



CarryMap

for Windows

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About application

CarryMap for Windows is an application for viewing and working with mobile maps on computers with OS Windows.

System requirements:

- Operation system: Microsoft Windows 8/10/11
- Requisite software: Microsoft .NET Framework 4.5.2+

Supported data formats: CMF2, CMF, MBTILES*, GPKG (GeoPackage), KML/KMZ, GPX, SHP

Supported types of online mapping services: ArcGIS Service, Web Map Service (WMS)

*Maps in MBTILES format with raster tile type only are supported.

Mobile maps in .CMF2 format are created with CarryMap Builder, an extension to ArcGIS for Desktop. Learn more about CarryMap Builder [here](#).

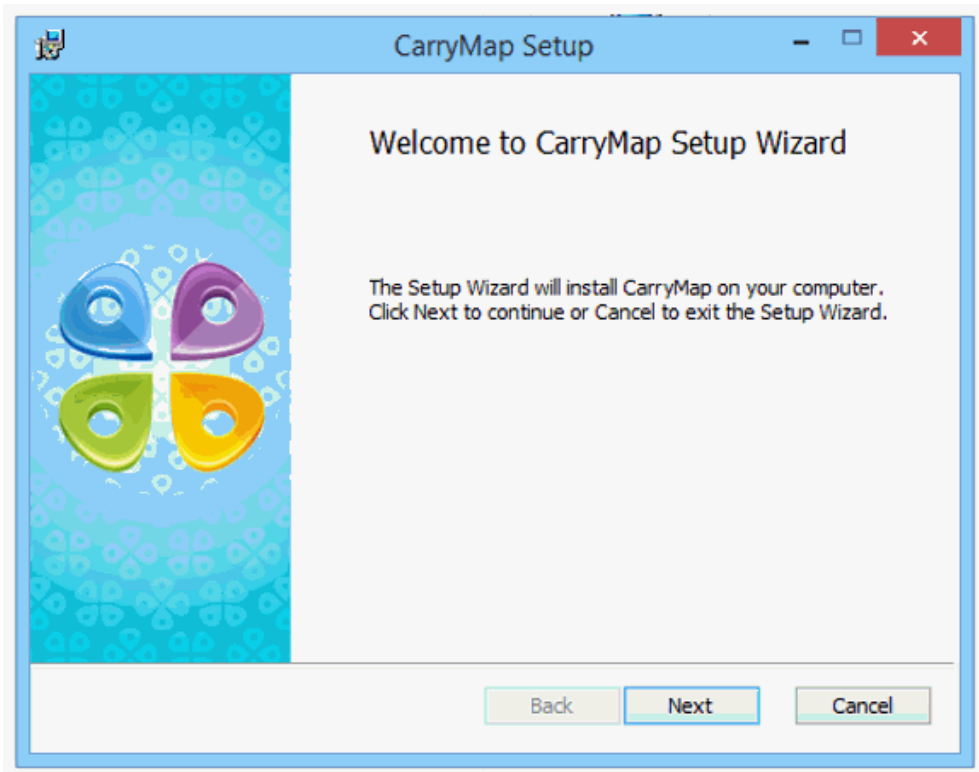
CarryMap app is also available for [Android](#) and [iOS](#) mobile devices.

Installation

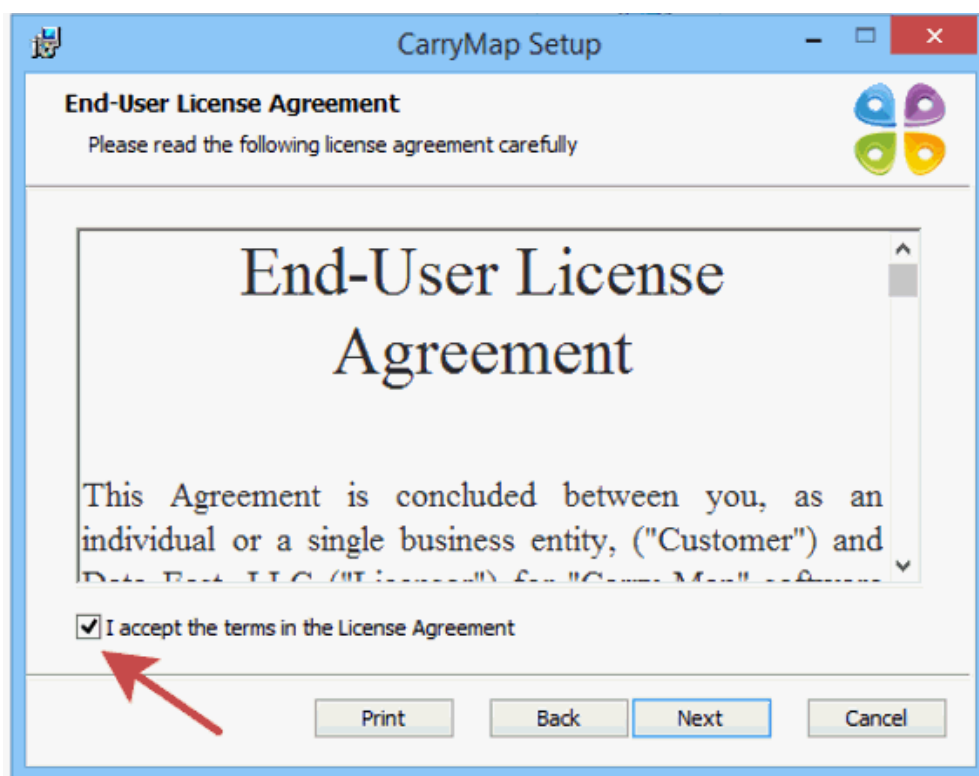
To install CarryMap for Windows, go to [link](#) and press *Download* button.



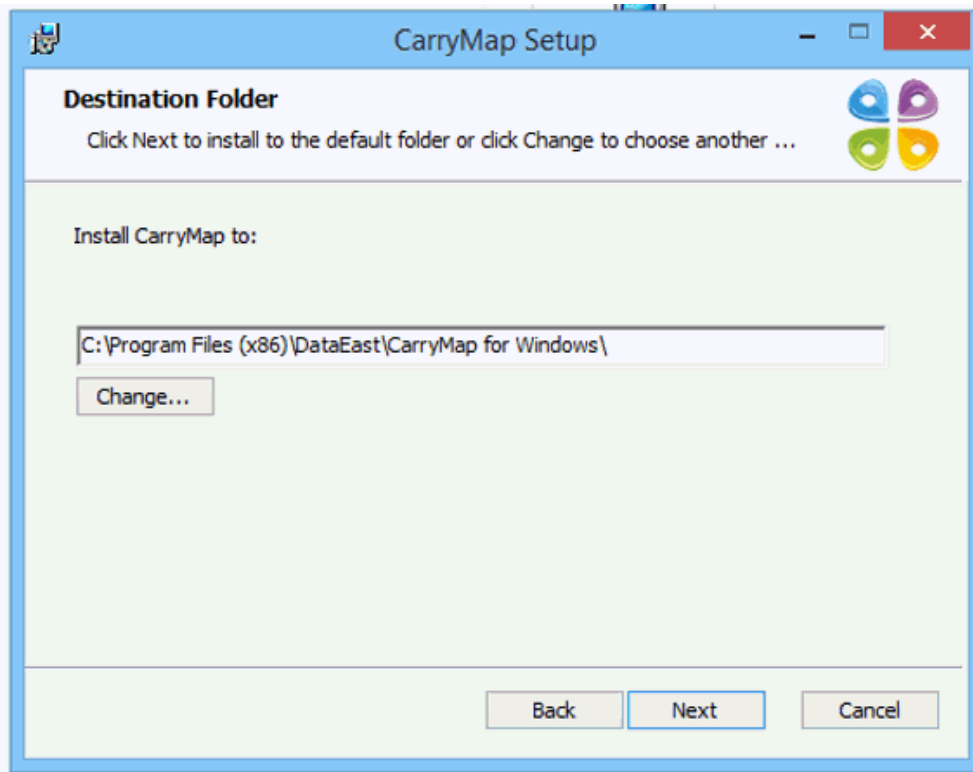
Run the setup file. Press *Next* in the appeared window.



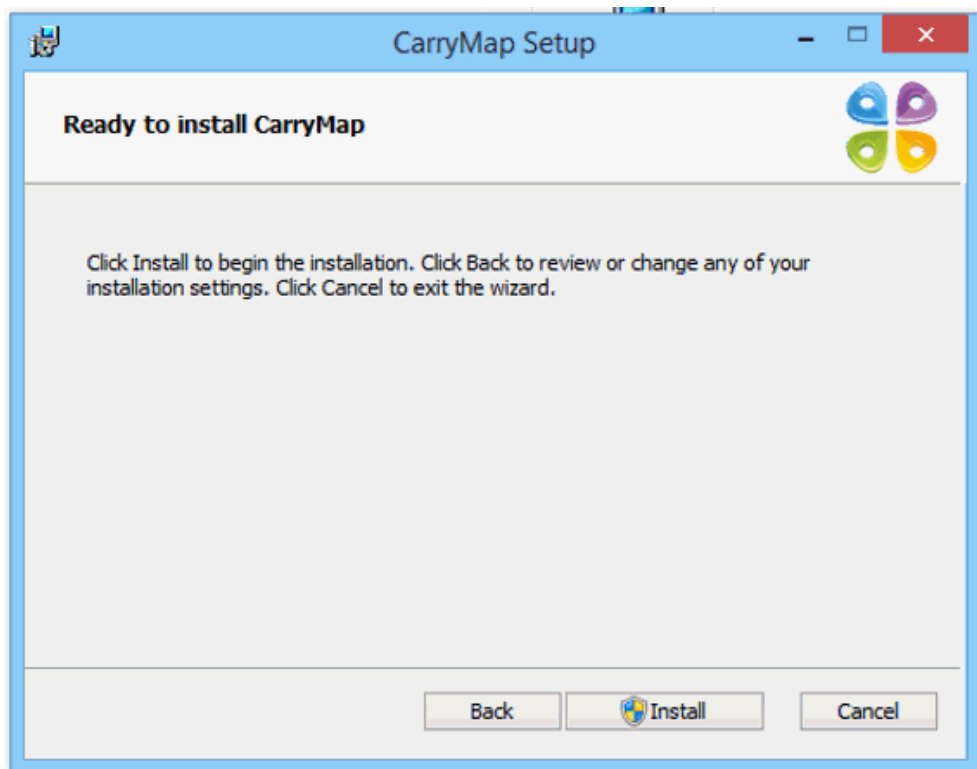
Read the End-user license agreement and check the box accepting its terms, press *Next*.



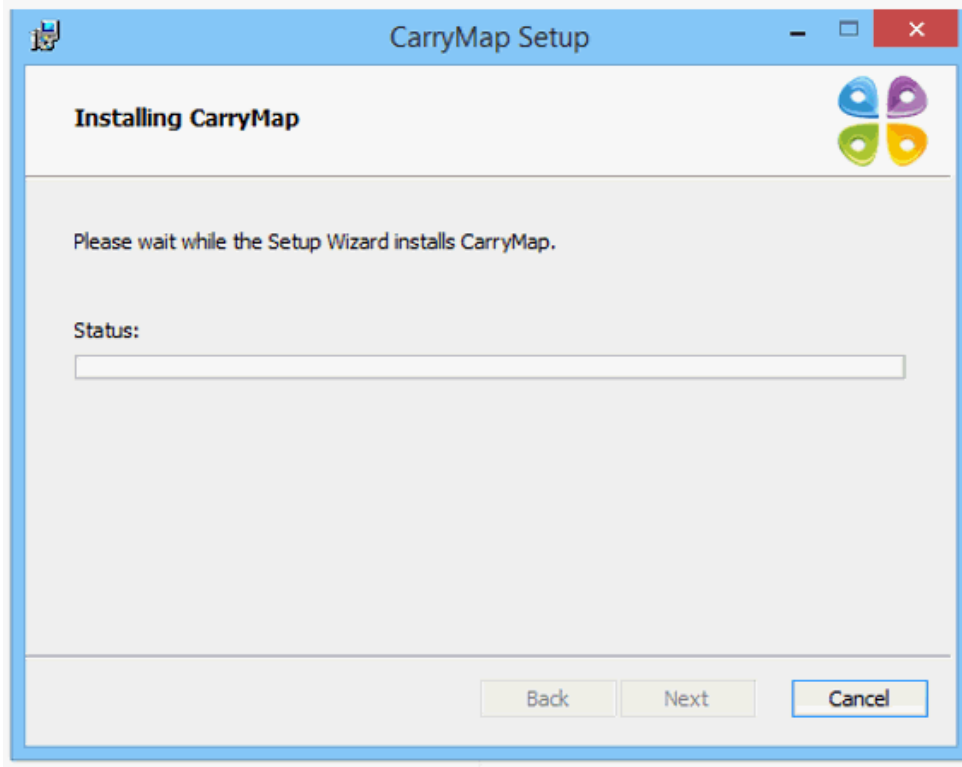
Specify the path to the CarryMap installation file and press *Next*.



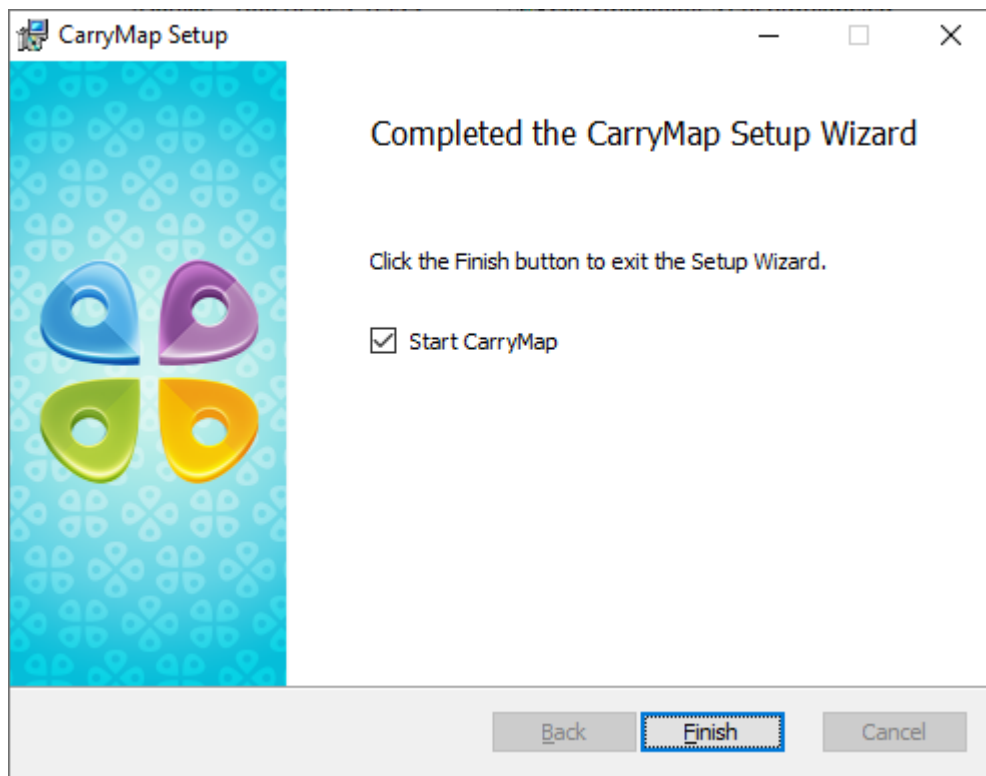
In the appeared window press *Install*.



The process will start.

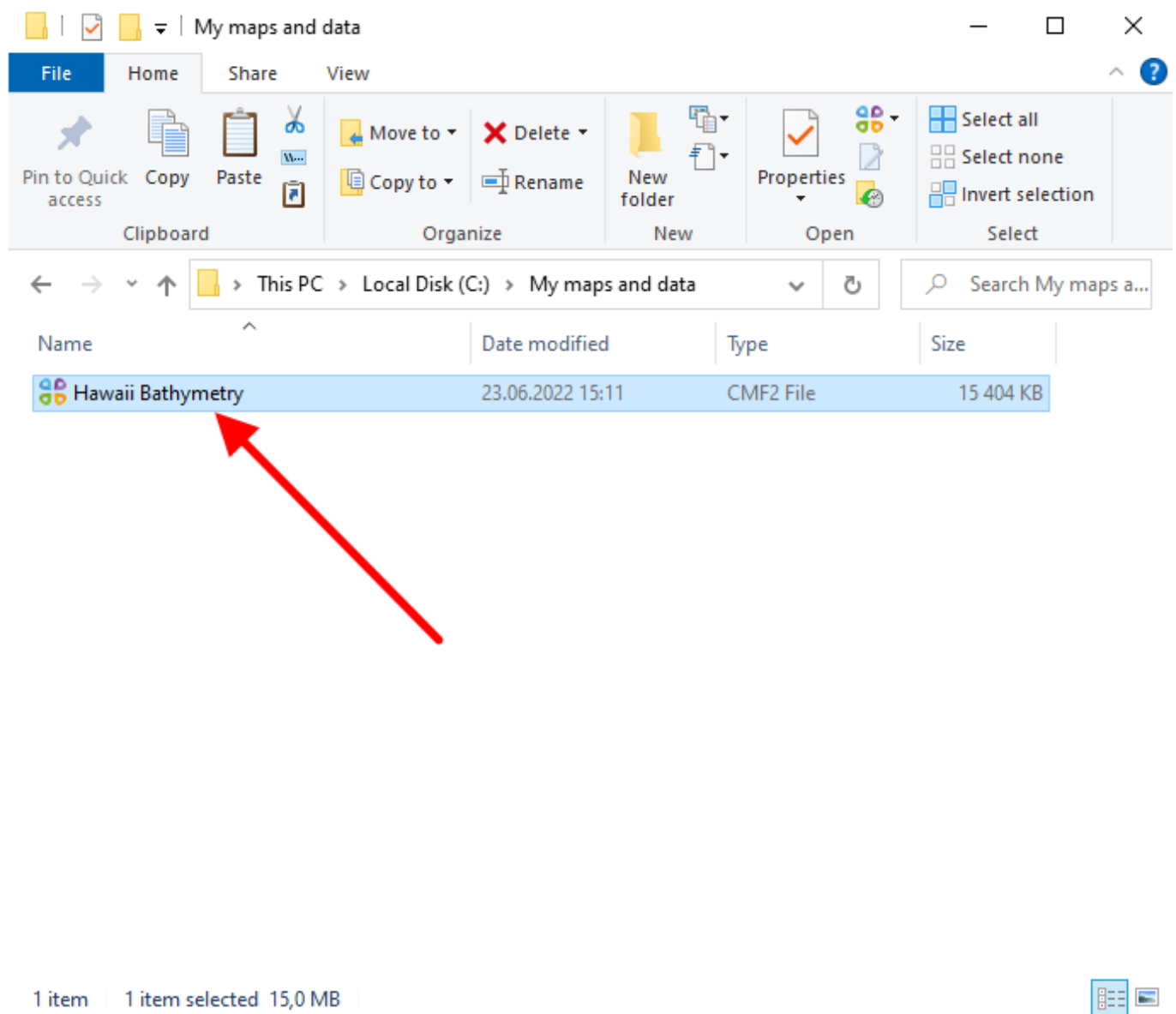


Upon installation completion, the window with appropriate message appears. In this window check the box to launch application after installing and press *Finish*.

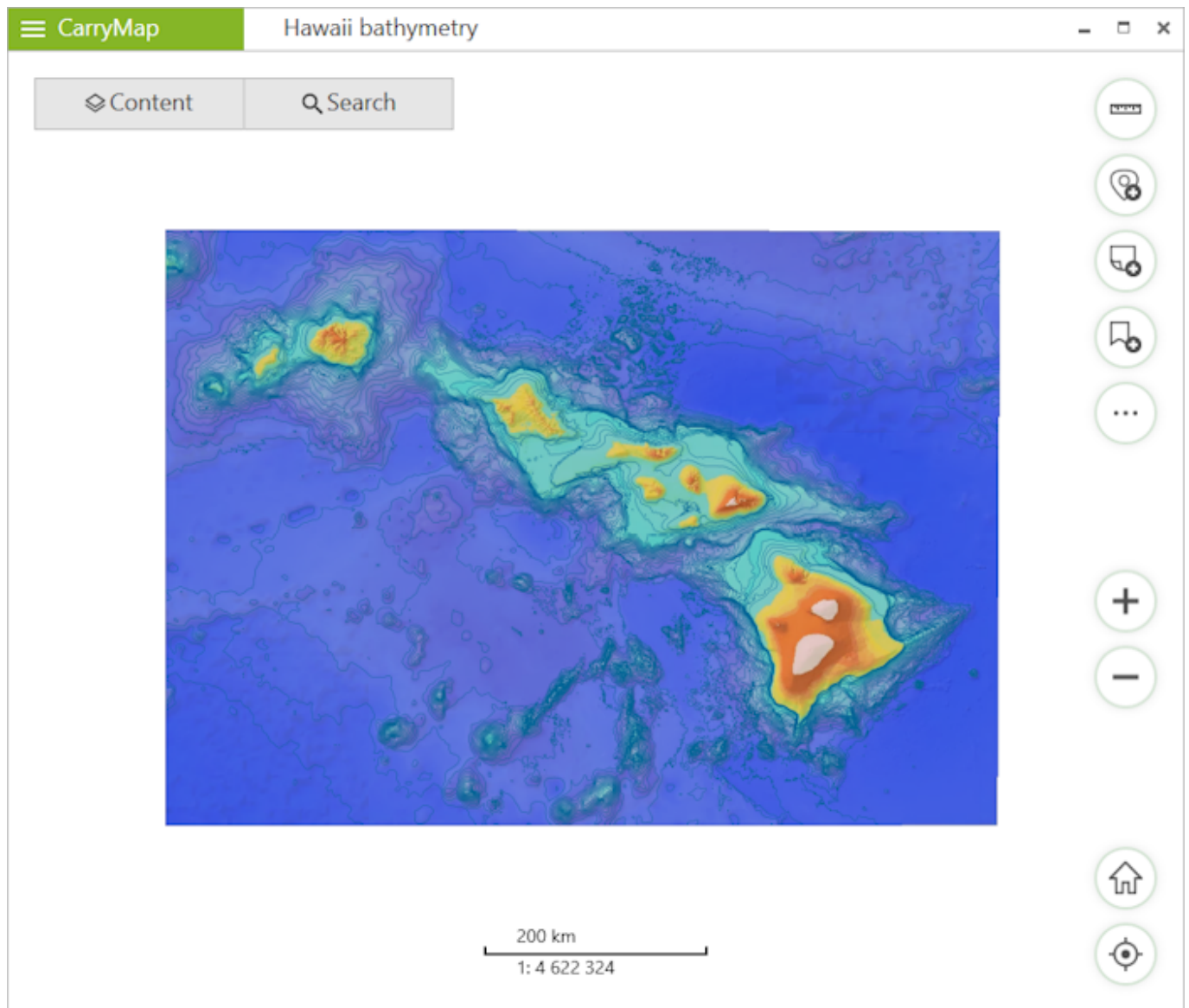


Opening mobile map

To open mobile map, double-click on the required .CMF2 or .MBTILES file in the explorer.











The map will be opened in CarryMap application.



Otherwise, run CarryMap via *Start* menu. In the appeared window select the needed mobile map or project, double-clicking on it.

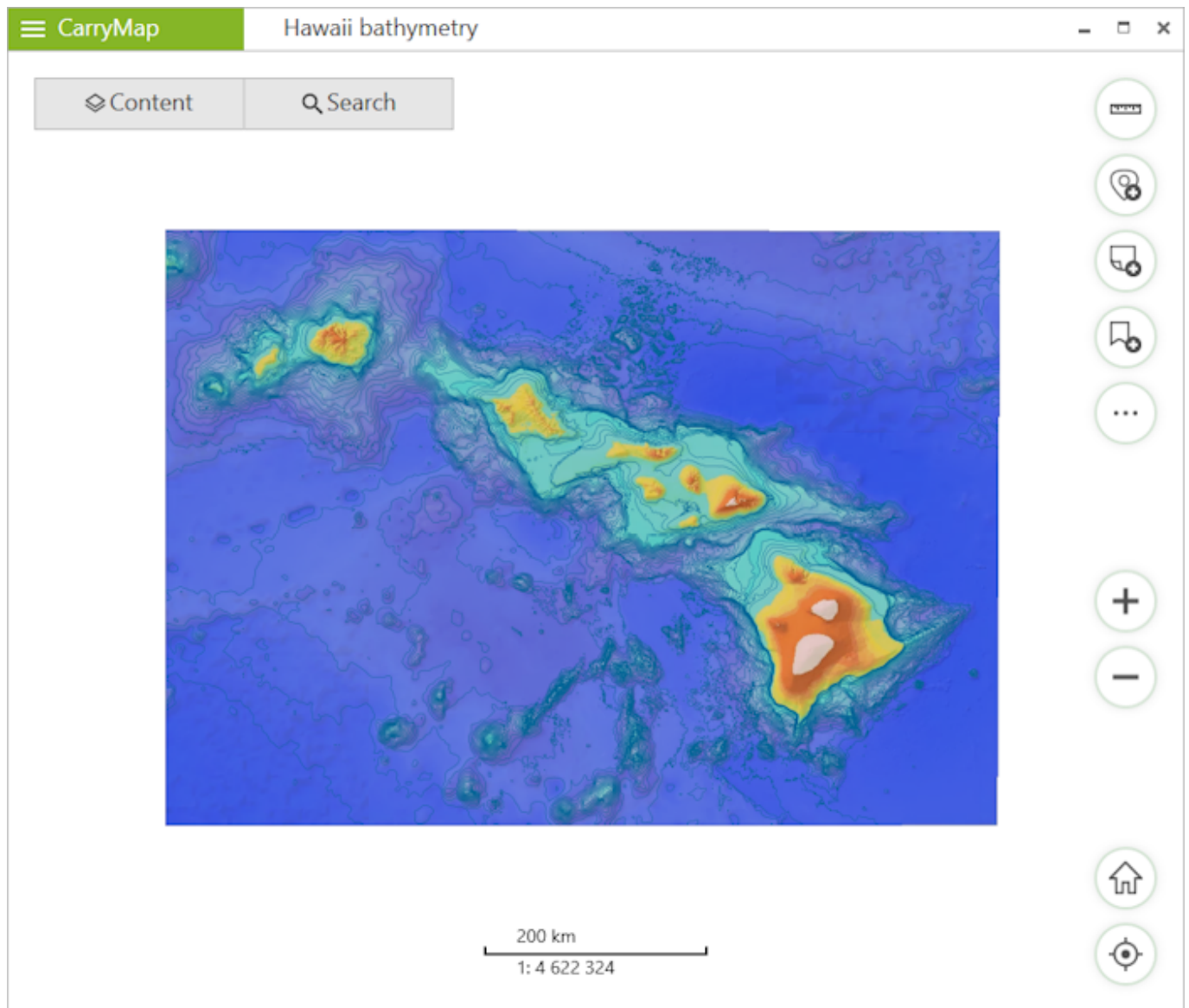
Open

Recent Projects

| Name | Size | Last opened |
|--|------------|-------------|
|  Hawaii Bathymetry.cmf2 \\storage\CarryMapGallery\Maps for outdoor activities\Hawaii Bathymetry.cmf2 | 15,042 MB | Today |
|  Project64 Contains 6 layer(s). World Map.cmf2, Point1, Polyline1, Polygon1, Info_point, OnePoi... | | Yesterday |
|  Vrangeli_Conic.cmf2 E:\WORK_2\MyWorkMaps_2\Кыталык и о-в Врангеля\Temp\Vrangeli_Conic.cmf2 | 2,925 MB | 26/05 |
|  Conservation areas of Russia.cmf2 \\storage\CarryMapGallery\Thematic maps\Conservation areas of Russia.cmf2 | 115,636 MB | 26/05 |
|  Map_from14122019.cmf2 \\storage\GeoTesting\CarryMap\Data\Desktop_test_cases_full\Открытие_карты_cm... | 20,574 MB | 26/05 |
|  Tahoe.cmf2 \\storage\CarryMapGallery\Maps for outdoor activities\Tahoe.cmf2 | 56,688 MB | 15/05 |
|  Owens Lake Area.cmf2 \\storage\CarryMapGallery\Maps for outdoor activities\Owens Lake Area.cmf2 | 74,533 MB | 15/05 |
|  Zion National Park.cmf2 \\storage\CarryMapGallery\Maps for outdoor activities\Zion National Park.cmf2 | 43,443 MB | 15/05 |

Browse

Selected map/project will be opened in CarryMap application.



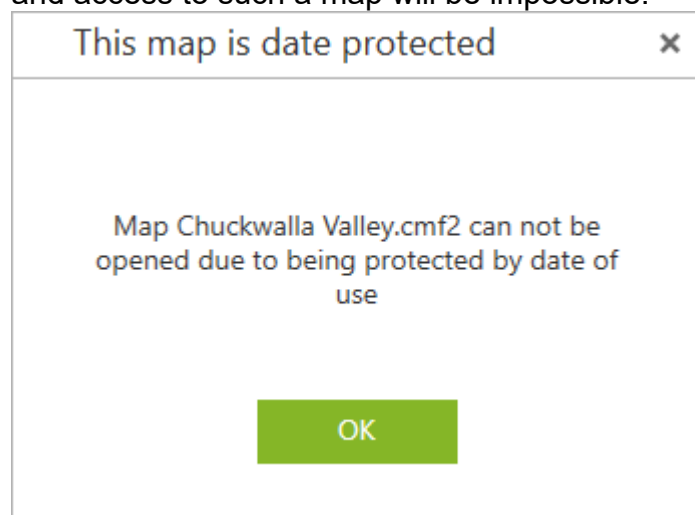
Note that CarryMap app does not allow viewing mobile maps in the old CMF format created with the previous generation of CarryMap 3x extension. That is why when trying to open such old map, the application will automatically convert it to the new CMF2 format.

Working with protected maps

Mobile maps can be accessed without restrictions only if the conditions for opening them correspond to the specified protection methods, otherwise access to the map will be impossible, and the appropriate notification will appear on the screen.

Protection by data of use

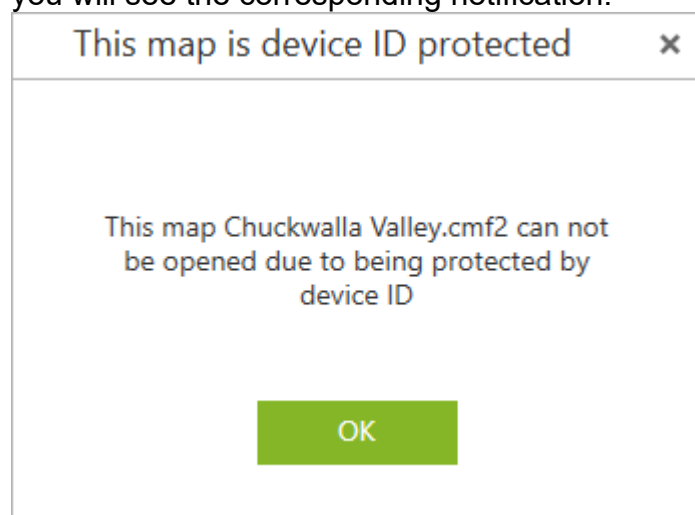
If the mobile map has expired when you try to open it, you will see the corresponding notification and access to such a map will be impossible.



Protection by device ID

The device ID is a specific number assigned to the device by CarryMap application. The ID of your device can be found in the [Application settings](#).

If access to the mobile map is blocked for the device, then when you try to open such a map, you will see the corresponding notification.



Protection by password

If access to the mobile map is protected by password, then when you try to open such a map, you will see the dialog asking to enter the password.

This map is password protected

Enter password to view map
Chuckwalla Valley.cmf2

Cancel

OK

Enter the password and press *OK*.

This map is password protected

Enter password to view map
Chuckwalla Valley.cmf2

...

Cancel

OK

The map will be opened in the application. If the password is incorrect, you will see the appropriate warning message.

This map is password protected

Enter password to view map
Chuckwalla Valley.cmf2

Incorrect password

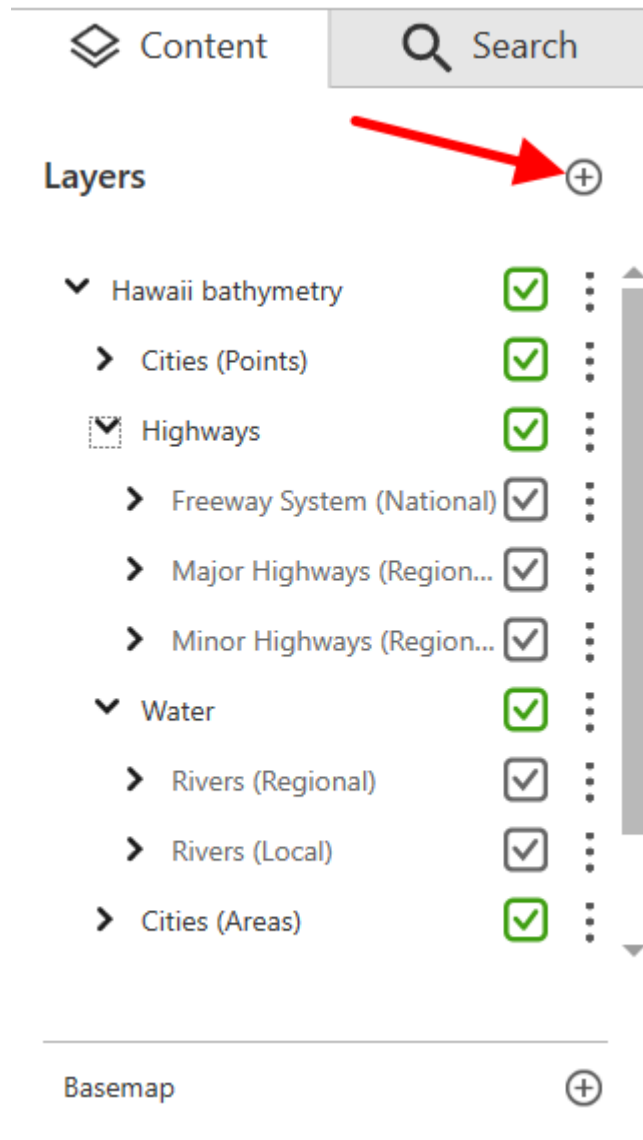
Cancel

OK

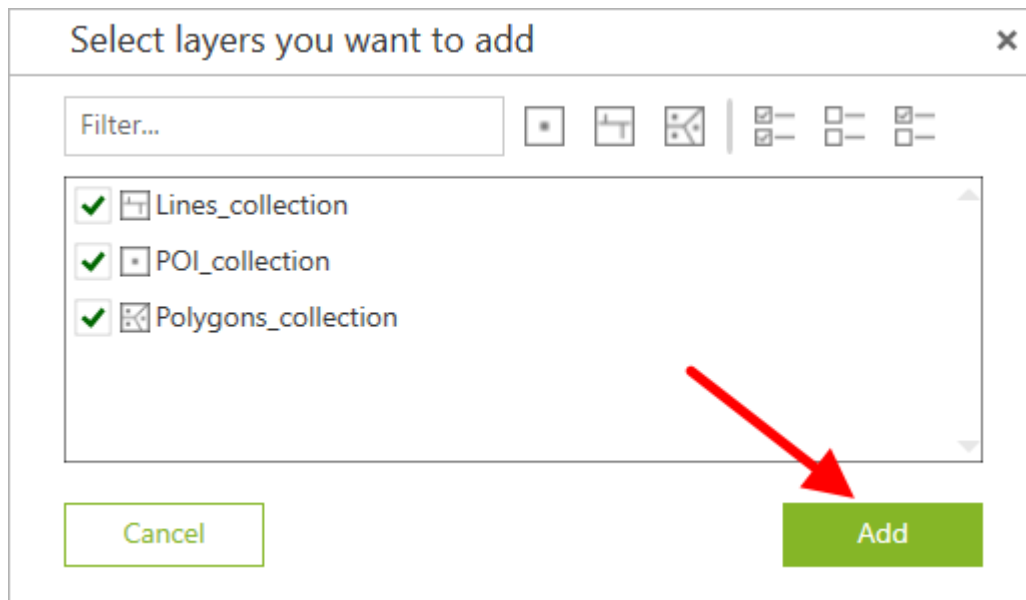
Adding data layers and maps to projects

In terms of CarryMap, projects are sets of maps, data layers, online basemaps and visibility settings. You can create projects by combining several maps or data layers to sets.

To create the project or to open data, press *Add* in the *Content* section and in the appeared window select the map or data layer that needs to be combined with the opened map. You can add maps in .CMF and .CMF2 format or data layers from GeoPackage and KML/KMZ, GPX, SHP files.



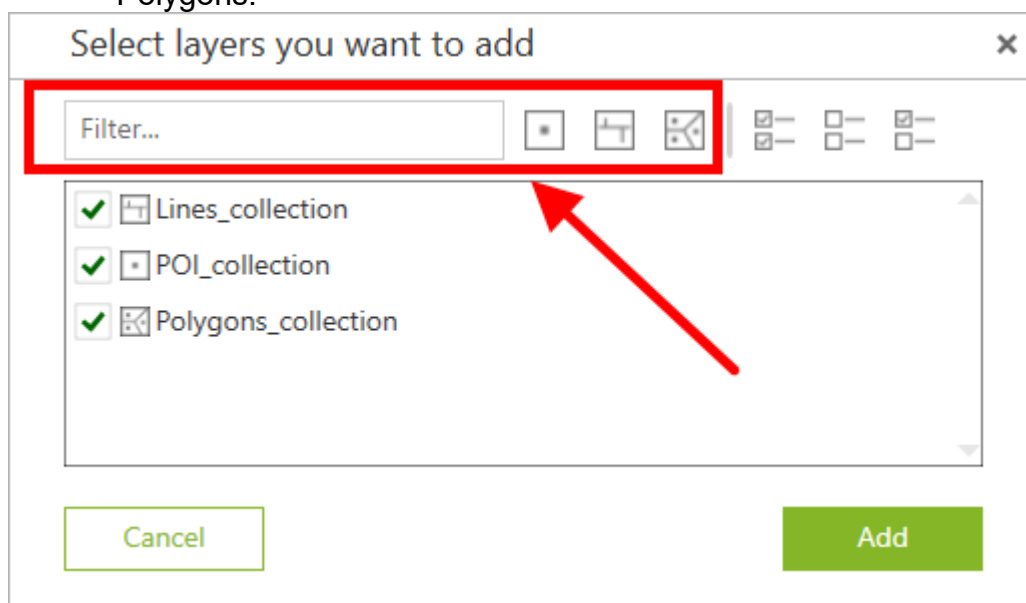
If you want to add data layers from GeoPackage, GPX, KML/KMZ or SHP files, select these layers from the list after selecting the GeoPackage, GPX, KML/KMZ or SHP file. To do so, check the box near the required layers and press *Add*.



The data layers will be added to the map, and the project will be automatically created.

Use the filters to display only required layers in the list. Following filters are available:

- By name (free text) - only layers containing the entered text string in their names will be shown.
- By geometry and data type - only layers of the selected geometry type will be shown:
 - Points,
 - Polylines,
 - Polygons.



Same way, you can select all layers in the list, unselect all layers and invert current selection.

Select layers you want to add

Filter...

☒ ☐ ☐ ☒ ☐ ☒
☒ ☐ ☐ ☒ ☐ ☒

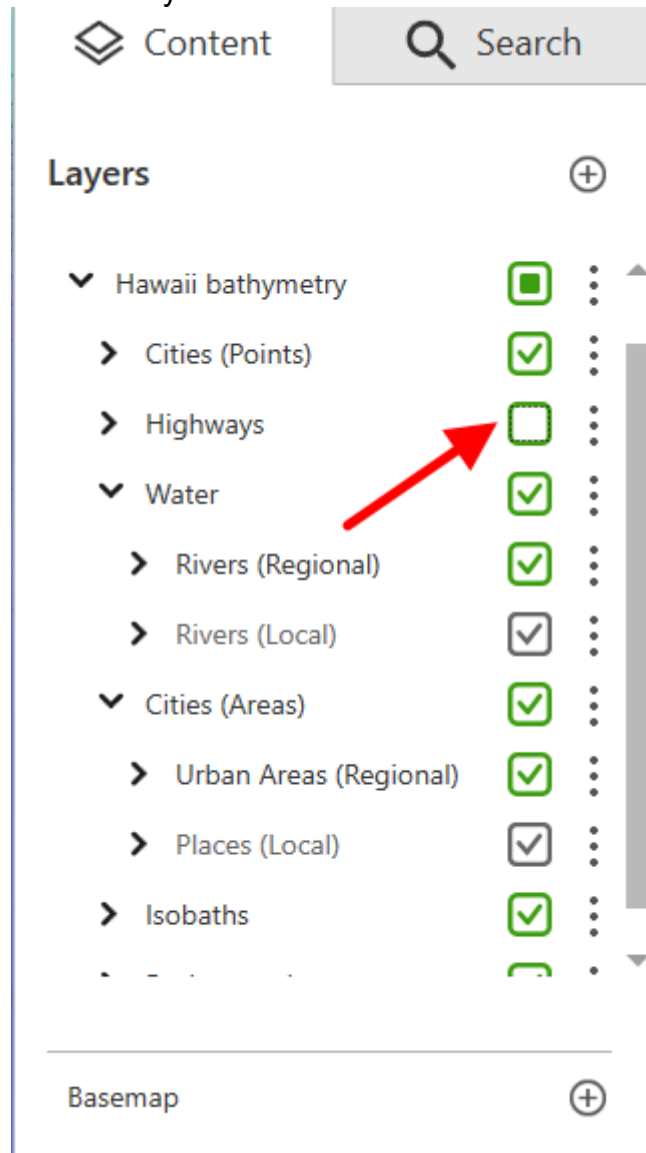
☒ ☐ Lines_collection
☒ ☐ POI_collection
☒ ☐ Polygons_collection

Cancel Add

Working with layers in project

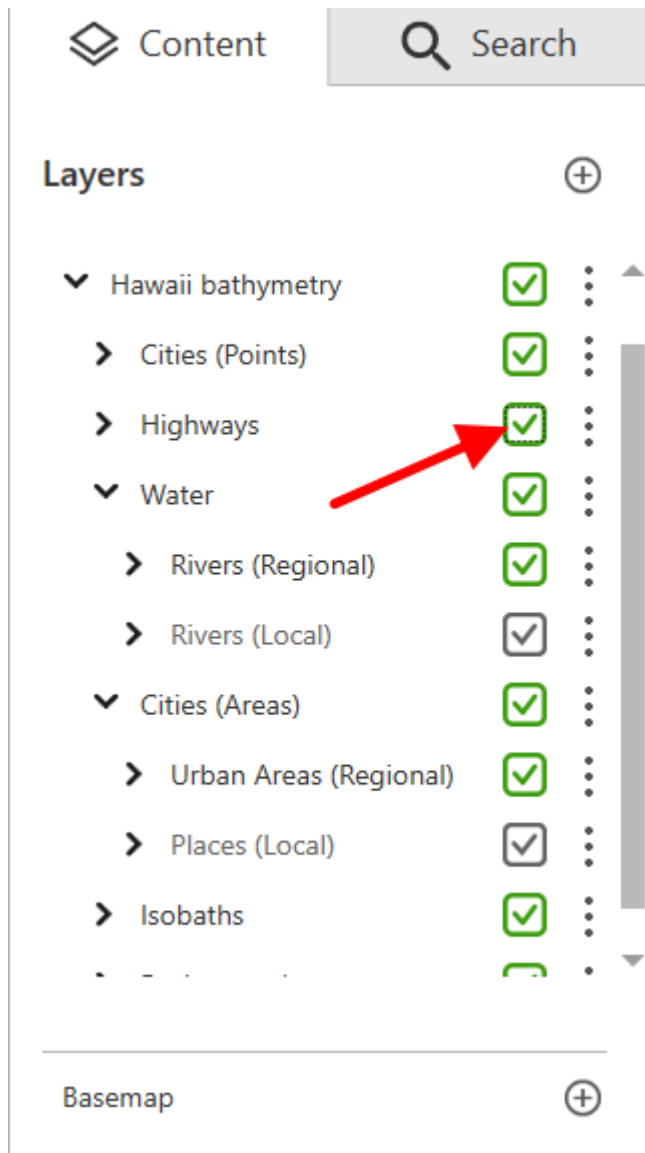
In the project TOC you can manage visibility of data layers and maps.

To turn off visibility of a data or map layer, select one or multiple layers and uncheck the box near the layer.

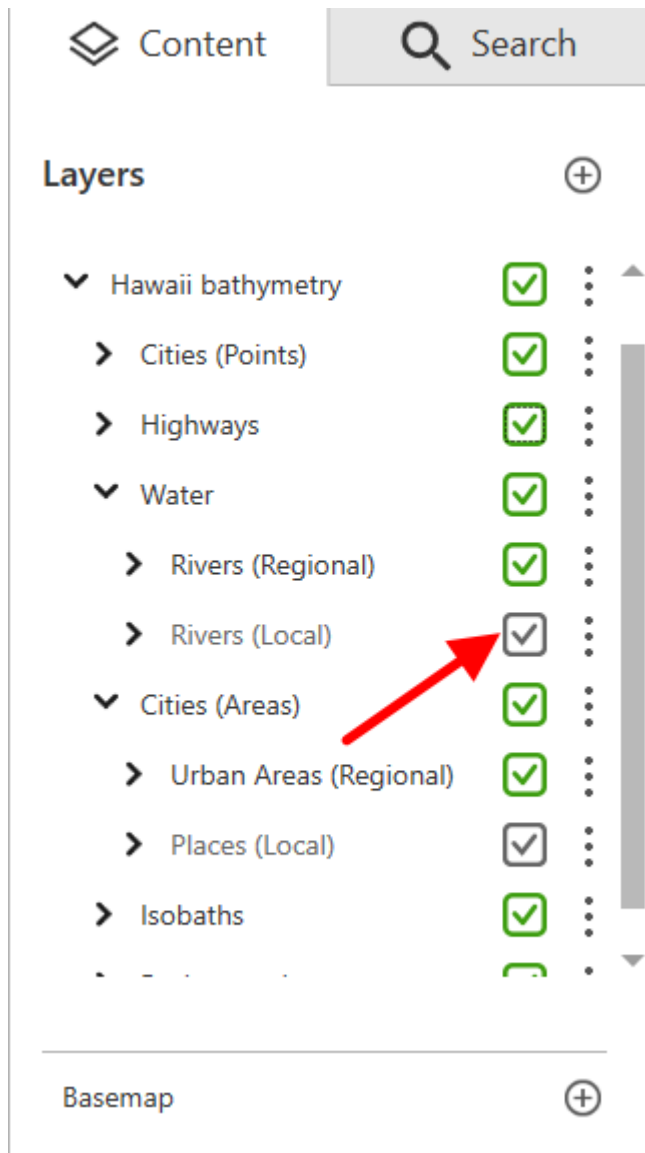


The layers will be hidden on the map.

To turn on visibility of a data or map layer, select one or multiple layers and check the box near the layer.



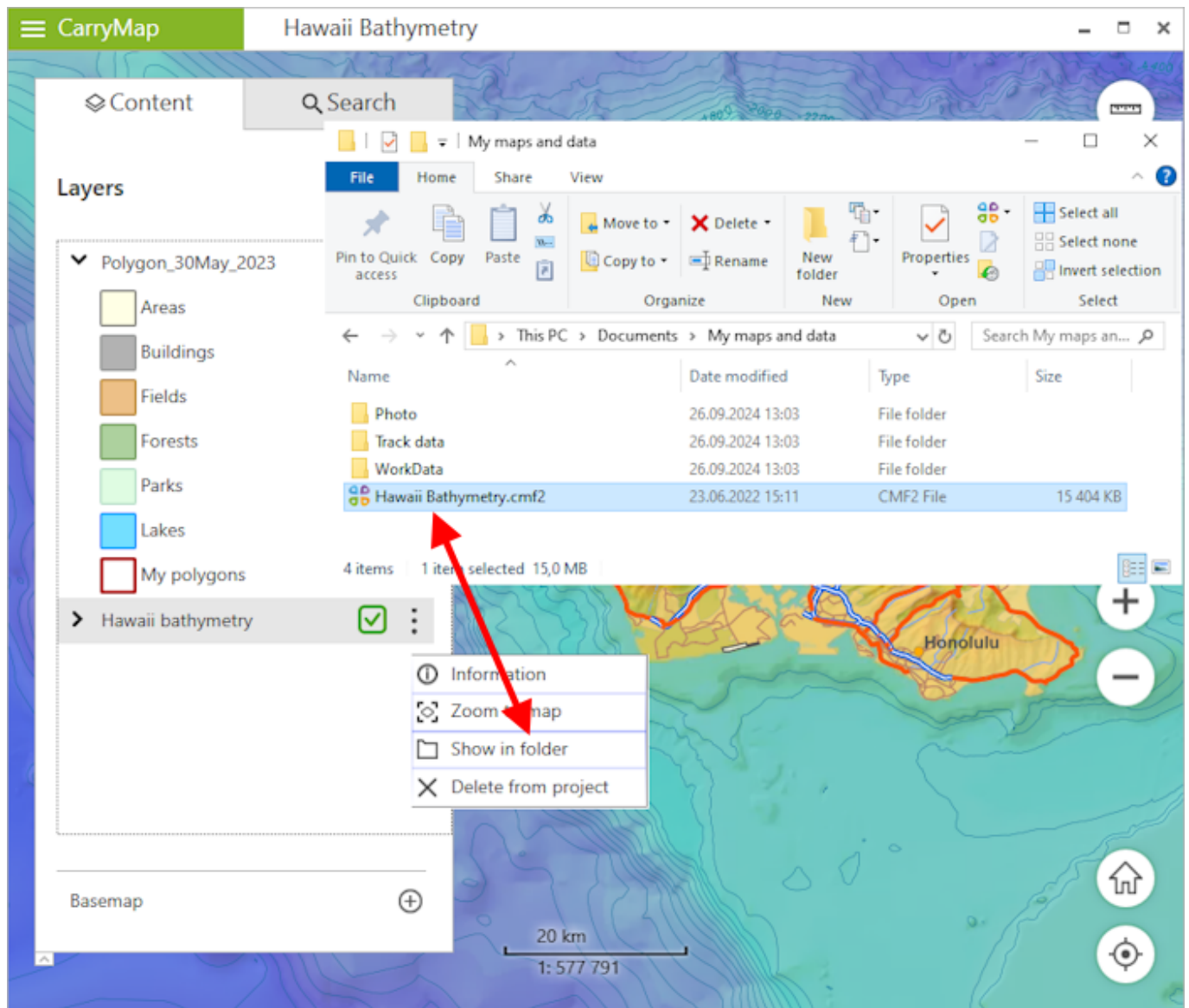
Layers with visibility set for specific scales will be marked with the grey tick in the project TOC.



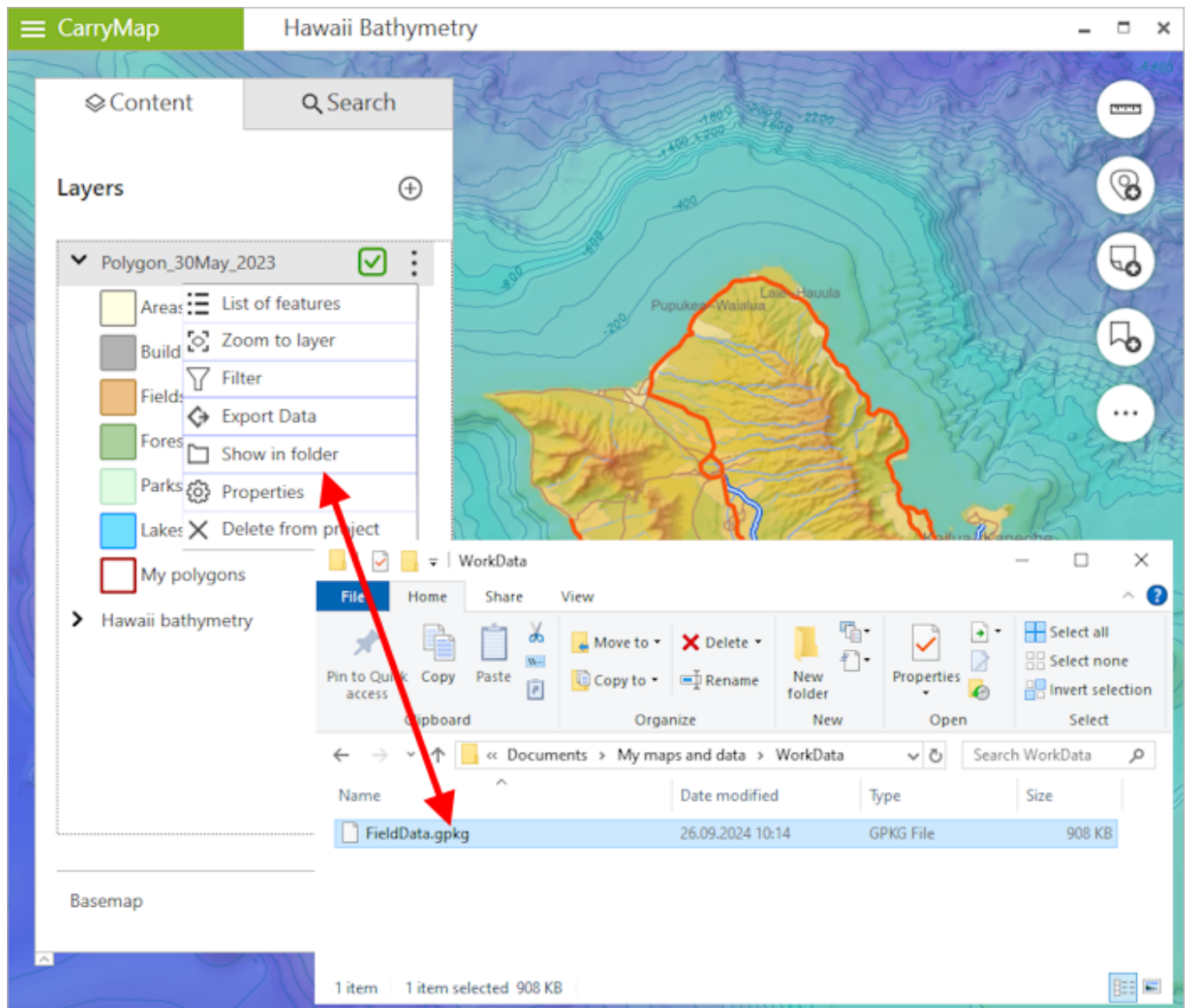
When changing the map scale and falling within visibility scale range, the tick near the layer will become green and the layer will be shown on the map.

To open the sources of the layers selected in the project TOC in File Explorer window, press the three dots icon near the layer name and select *Show in folder*.

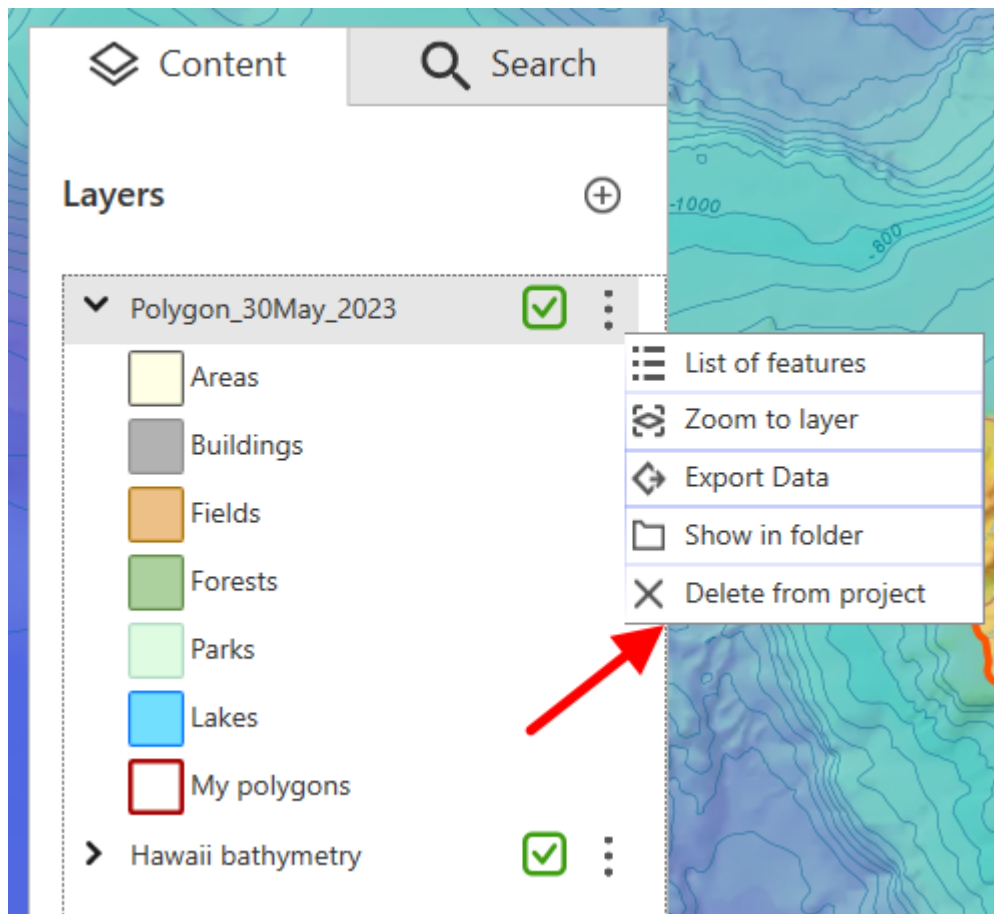
For map layers, the folder containing the layers will be opened and the appropriate file will be selected.



For GeoPackage layers, the folder containing the appropriate .GPKG file will be opened.

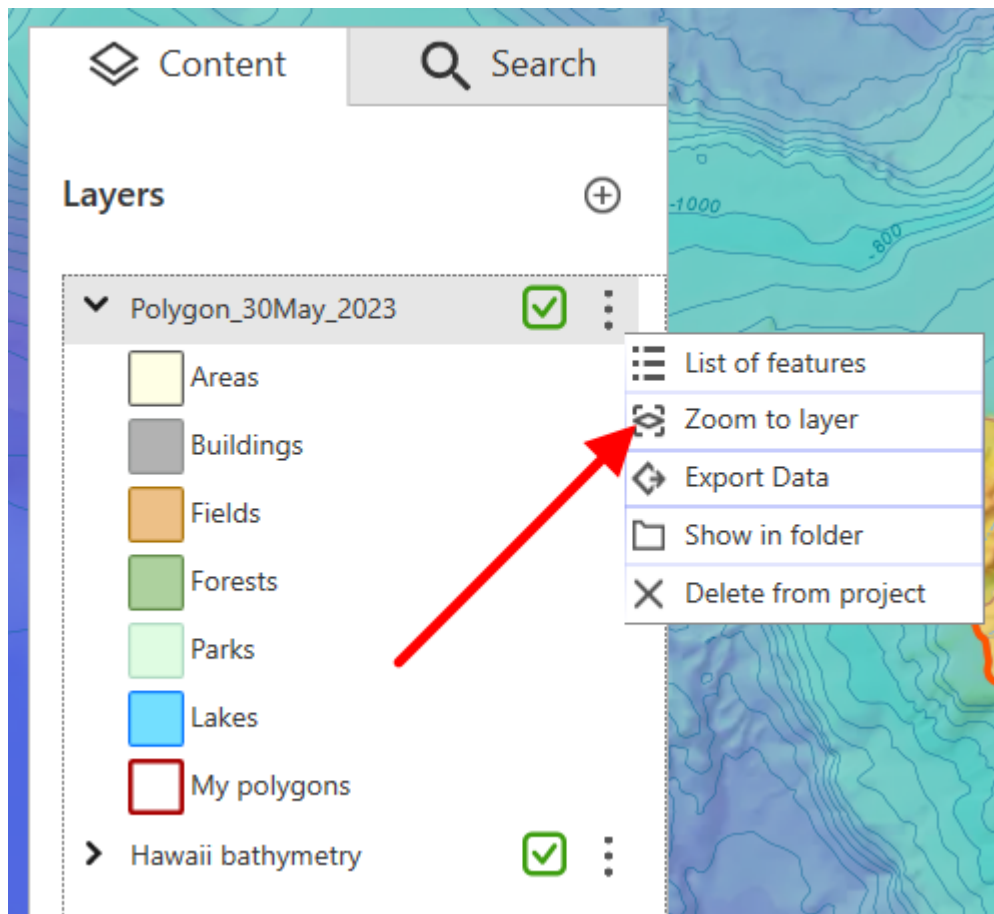


To delete data layers, select one or multiple layers, right-click to expand the layer menu in the table of contents or click the three dots icon near the required layer, and select *Delete from project*.

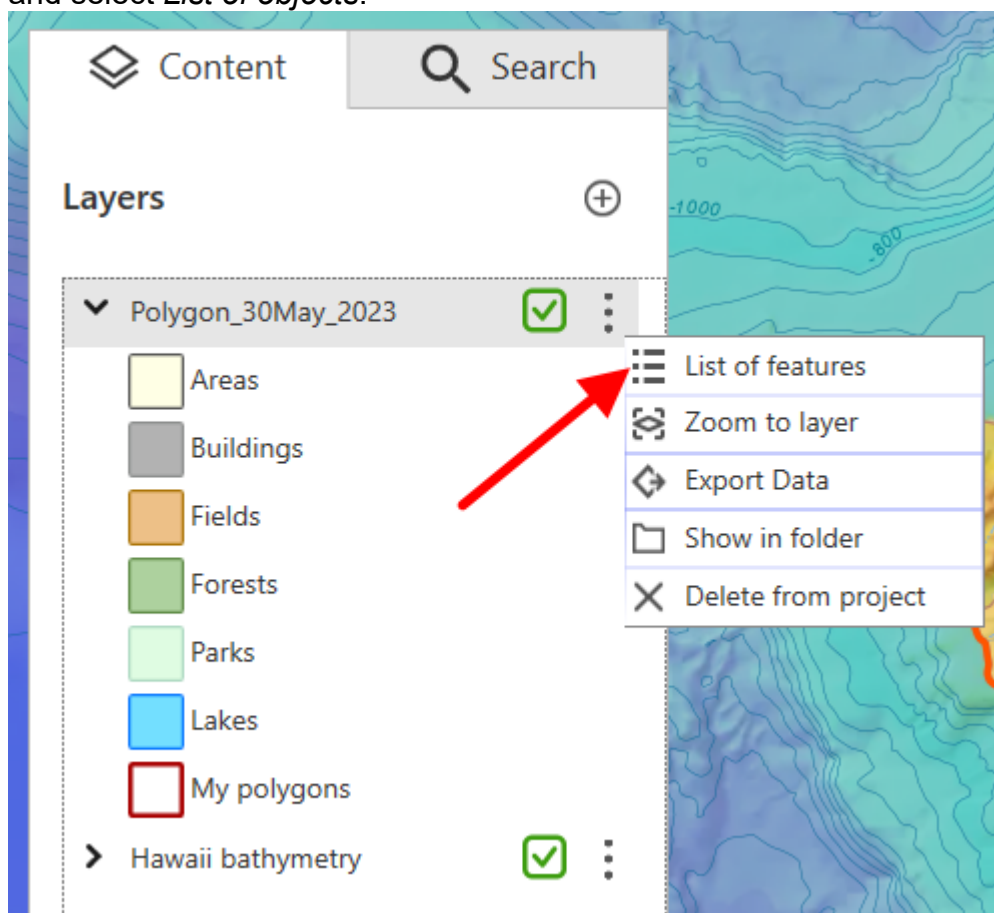


The layer with data will be deleted from the project but not from your computer, so you will be able to add it again, if needed.

In addition, you can zoom to layers on your map. To do this, select one or multiple layers, right-click to expand the layer menu in the table of contents or click the three dots icon near the required layer, and select *Zoom to layer*.



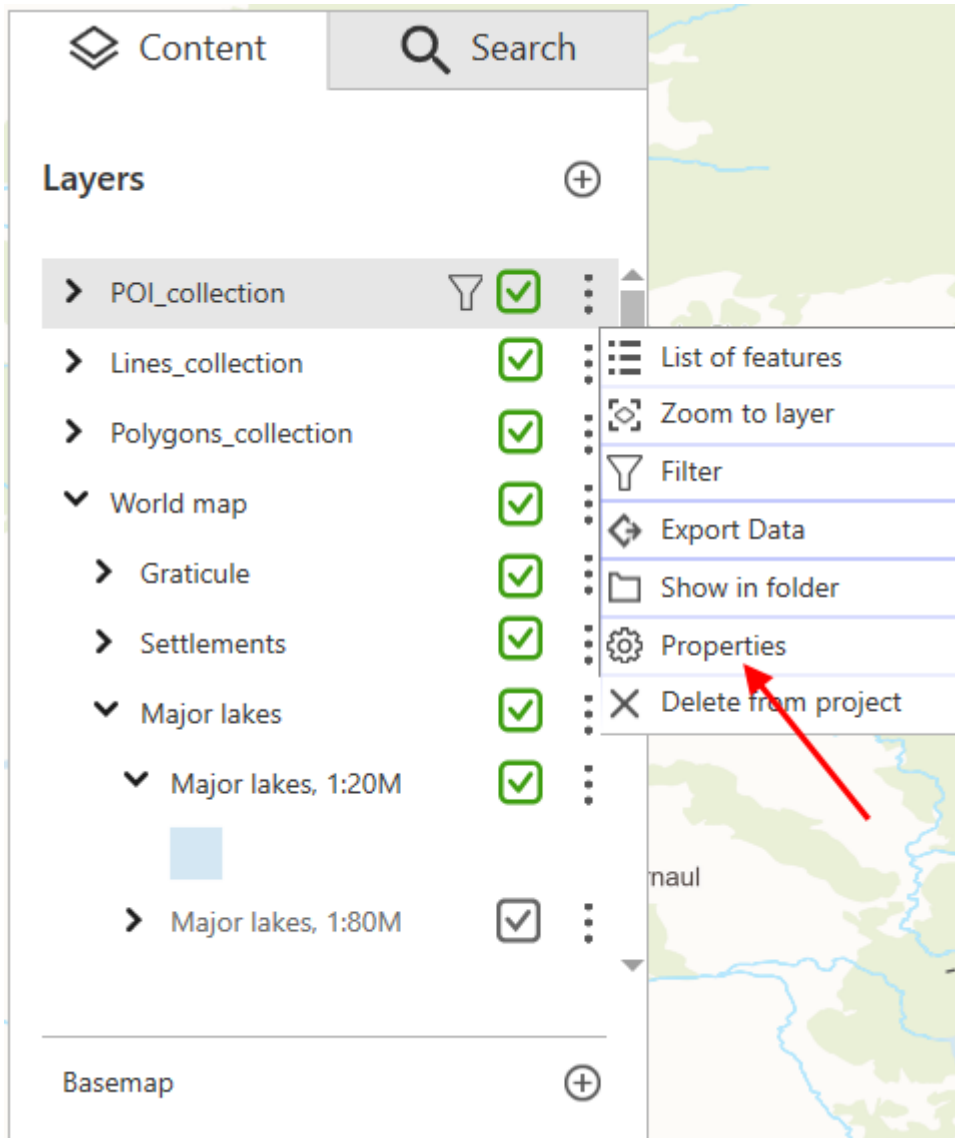
To show list of all objects containing in the layer, press the three dots icon near the layer name and select *List of objects*.



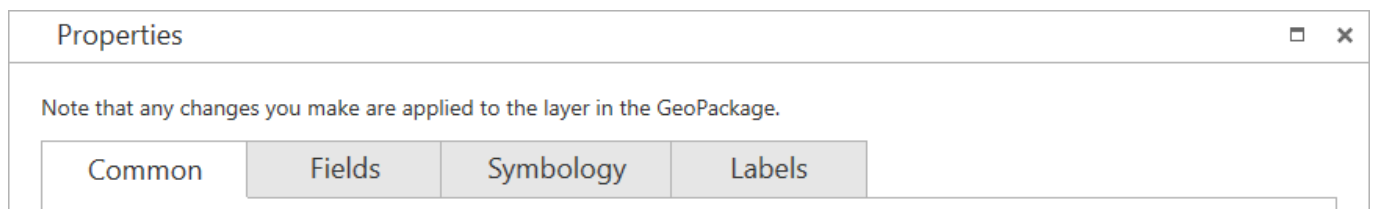
All objects from this layer will be shown in the *Search* tab.

Changing layer properties

To change the GeoPackage layer properties, expand the layer's menu in the table of contents by clicking the three dots, and select *Properties*.



Layer properties window contains the following tabs:



- **Common** - it allows you to define the layer name, specify the display field and set the layer transparency.

Properties

Note that any changes you make are applied to the layer in the GeoPackage.

CommonFieldsSymbologyLabels

Layer Name:

POI_collection

Display field:

Name

Layer transparency:

0

%

GeoPackage:

C:/Program Files/DataEast/CarryMap for Windows/Client/Resources/DefaultGPKG/GPKGTemplate.gpkg

Layer:

POI_collection

Coordinate system:

GCS_WGS_1984 (WKID: 4326)

Cancel

Apply

OK

- **Fields** - it is used to create new attribute fields and set their characteristics. Here you can set the name of the new field, select its type, specify aliases for the new and existing fields and set the fields visibility.

Properties

Note that any changes you make are applied to the layer in the GeoPackage.

Common

Fields

Symbology

Labels

Add

Delete

| <input checked="" type="checkbox"/> | Name | Type | Alias | Visibility |
|-------------------------------------|-------------------|--------|-------------------|-------------------------------------|
| | name | String | Name | <input checked="" type="checkbox"/> |
| | description | String | Description | <input checked="" type="checkbox"/> |
| | creation_date | Date | Creation date | <input checked="" type="checkbox"/> |
| | modification_date | Date | Modification date | <input checked="" type="checkbox"/> |
| | Type | String | Type | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | Field | String | Field | <input checked="" type="checkbox"/> |

Cancel

Apply

OK

- **Symbology** - here you can find the options for specifying the features symbols and the data display methods. The available display options are: to display all features using a single symbol, to set symbol categories based on unique field values, or to apply graduated symbol coloring based on features values.

Properties

Note that any changes you make are applied to the layer in the GeoPackage.

Common


Fields

Symbology

Labels

Method: Unique values

Value field: Type

Color scheme: 


☐

Symbol

Value


Label

☐



My points


☐



Orange marker

Orange marker


☐



Green marker

Green marker


☒



Blue marker

Blue marker


☐



Navy blue marker

Navy blue marker


☒



Violet marker

Violet marker


☐



Peak

Peak

☐



Waterfalls

Waterfalls

Cancel

Apply

OK

- **Labels** - it allows you to enable layer labels, to select the label field, and to set the label parameters. The layer labels can be created based on the features symbol categories.

Properties

Note that any changes you make are applied to the layer in the GeoPackage.

CommonFieldsSymbologyLabels

☒ Label features

Method:

Label each symbol class separately

Download classes

Class:

<all other values>

Label field:

Name

Font color:

#425c29

...

Font size:

8

Cancel

Apply

OK

To apply made changes and continue working in the *Layer properties* window, click *Apply*. *

To save made changes and return to the map window, click *OK*. *

To cancel made changes, click *Cancel*.

Properties

Note that any changes you make are applied to the layer in the GeoPackage.

Common Fields Symbology Labels

Layer Name:
POI_collection

Display field:
Name

Layer transparency:
0 %

GeoPackage:
C:/Program Files/DataEast/CarryMap for Windows/Client/Resources/DefaultGPKG/GPKGTemplate.gpkg

Layer:
POI_collection

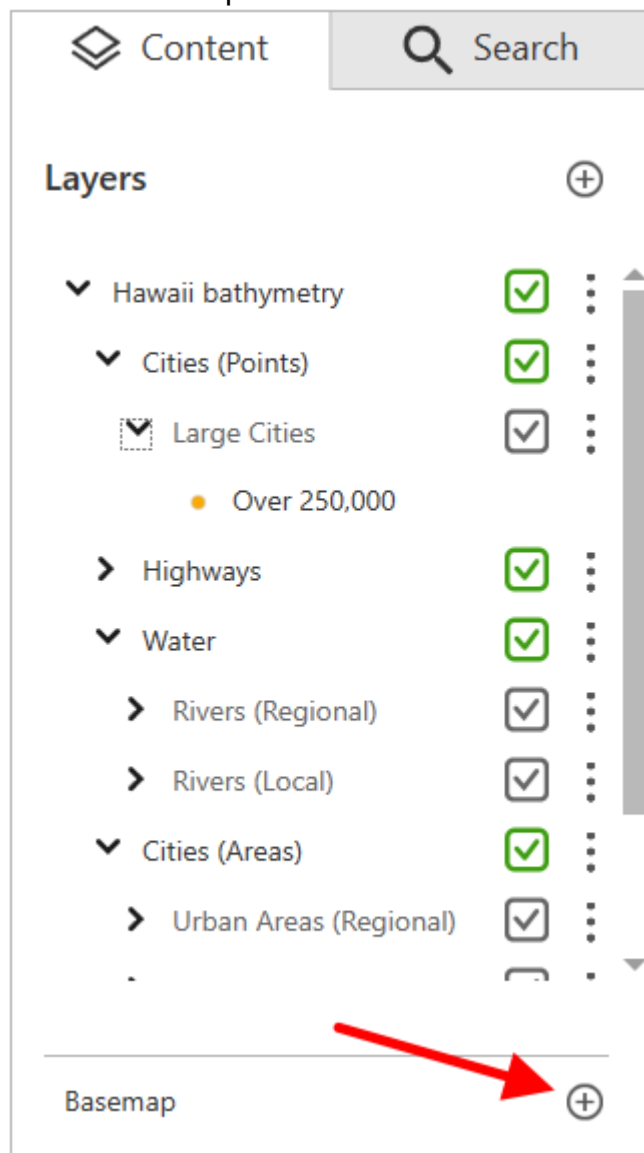
Coordinate system:
GCS_WGS_1984 (WKID: 4326)

Cancel Apply OK

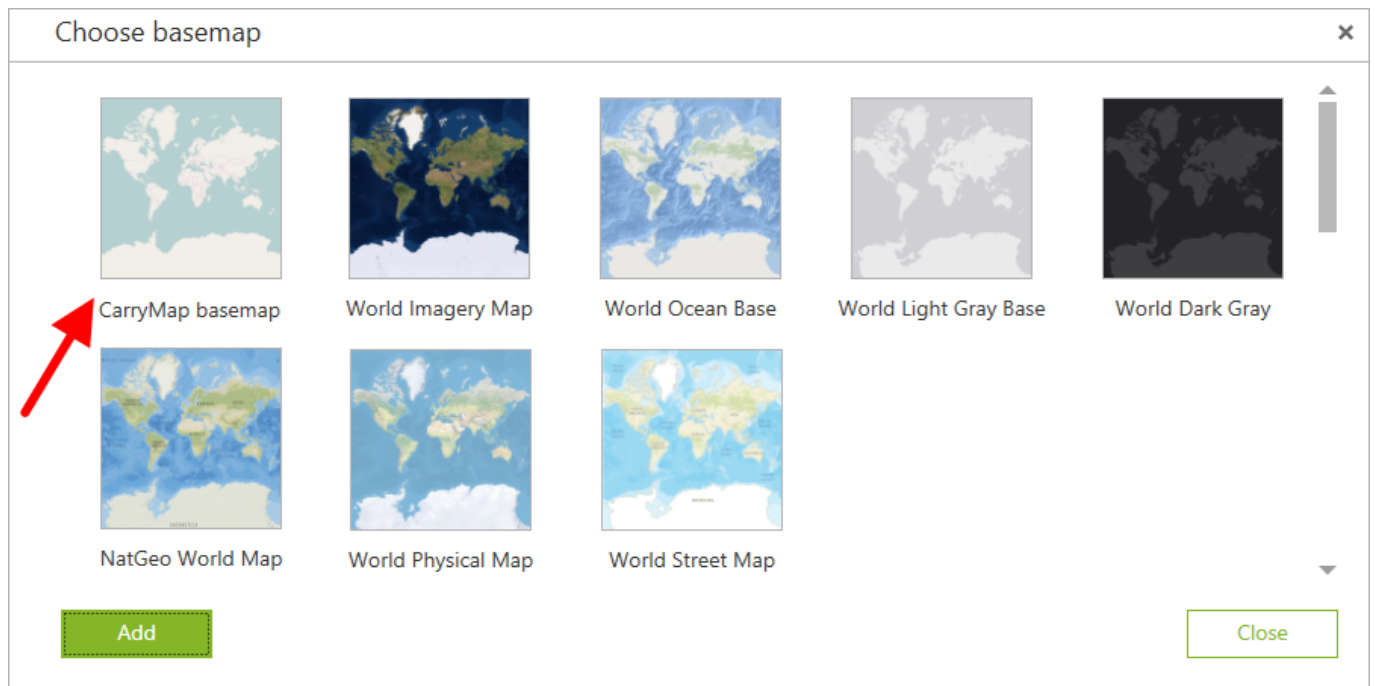
** Please note* that any changes you make are applied to the layer at the level of the GeoPackage file.

Adding online services and basemaps

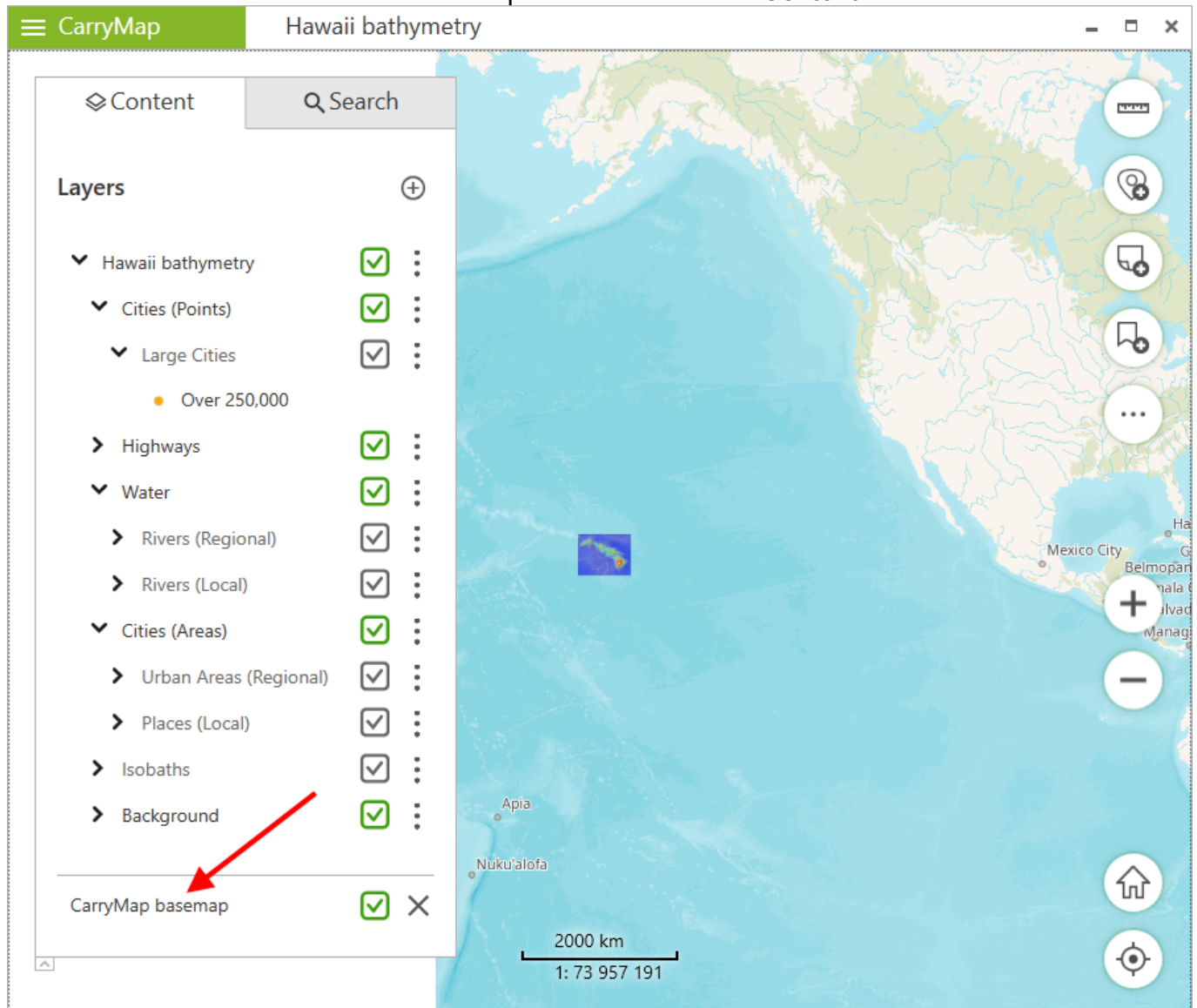
To add basemap from the list of available online services, press *Add*.



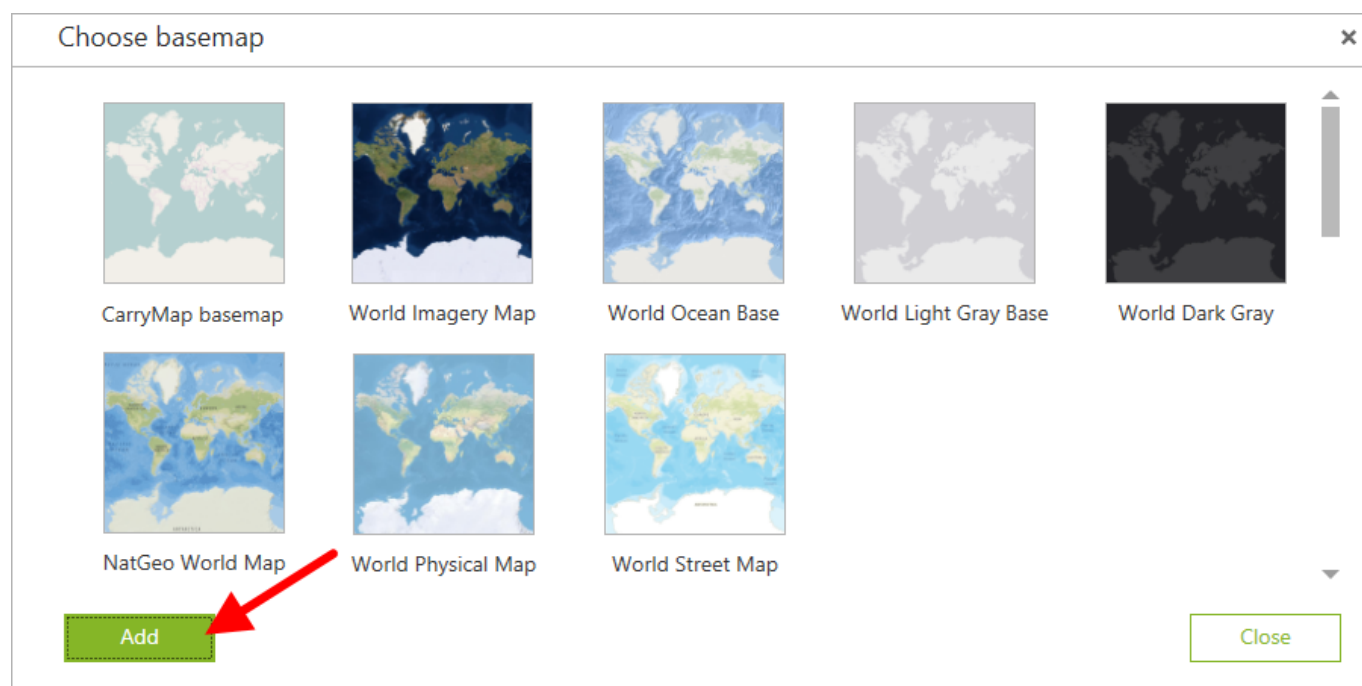
In the appeared list of online services select one that needs to be shown as basemap.



Selected service will be shown in the map window and in the *Content* tab.



To select the map from ArcGIS or WMS online service as basemap, press *Add*.



In the appeared window select the type of online map service, either ArcGIS or WMS.

A screenshot of a software window titled "Add basemap" with a close button (X) in the top right corner. The window contains the following elements:

- A label "Choose map service type:" followed by two radio button options: "ArcGIS Service" (which is selected) and "Web Map Service (WMS)".
- A label "Basemap name:" followed by an empty text input field.
- A label "Basemap URL:" followed by an empty text input field that has a red border.
- At the bottom, there are two buttons: "Add" on the left and "Cancel" on the right.

In the *Basemap name* field enter the name that will be shown in the list of online basemaps. In the *Basemap URL* field enter the path to online service.

Add basemap



Choose map service type:



ArcGIS Service



Web Map Service (WMS)

Basemap name:

WMS

Basemap URL:

ms?REQUEST=GetCapabilities&VERSION=1.3.0&SERVICE=WMS&

Add

Cancel

Make sure to fill in all fields and press *Add*.

Add basemap



Choose map service type:



ArcGIS Service



Web Map Service (WMS)

Basemap name:

WMS

Basemap URL:

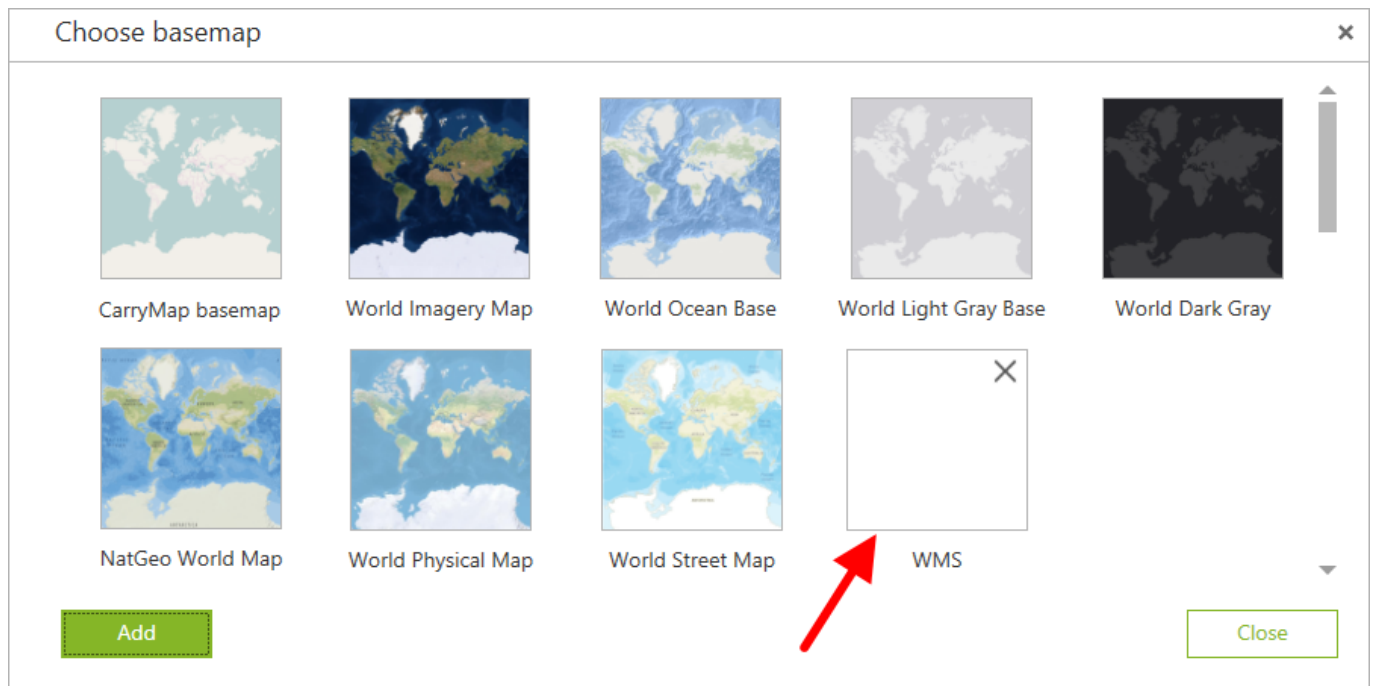
ms?REQUEST=GetCapabilities&VERSION=1.3.0&SERVICE=WMS&

Add

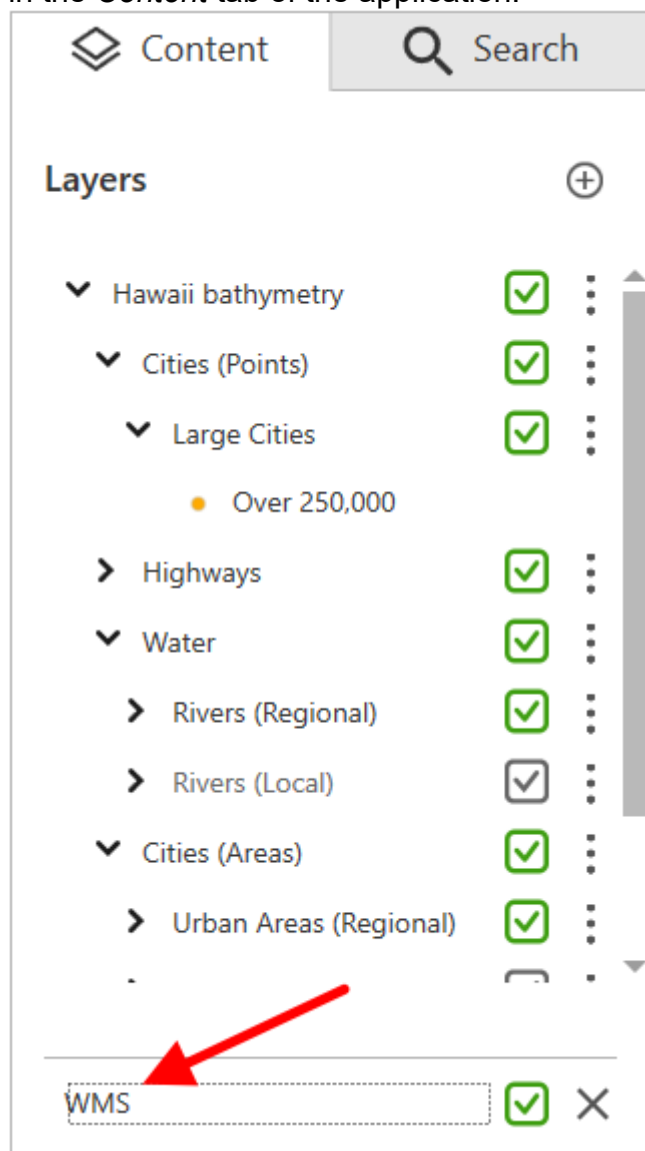


Cancel

The added online service will be shown in the list.

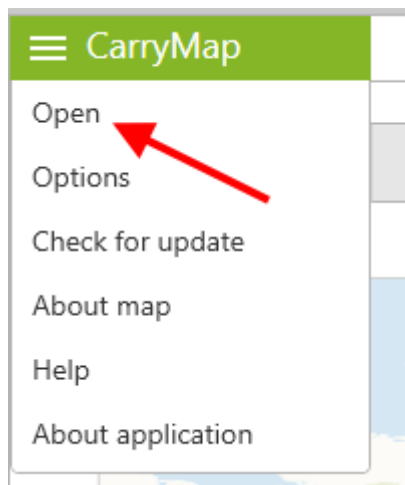


To select map service as online basemap, click on it. The service will be shown on the map and in the *Content* tab of the application.

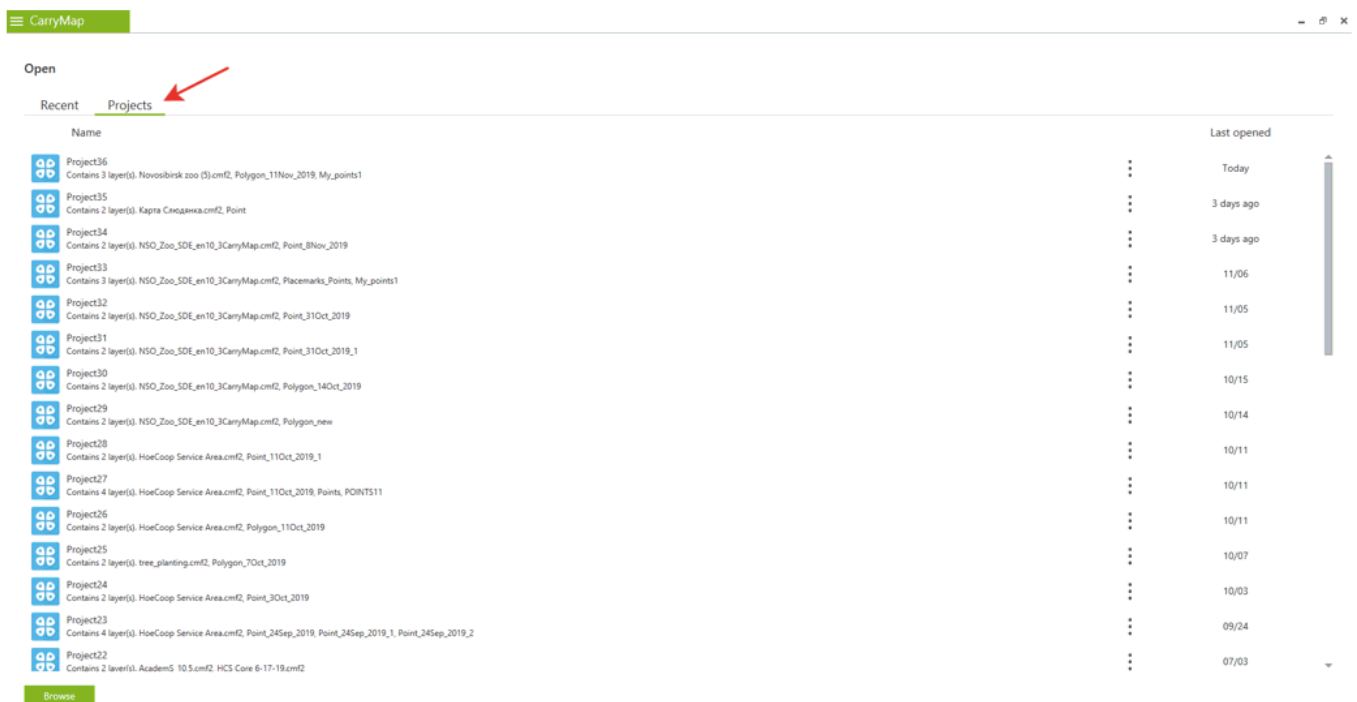


Deleting and renaming projects

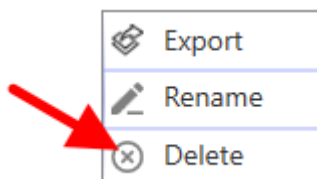
To delete created project, go to *Open* menu item.



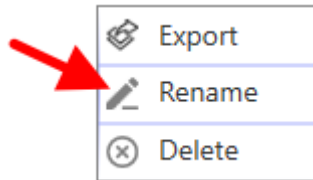
Go to *Projects*.



Press the three dots icon near the project that needs to be deleted and select *Delete*.



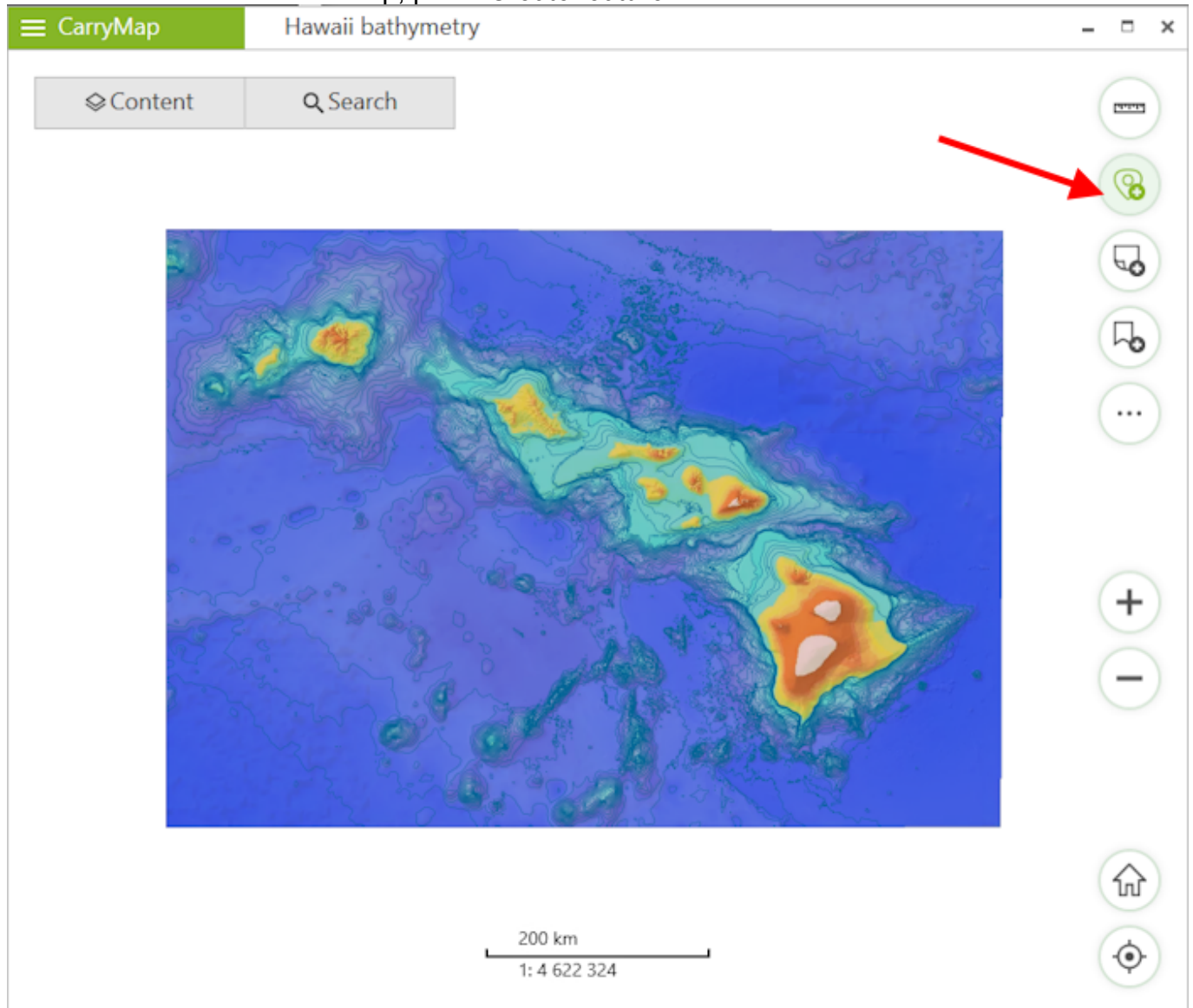
To rename the project, press *Rename* button.



Change the name and press *Enter* on the keyboard. The new project name will be saved.

Creating features

To create a new feature on map, press *Create feature*.

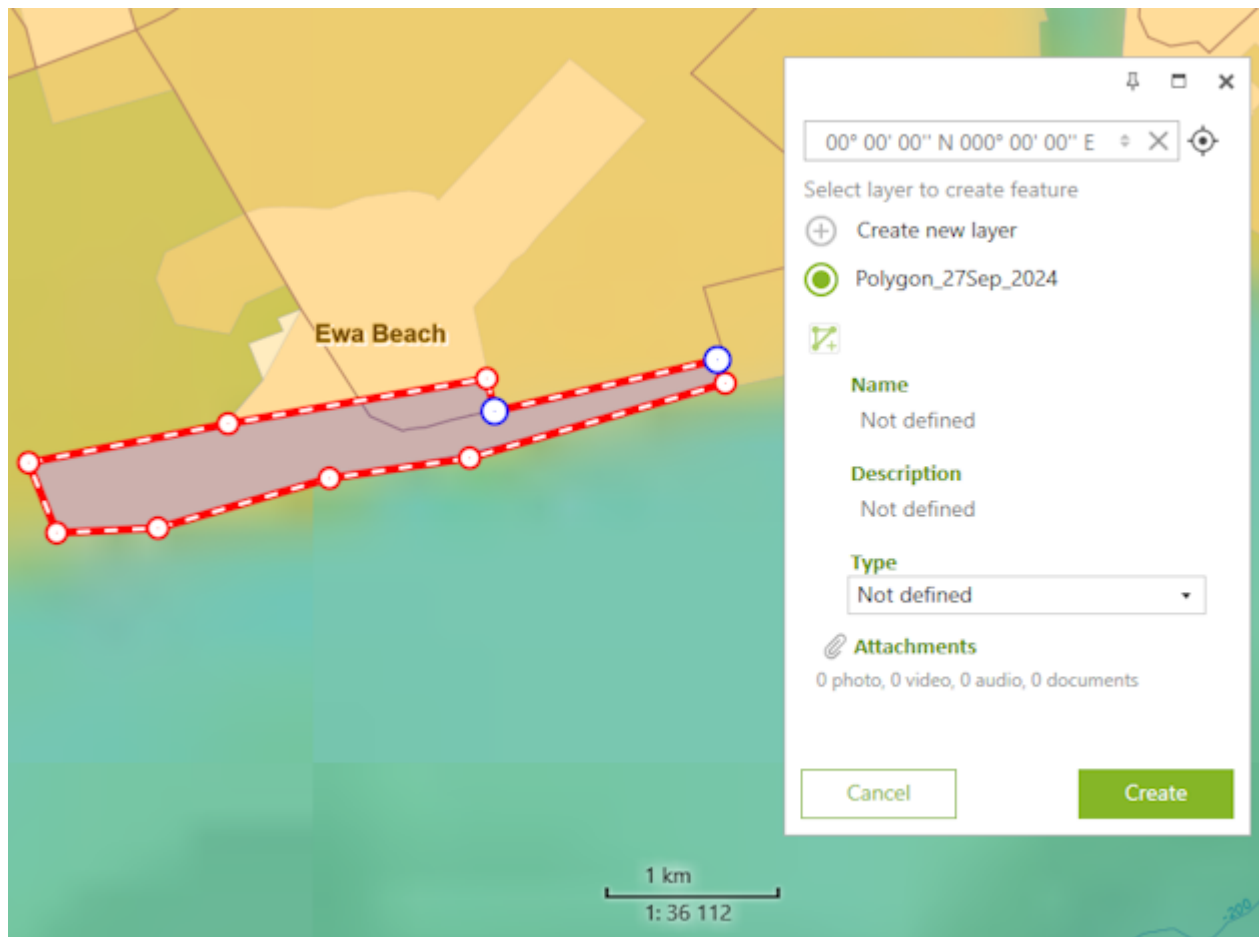


In the appeared panel select the feature type: point, polyline or polygon.



Specify geometry of the created feature on the map.

Note that you can select the method of creating polyline and polygon features on the map: with the straight or the freehand line (see [Creating features by drawing freehand line](#) section for more detail).



In the appeared dialog select the layer, where to the feature geometry should be saved. If there is no GeoPackage layers added to the current project, press *Create new layer*.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygon_27Sep_2024

Name

Not defined

Description

Not defined

Type

Not defined

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

The new layer will be shown in the feature card.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygon_27Sep_2024

Name

Not defined

Description

Not defined

Type

Not defined

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

If there are some GeoPackage layers added to the current project, they will be shown as a list in the feature card and you will be able to select any of these layers to create the new feature. To change the new layer name, click on it in the feature card and type the new name.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_new

Name

Not defined

Description

Not defined

Type

Not defined

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

Note that only numbers and Latin letters can be used.

To set name for the new feature, click on the *Name* field. After you enter the name, this field will be marked with an asterisk.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_new

Name *

Sandy beach

Description

Not defined

Type

Not defined

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

To add description to the new feature, click on the *Description* field and enter the required info.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_new

Name *

Sandy beach

Description *

Good resting place

Type

Not defined

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

To set the symbol for the feature, click on the *Type* field and select the category from the list. The feature will be displayed on the map with the selected symbol after the changes are saved.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_new

Name *

Sandy beach

Description *

Good resting place

Type

Not defined

Areas

Building

Fields

Forests

Parks

Lakes

Not defined

To finish the feature creation process, press *Create*.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_new

Name *

Sandy beach

Description *

Good resting place

Type *

Areas

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

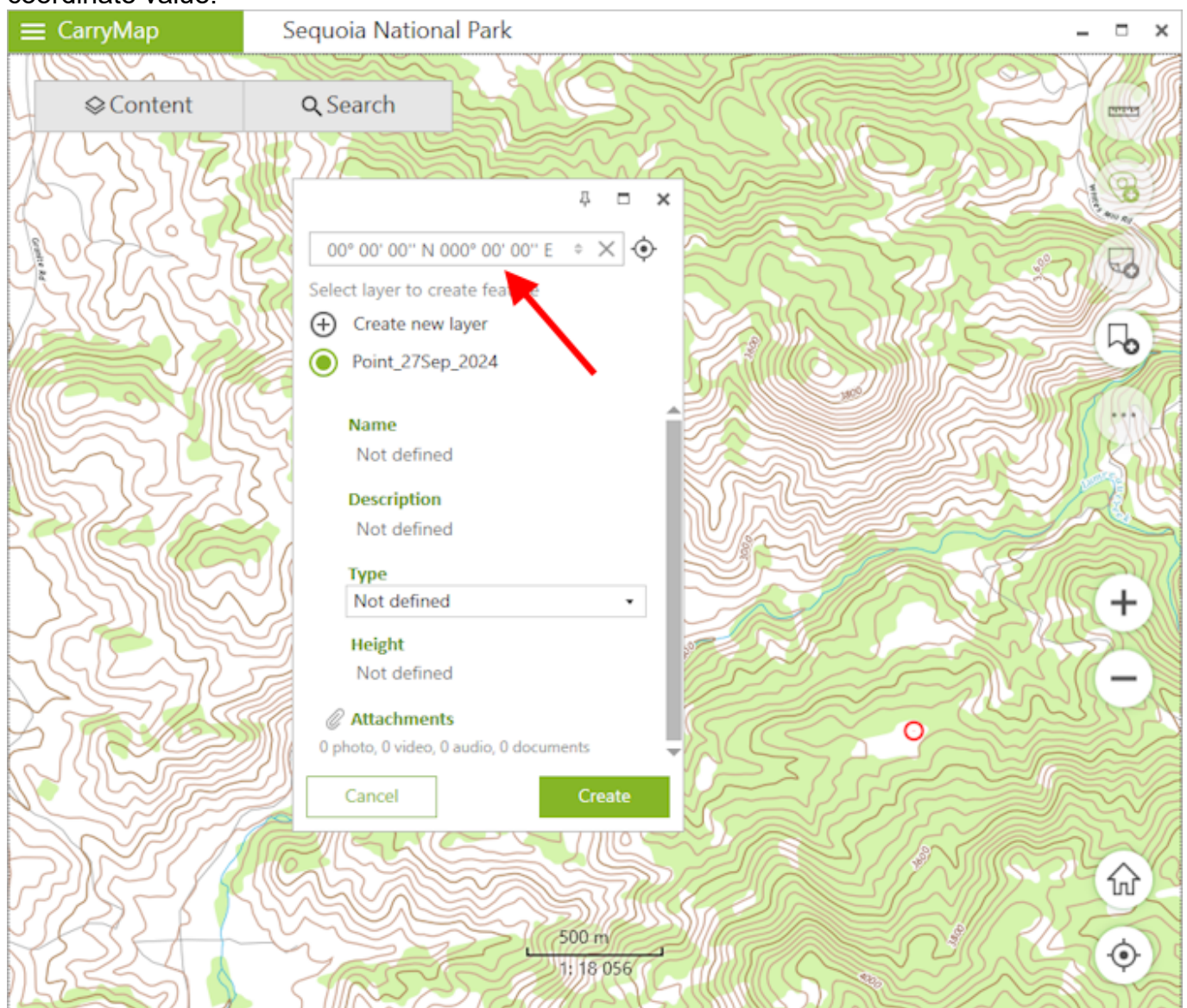
Creating features by coordinates

To create feature by coordinates, being in the feature creation mode go to the input coordinates line in the feature identification card (see [Creating features](#) section for more detail).

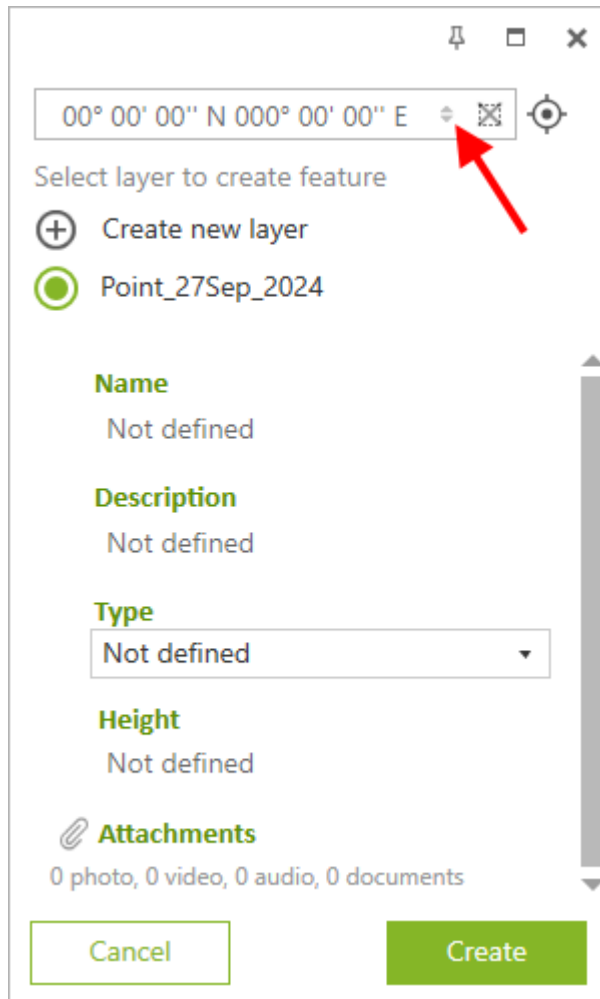


Note that the input coordinates line is not available in the feature identification card while creating polyline or polygon features by drawing the freehand line (see [Creating features by drawing freehand line](#) section for more detail).

To add the feature vertex by coordinates, go to the input coordinates line and enter the coordinate value.



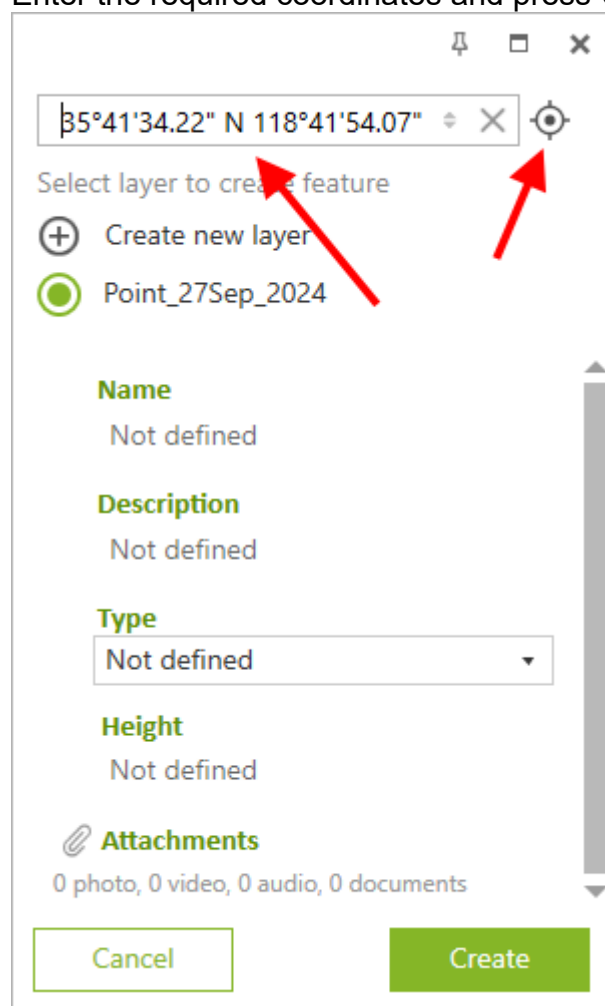
You can change the coordinates format, if needed. To do so, press *Switch* button in the input coordinates line.




Available coordinate formats are as following:

- Degrees-minutes-seconds (DMS);
- Decimal degrees (DD).

Enter the required coordinates and press *Go to* button  or *Enter* on the keyboard.



35°41'34.22" N 118°41'54.07" 

Select layer to create feature

☐ Create new layer


☒ Point_27Sep_2024

Name
Not defined

Description
Not defined

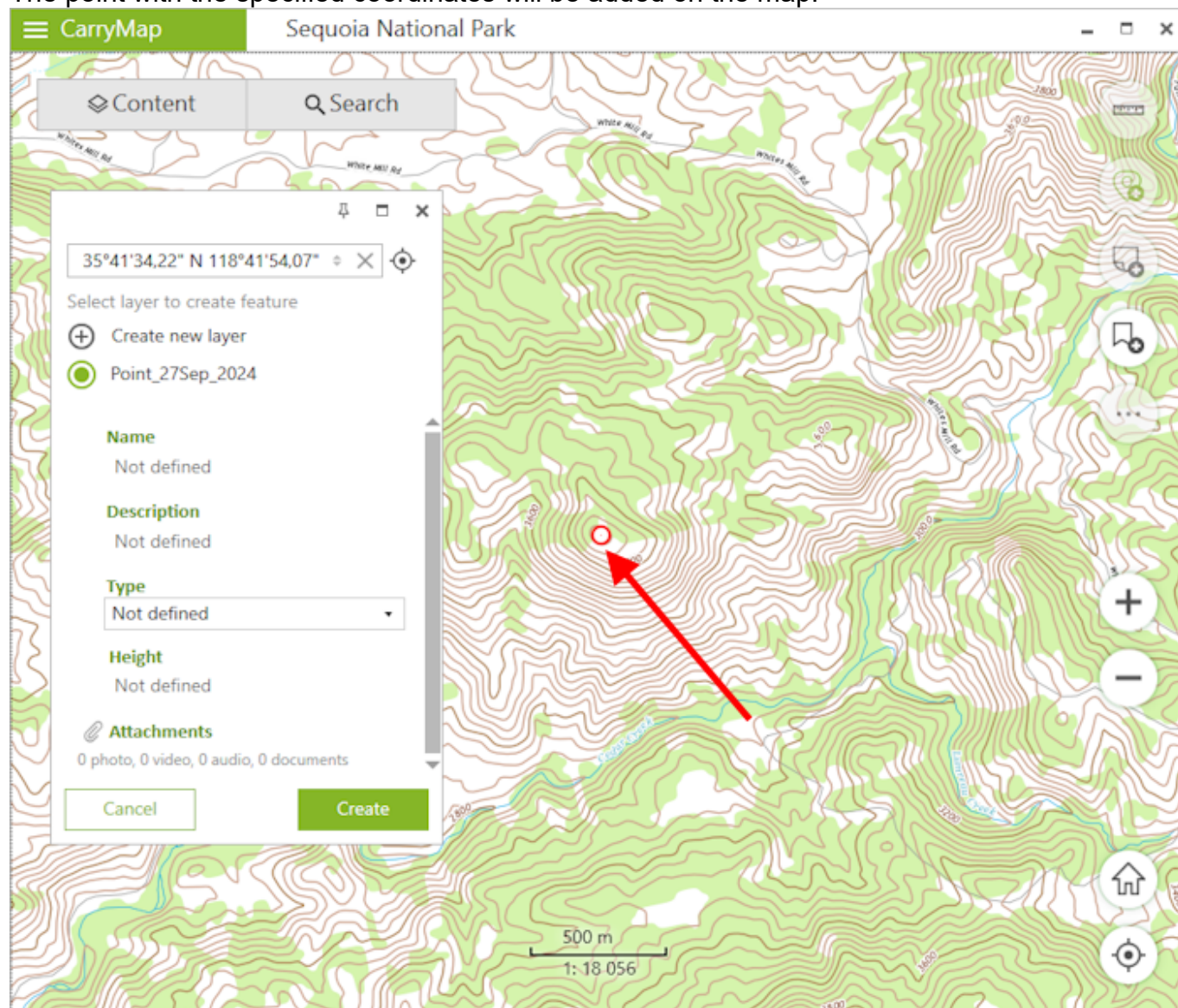
Type
Not defined

Height
Not defined

 **Attachments**
0 photo, 0 video, 0 audio, 0 documents

Cancel Create

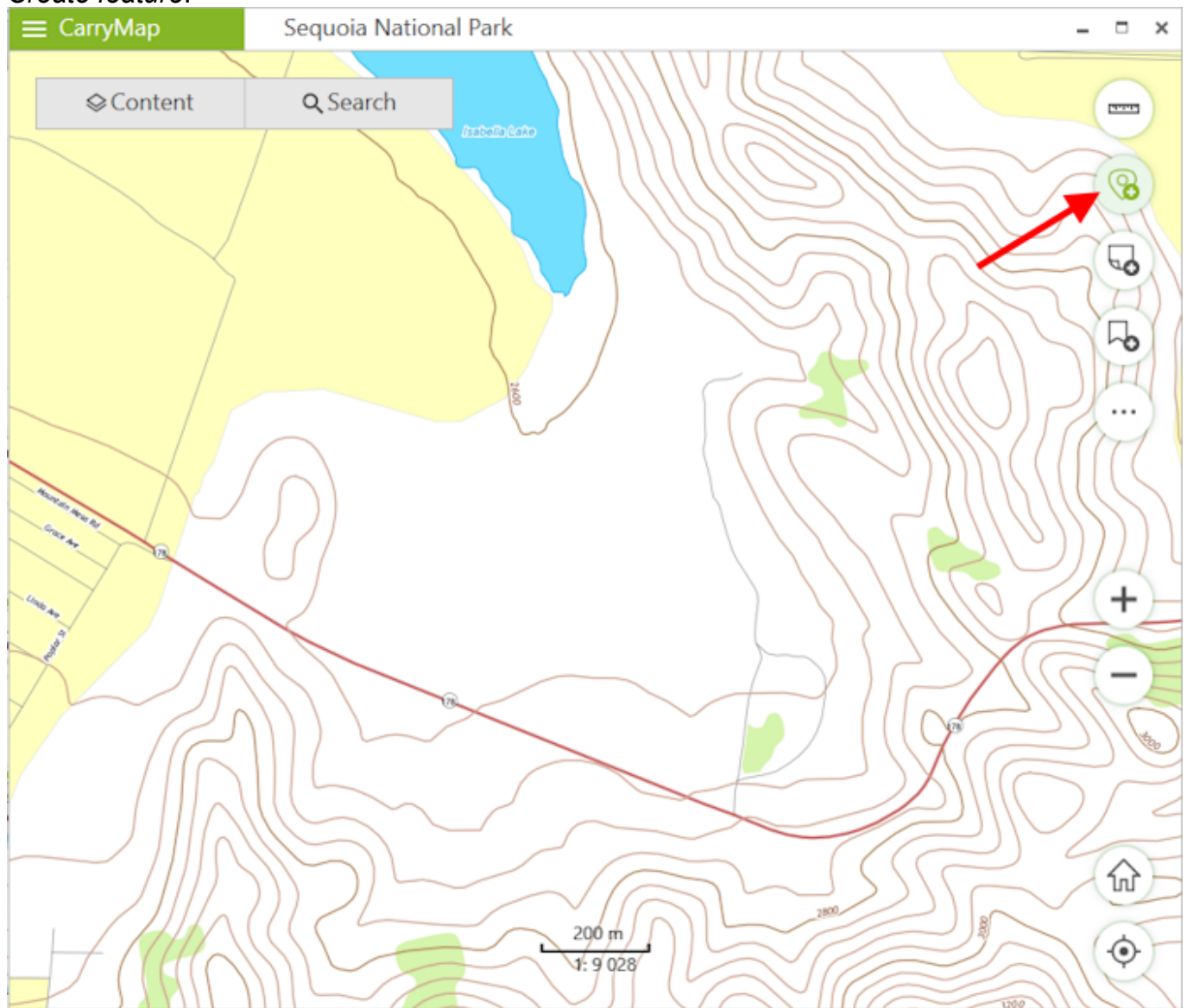
The point with the specified coordinates will be added on the map.



To finish the feature creation process, press *Create*.

Creating features by drawing freehand line

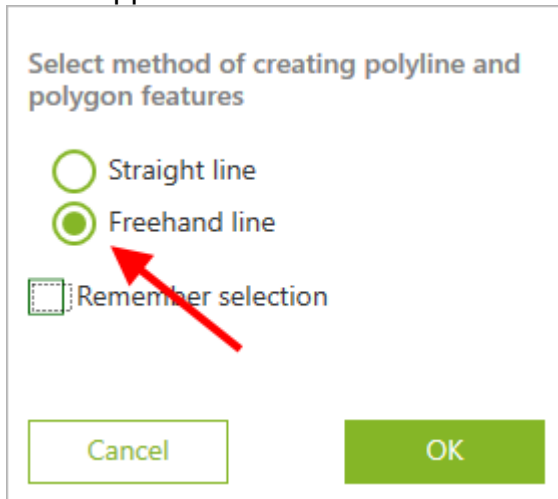
To create a new polyline or polygon feature on the map by drawing the freehand line, press *Create feature*.



In the appeared panel select the type of created feature: polyline or polygon.



In the appeared window select *Freehand line* and press *OK* button.



Select method of creating polyline and polygon features

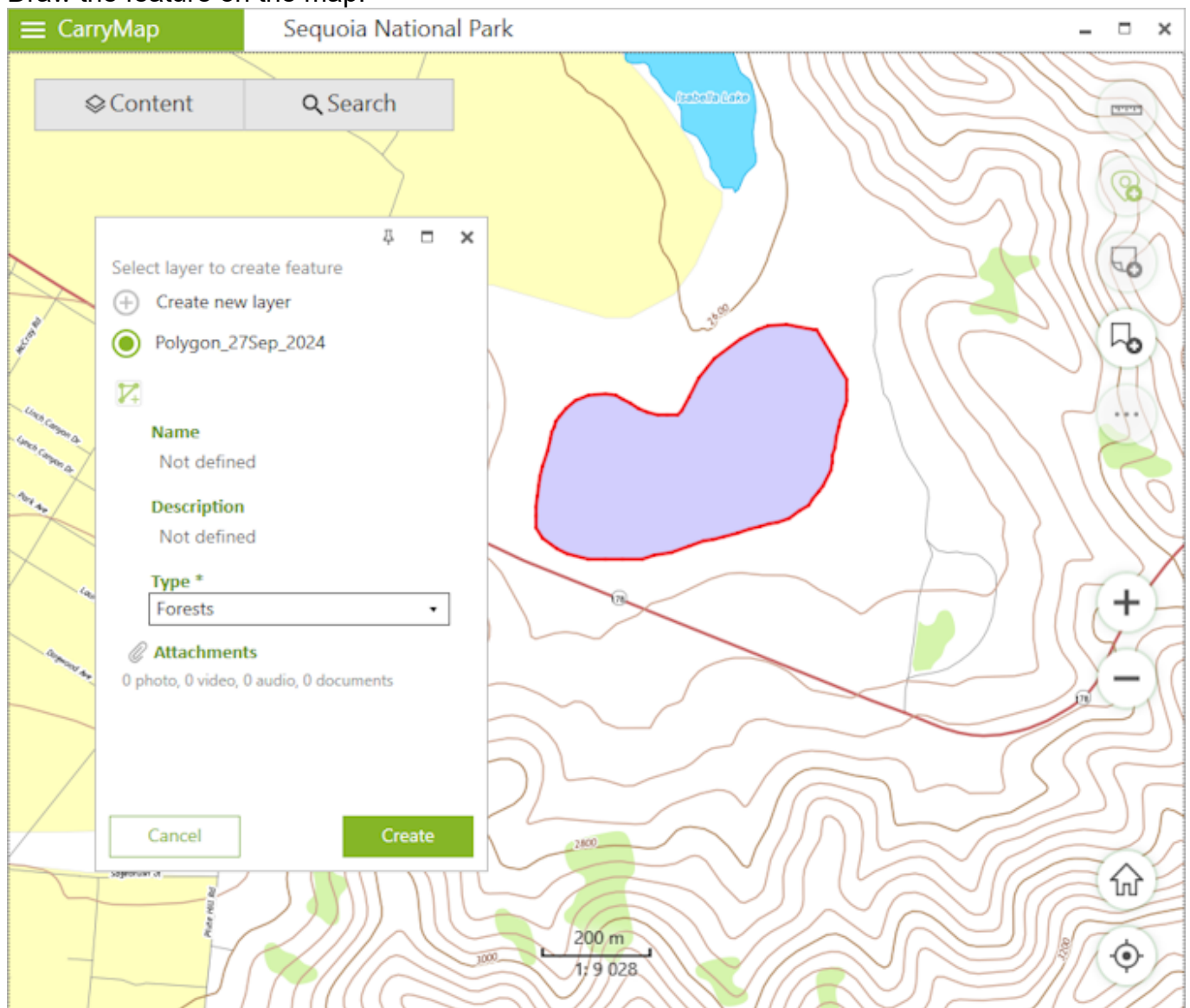
☐ Straight line

☒ Freehand line

☐ Remember selection

Cancel OK

Draw the feature on the map.



To finish the feature creation process, press *Create*.

To change the method of creating polyline or polygon features, go to [Application settings](#). In the *Method of creating polyline and polygon features* select:

- Not defined;

- Straight line;
- Freehand line.

Options

×

Language

English (United States) ▾

Device ID

DE8C76B0-94FB-5476-9408-901437047602

Measurement units

Meters, Kilometers ▾

Area units

Square meters/kilometers ▾

Radius units

Meters ▾

Creating features

Method of creating polyline and polygon features

☒ Not defined

☐ Straight line

☐ Freehand line

Feature card

Pin feature card ☐

Circular ruler

Show circular ruler ☐

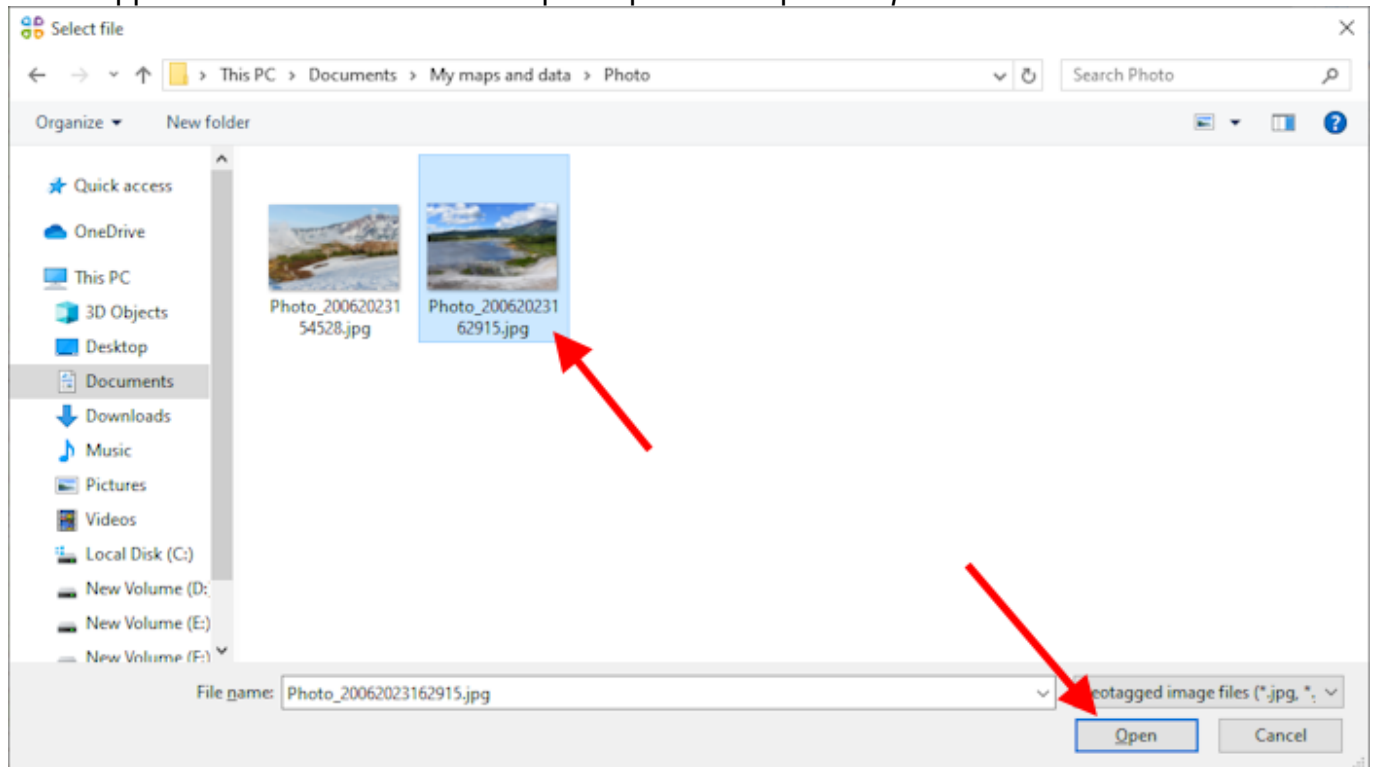
Creating point feature by photo

To create a new point feature by photo, press *Create feature* button and in the appeared panel



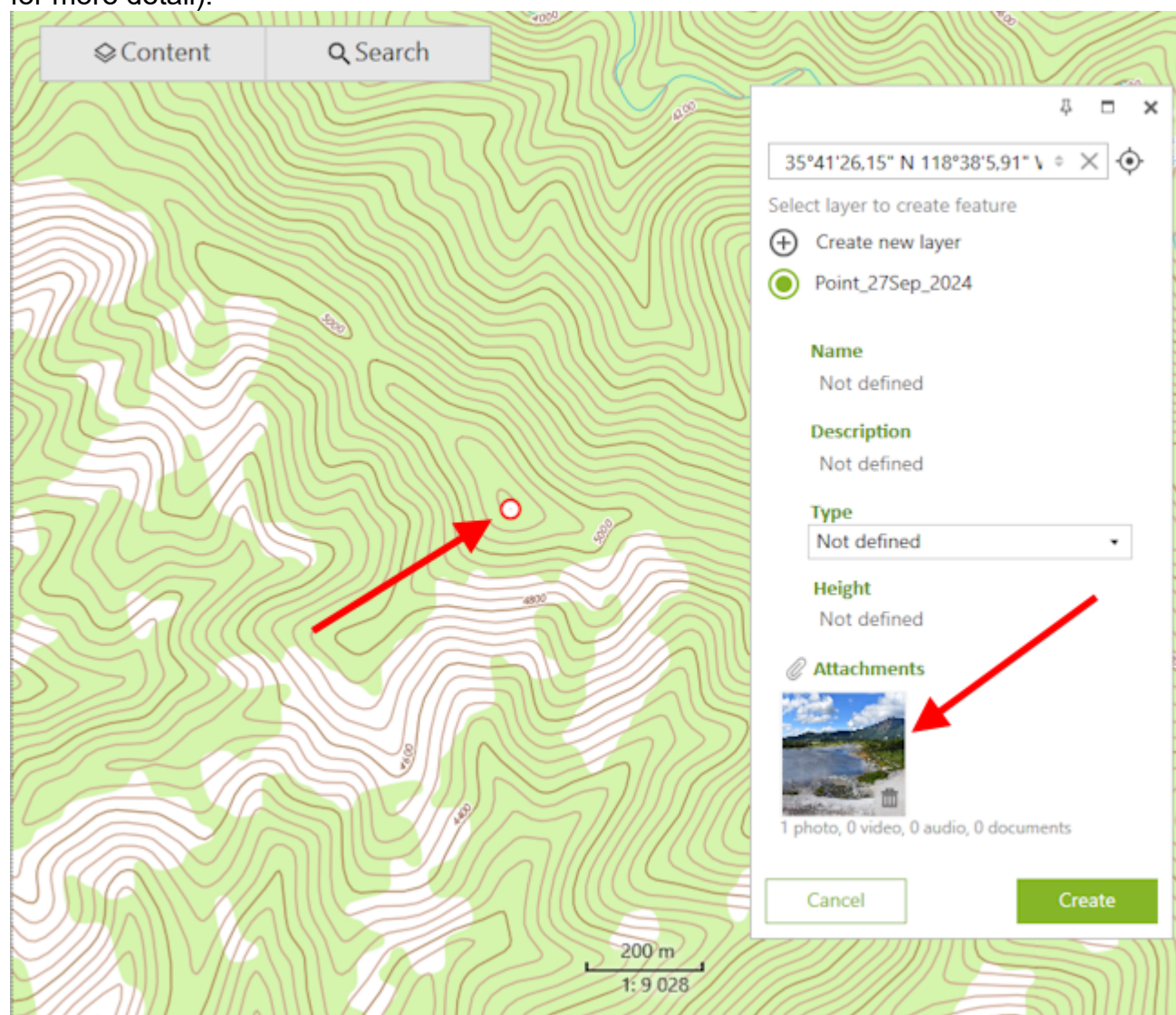
select *Create point by photo*.

In the appeared window select the required photo and press *Open*.



The coordinates of the selected photo will be used to create the point on your map and the photo will be added to the point as the attachment (see [Adding attachments to features](#) section)

for more detail).

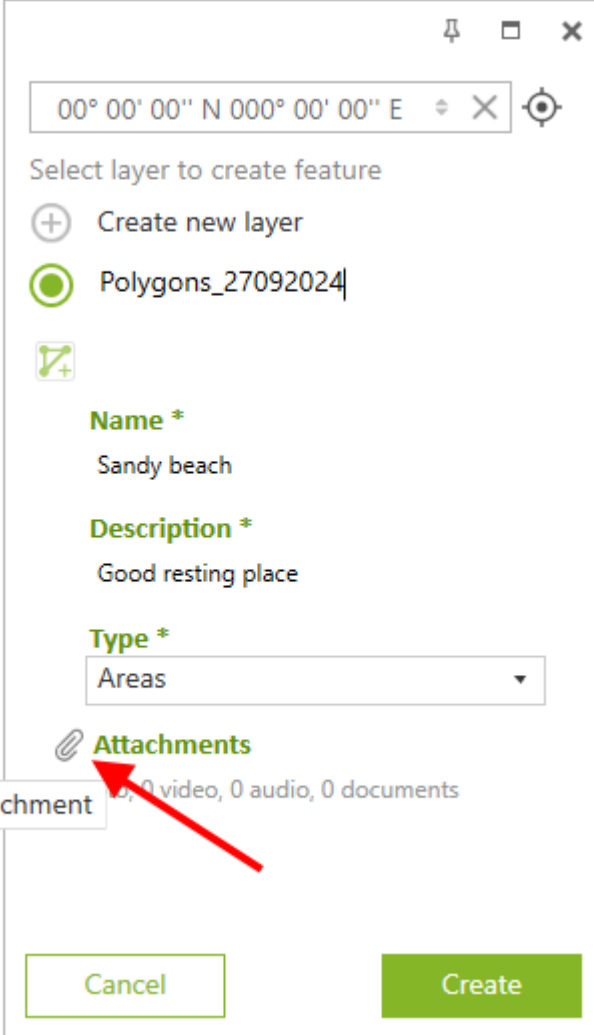


To finish the feature creation process, press *Create*.

Adding attachments to features

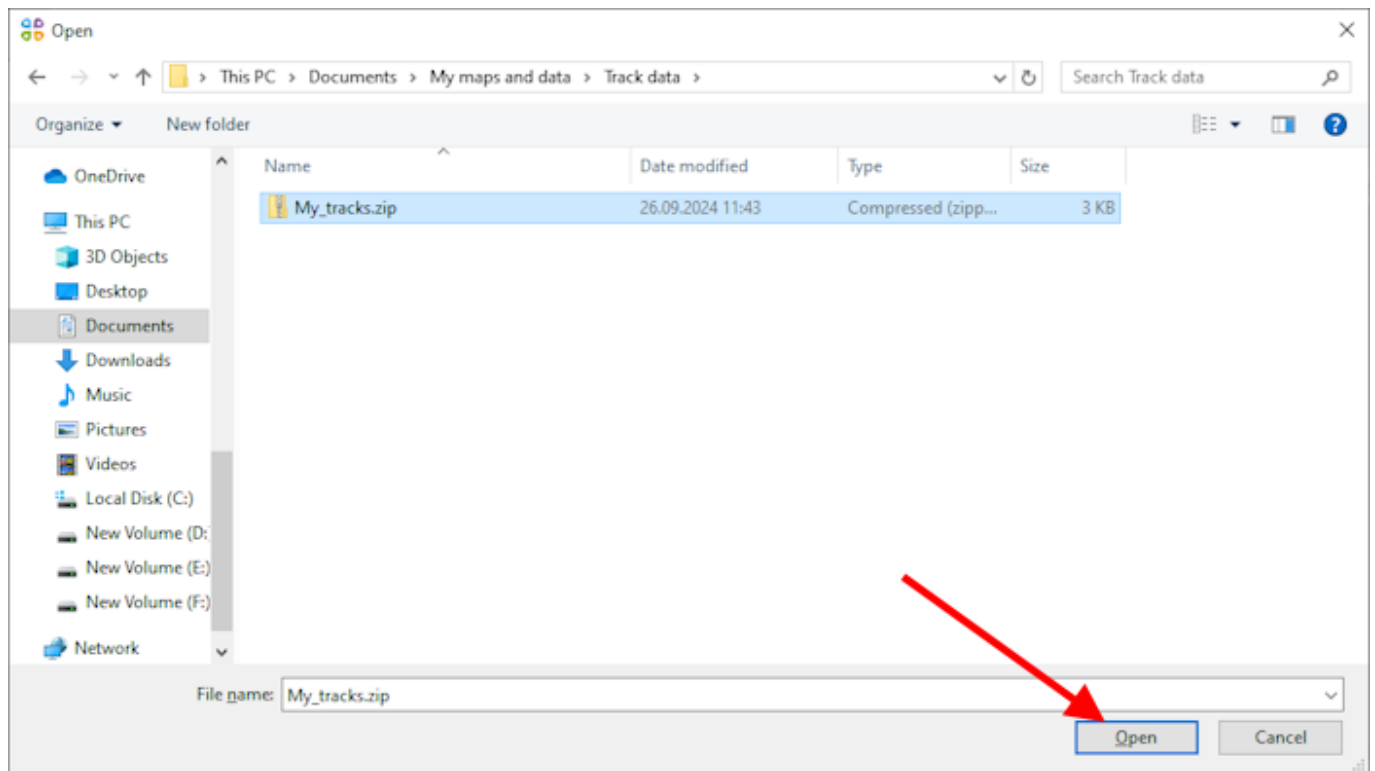
You can add attachments in jpeg, png, doc, pdf, txt, mp3, avi and other formats to your GeoPackage features.

To add attachment to feature, click on this feature on your map. In the appeared identification card press *Add attachment* button.



The screenshot shows a feature identification card for a GeoPackage. At the top, there is a coordinate field displaying "00° 00' 00" N 000° 00' 00" E" with a search icon and a close button. Below this is a section titled "Select layer to create feature" with two options: "Create new layer" (indicated by a plus icon) and "Polygons_27092024" (indicated by a green circle icon). A green checkmark icon is also present. The form includes three required fields: "Name *" with the value "Sandy beach", "Description *" with the value "Good resting place", and "Type *" with a dropdown menu currently set to "Areas". Below these fields is the "Attachments" section, which has a paperclip icon and the text "0 video, 0 audio, 0 documents". A red arrow points from a tooltip labeled "Add attachment" to the paperclip icon. At the bottom of the card are two buttons: "Cancel" and "Create".

In the appeared window select the file that needs to be attached and press *Open*.



The file will be attached to the feature.

The screenshot shows a feature creation dialog box. At the top, there is a coordinate field displaying '00° 00' 00" N 000° 00' 00" E'. Below this is a section titled 'Select layer to create feature' with a dropdown menu currently set to 'Polygons_27092024'. There are three main input fields: 'Name *' with the value 'Sandy beach', 'Description *' with the value 'Good resting place', and 'Type *' with a dropdown menu set to 'Areas'. Below these is an 'Attachments' section, indicated by a paperclip icon, showing '0 photo, 0 video, 0 audio, 1 documents'. A single attachment, 'My_tracks.zip', is listed with a size of '2 KB' and a trash icon next to it. At the bottom of the dialog are two buttons: 'Cancel' and 'Create'.

To delete added attachment, enable the feature editing mode and press *Delete* button.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer

Polygons_27092024

Name *

Sandy beach

Description *

Good resting place

Type *

Areas

Attachments

0 photo, 0 video, 0 audio, 1 documents

My_tracks.zip

2 KB

Cancel

Create

The attachment will be deleted but until the feature editing process is not finished you can undo deletion by pressing *Restore attachment* button.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer
Polygons_27092024

Name *
Sandy beach
Description *
Good resting place
Type *
Areas

Attachments
0 photo, 0 video, 0 audio, 1 documents

My_tracks.zip
2 KB

Cancel
Create

To view the file added to feature as attachment, click on the required file name in the list.

00° 00' 00" N 000° 00' 00" E

Select layer to create feature

Create new layer
Polygons_27092024

Name *
Sandy beach
Description *
Good resting place
Type *
Areas

Attachments
0 photo, 0 video, 0 audio, 1 documents

My_tracks.zip
2 KB

Cancel
Create

103b3293-636f-470b...
Extract

File
Home
Share
View
Compressed Folder Tools

Extract To *
Extract all

Extract To

< > << Temp > 103b3293-636...
Search 103b3293-63...

| Name | Type | Compressed size |
|----------------------|----------|-----------------|
| Lines_collection.cpg | CPG File | 1 KB |
| Lines_collection.dbf | DBF File | 1 KB |
| Lines_collection.prj | PRJ File | 1 KB |
| Lines_collection.qix | QIX File | 1 KB |
| Lines_collection.shp | SHP File | 1 KB |
| Lines_collection.shx | SHX File | 1 KB |

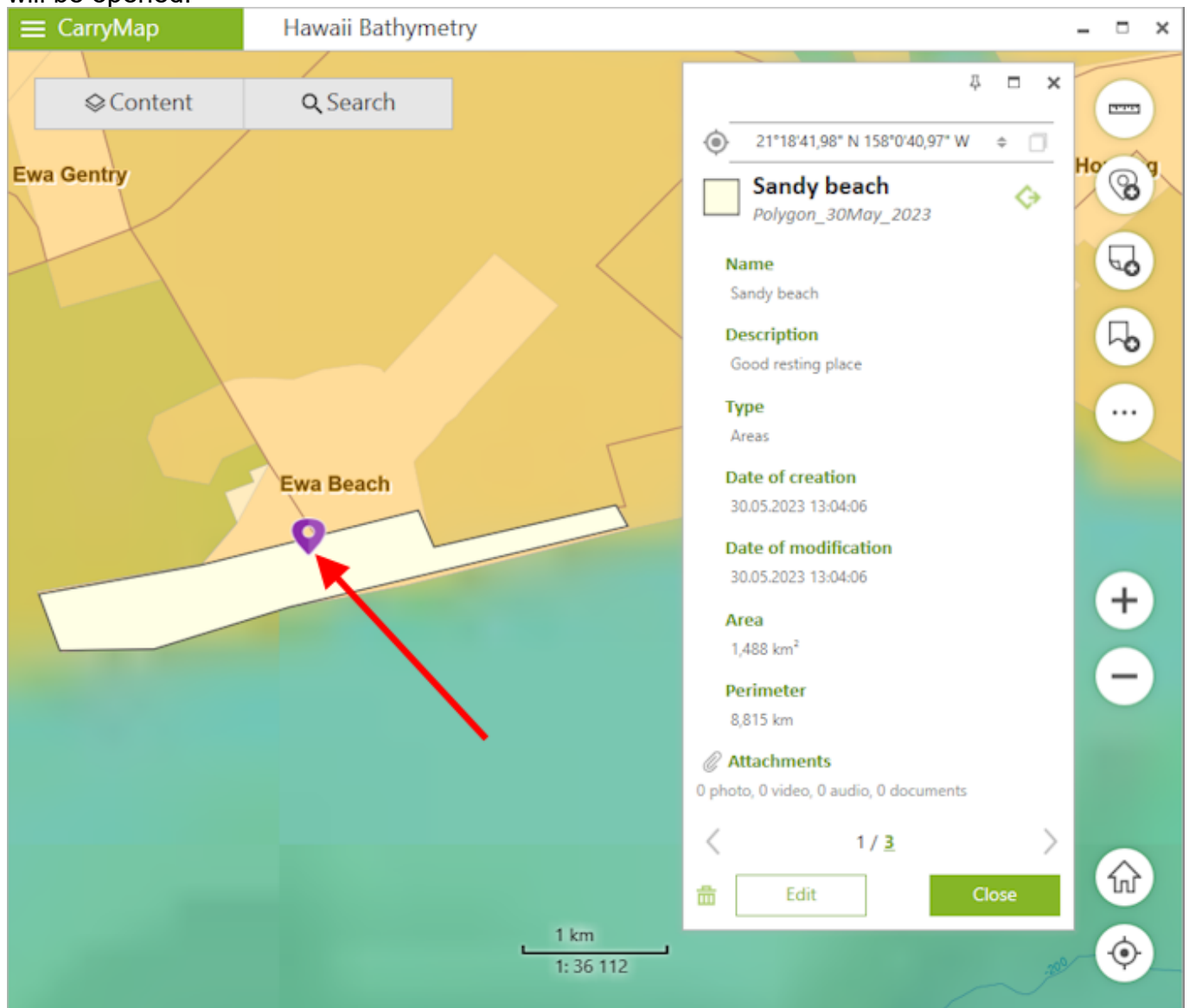
6 items

Note!

By importing GeoPackage file to ArcGIS using the CarryMap Builder Import GeoPackage tool all added attachments are also imported to ArcGIS.

Editing and deleting features

To edit created GeoPackage feature, click on it. It will be marked with the pushpin and its card will be opened.



To start editing feature, press *Edit*.

21°18'41,98" N 158°0'40,97" W

Sandy beach

Polygon_30May_2023

Name

Sandy beach

Description

Good resting place

Type

Areas

Date of creation

30.05.2023 13:04:06

Date of modification

30.05.2023 13:04:06

Area

1,488 km²

Perimeter

8,815 km

Attachments

0 photo, 0 video, 0 audio, 0 documents

<

1 / 3

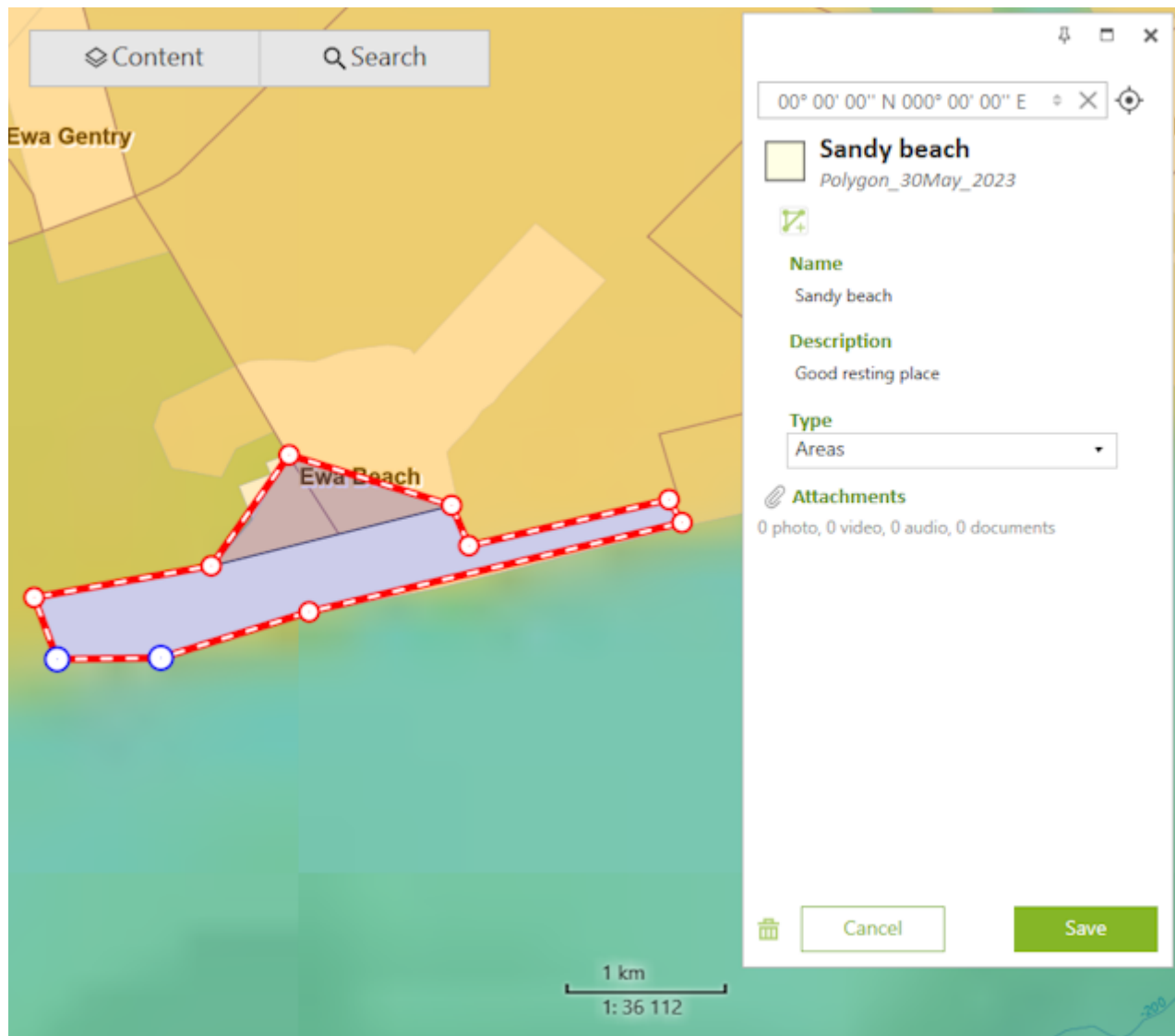
>

Edit

Close

In the editing mode you can change feature geometry:

- To delete the point, click on it.
- To add the new point, click on the required place of the map.
- To replace the point, select it on the map, then hold and drag it to the needed place.



To save made changes, press **Save**.

00° 00' 00" N 000° 00' 00" E

Sandy beach
Polygon_30May_2023

Name
Sandy beach

Description
Good resting place

Type
Areas

Attachments
0 photo, 0 video, 0 audio, 0 documents

Cancel

Save

In the editing mode you can also change name and description of feature. To change feature name, press *Edit* in the feature card and click on the *Name* field.

00° 00' 00" N 000° 00' 00" E

Sandy beach
Polygon_30May_2023

Name
Sandy beach

Description
Good resting place

Type
Areas

Attachments
0 photo, 0 video, 0 audio, 0 documents

Cancel

Save

Enter the new name and press **Save**.

To change feature description, press *Edit* in the feature card and click on the *Description* field.

00° 00' 00" N 000° 00' 00" E

Sandy beach

Polygon_30May_2023

Name

Sandy beach

Description

Good resting place

Type

Areas

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Save

Enter the info and press **Save**.

To delete feature, select it on the map and press *Delete* in the appeared feature card.

00° 00' 00" N 000° 00' 00" E

Sandy beach
Polygon_30May_2023

Name
Sandy beach

Description
Good resting place

Type
Areas

Attachments
0 photo, 0 video, 0 audio, 0 documents

Cancel

Save

Press **OK**. The feature will be deleted.

CarryMap

Are you sure, you want to delete this feature?

OK

Cancel

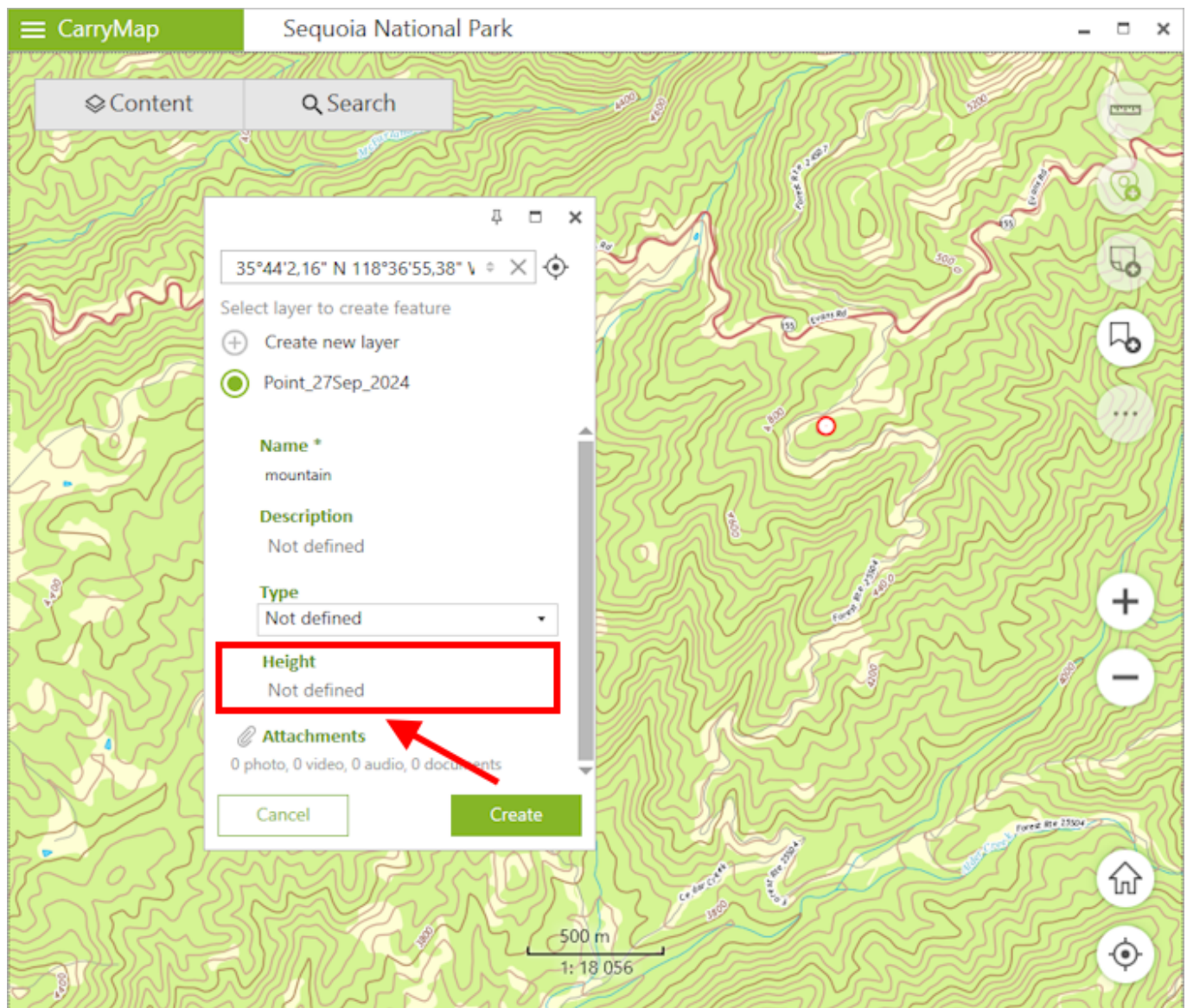
Adding and viewing Z coordinates (height) of point features

Adding Z coordinates to point features

Adding Z coordinates (height) to point features is available when creating and editing features on the map.

Note that adding and editing the Z coordinate values of point features is only available in GeoPackage layers that support storing information about the height of features.

To add or edit Z coordinate value of a point feature, during the process of creating or editing feature go to the value entry line in the *Height* field of the feature identification card.



Enter the required value and press *Create* or *Save* button.

35°44'2,16" N 118°36'55,38" V

Select layer to create feature

Create new layer

Point_27Sep_2024

Name *

mountain

Description

Not defined

Type

Not defined

Height

1958

Attachments

0 photo, 0 video, 0 audio, 0 documents

Cancel

Create

Viewing Z coordinates of point features

Information about Z coordinate of GeoPackage point features is displayed in the additional virtual field *Height* in the feature identification card.

35°44'1,85" N 118°36'55,38" W

mountain

Point_27Sep_2024

Name

mountain

Description

Not defined

Type

Peak

Date of creation

27.09.2024 10:40:45

Date of modification

27.09.2024 10:40:45

Feature GUID

a71bc381-f5b9-4306-b242-be07c7af867f

Height

1958 m

Attachments

0 photo, 0 video, 0 audio, 0 documents

<

1 / 3

>

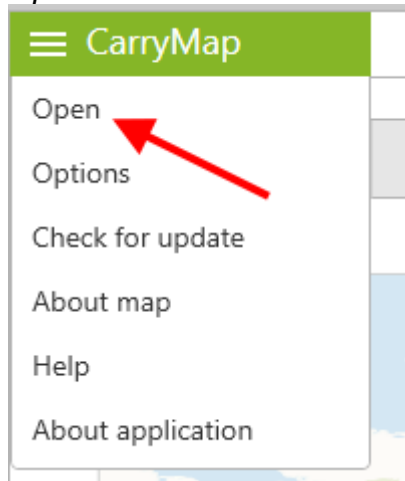
Edit

Close

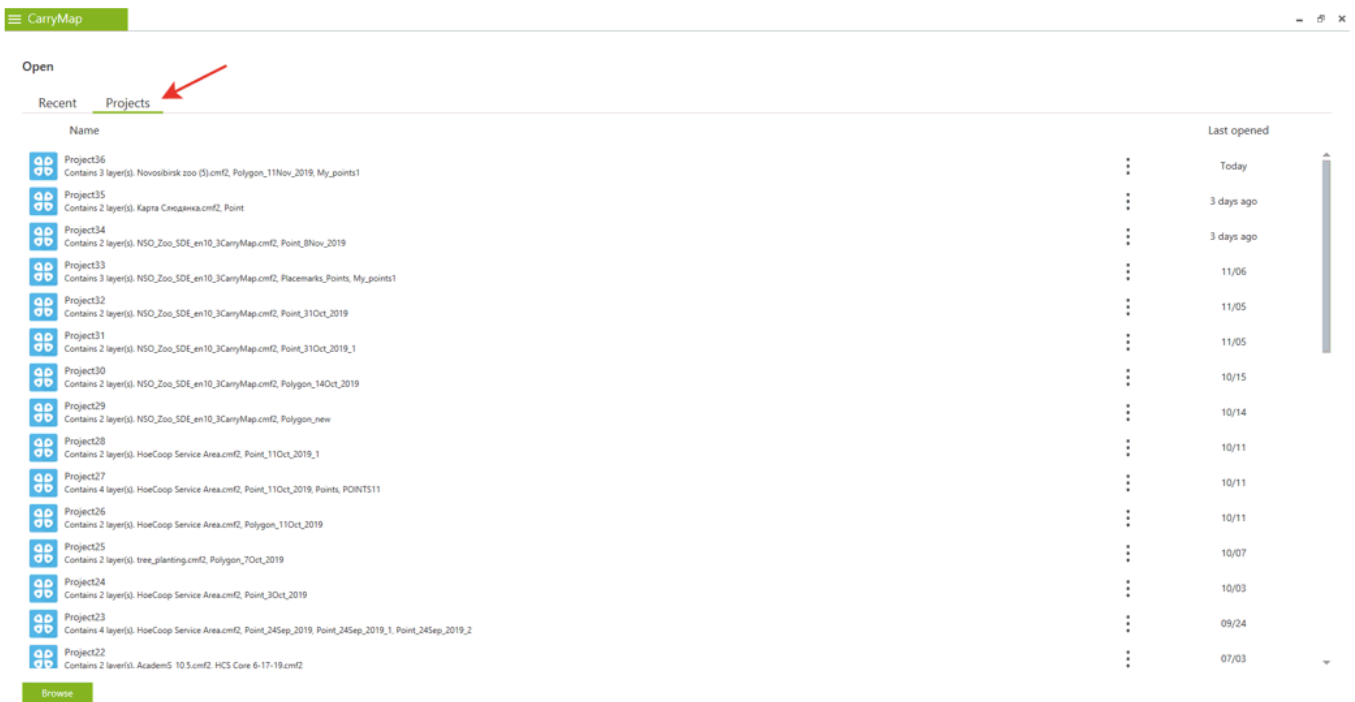
The units selected in the [Application settings](#) are used as the measurement units.

Export project

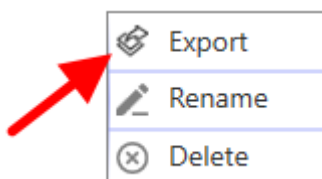
You can export a set of project layers to a common archive file .CMPRJ. To do so, go to the *Open* menu item.



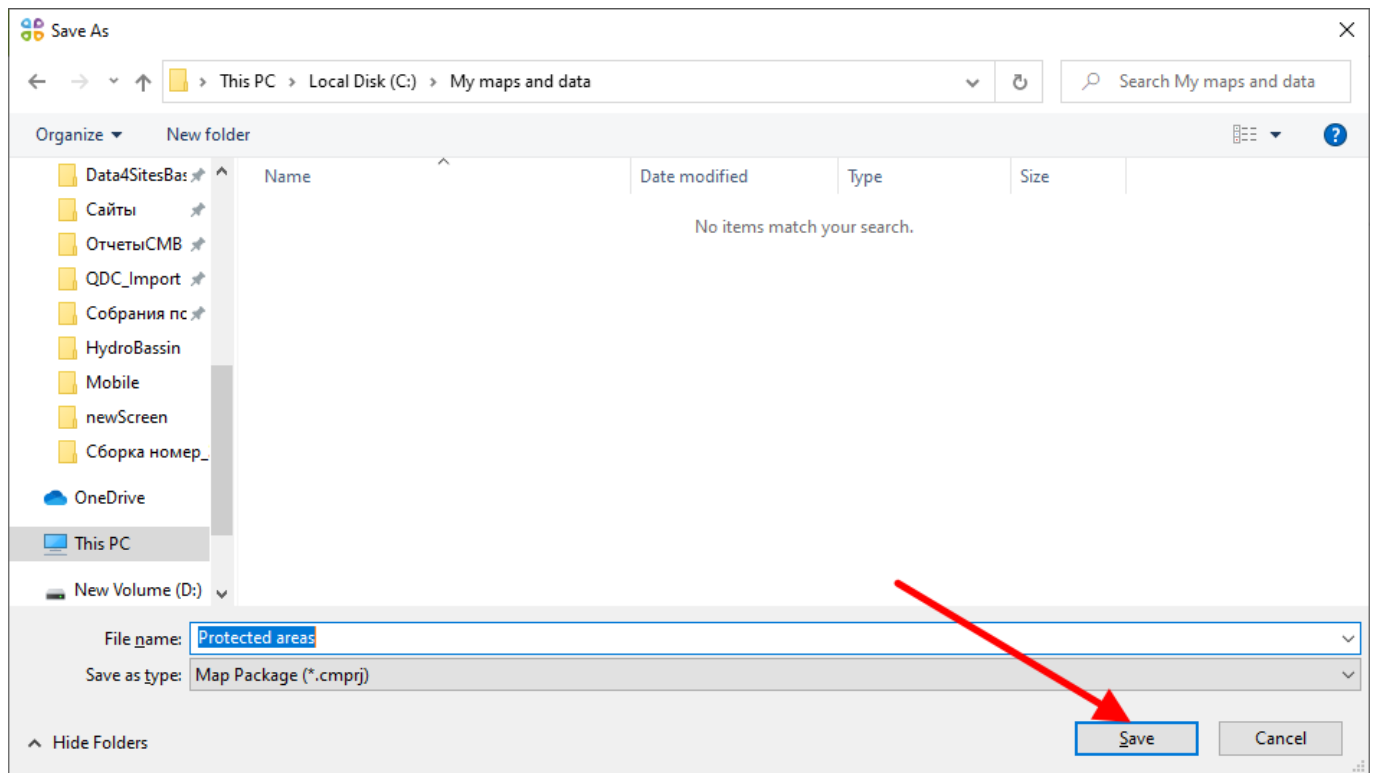
Go to *Projects*.



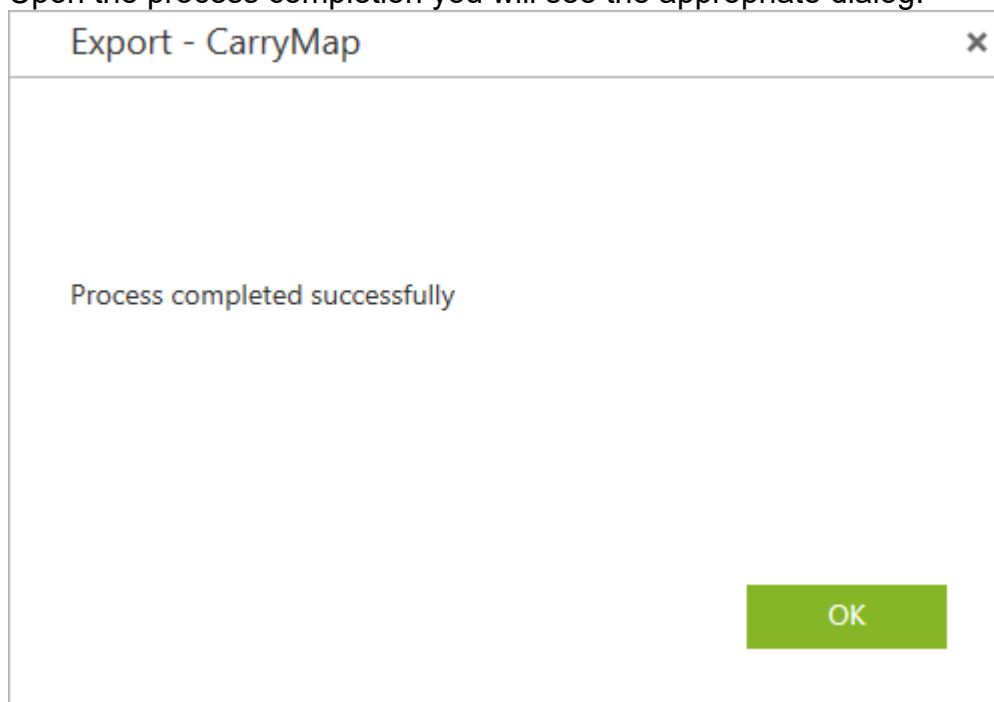
Press the three dots icon near the project that needs to be exported and select *Export*.



In the appeared window specify the output file location and name and click *Save*.



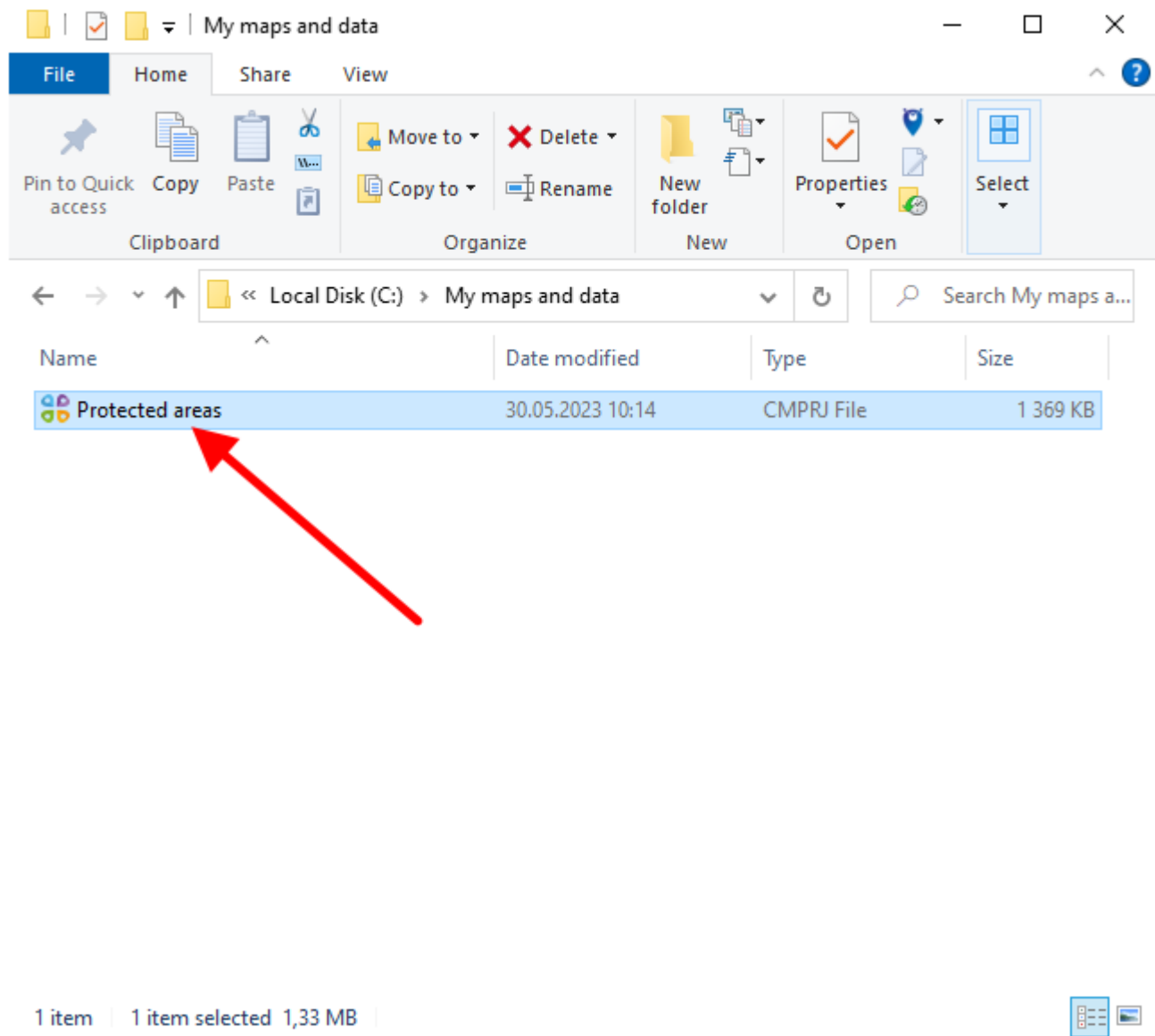
Upon the process completion you will see the appropriate dialog.



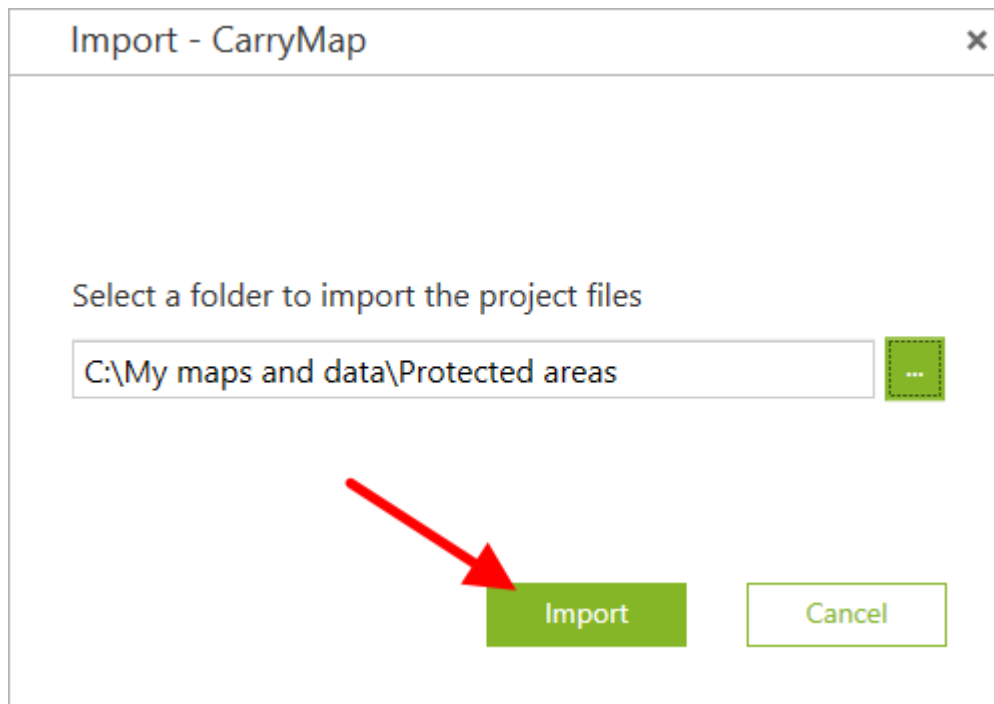
Make sure that the output file has been saved to specified folder.

Import project

To open the project archive file created with CarryMap app, double-click on the required .CMPRJ file in the explorer.



In the appeared window specify the output folder location for importing project files and click *Import*.

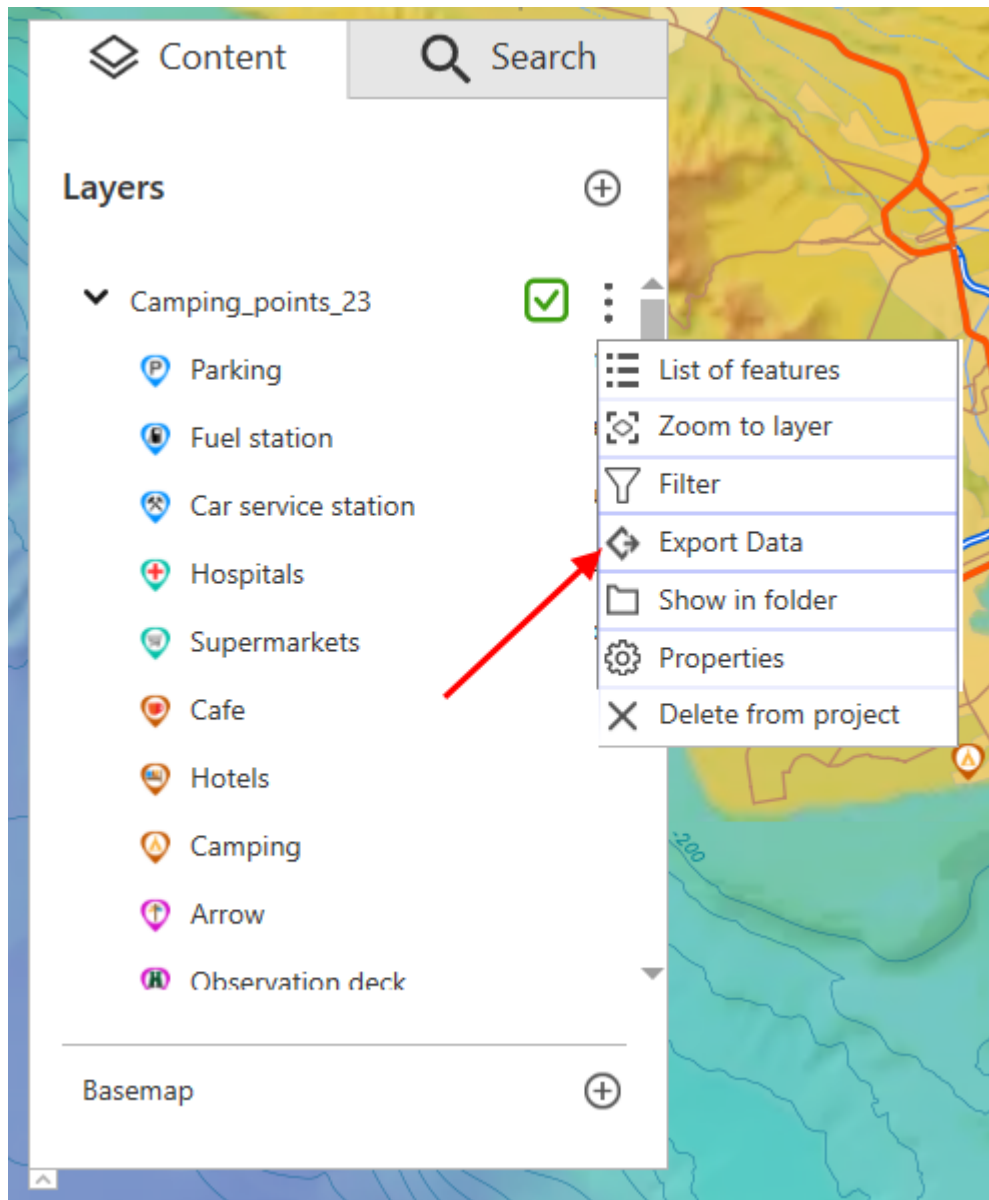


The project will be automatically opened upon the process completion.

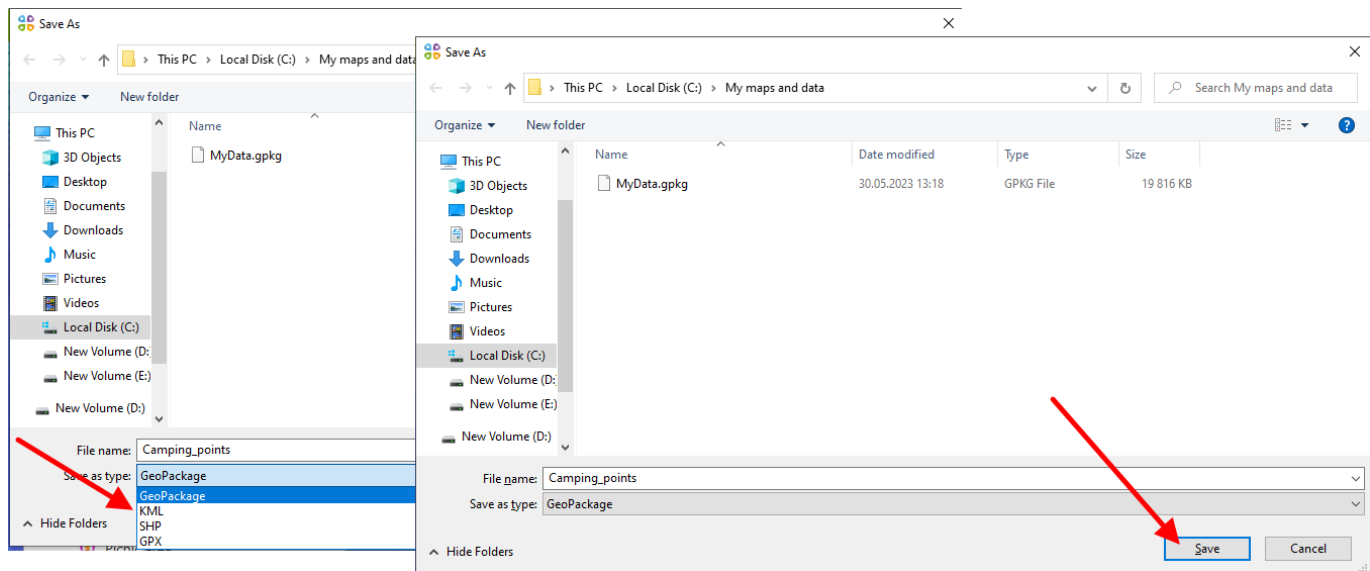
Export layers and features

You can export GeoPackage layers to GeoPackage, SHP, KML/KMZ or GPX formats.

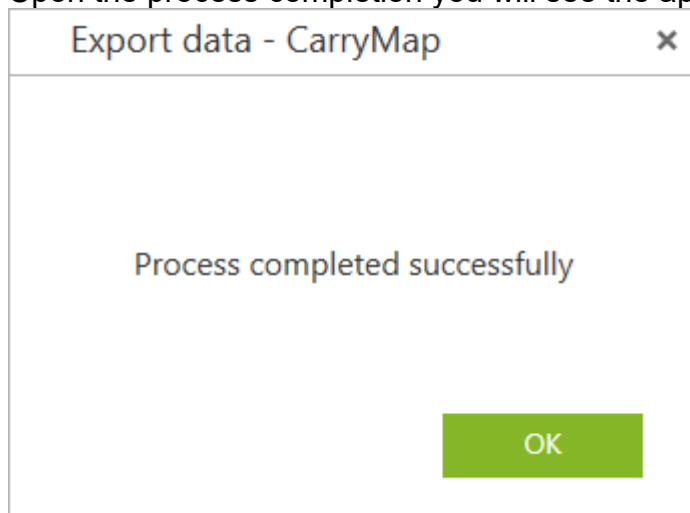
To do this, select one or multiple GeoPackage layers, right-click to expand the layer menu in the table of contents or click the three dots icon near the required layer, and select *Export Data*.



In the appeared window specify the output file location and name, select the required format and click **Save**.

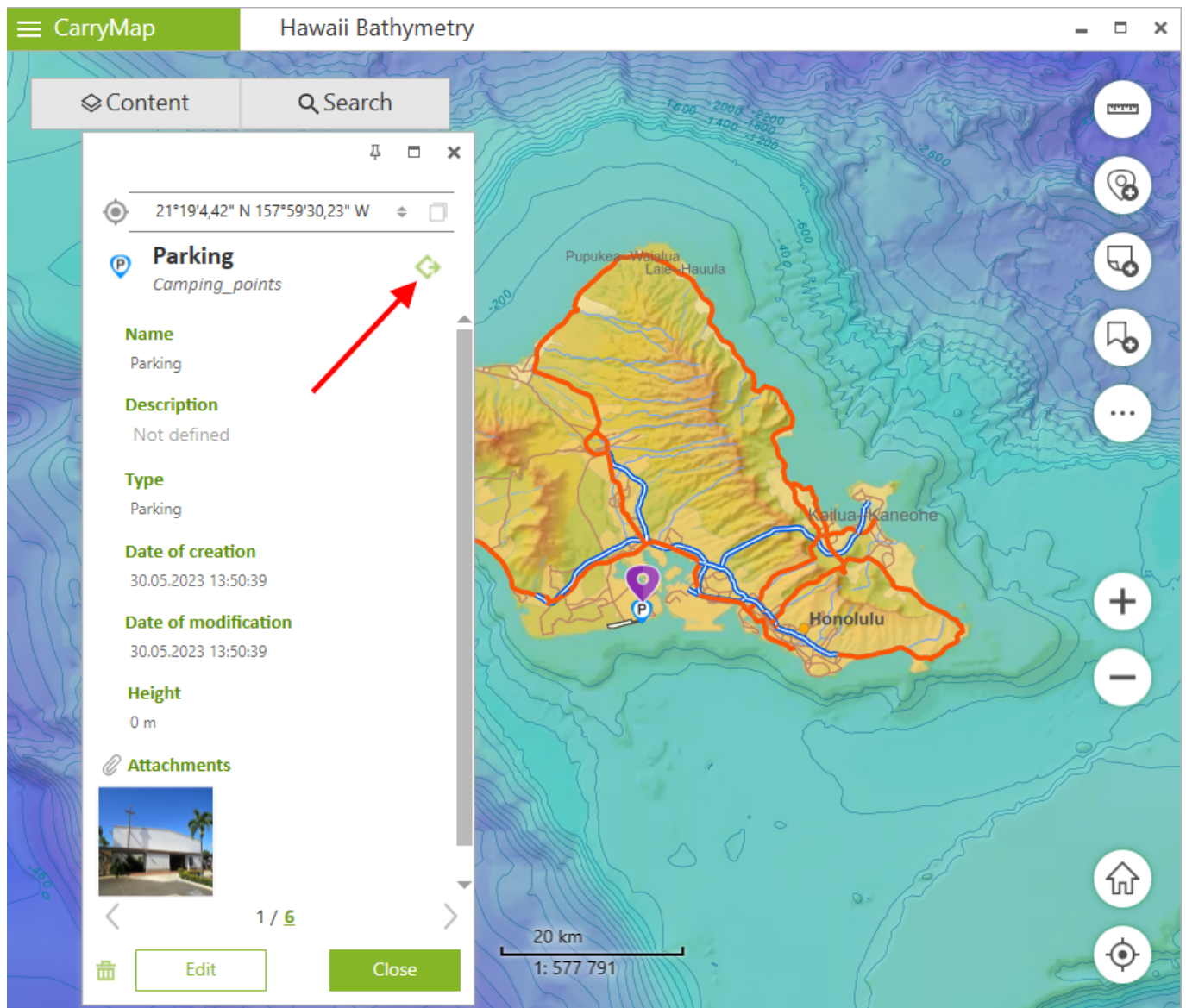


Upon the process completion you will see the appropriate dialog.

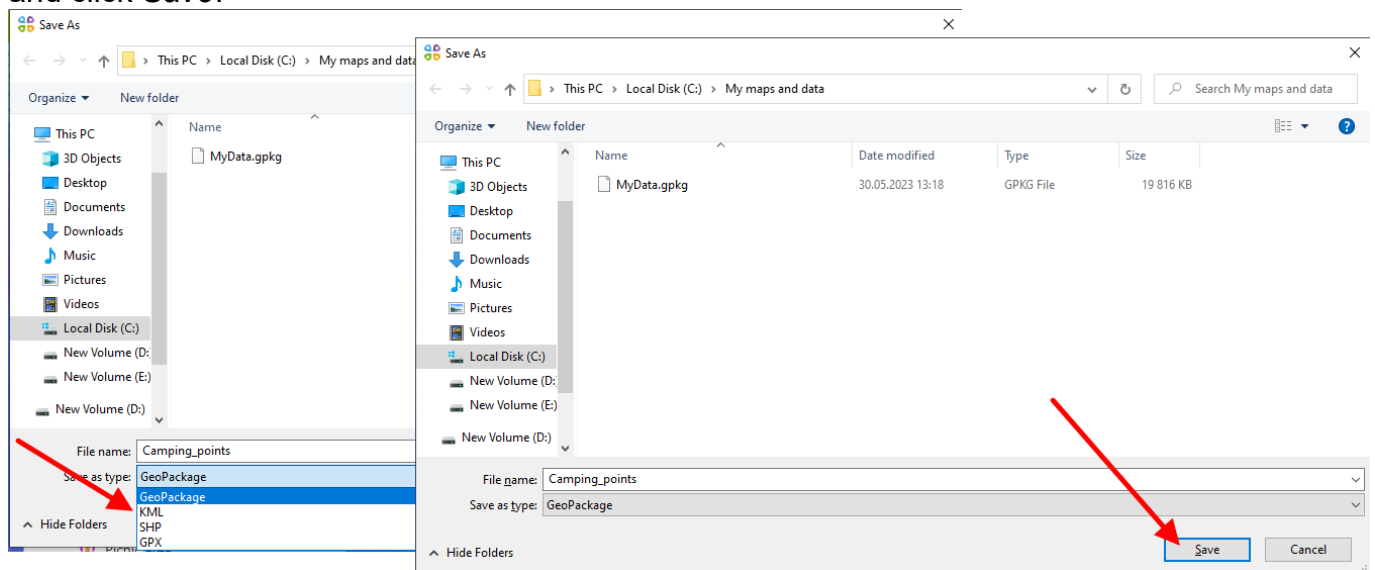


Make sure that the output file has been saved to specified folder.

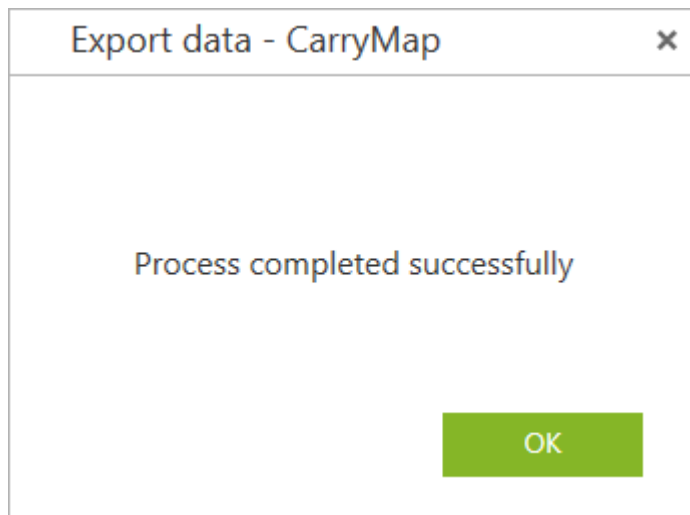
In addition, you can export a single feature from the GeoPackage layer, to do this, click on this feature and click *Export* in the appeared identification card.



In the appeared window specify the output file location and name, select the required format and click **Save**.



Upon the process completion you will see the appropriate dialog.

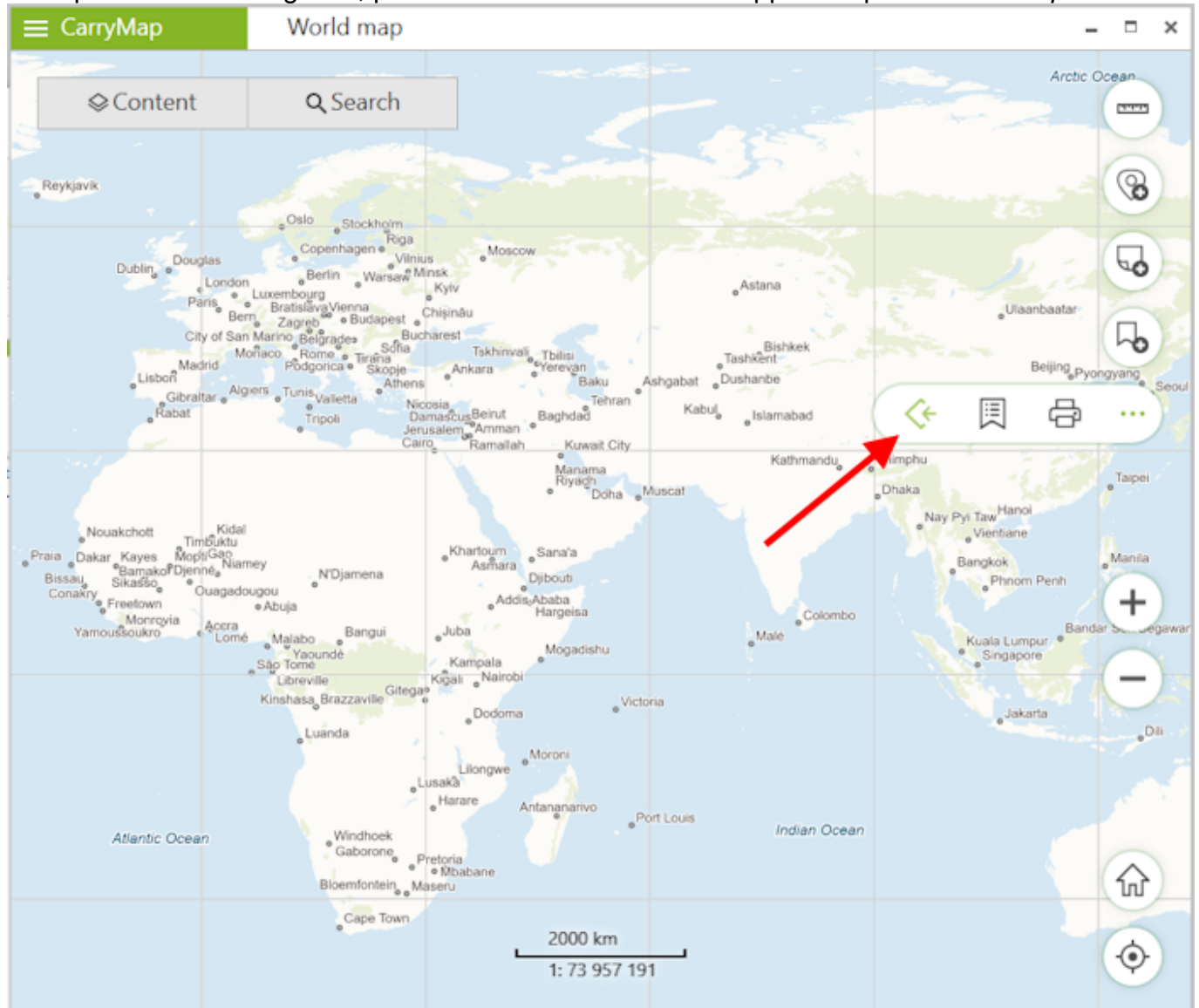


Make sure that the output file has been saved to specified folder.

Importing layers and features

The GeoPackage layer data can be imported to an existing GeoPackage file.

To import a GeoPackage file, press *Tools* button and in the appeared panel select *Import data*.



The *Import data* tool window will appear.

Import data - CarryMap

Input GeoPackage

Input GeoPackage

...

Output GeoPackage

Output GeoPackage

...

| | | | | |
|--------------------------|-------|--------------------|------------|------------------------|
| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
| | | | | |

☐ Add data to map

Import

In the *Input GeoPackage* section press *Browse* button and select the required GeoPackage file.

Input GeoPackage

Input GeoPackage

...

Now select the output GeoPackage file.

To do so, in the *Output GeoPackage* section press *Browse* button and select the required file.

Output GeoPackage

Output GeoPackage

...

Now you need to select layers for import from the input GeoPackage file. The layers will be displayed in the window.

Import data - CarryMap

Input GeoPackage

C:\My maps and data\Import data\Update data 2023.gpkg

Output GeoPackage

C:\My maps and data\Import data\Main data collection.gpkg

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|--------------------------|---|--------------------|--------------------------|------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Camping_points |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

☐ Add data to map

Import

Check the boxes near the layers that need to be selected.

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|--------------------------|---|--------------------|--------------------------|------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Camping_points |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

To select all layers at a time, check *Select all* option.

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|--------------------------|---|--------------------|--------------------------|------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Camping_points |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

Now select layers for importing from the output GeoPackage file or create the new layers.

To import layer to the previously created layer of the GeoPackage file, check the box near the layer and select the required layer from the drop-down list.

Import data - CarryMap

Input GeoPackage

C:\My maps and data\Import data\Update data 2023.gpkg

Output GeoPackage

C:\My maps and data\Import data\Main data collection.gpkg

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|-------------------------------------|--|--------------------|--------------------------|------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Camping_points |
| <input type="checkbox"/> | <input type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Camping_points |
| <input type="checkbox"/> | <input type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | POI_collection |

☐ Add data to map

Select an import to an existing layer

☒ Update ⓘ

☐ Save ⓘ

☐ Merge ⓘ

Import

The selected layer will be shown in the layer string.

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|-------------------------------------|--|--------------------|--------------------------|------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Point_14Nov_2022 |
| <input type="checkbox"/> | <input type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

Please note that attribute table of the output layers, where to import will be done, will be changed according to the attribute table of the imported GeoPackage files.

To import GeoPackage layer to the new layer, check the box near this layer.

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|-------------------------------------|--|--------------------|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input checked="" type="checkbox"/> | |
| <input type="checkbox"/> | <input type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

The layer with the name of the input GeoPackage layer will be saved in the output GeoPackage file.

To add imported data to the current map, check *Add data to map* option.

Upon the tool work completion all selected layers will be added to the current project.

Import to the existing layer can be done using the following importing options:

- **Update** - only changed and new features are imported. Note that by using this option, the data fields *feature_guid* (Feature GUID) and *modification_date* (Modification date) must be filled in.
- **Save** – all features are imported and the source features in the selected layer of the output GeoPackage file are deleted.
- **Merge** – all features are imported and the source features in the selected layer of the output GeoPackage file are saved.

By default, the *Update* option is used for importing GeoPackage files.

To change the import option, check the box near the needed option.

Import data - CarryMap

Input GeoPackage

C:\My maps and data\Import data\Update data 2023.gpkg

Output GeoPackage

C:\My maps and data\Import data\Main data collection.gpkg

| <input type="checkbox"/> | Layer | Number of features | Create new | Select from GeoPackage |
|-------------------------------------|---|--------------------|--------------------------|------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> POI_collection | 5 | <input type="checkbox"/> | Point_14Nov_2022 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Lines_collection | 2 | <input type="checkbox"/> | Polyline_14Nov_2022 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Polygons_collection | 1 | <input type="checkbox"/> | Fields_update_2022 |

☐ Add data to map

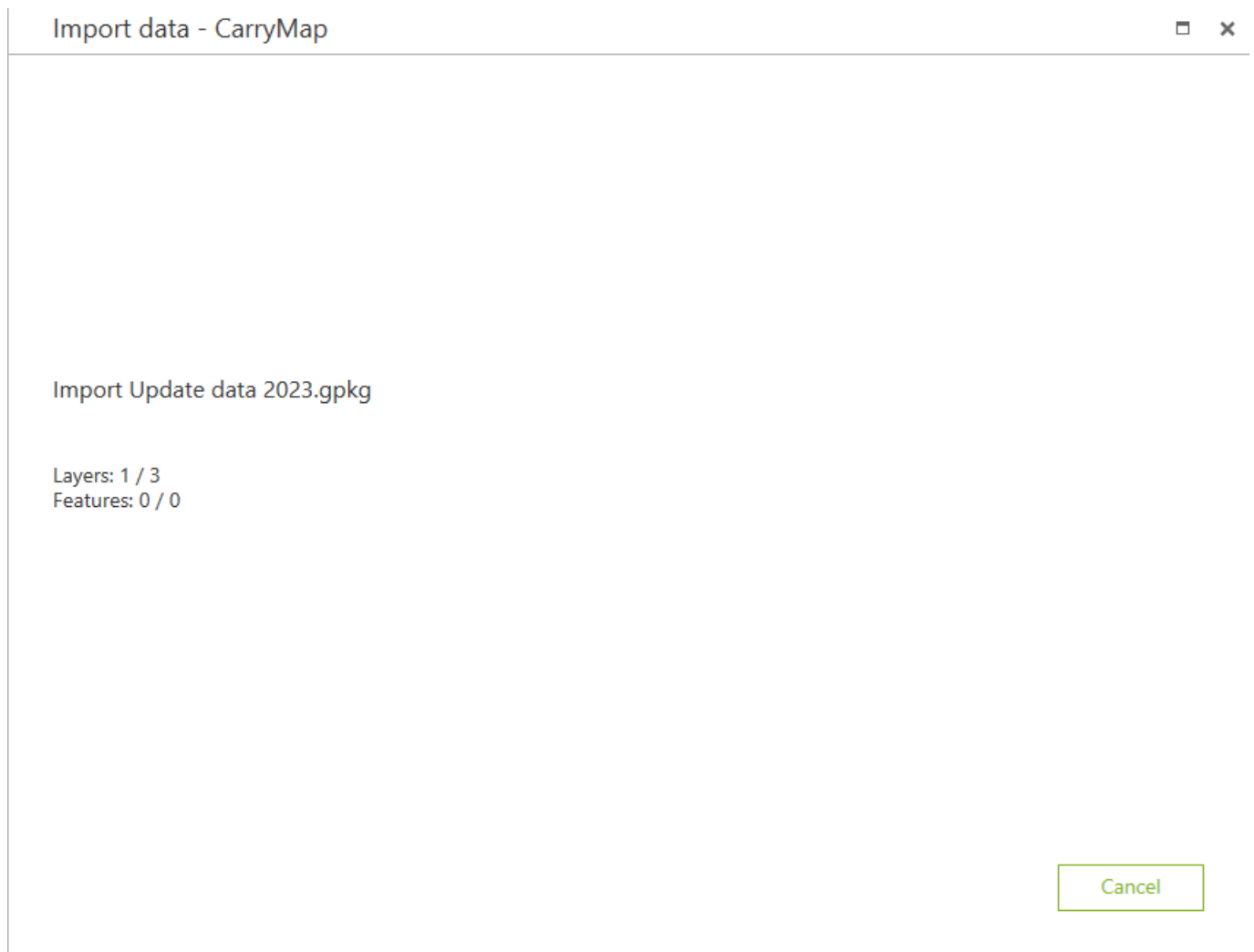
Select an import to an existing layer

☒ Update ⓘ
☐ Save ⓘ
☐ Merge ⓘ

Import

After making all importing settings press *Import* button.

The *Import from GeoPackage* window will open.



To cancel importing process, press *Cancel* button.

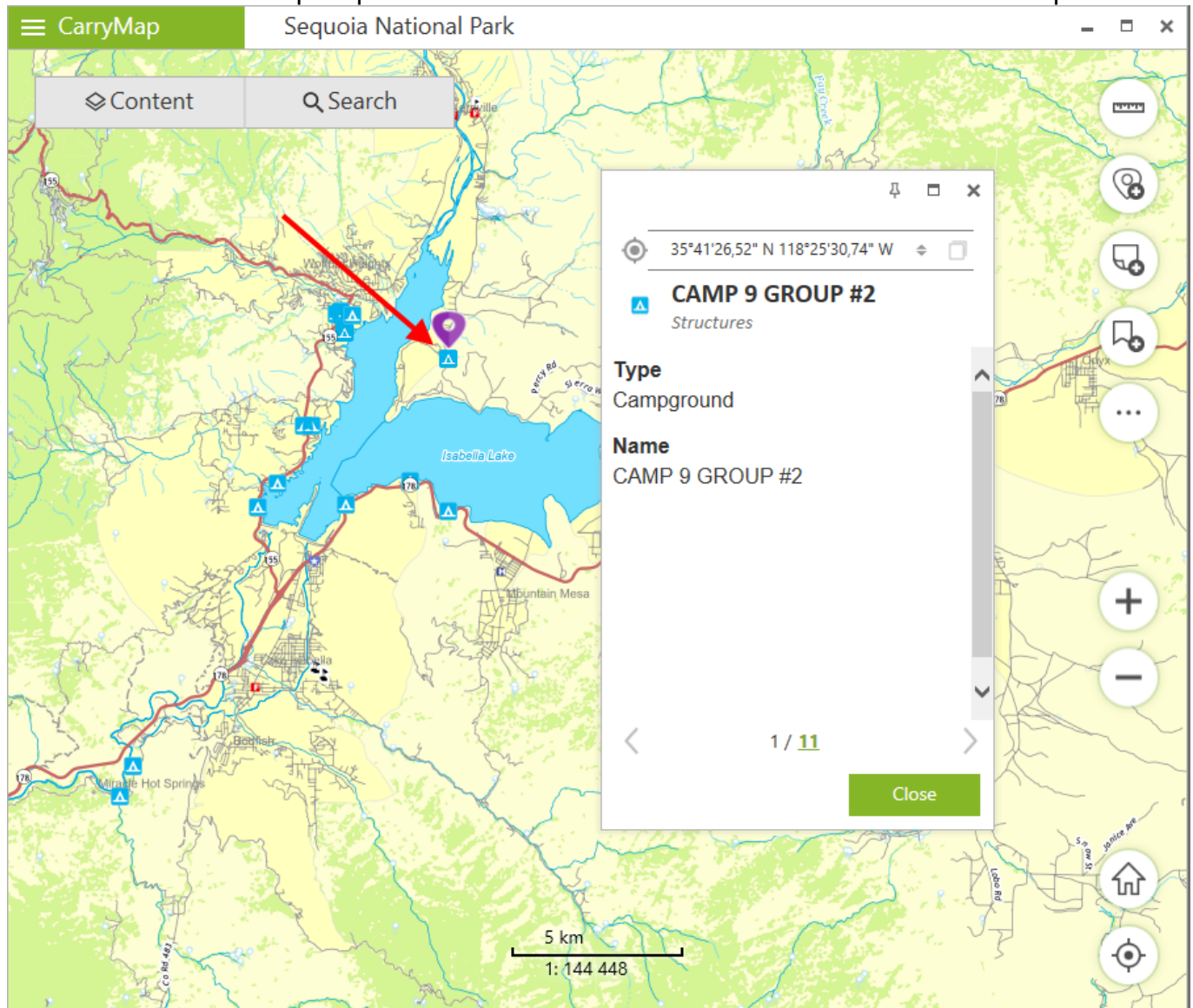
Upon import completion, the corresponding message will appear.

Process completed successfully

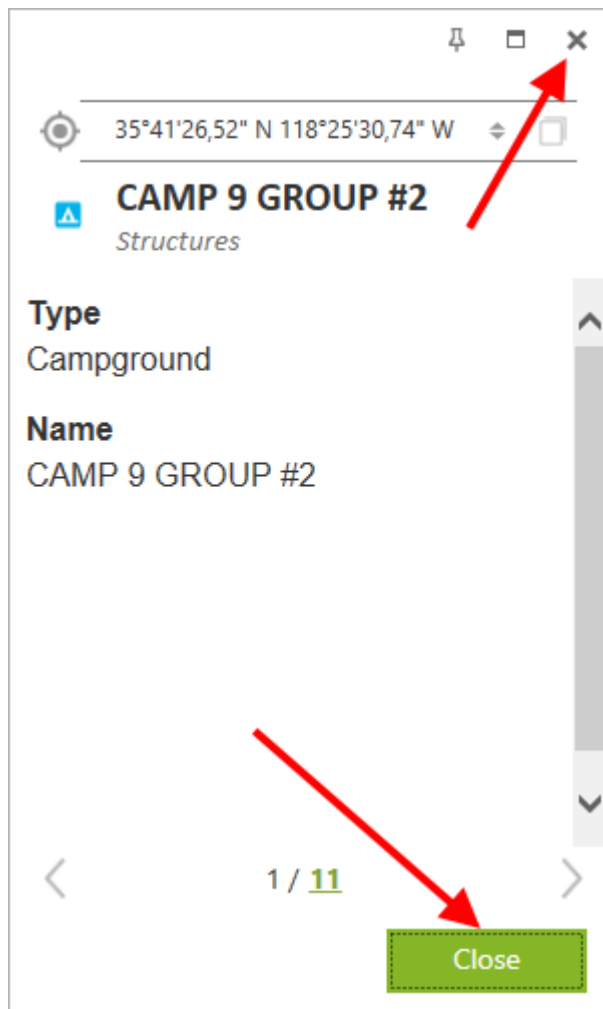
OK

Identifying map data

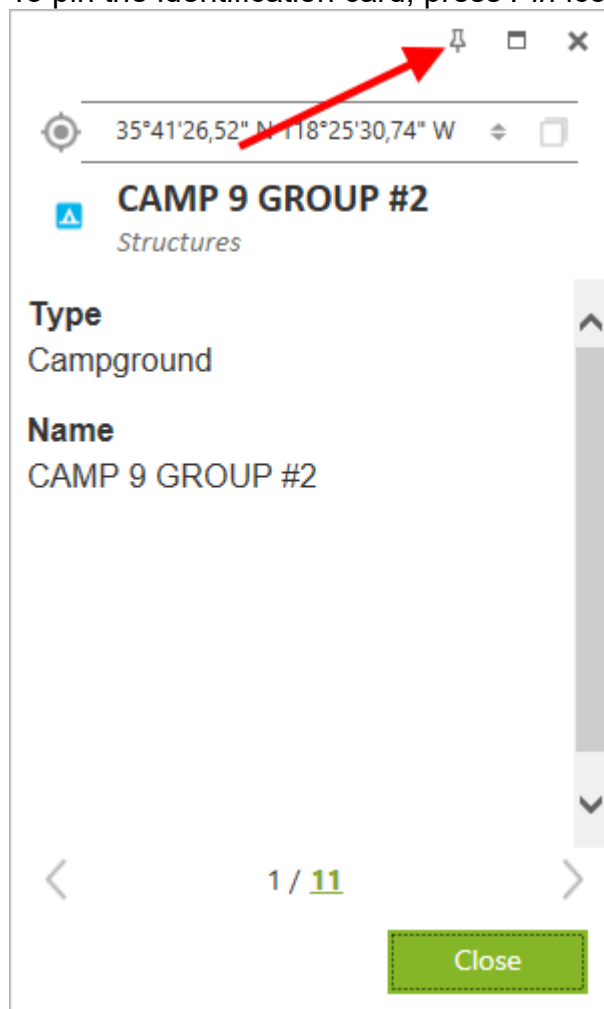
To view information about specific feature from the dataset or the map, click on this feature, it will be marked with the pushpin and its identification card with all information will be opened.



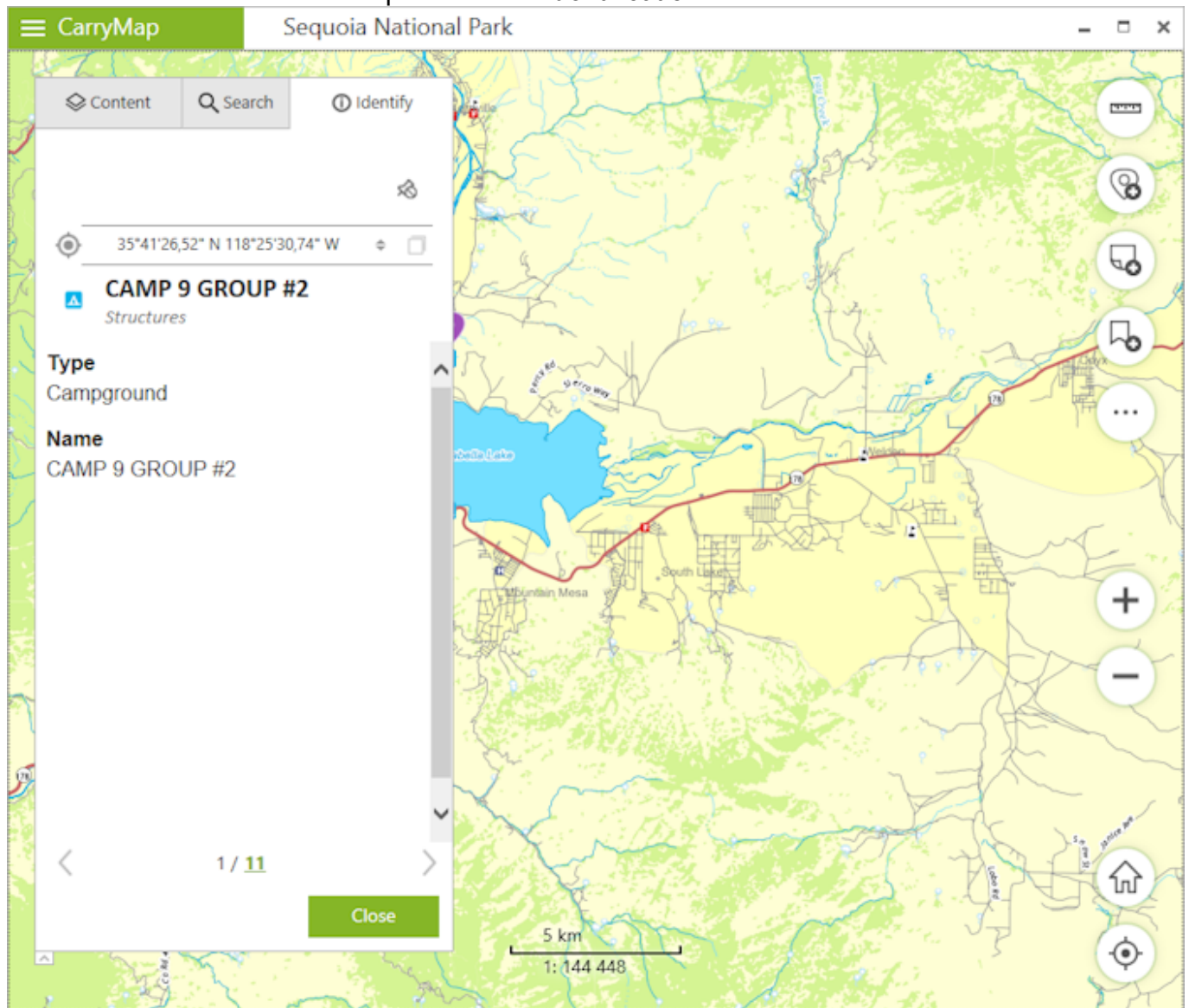
To close the identification card, press *Close* button or cross icon in the upper right corner.



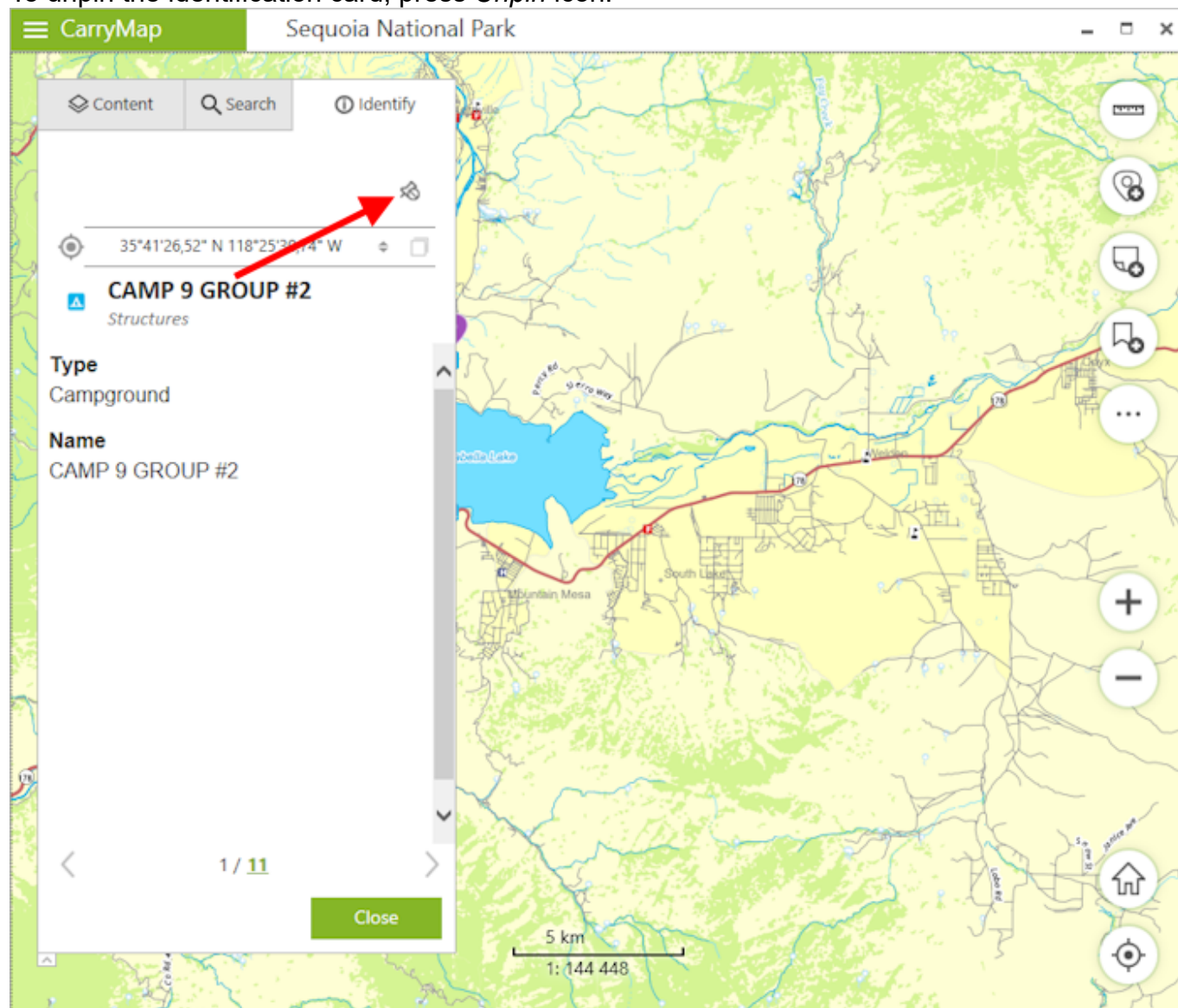
To pin the identification card, press *Pin* icon in the upper right corner.



The identification card will be opened in the *Identification* tab.

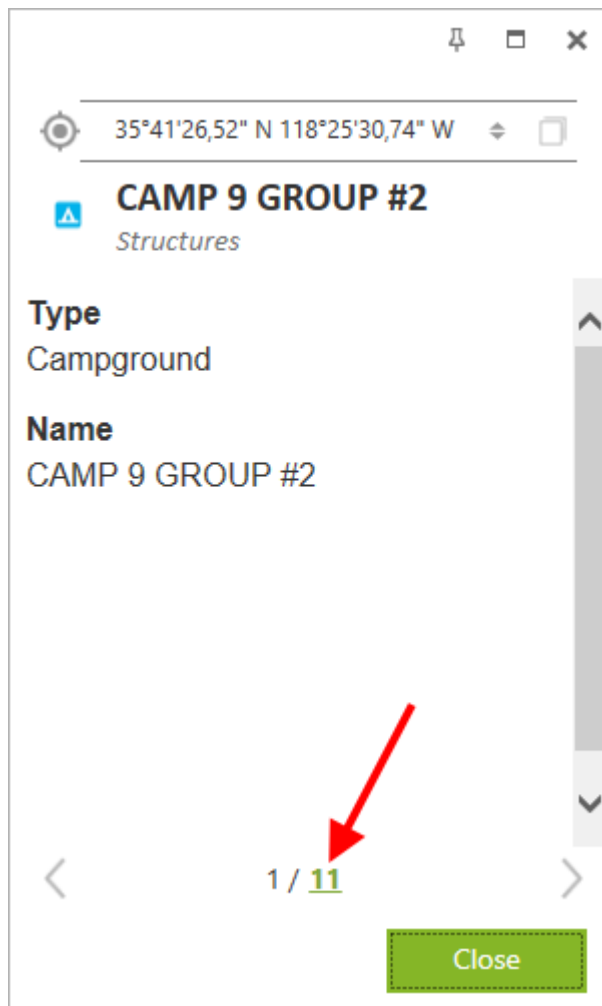


To unpin the identification card, press *Unpin* icon.

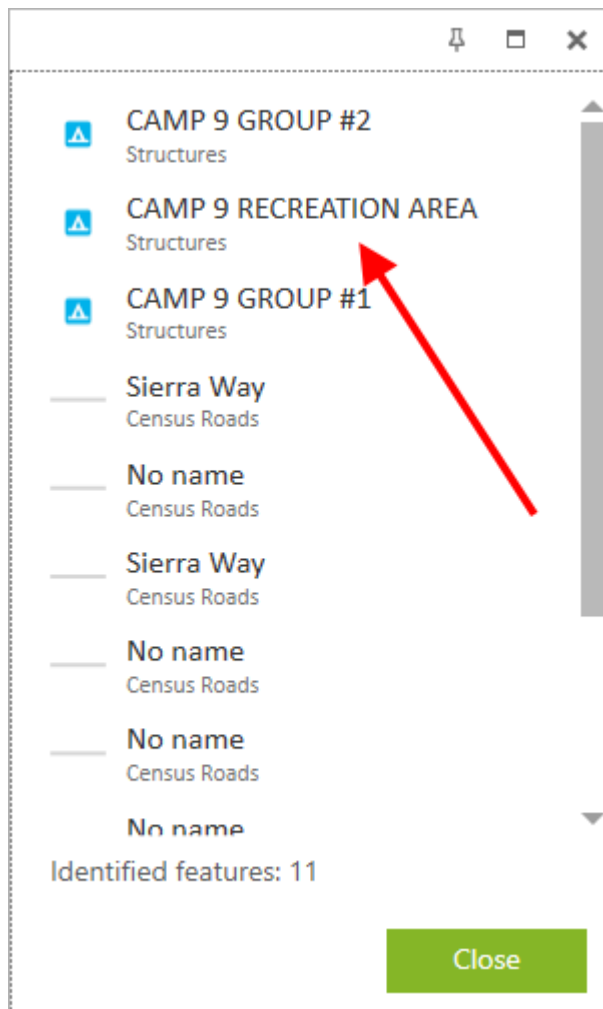



The identification card will be opened near the selected feature.

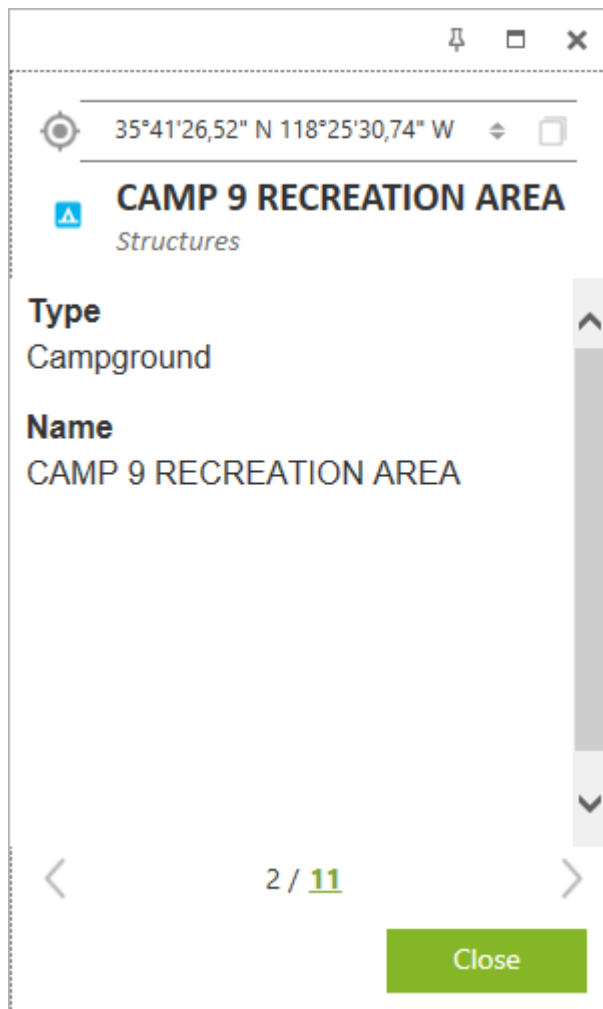
To view all features fallen to the click area on the map, press the number in the identification card showing their total quantity.



The list of features will be shown. To open identification card of one of the features and to show it on the map, click on this feature.



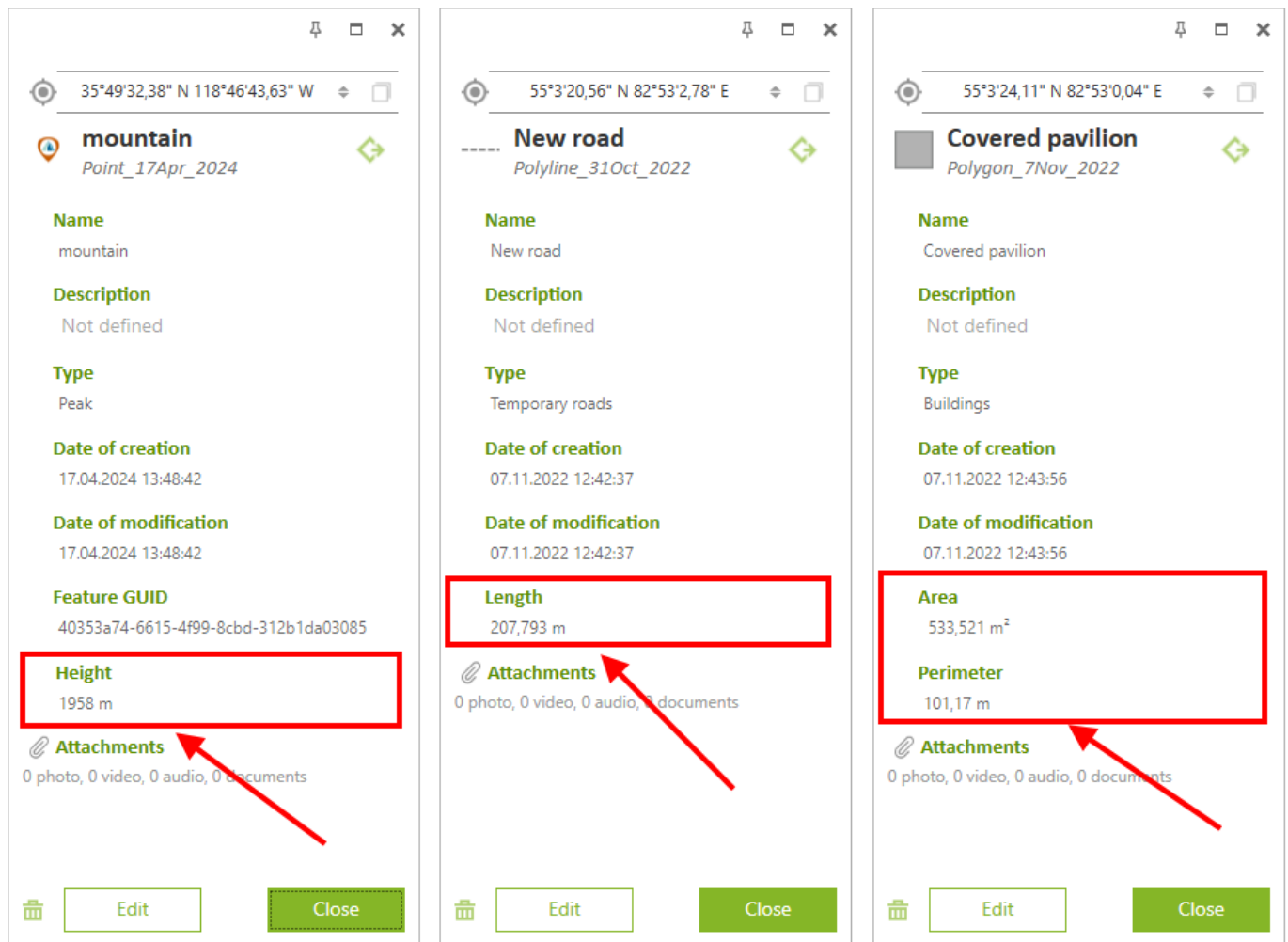
It will be marked with the pushpin  on the map and its identification card will be opened near.



For your convenience, the additional virtual fields with geometry information are now displayed in the identification cards of GeoPackage features:

- *Height* - for point features*,
- *Length* - for polyline features,
- *Area and Perimeter* - for polygon features.

The units selected in the [Application settings](#) are used as the measurement units.

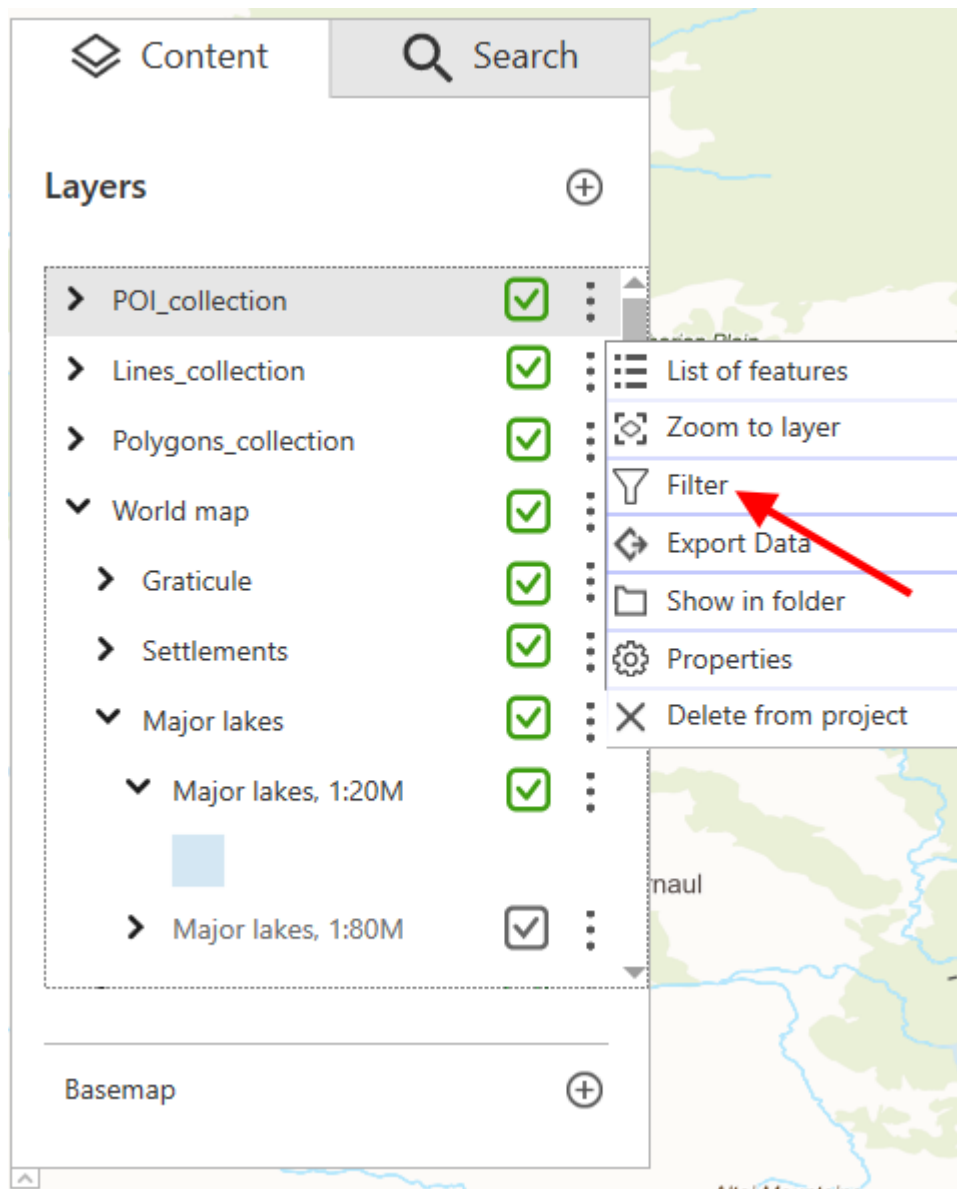


* **Note** that adding and editing the Z coordinate values of point features is only available in GeoPackage layers that support storing information about the height of features.

Filter features

The features in GeoPackage layers can be filtered based on one or multiple parameters.

To do this, expand the layer's menu in the table of contents by clicking the three dots and select *Filter*.



In the appeared window specify the necessary filtration parameters and click *Apply*. *

Filter

Complex filtration conditions consisting of multiple elements are combined using "and" operator.

Add

Delete

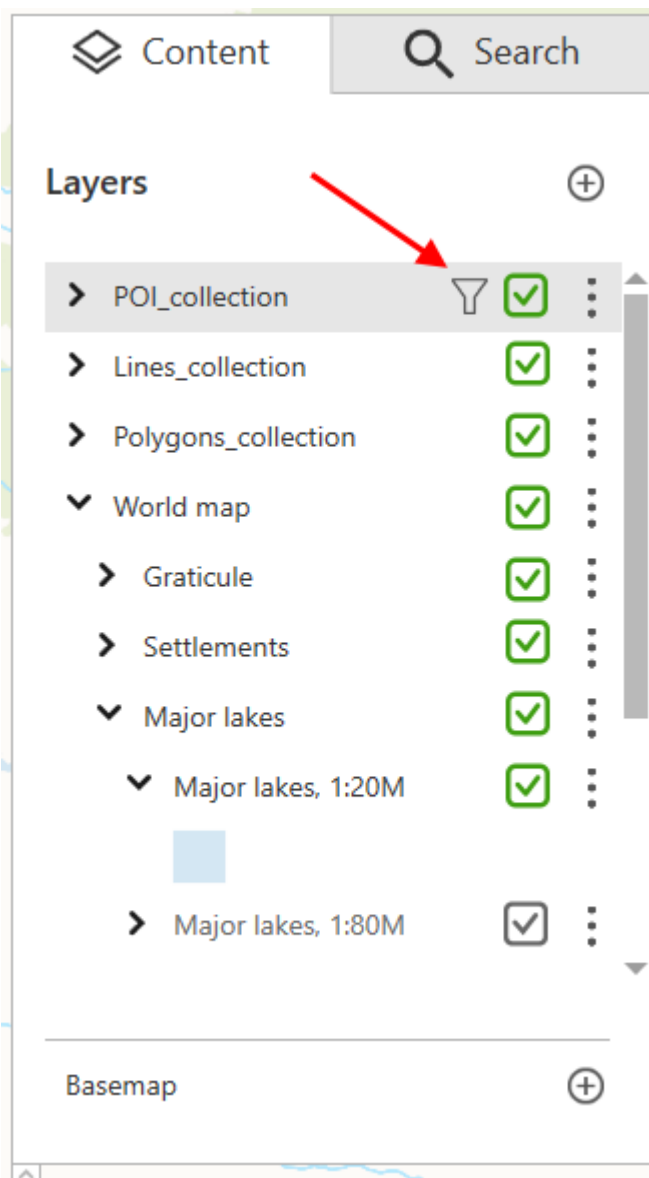
| <input type="checkbox"/> | Field | Operator | Value |
|--------------------------|--------|-------------------|--------|
| <input type="checkbox"/> | Type ▾ | Equal ▾ | Cafe ▾ |
| <input type="checkbox"/> | Name ▾ | Includes values ▾ | Daily |

Cancel

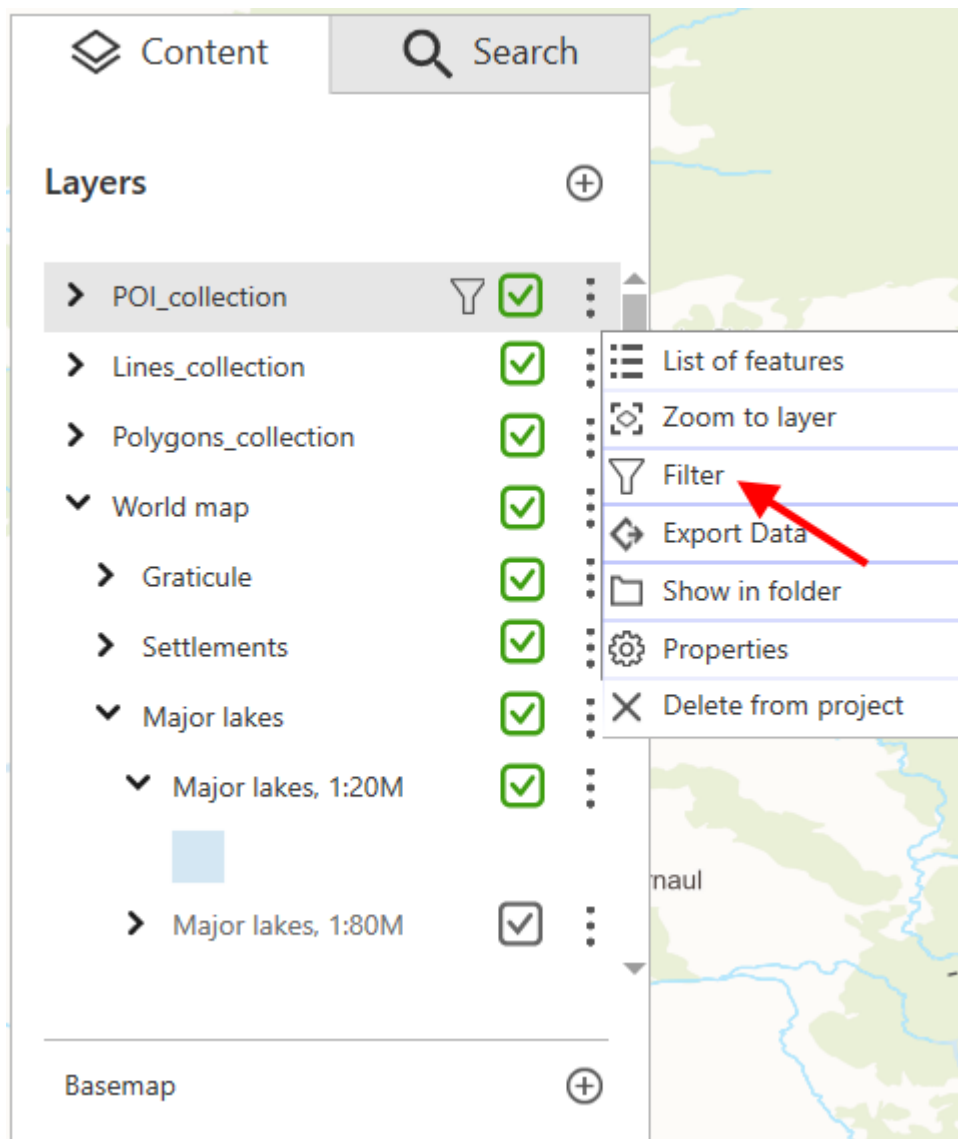
Apply

The features in the selected layer will be filtered based on specified parameters. The map will display only those layer features that match the filtration conditions.

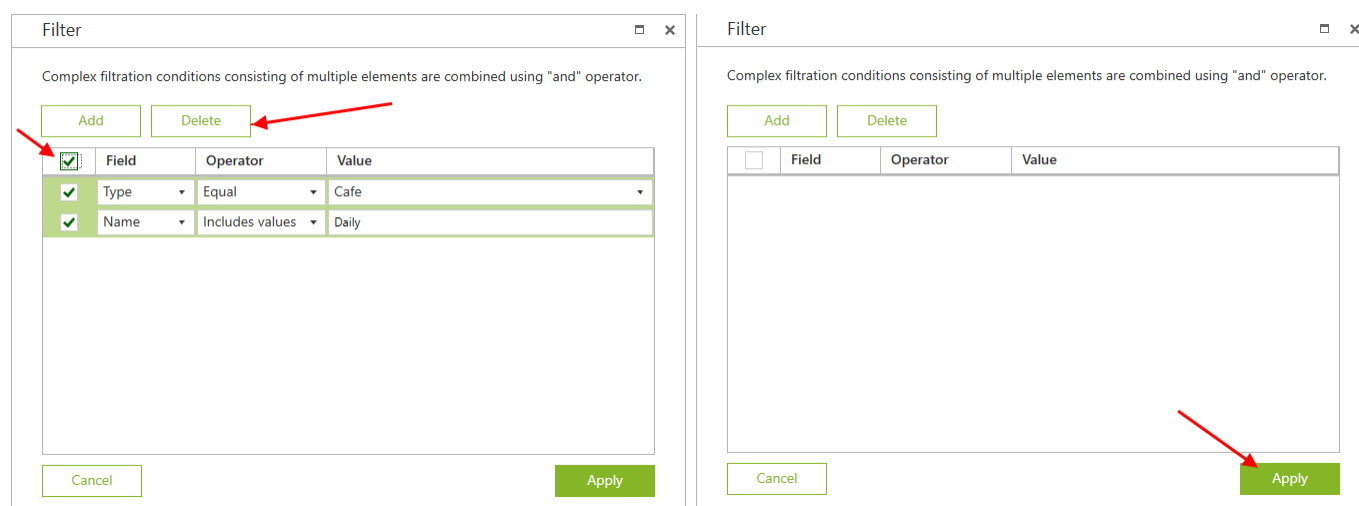
The layers to which the filtration has been applied, will be marked with a special symbol in the table of contents.



To reset the features filtration conditions specified for the layer, expand the layer's menu in the table of contents by clicking the three dots and select *Filter*.



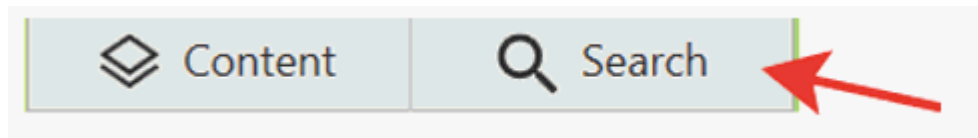
Select and remove all specified filters in the list and click *Apply*.




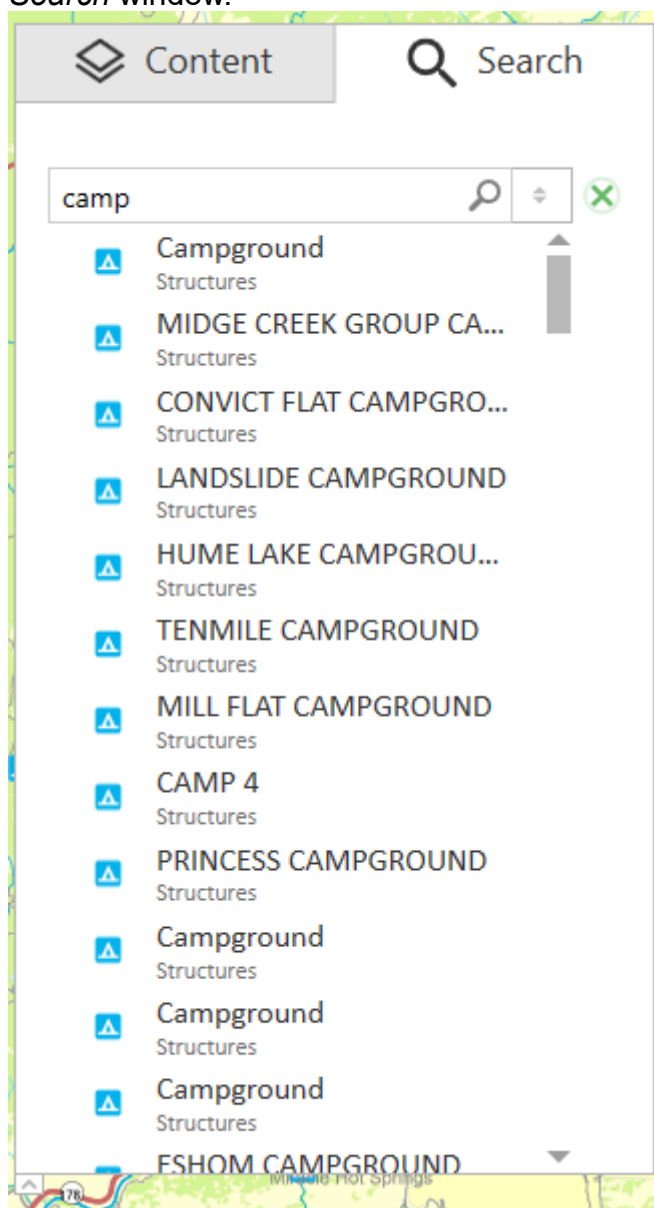
* **Please note** that the specified filtration conditions are applied to the features of the selected layer based on the padding rule. If there are multiple filter conditions, they are combined using the logical operator "and".

Searching for features. Going to coordinates

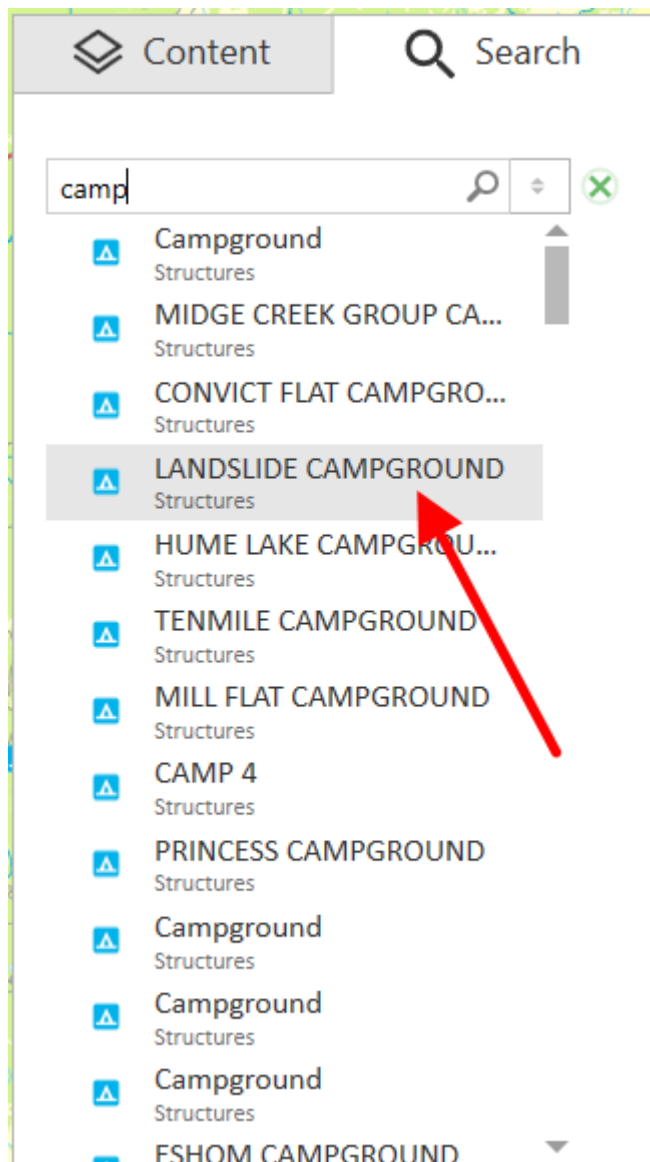
To search for features or to go to specific coordinates on the map, select *Search* tab in the upper left corner.



Enter your search request in the search field  and press *Enter* on the keyboard or press the search icon. The search results will be shown in the *Search* window.



To zoom to the feature on the map and to identify it, select this feature clicking on it in the search results list.



Selected feature will be marked with the pushpin on the map and its identification card will be shown near.

LANDSLIDE CAMPGROUND

Structures

Type

Campground

Name

LANDSLIDE CAMPGROUND

36°45'49,51" N 118°52'55,95" W

Close



To perform accurate search, enter the '!' sign in the beginning of your search query. Unlike with simple search, with the accurate search option you can search not only for the separate word, but also for the whole phrase. This new option will simplify searching through big arrays of numerical and text data.

To go to coordinates, press *Switch* button in the search field.

Search...



The field for entering coordinates in DMS format will appear.

00° 00' 00" N 000° 00' 00" E

Enter the coordinates values and press *Search* . The entered coordinates will be marked on the map with the pushpin icon .

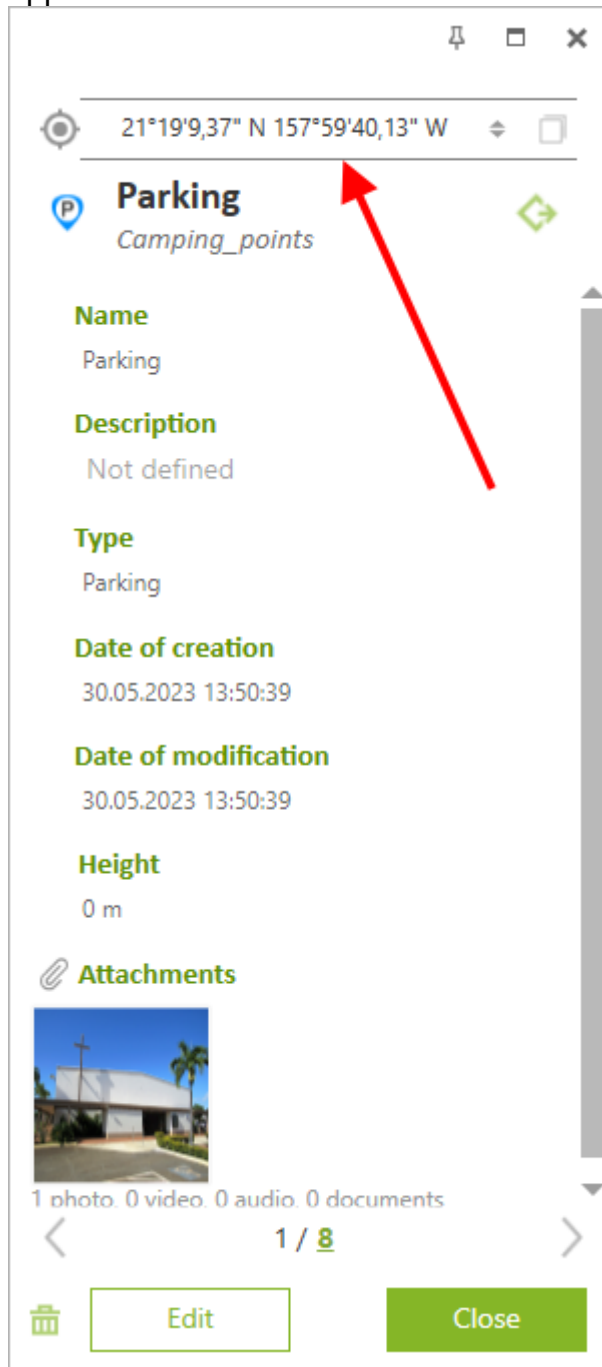
To go to coordinates in DD format, press *Switch* button in the search field again.

Y 000.000 X 000.000

Enter Y (latitude) and X (longitude) coordinates and press *Search*  . The entered coordinates will be marked on the map with the pushpin icon  .

Changing coordinates format

Coordinates format of features can be modified, to do so, select the required feature and in the appeared card click on the field with coordinates and enter the needed format.



Note that selected coordinates format will be saved for the current project.

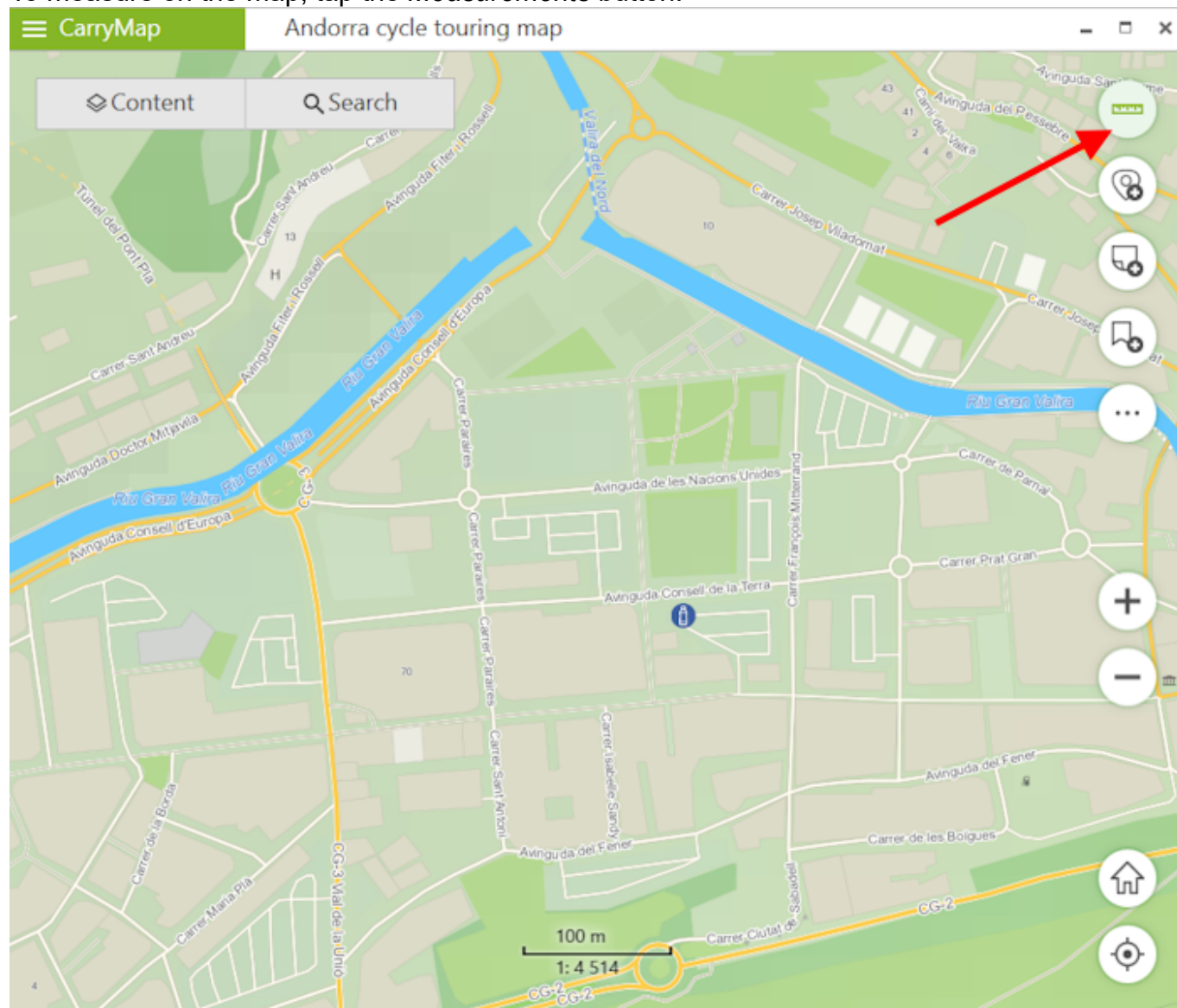
Available coordinates format representations:

- DMS
- DD

To copy feature coordinates, press *Copy coordinates*.

Measuring on the map

To measure on the map, tap the *Measurements* button.



If you want to measure distance, tap *Measure distance* icon.



If you want to measure area, tap *Measure area* icon, accordingly.



If you want to measure geographic azimuth, tap *Measure azimuth* icon.



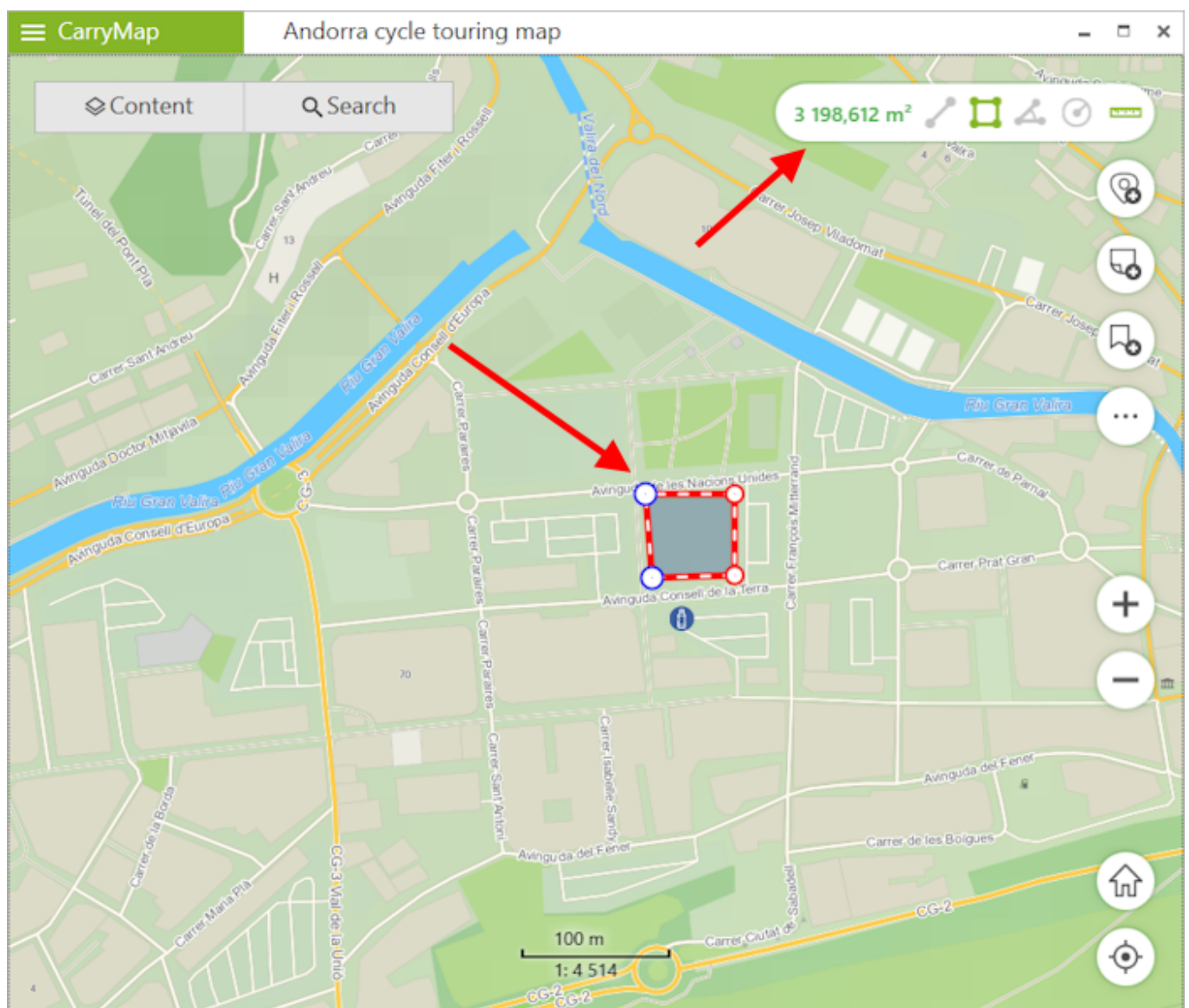
If you want to measure radius of a circle, tap *Measure radius* icon.



Measuring distance and area

To start measurement, sequentially tap the map adding points.

The calculated distance or area will be shown in the upper part of the measurement window.

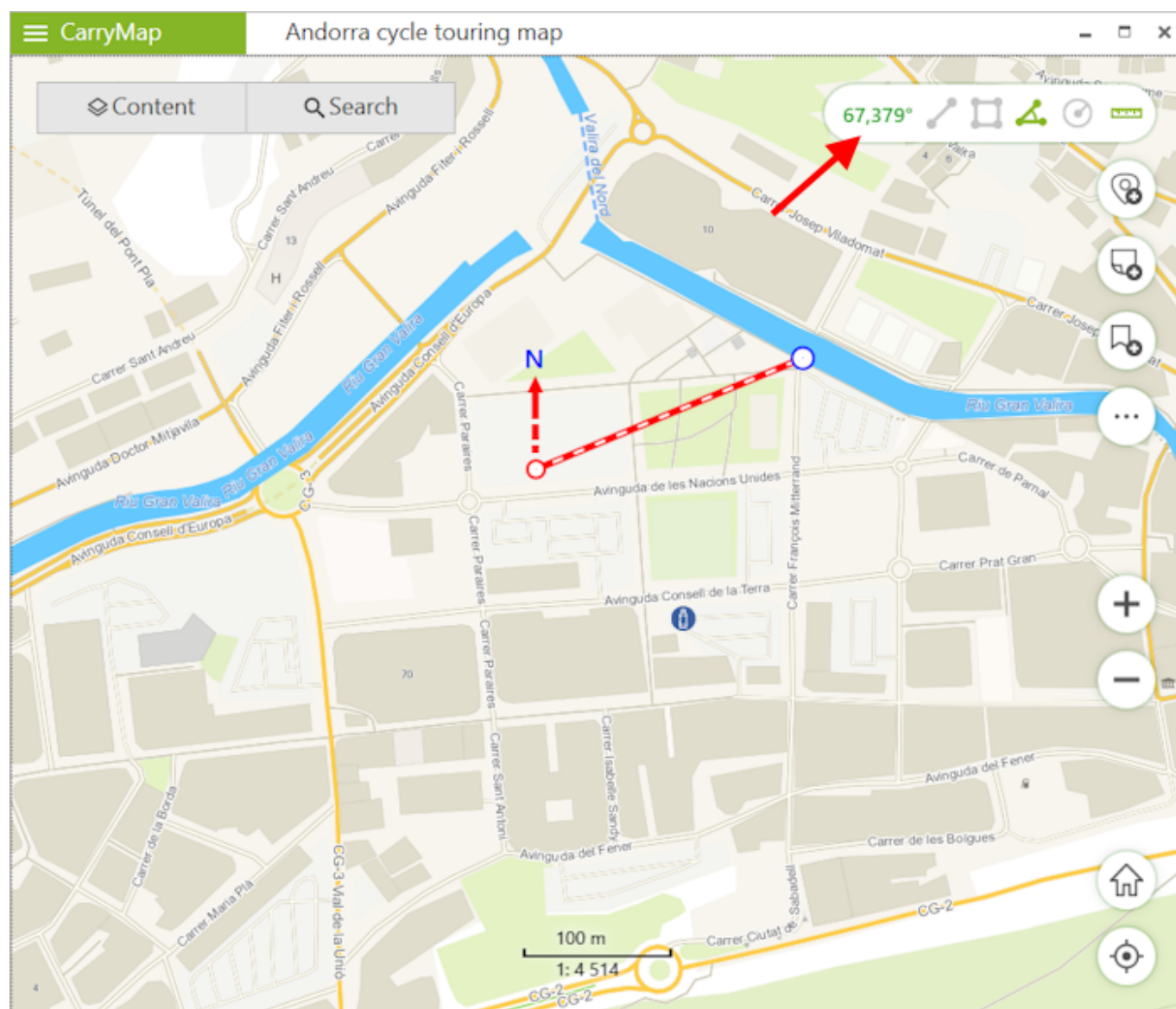


To delete the needless point, tap it again.

Measuring the geographic azimuth

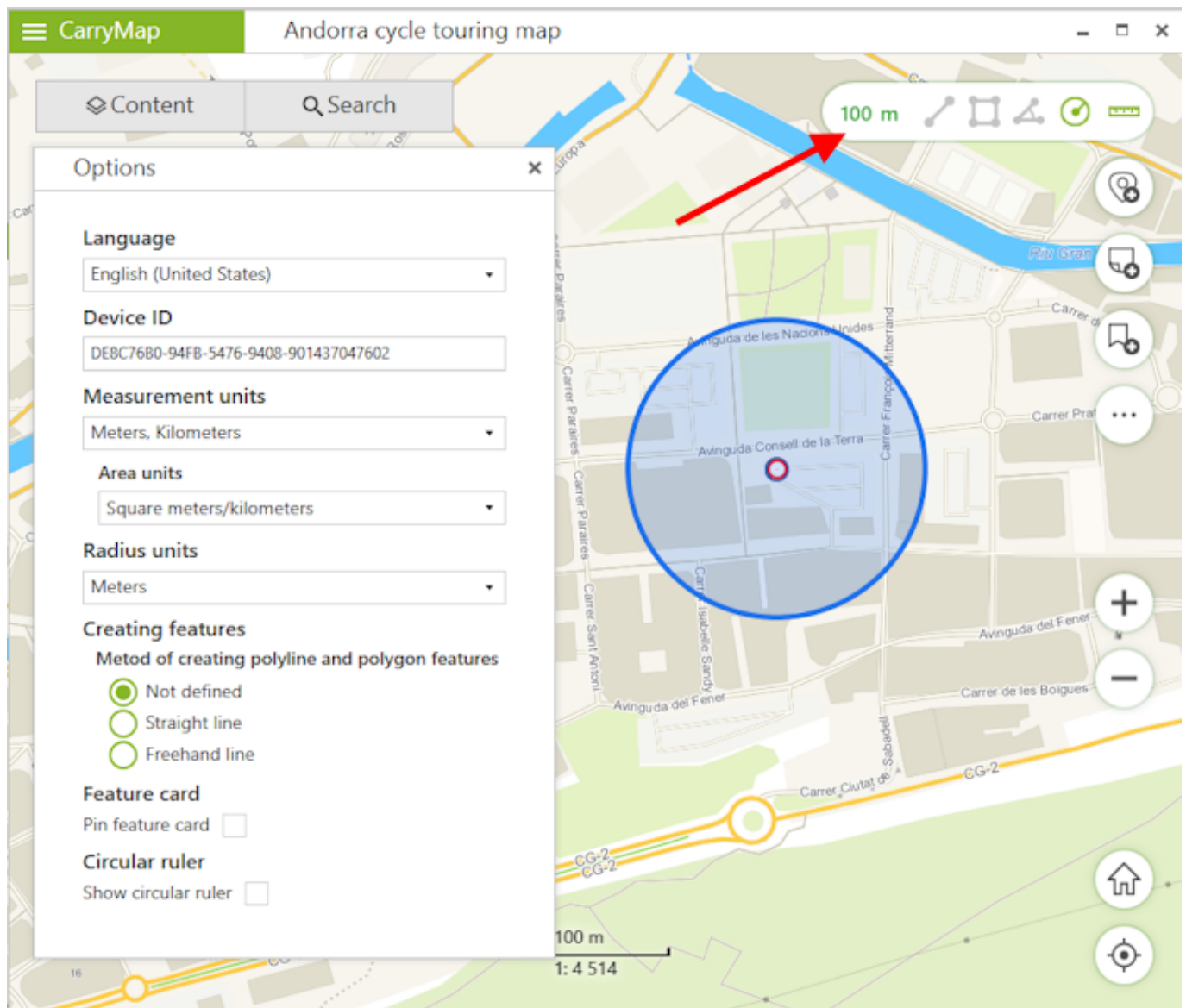
To start measurement, sequentially add two points on the map.

The calculated value will be shown in the measurement window.



Measuring the radius of a circle

To start measurement, add a point on the map and enter the radius value in the measurement window.



To change measurement units for distance, areas or circle radius, go to [Application settings](#). In the Measure units section select the required units:

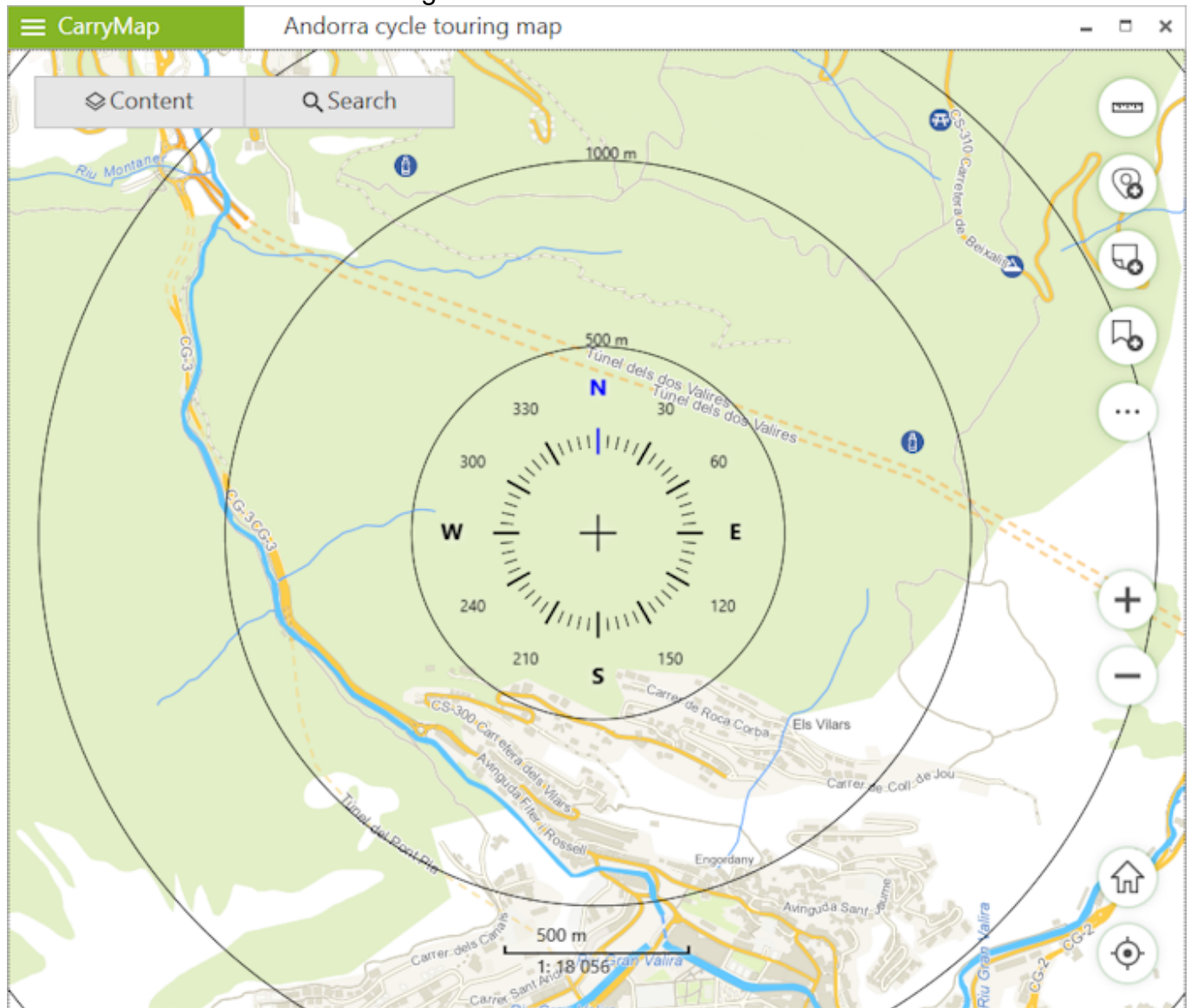
- Metric system (meters, kilometers):
 - Area units:
 - Square meters/kilometers,
 - Hectares;
- British system (feet, miles, acres).

Determining distance and direction using a circular ruler

The circle ruler is used to determine distances and directions on a map in real time.

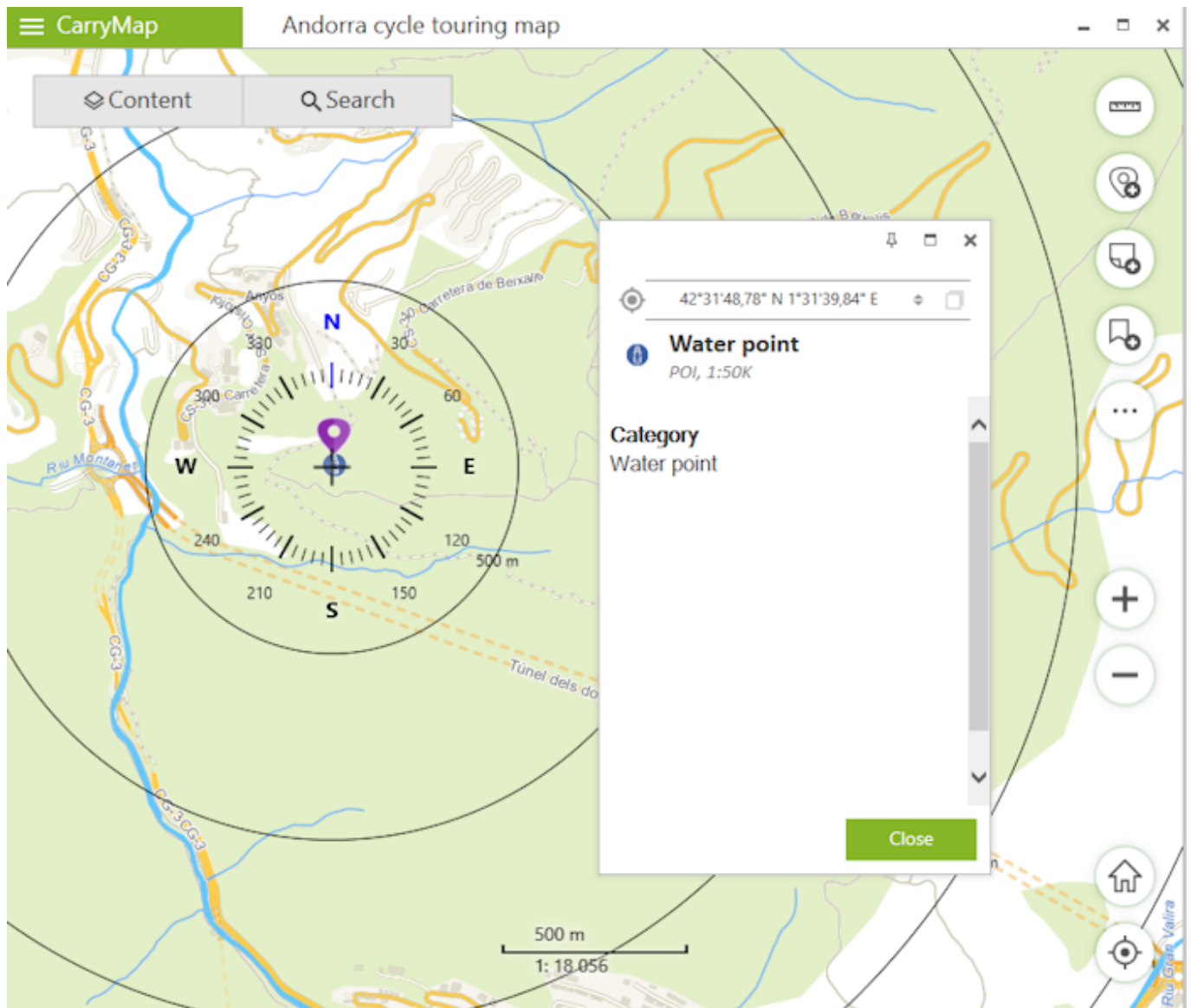
The circular ruler consists of:

- Limbus used to determine direction of the sides of the horizon on the map;
- Set of circular zones showing the distance from the center of the screen. *

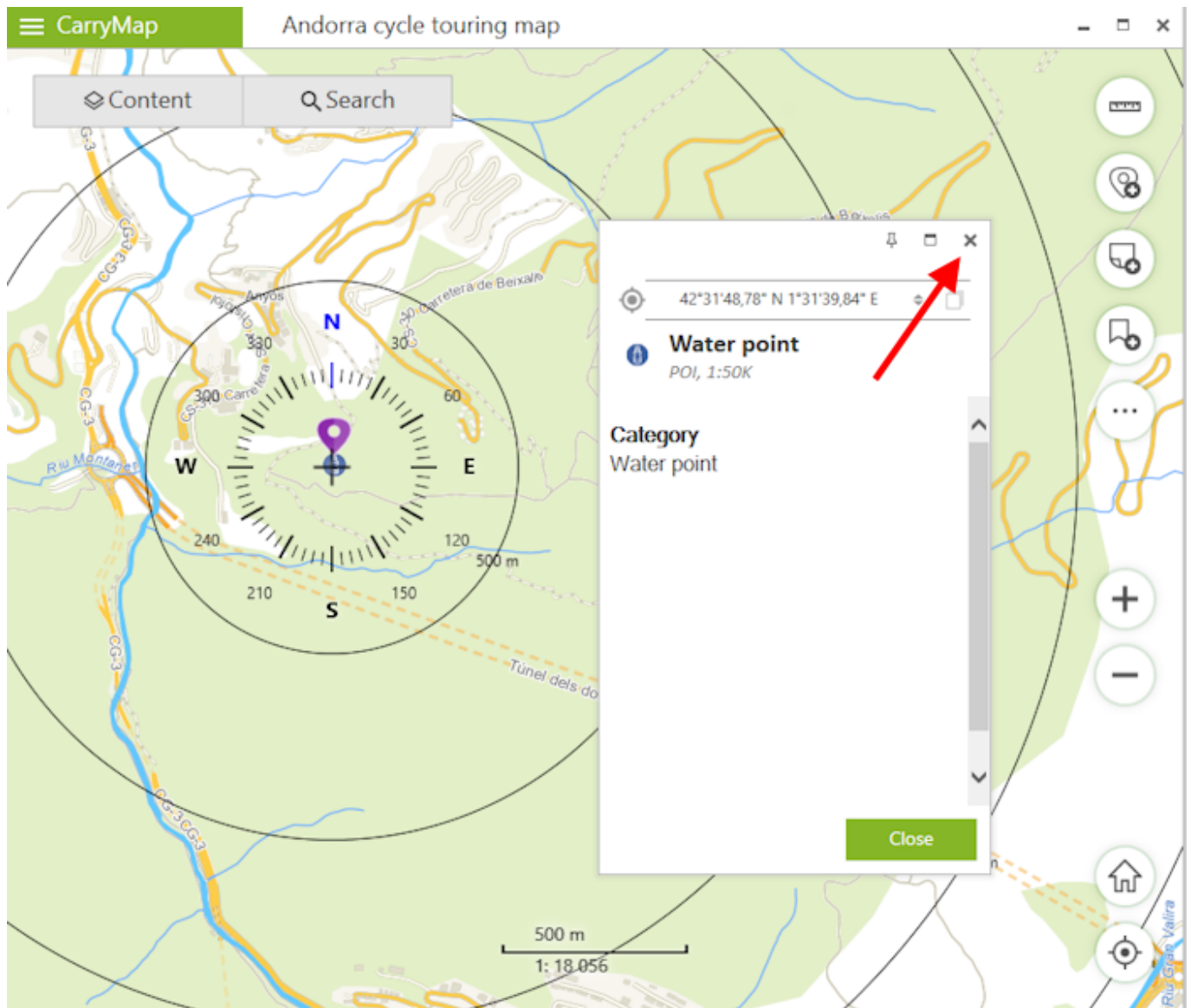


* **Please note** that the zones sizes are calculated automatically depending on the map scale. The distances are displayed in the units specified in the [Application settings](#) section.

The elements of the circular ruler are linked to the identification pushpin. When objects are identified, the map automatically positions to the identification pushpin, and the center of the circular ruler does not change its position when map is panned, or map scale is changed.



To display the circular ruler in the center of the screen again, close the identification card.



The display of the circular ruler in the map is disabled by default.

To enable the display of the circular ruler in the map, go to [Application settings](#) section and in **Circular ruler** section select *Show circular ruler*.

Options



Language

English (United States) ▼

Device ID

DE8C76B0-94FB-5476-9408-901437047602

Measurement units

Meters, Kilometers ▼

Area units

Square meters/kilometers ▼

Radius units

Meters ▼

Creating features

Method of creating polyline and polygon features

- ☒ Not defined
- ☐ Straight line
- ☐ Freehand line

Feature card

Pin feature card ☐

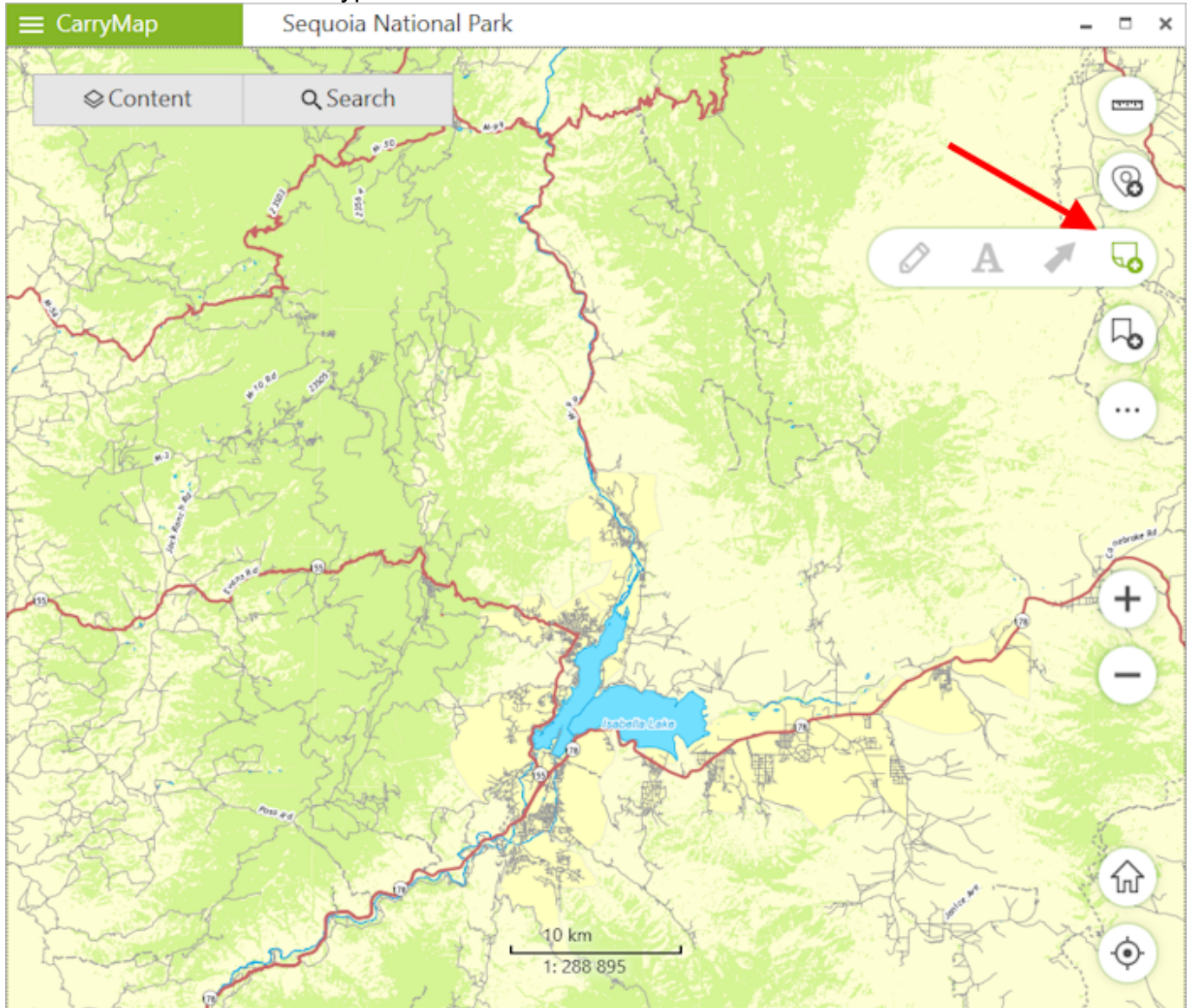
Circular ruler


Show circular ruler ☒

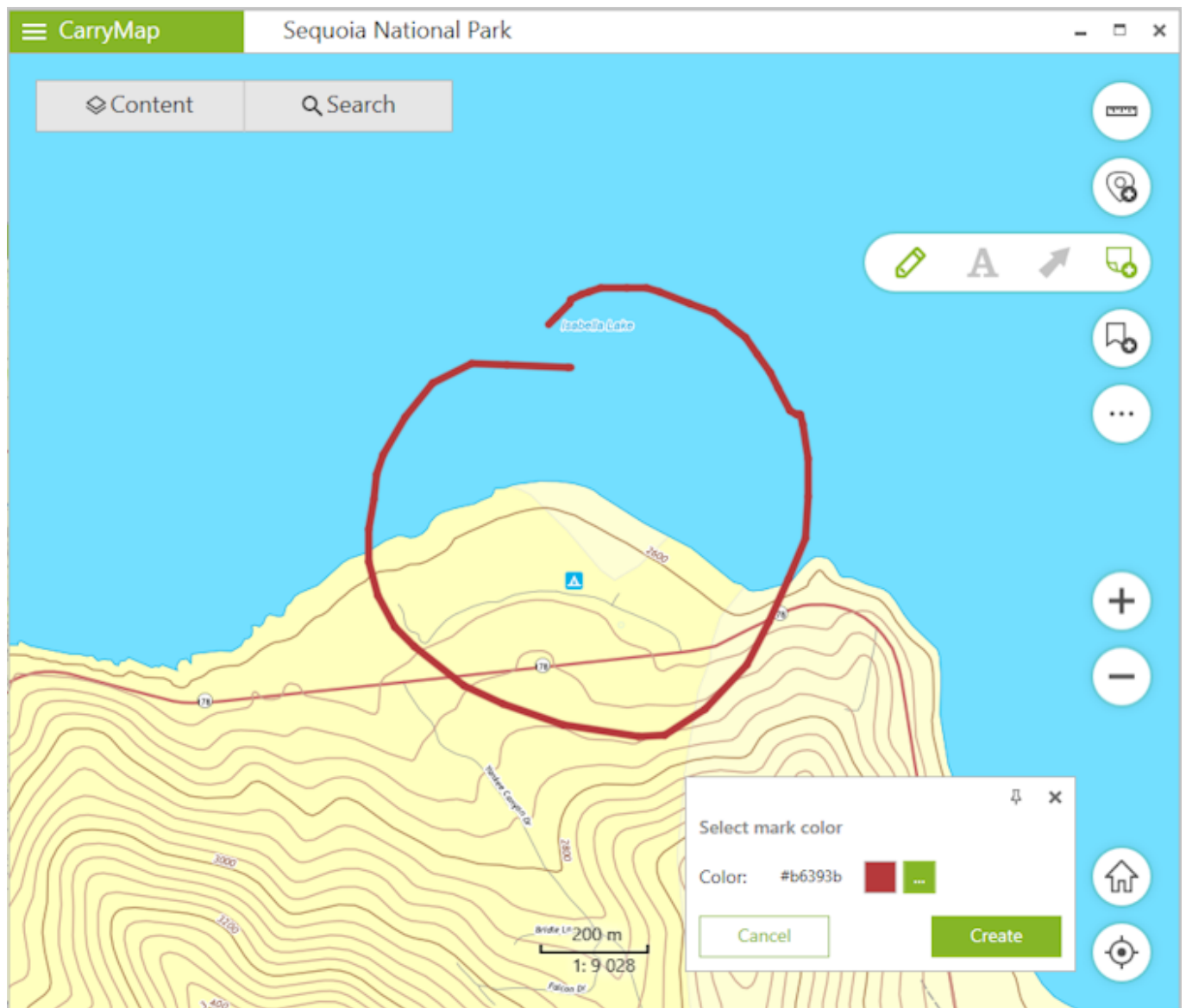


Creating marks

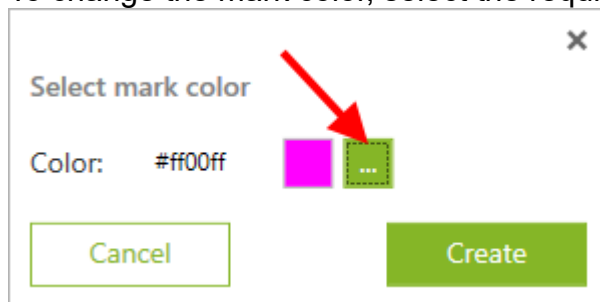
To create the graphic mark on your map as a text, custom shape or arrow, press *Create mark* button and select the note type.



To create the mark as the custom shape, press  button.
Draw the required shape on the map.



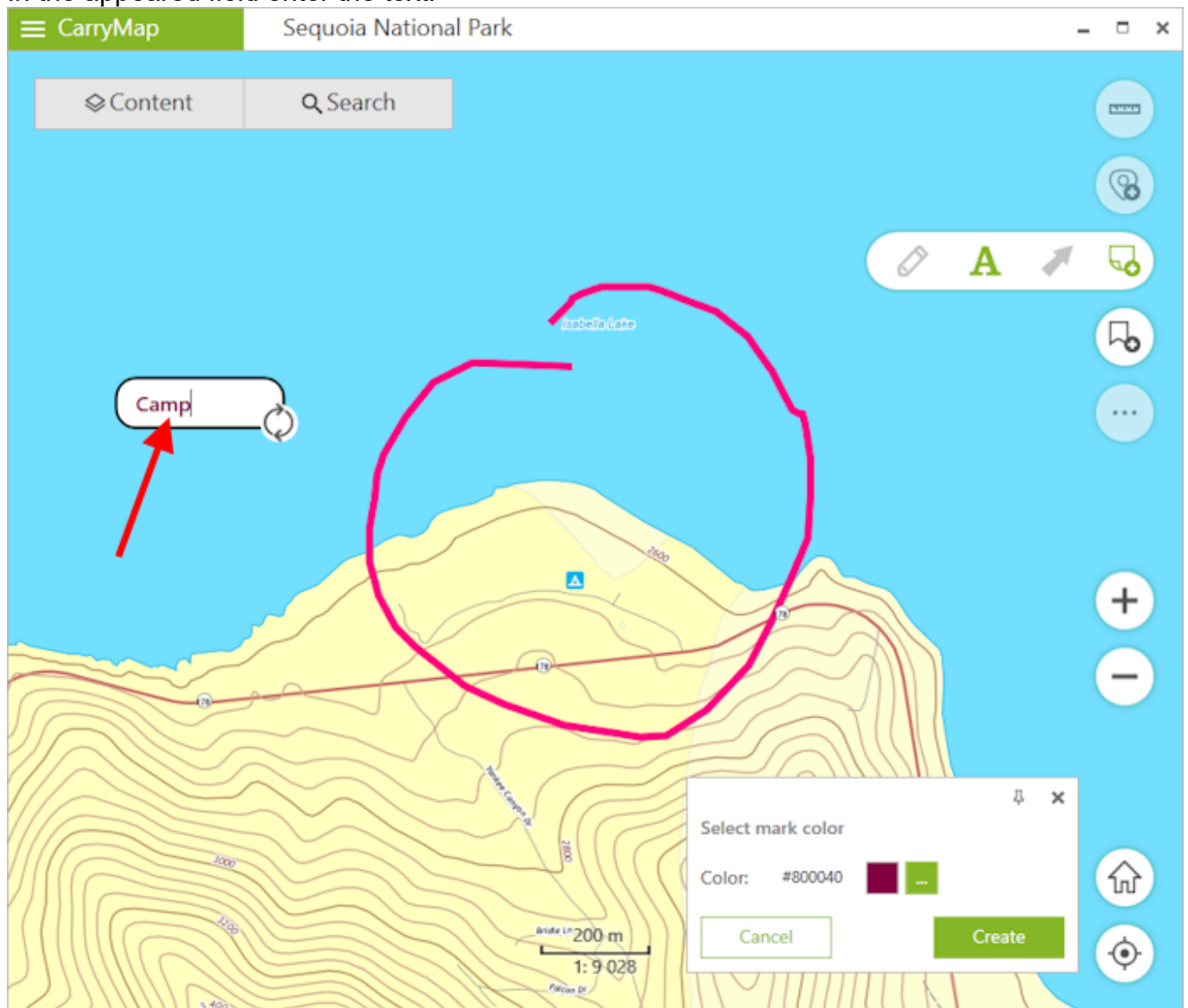
To change the mark color, select the required color from the provided list.




To create the mark, press *Create*. To cancel creating the mark, press *Cancel*.

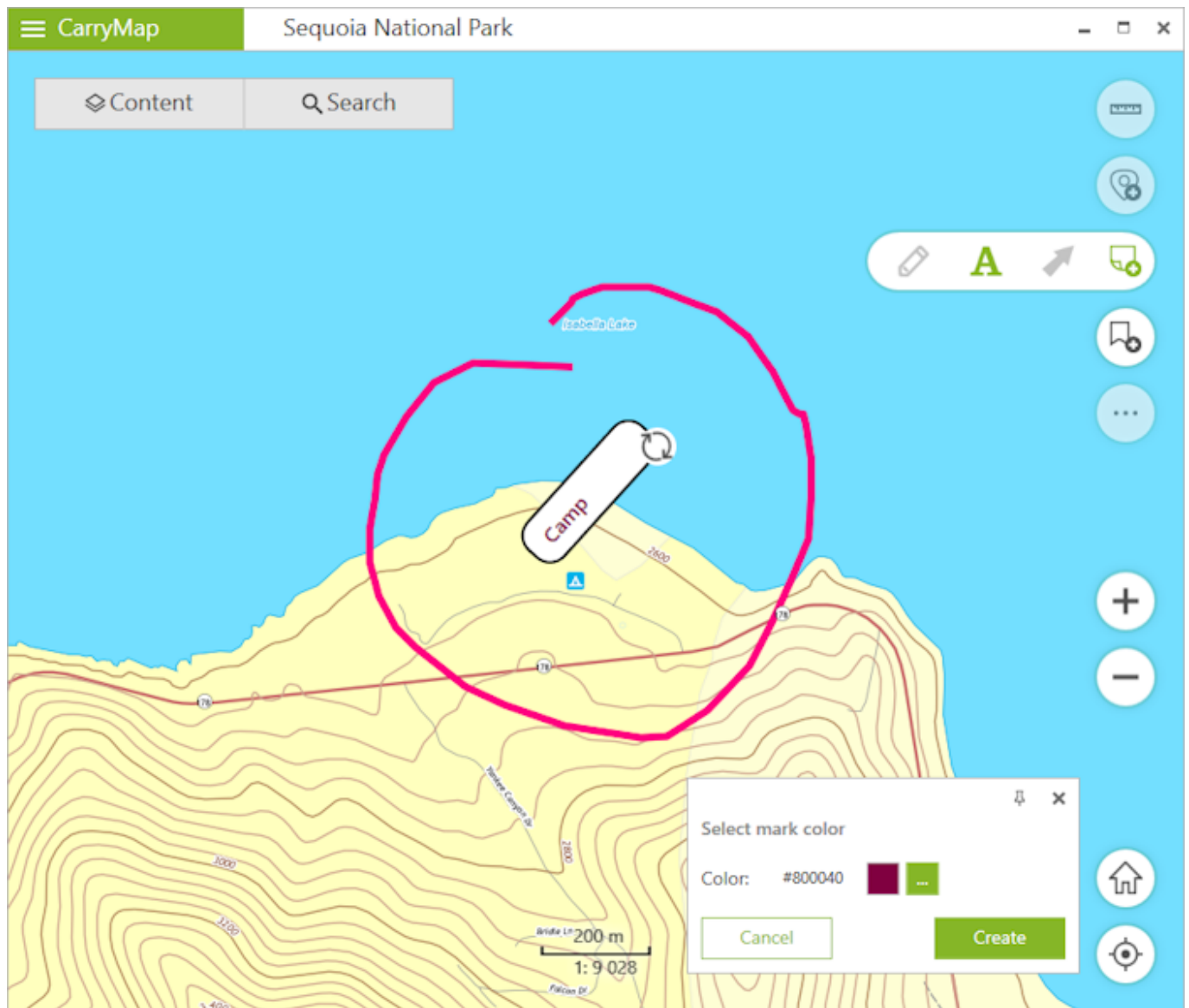


To create the text mark on the map, press **A** button.
In the appeared field enter the text.



To change location of the text mark, long tap the note and drag it to the new place on the map.

To change the text mark direction, hold the  button and rotate it as needed.



To change the mark color, select the required color from the provided list.

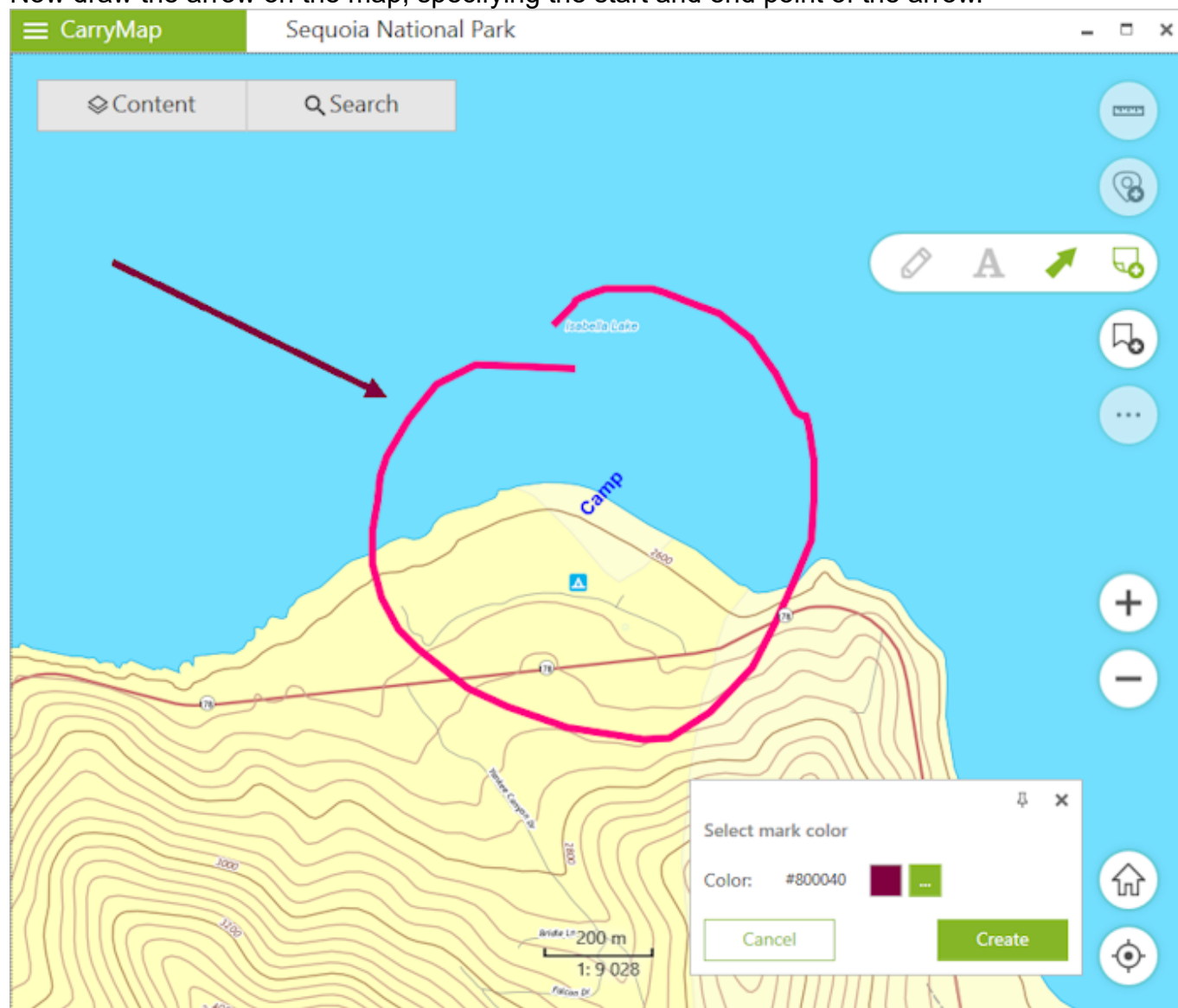


To create the mark, press *Create*. To cancel creating the mark, press *Cancel*.



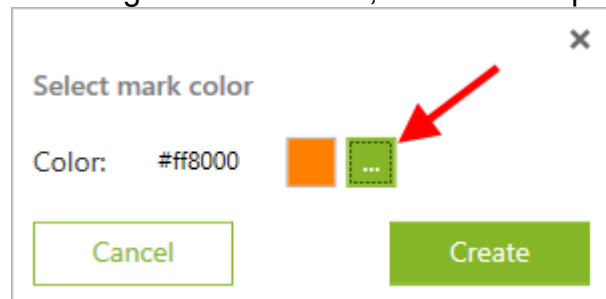
To create the mark as the arrow, press  button.

Now draw the arrow on the map, specifying the start and end point of the arrow.



To change location of the arrow, specify the start and the end point of the arrow again, and the previously created arrow will be deleted.

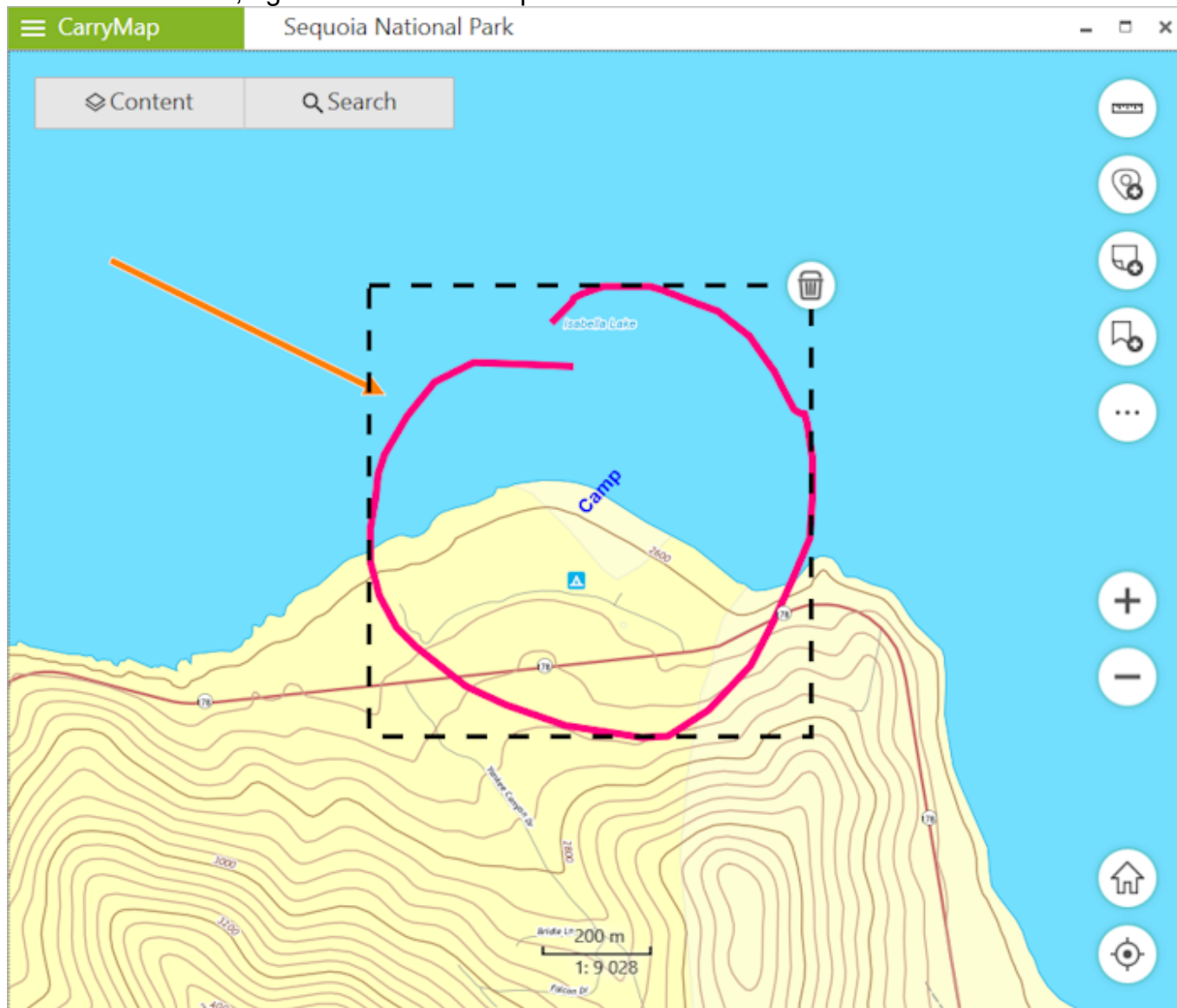
To change the mark color, select the required color from the provided list.




To create the mark, press *Create*. To cancel creating the mark, press *Cancel*.




To delete the mark, right-click it on the map.







Then press  button and the mark will be deleted.


To show list of all marks, press the three dots icon near the *Marks on map* layer name and select List of marks.


All objects from this layer will be shown in the *Search* tab.


Content

Search

Search...

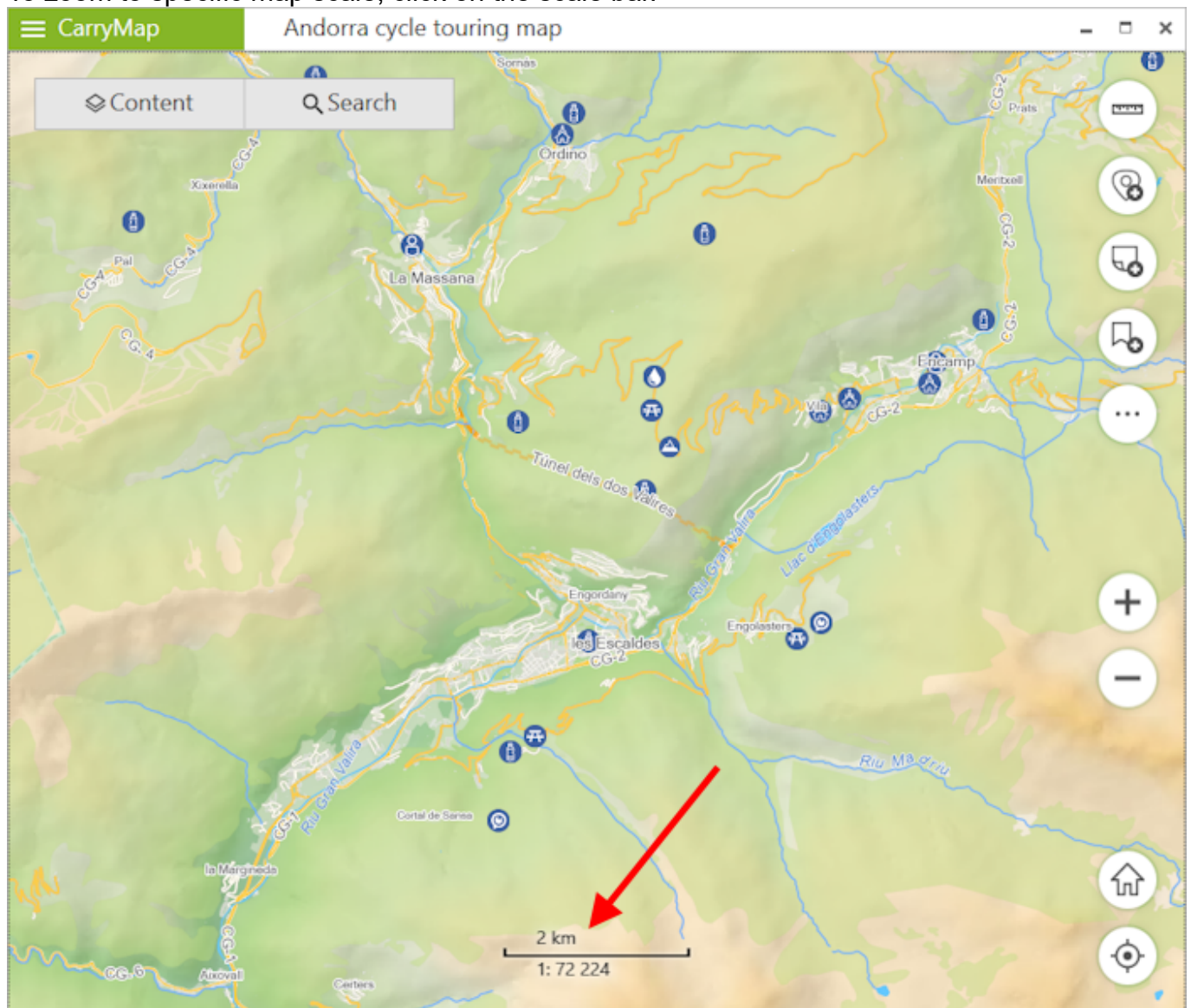
05.06.2024 09:09:45

05.06.2024 09:07:53

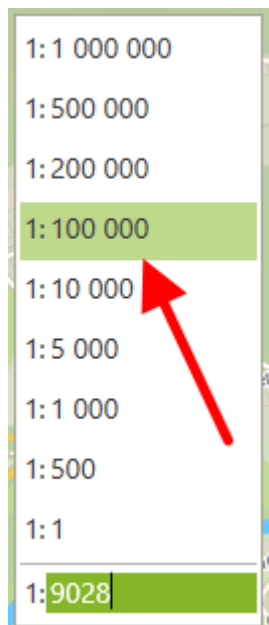
05.06.2024 09:02:06

Zooming to specified scale

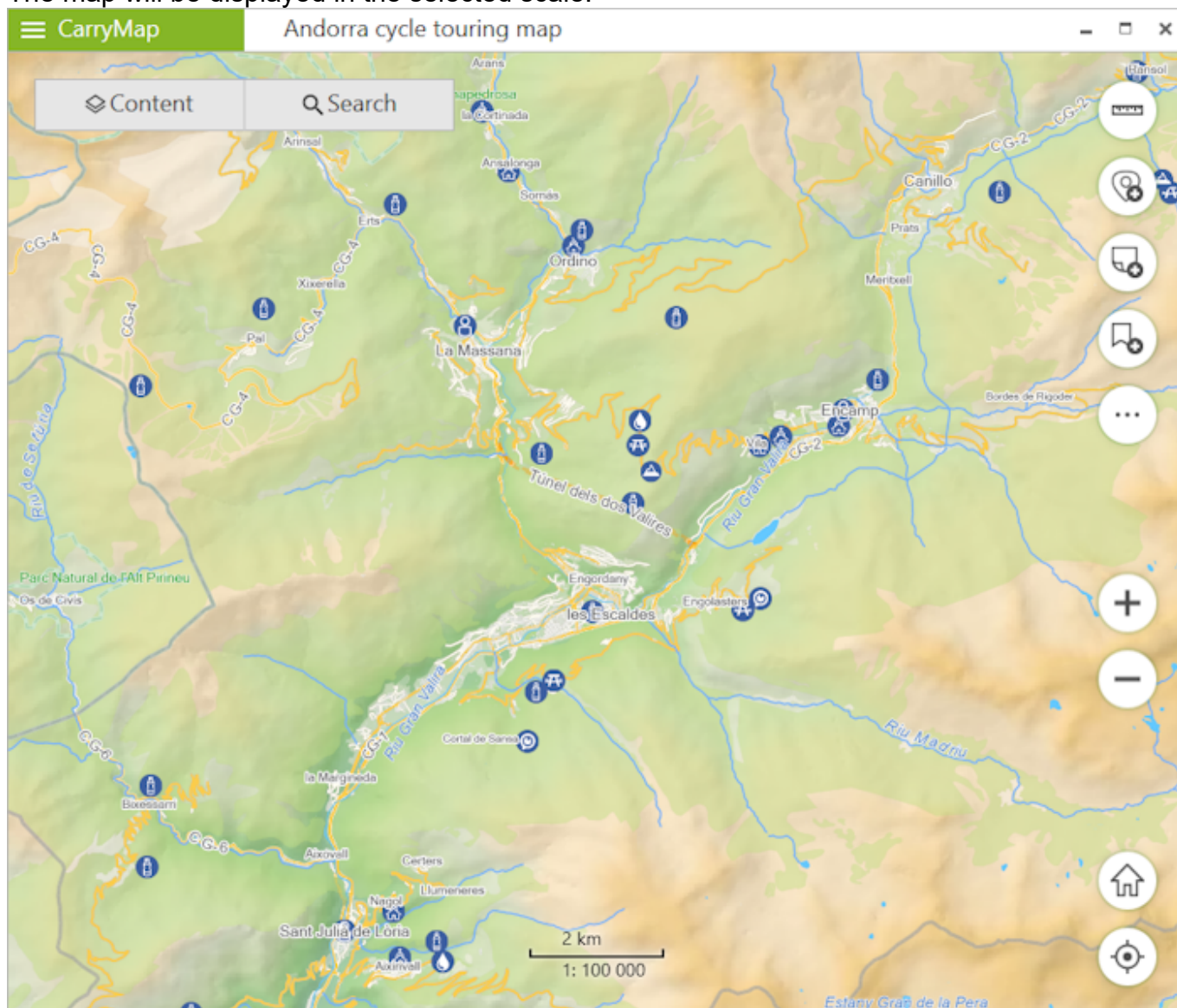
To zoom to specific map scale, click on the scale bar.



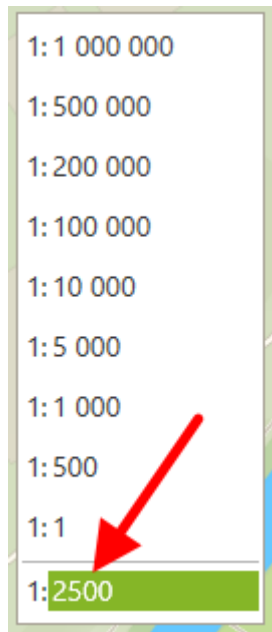
In the appeared window select the scale value from the list.



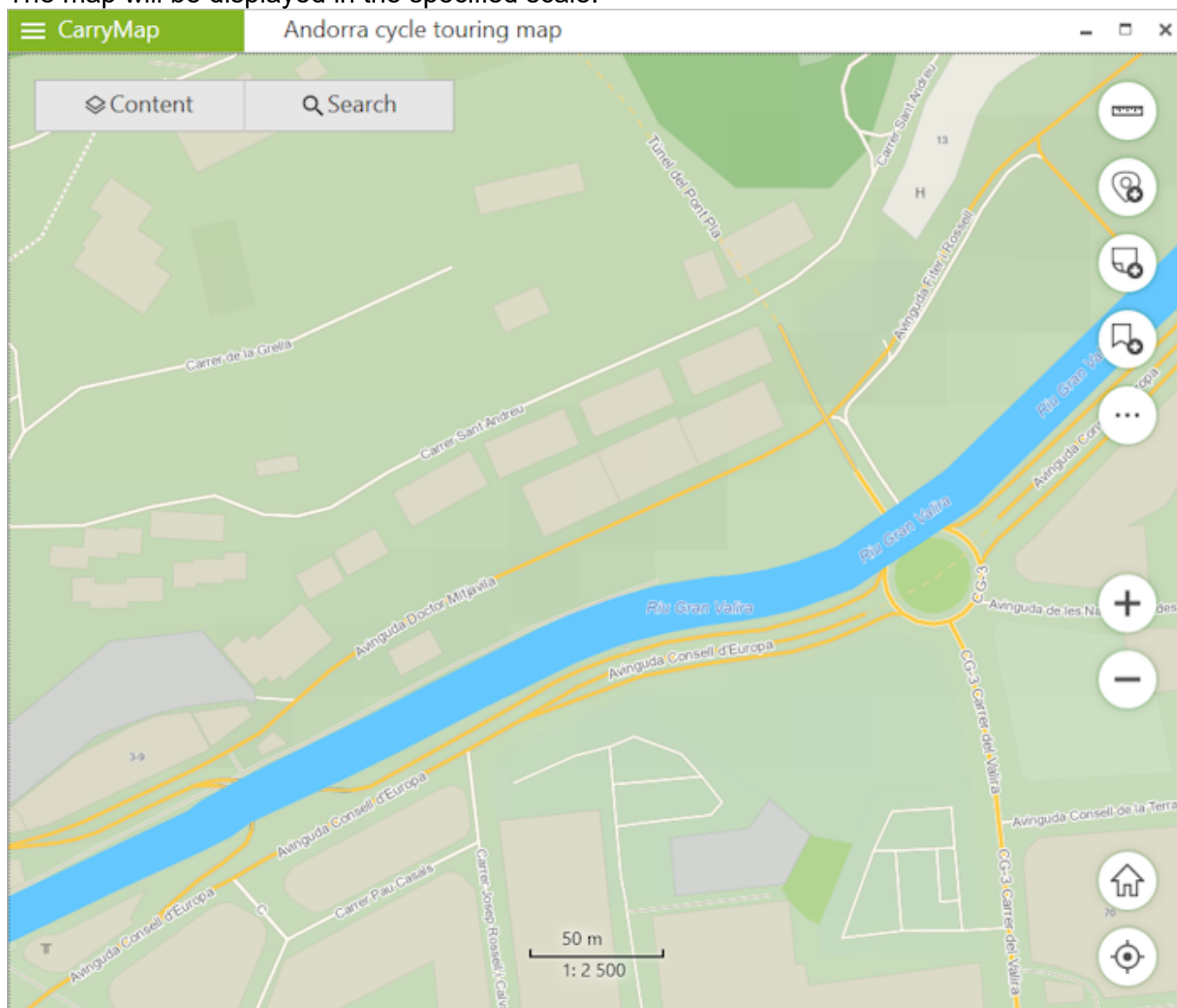
The map will be displayed in the selected scale.



To add your own scale value, click on the scale input line.
Enter the value and press *Enter* on the keyboard.

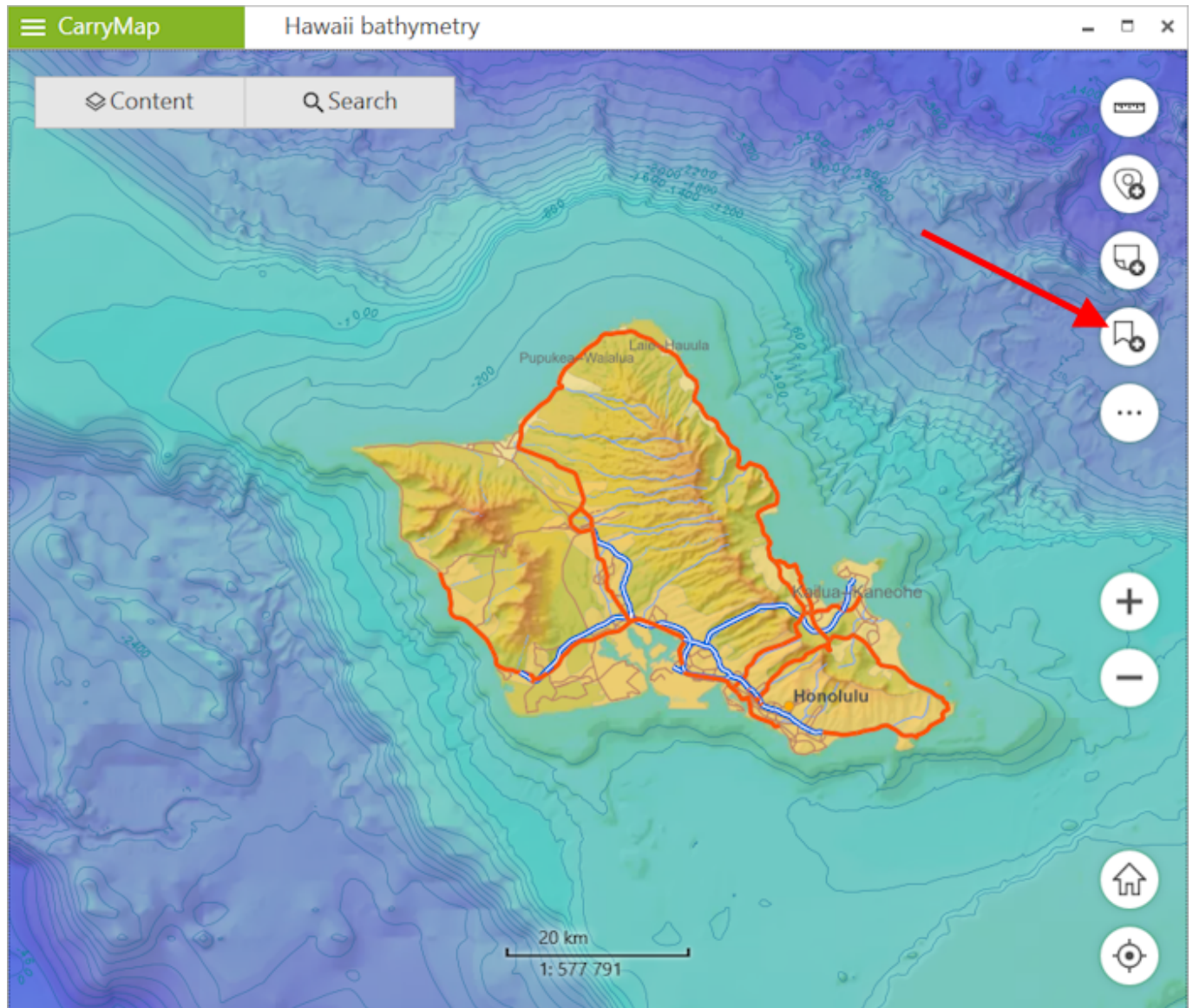


The map will be displayed in the specified scale.



Creating bookmarks on map

The bookmarks are provided for storing selected map areas and data for quicker access. To create the bookmark, set the required map extent boundaries, go to map window and press *Create bookmark* button.



In the appeared window enter the bookmark name or leave the default one.



Enter new bookmark name

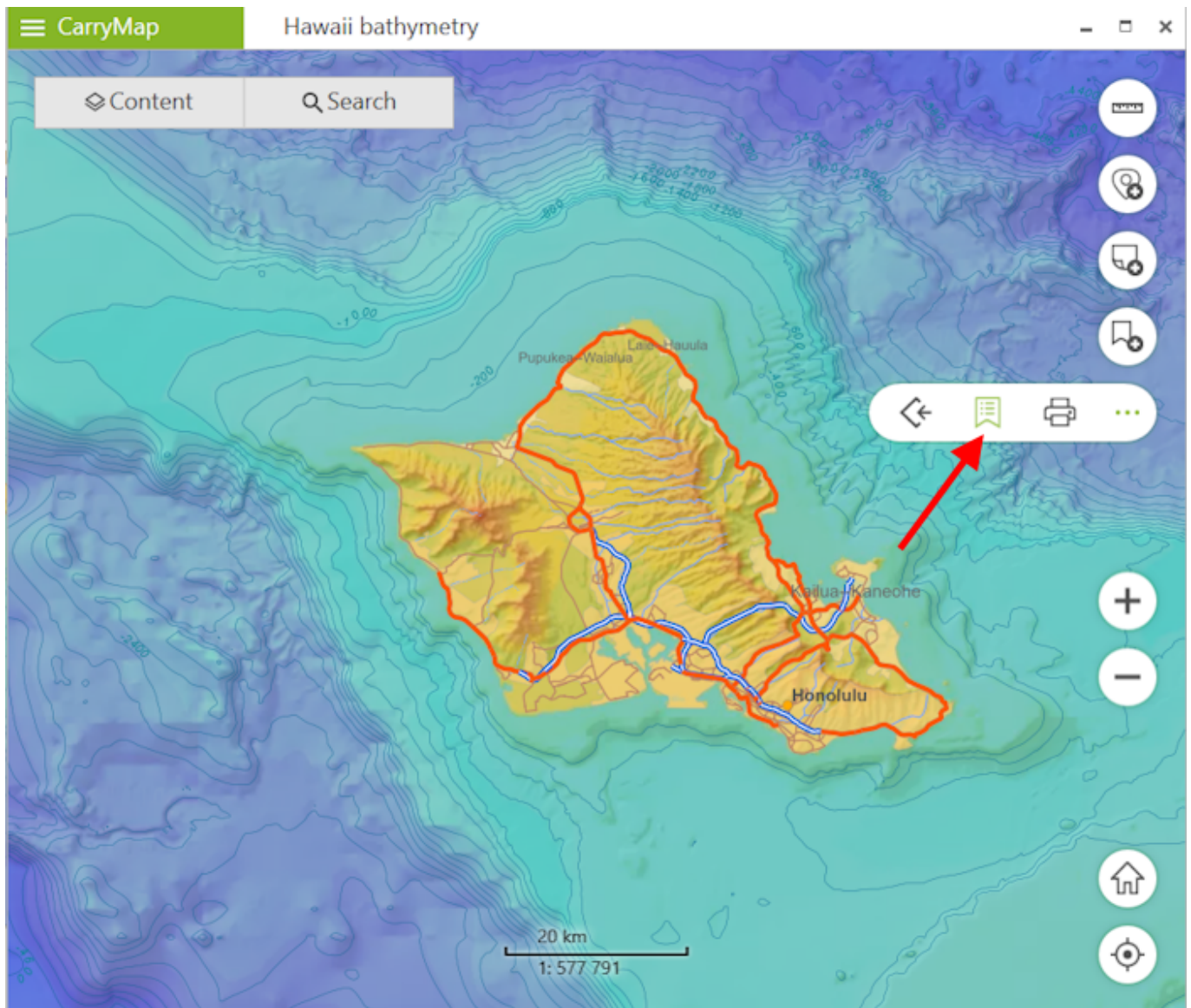
Bookmark_1

Cancel

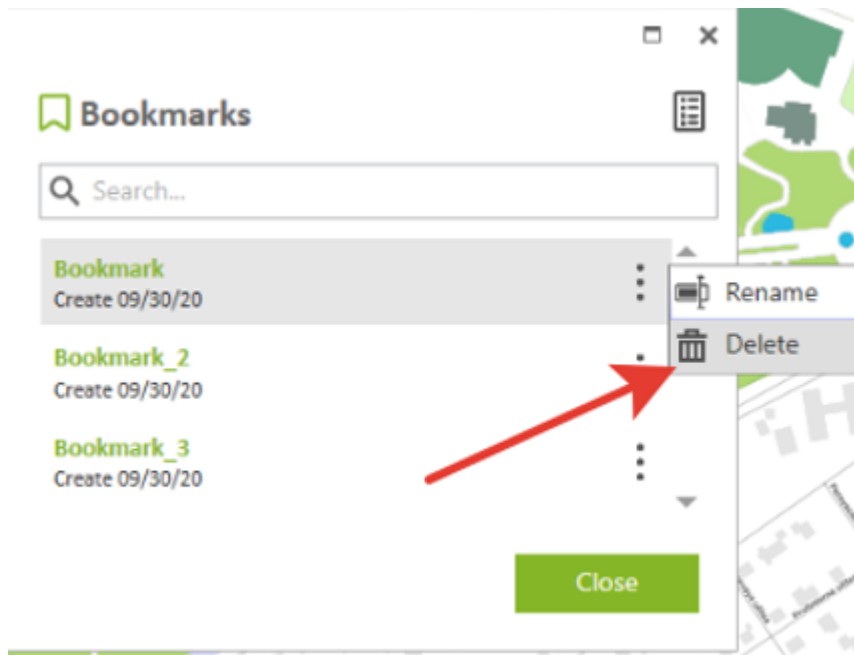
OK

To save the created bookmark, press **OK**.

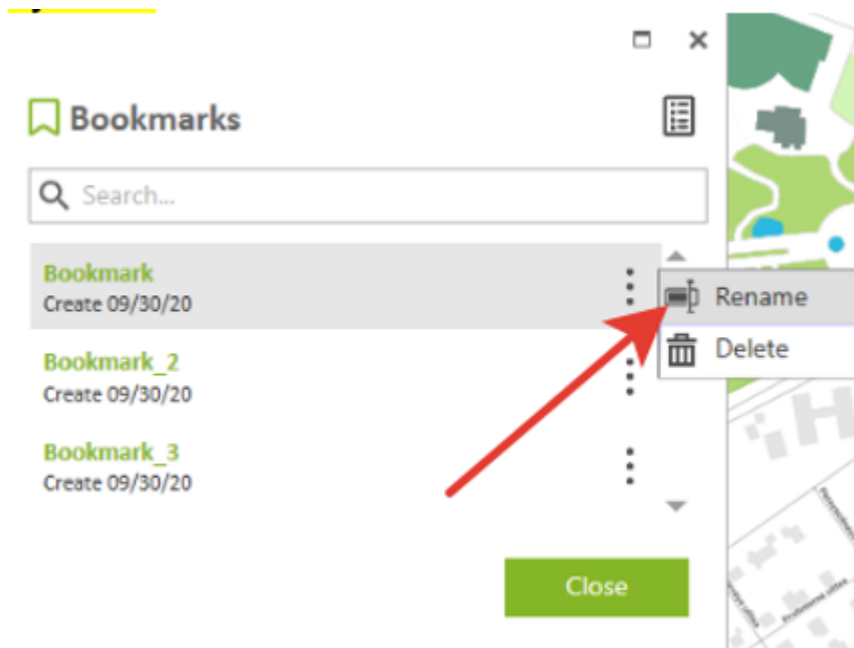
To view the created bookmarks, press *Tools* button and in the appeared panel select *Bookmarks*.



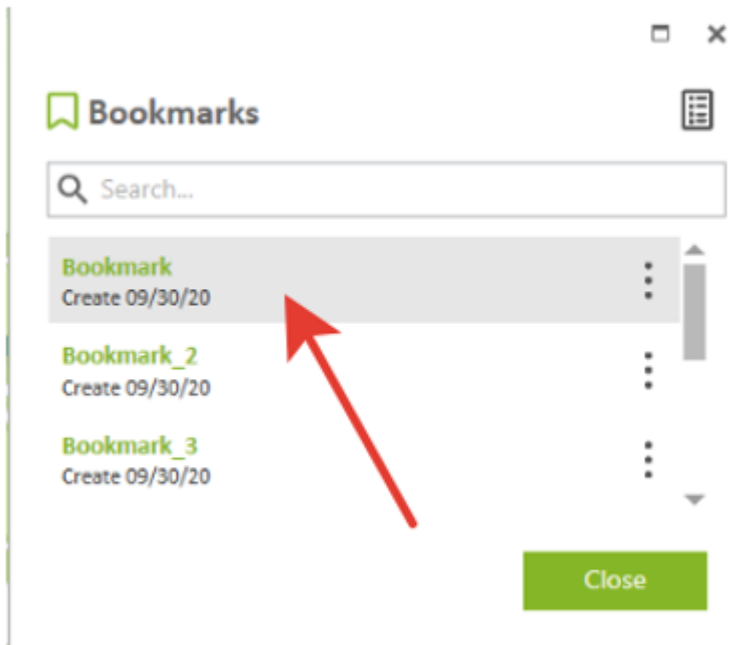
To delete the bookmark, press three dots icon and select *Delete*.



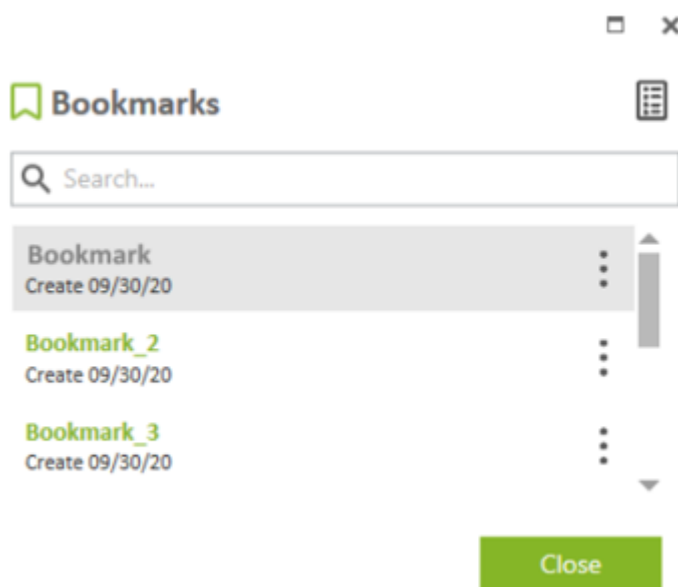
To rename the created bookmark, press *Rename*, enter the new name and press Enter on the keyboard.



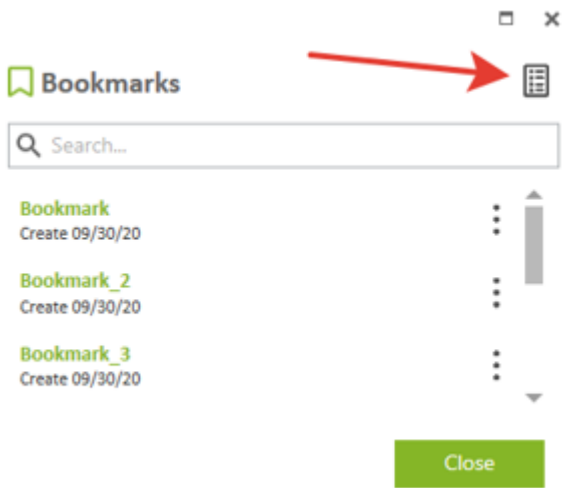
To open the map saved as the bookmark, click on the required name in the bookmarks list.



If the created bookmark does not get to the current map extent borders, it will be highlighted with grey color and you will not be able to view it.

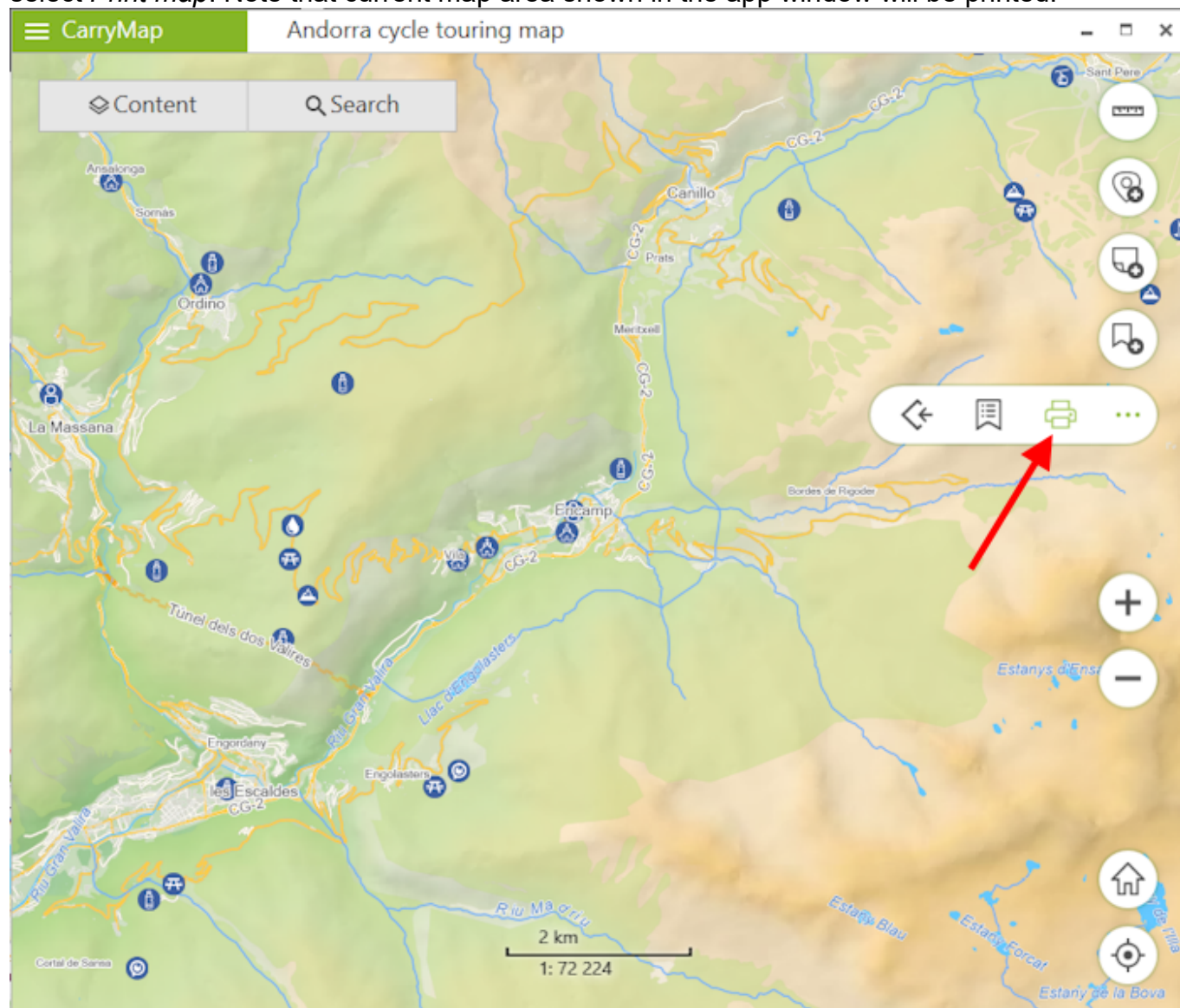


To show all active bookmarks for the current map, press *Show active bookmarks* button.

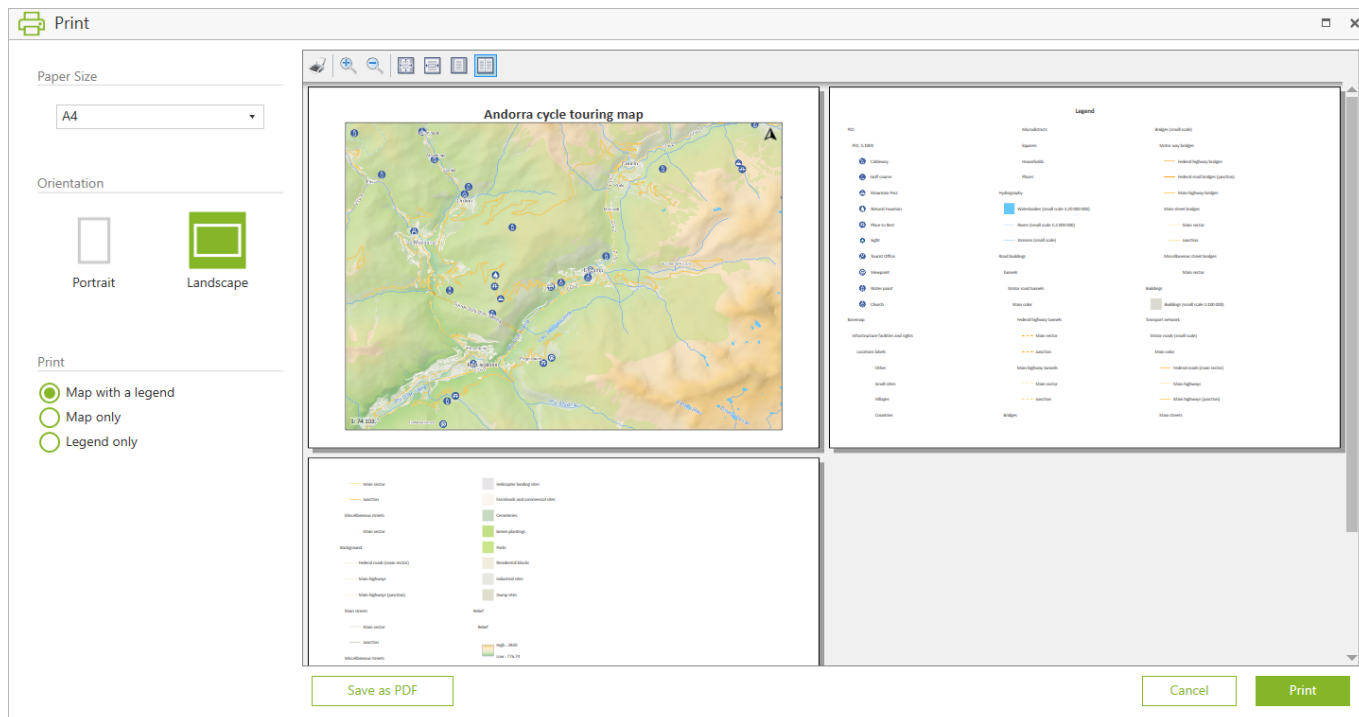


Printing map. Saving selected map area as PDF

To print map opened in CarryMap application, press *Tools* button and in the appeared panel select *Print map*. Note that current map area shown in the app window will be printed.

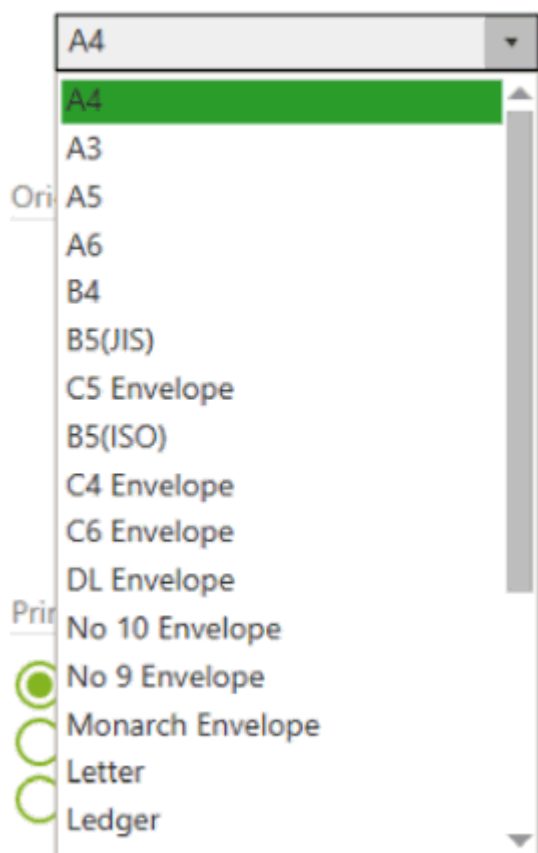


The window with printing settings will appear.



Press *Paper size* and select the required paper format for printed map form the drop-down list.

Paper Size



Select *Portrait* or *Landscape* in the *Orientation* section.

Orientation



Portrait



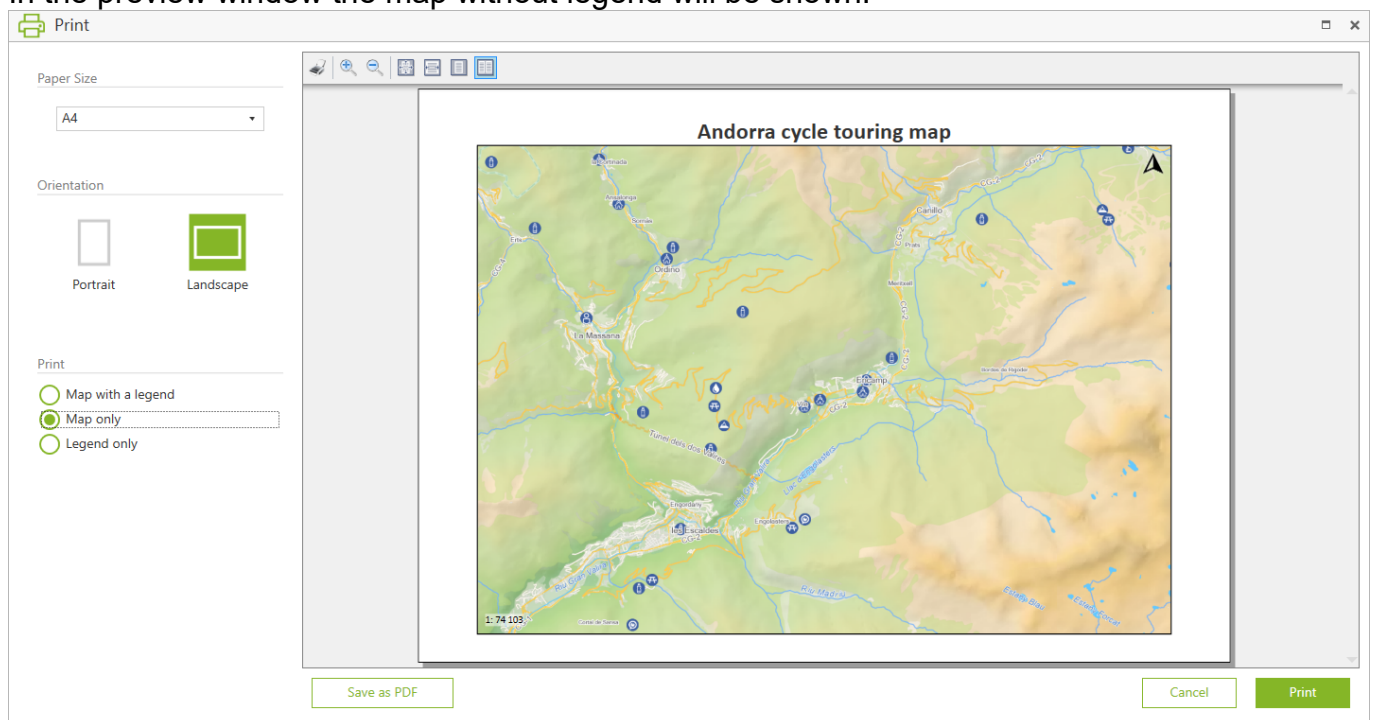
Landscape

By default, the map will be printed with the legend, but you can select other printing options. To print your map without legend, select *Map only* in the *Print* section.

Print

- ☐ Map with a legend
- ☒ Map only
- ☐ Legend only

In the preview window the map without legend will be shown.

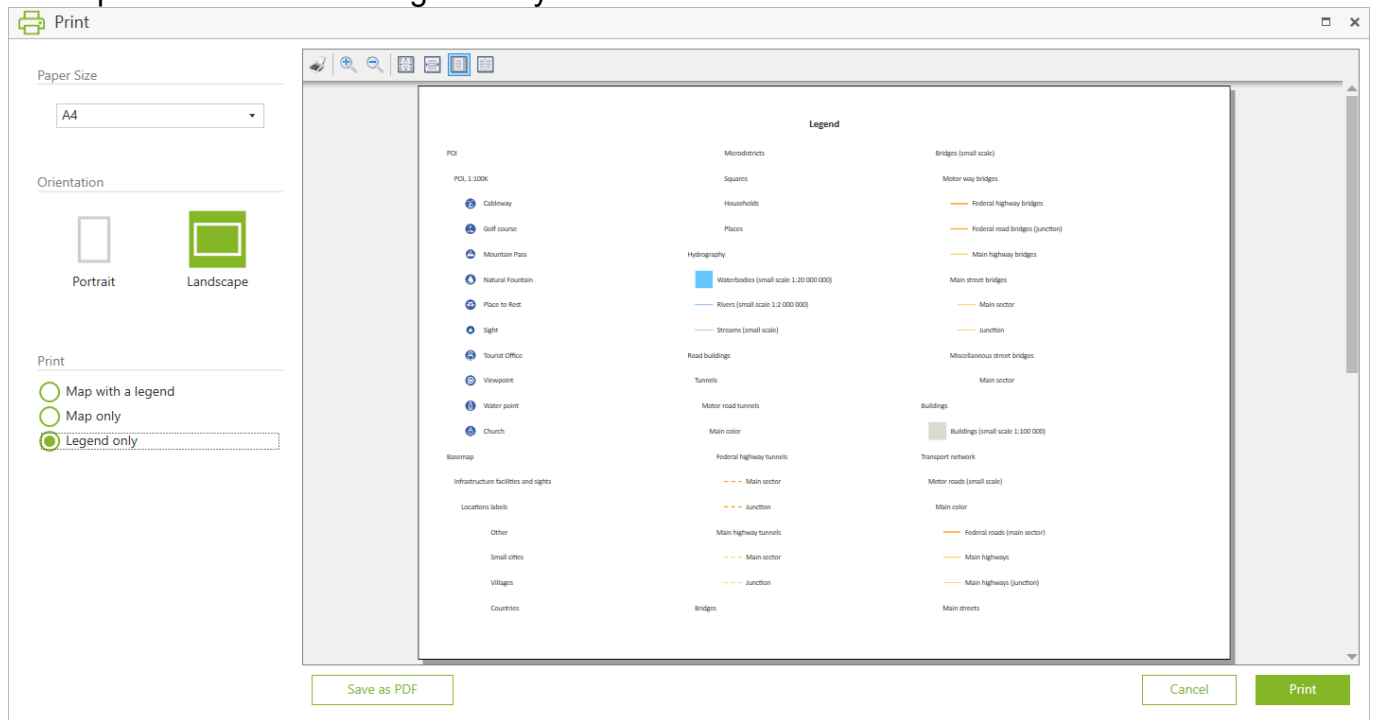


To print only map legend, select *Legend only* in the *Print* section.

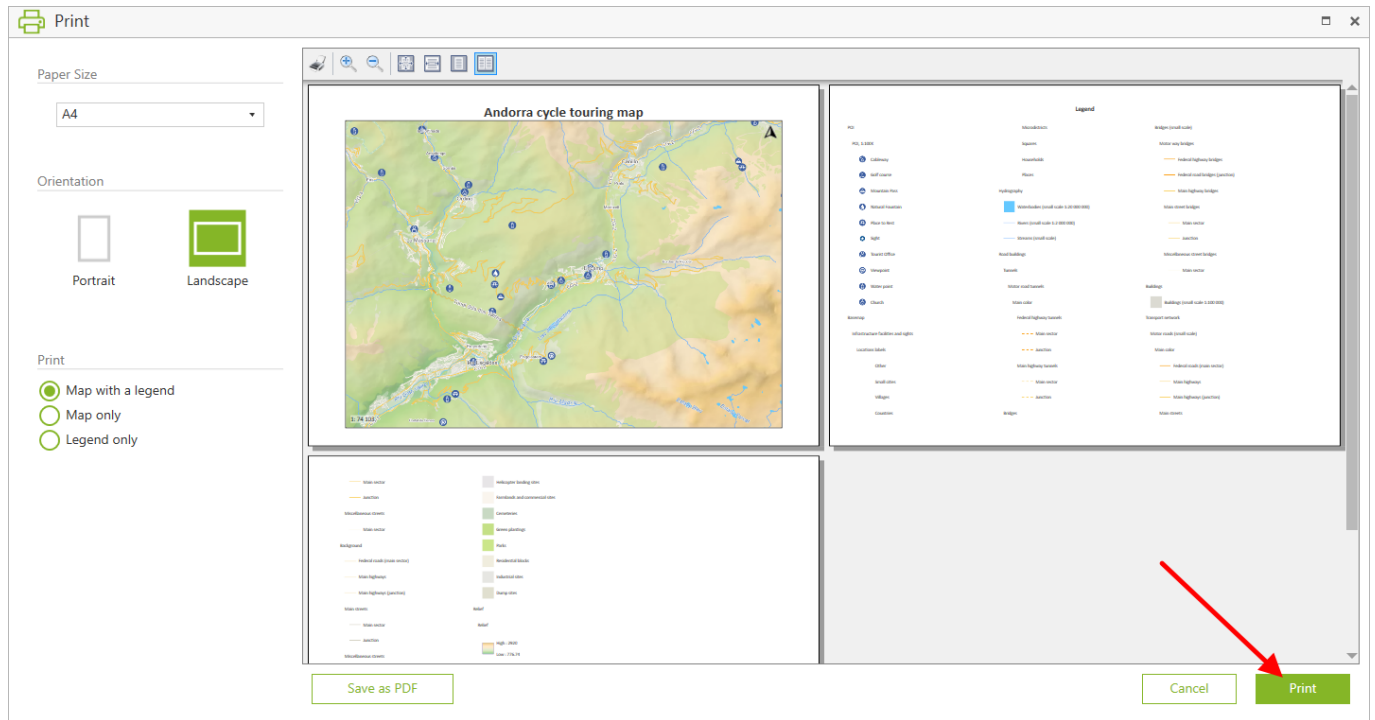
Print

- ☐ Map with a legend
- ☐ Map only
- ☒ Legend only

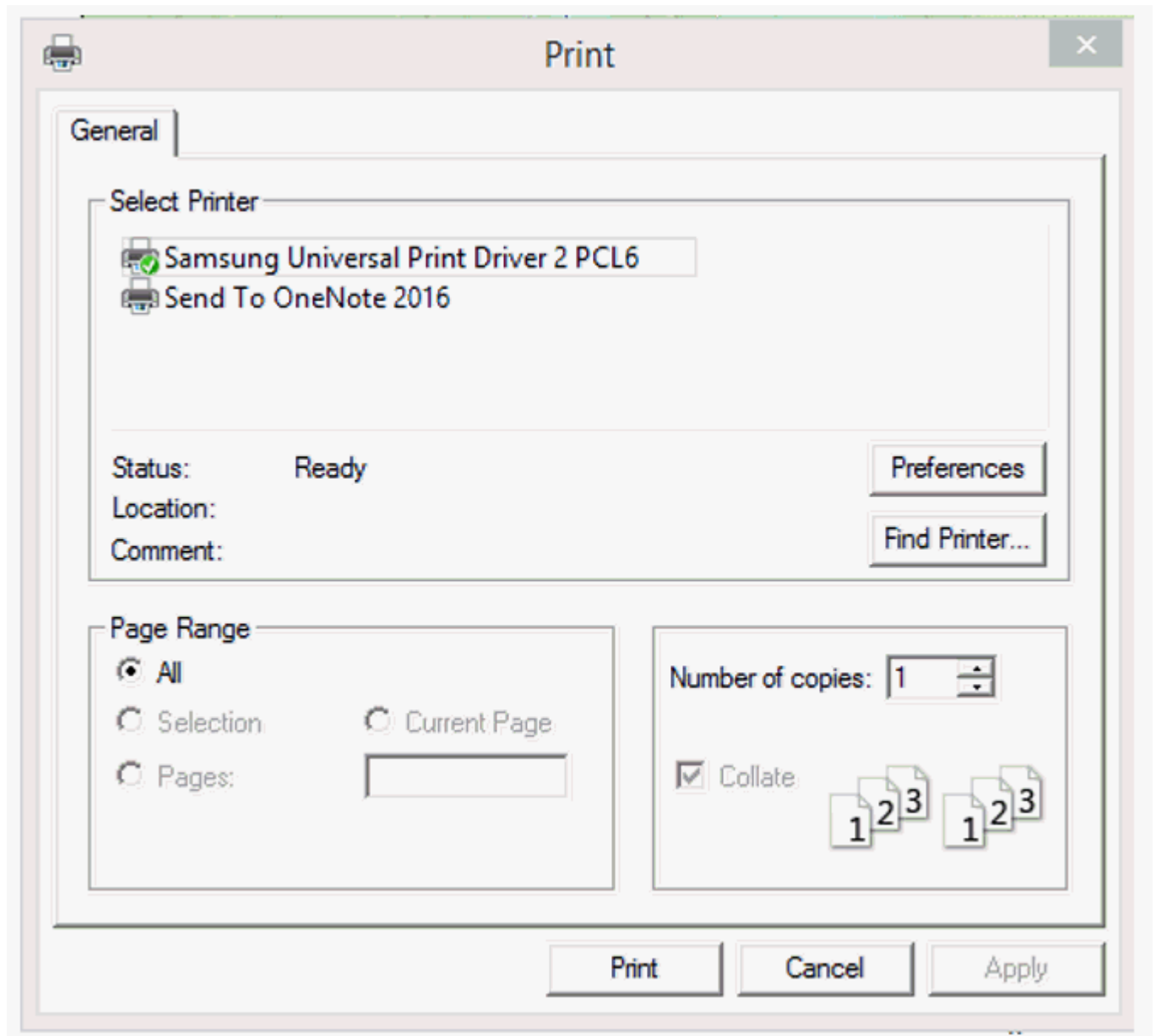
In the preview window the legend only will be shown.



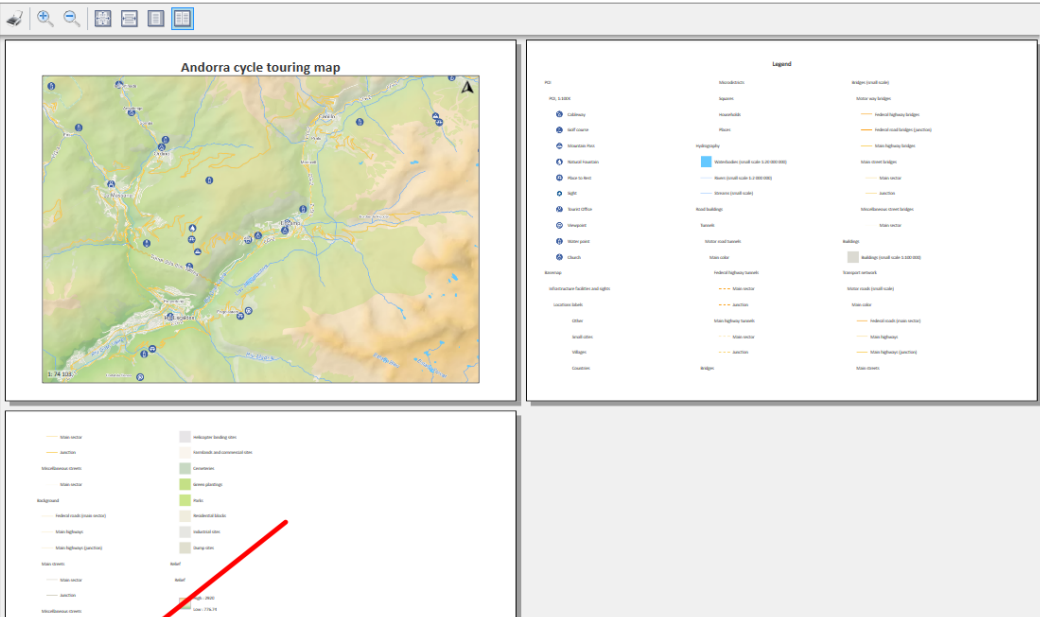
After setting all printing options, press *Print*.



In the appeared window select printer and press *Print*.



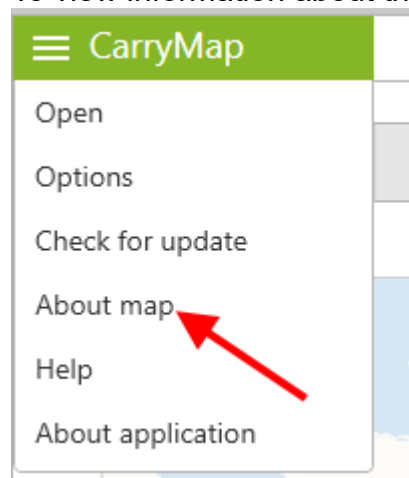
To save selected map area as PDF file, press *Save as PDF*.



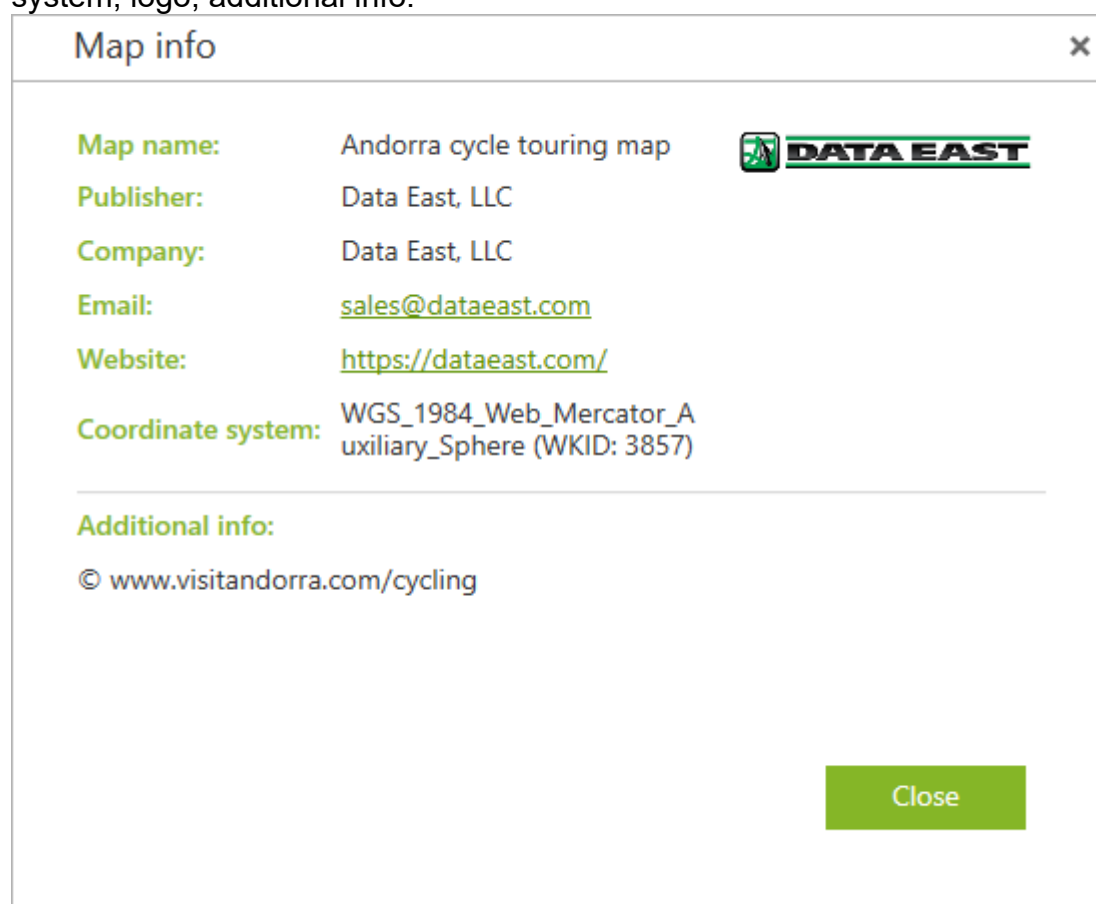
In the appeared window select location and name of the output PDF file and press **Save**.

Map information




To view information about the map, go to the app main menu. Select *About map*.





The window showing information about the map specified during its creation using [CarryMap Builder](#) extension will appear: map name, publisher, company, email, website, coordinate system, logo, additional info.



Finding current location

To find your current location, press . Your current location will be marked on the map with the arrow icon , and the tool button will change its color .

To enable the tracking mode with map rotation, press  again. The button appearance will change .

To disable finding current location option, press  again.

When working with the desktop CarryMap app make sure that the finding current location option is enabled on your computer.

Using external GPS receivers

Besides the embedded GPS receiver of your device, CarryMap app supports external GPS receivers from Bad Elf. Using these GPS receivers allows to specify coordinates of your current location more accurately.

Note that making all settings for Bad Elf GPS option is done outside CarryMap app. To connect Bad Elf receiver, enable Bluetooth on your device and all available receivers will be shown in the appeared list. Select the required GPS hardware and confirm that you want to pair devices. After that go to CarryMap app.

If Bad Elf GPS receiver has been connected, you would see the appropriate message:
Bad Elf GPS receiver has been connected.

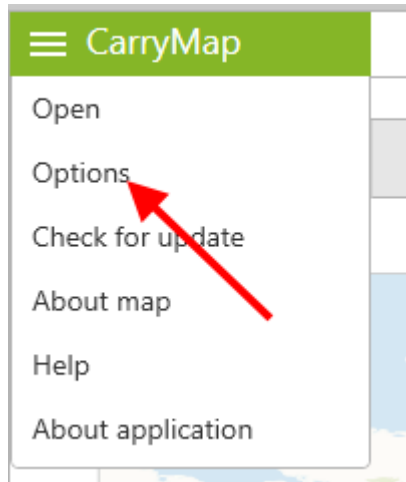
If by some reason Bad Elf receiver works inappropriately, CarryMap app will automatically use the embedded GPS receiver of your device (if geolocation option is enabled), and the appropriate message will appear:
Connection with Bad Elf GPS receiver has been lost. Temporarily the embedded GPS receiver of your device is being used.

If geolocation option is disabled on your device and Bad Elf receiver works inappropriately, you will see the warning message:
Connection with Bad Elf GPS receiver has been lost. Reconnect Bad Elf device or enable GPS location option to use the embedded GPS receiver of your device.

To be able to find your current location and to record tracks, make sure to enable the geolocation option on your device or check the Bad Elf receiver connection.

Application settings

You can access the application *Options* from the menu on the start page of the application or from the main menu in the map window.



In this window, you can change the general settings of the application and find out information about the device ID:

Language – changing the app UI language, the currently available language options are Russian or English.

Device ID – viewing and copying information about the device ID based on which the availability of maps protected by device ID is determined (see [Working with protected maps](#)).

Measurement units – changing the measurement system:

- Metric system (meters, kilometers):
 - Area units:
 - Square meters/kilometers,
 - Hectares;
- British system (feet, miles, acres).

Radius units – changing the radius measurement units, the available options are Metric system (meters, kilometers) or British system (feet, miles).

Creating features – changing the method of creating polyline and polygon features:

- Not defined;
- Straight line;
- Freehand line.

Feature card – changing the position of the feature card on the map window.

Curcular ruler – changing the display of elements of the circular ruler in the map window.

Options



Language

English (United States) ▼

Device ID

DE8C76B0-94FB-5476-9408-901437047602

Measurement units

Meters, Kilometers ▼

Area units

Square meters/kilometers ▼

Radius units

Meters ▼

Creating features

Method of creating polyline and polygon features

- ☒ Not defined
- ☐ Straight line
- ☐ Freehand line

Feature card

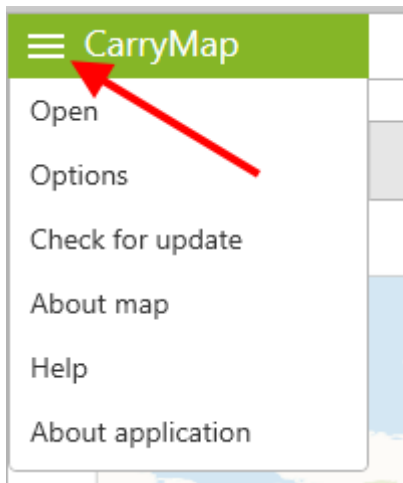
Pin feature card ☐

Circular ruler

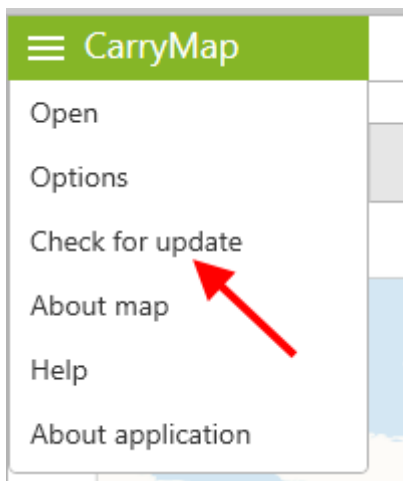
Show circular ruler ☐

Checking for updates

Press *Menu* on the CarryMap panel in the upper left corner.



In the appeared menu press *Check for update*.



The application will check availability of CarryMap updates. In case of finding any newer CarryMap version you will see the appropriate dialog suggesting downloading it.

Support

If you have any questions or comments regarding the CarryMap for Windows use, contact us at support@xtools.pro