cordiforme	FE1
	Érablière à tilleul	FE2
	Érablière à bouleau jaune ou hêtre	FE3 ou FE4
	Érablière à ostryer ou chêne rouge	FE5 ou FE6
	Autres végétations potentielles feuillues	FO1 ou FC1
	Bétulaie jaune à sapin ou sapinière à bouleau jaune	MJ1, MJ2 ou MS1
	Sapinière à bouleau à papier	MS2
	Autres végétations potentielles mélangées	MF1, MS6, ME1 ou MS3
	Sapinière à épinette noire	RS2
	Pessière noire à mousses ou à éricacées	RE2
	Pessière noire à lichens	RE1
	Végétations potentielles de milieu hydrique	RS3, RE3 ou RC3
	Autres végétations potentielles résineuses	RP1, RT1, RS1, RB1, RS5 ou RB5
	Tourbière, marais ou marécage arbustif	MA1, MA2, TOB, TOF, TO1 ou TOI
	Végétations potentielles d'altitude	MS4, RS4, RE4, RB4, RB3, RE8, TA1, TA2, LL1, LL2, LL3 ou LL4
	Végétations potentielles maritimes	LM1, LM2, LM3, LM4, MS7, RE7, RS7 ou RB2
	Autres végétations potentielles	LA1, LA2, LA3, LA4, LI1, RI1, SM1 ou SM2

Appendix 3: Bibliographic Reference of the Interactive Map

QUÉBEC. MINISTÈRE DES RESSOURCES NATURELLES ET DES FORÊTS. *Forêt ouverte*, [En ligne], 2019. [<https://www.foretouverte.gouv.qc.ca>] (Consulté le jj mois aaaa).

