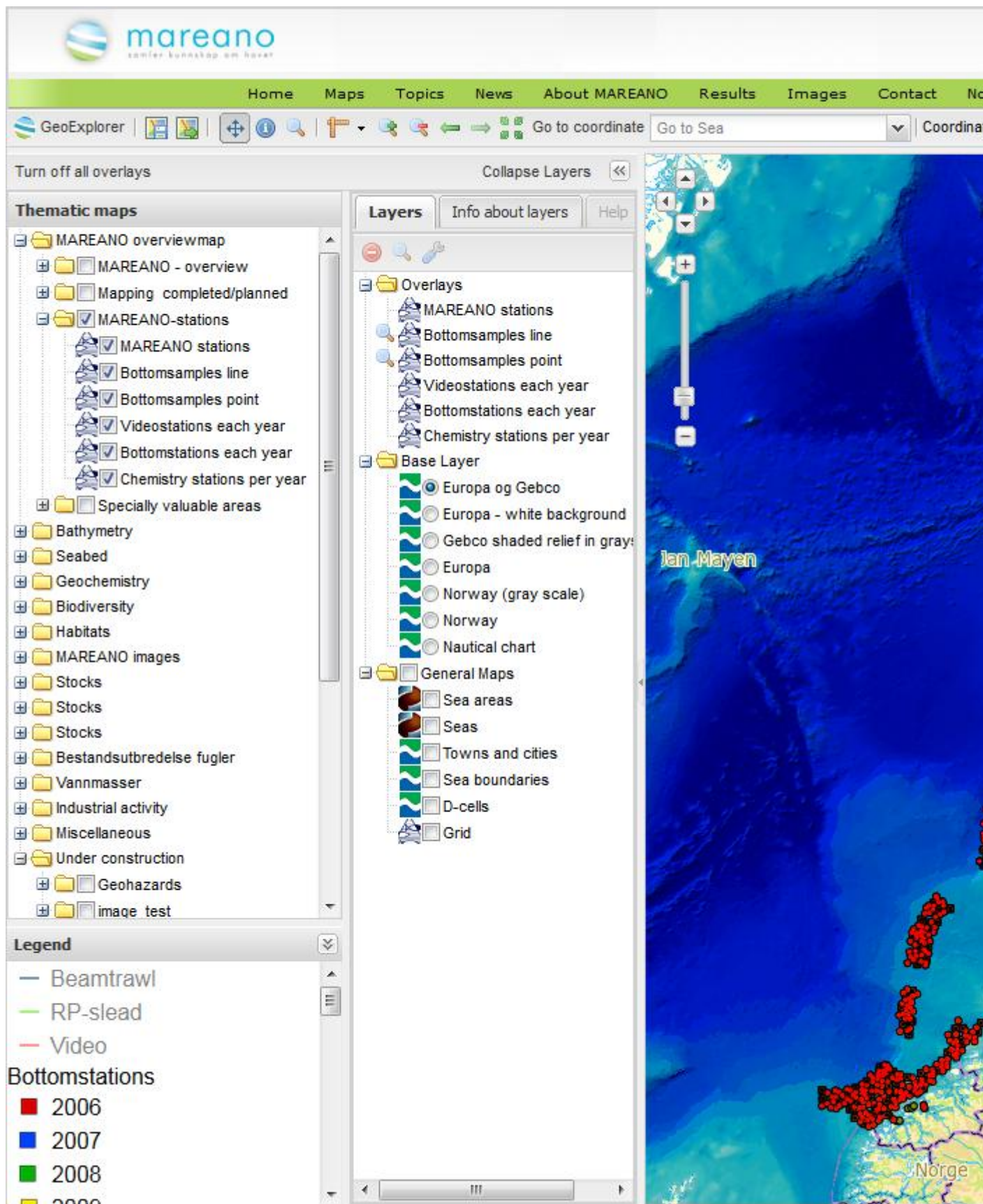


# GeoExplorer MAREANO HELP

## GeoExplorer MAREANO workspace

The GeoExplorer MAREANO workspace is divided into three main areas:

1. *Map Window* -Map display window
2. *GeoExplorer toolbar* -Main application toolbar
3. *Maplayers panel* –Displays a list of thematic map layers and a list of layers at the same time as the Legend is shown below the list of thematic map layers. In the layers list it is three folders: Layers folder (On top the Overlays list with the active layers, then base layers and on the bottom general maps, Info about layers folder (shows active layers metadata) and help folder.



*GeoExplorer Mareano workspace*

# Map Window








The Map Window provides the main display area for any layers that have been added to GeoExplorer Mareano. The contents of the Map Window are configured via the Thematic maps / Layers panel and the main toolbar provides display and navigation tools for zooming, panning, and other tasks.

## Map Window toolbar

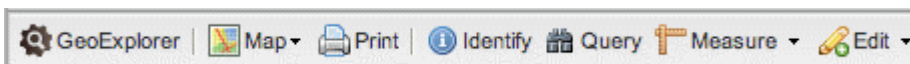
The *Map Window* toolbar provides access to the following tools:



*Map Window toolbar*







Button	Name	Description
	<i>Pan map</i>	Pan the Map Window by click and drag (enabled by default). Shift, click, and drag together zooms in to a user-defined extent.
	<i>Zoom by dragging a box</i>	Zoom to user-defined extent
	<i>Zoom in</i>	Increases the zoom level by one
	<i>Zoom out</i>	Decreases the zoom level by one
	<i>Zoom to previous extent</i>	Returns to the previous map extent
	<i>Zoom to next extent</i>	Returns to the next map extent (activated only after using <i>Zoom to previous extent</i> )
	<i>Zoom to max extent</i>	Zooms to the maximum extent of all layers

## GeoExplorer toolbar

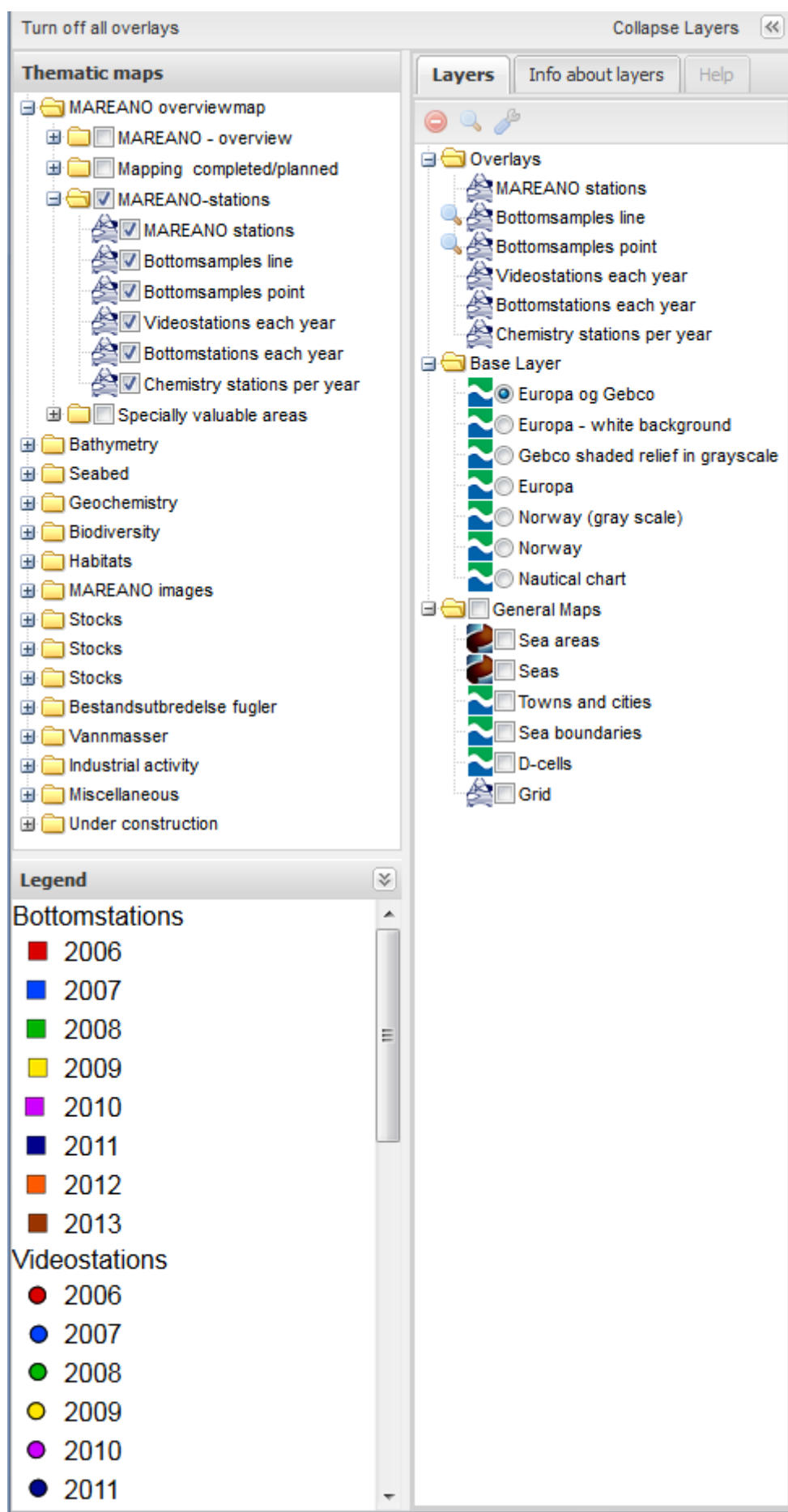


*GeoExplorer toolbar*

The *GeoExplorer* toolbar provides access to the following tools:

Button	Name	Description
 GeoExplorer	<i>GeoExplorer</i>	Displays information about the GeoExplorer application
	<i>Publish map</i>	Composes a map application based on the current Map Window and generates HTML code to embed the application into a web page.
	<i>Save map</i>	Saves the current Map Window composition and generates a URL to revisit the current configuration.
 Identify	<i>Identify</i>	Displays feature information (attributes) for the feature at a user-defined location in the Map Window
 Measure ▾	<i>Measure</i>	Measures distance or area in the Map Window
Go to coordinate	<i>Go to coordinate</i>	Goes to chosen coordinate: Position in WGS84 (Latitude, Longitude – for example : 60.2 , 1.5 )
	<i>Go to ocean area</i>	Goes to chosen ocean area.

## Maplayers panel



## *Maplayers panel*

*Maplayers panel*—Displays a list of thematic map layers and a list of layers at the same time as the Legends are shown below the list of thematic map layers. In the layers list it is three folders: Layers folder ( On top the Layers toolbar, then the Overlays list with the active layers, then base layers and on the bottom general maps), Info about layers folder (shows active layers metadata) and help folder.

Layers panel contains a list of layers, divided in three folders Overlays, Base Layers and General Maps on top is the Layers toolbar.

The display of the individual layers can be configured as required. To make a layer invisible, clear the check box next to layer. To make the layer visible again, select the check box.

## Overlays

The *Overlays* folder is initially empty when GeoExplorer is first started. You can *Add layers* to the list by selecting the check box next to the layer in the Thematic maps list.

## Base Layer

The *Base Layer* folder contains base, or background, layers. A base layer will always be drawn beneath all other *Overlays* layers. Although only one base layer can be active at any time, it is multiple base layers in the list. It is also possible to drag layers between the *Base Layer* folder and the *Overlays* folder.

The default base layer is Europe and Gebco.

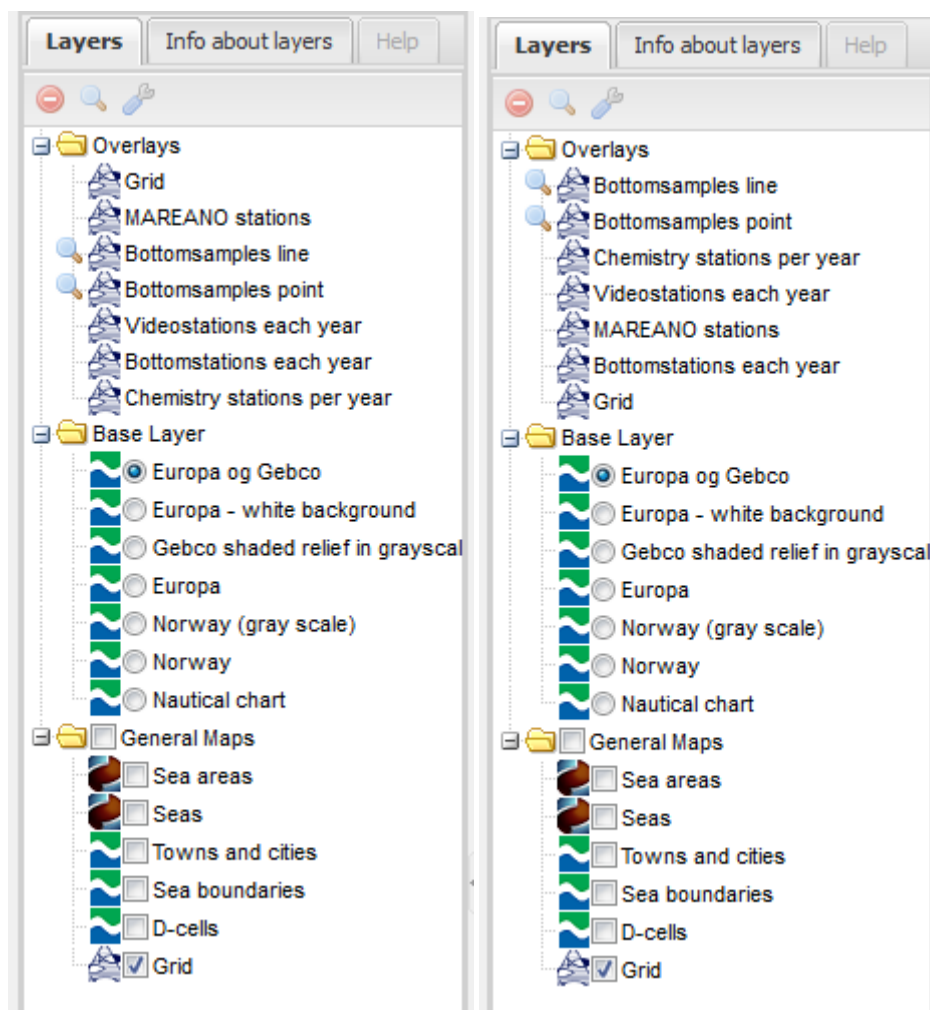
## General Maps

The General Maps folder contains general overlay maps as grids. When selected the layer is displayed in the Overlays folder.

## Layer order

Layers in the *Layers* panel may be reordered to affect the rendering, or draw, order. To change the layer order, click and drag the layers in the *Overlays* list in the *Maplayers panel*. The layers will be rendered in the order in which they are listed—the layer at the top of the list will display on the top of all of the other layers, the next layer will be drawn below that, and so on. The selected base layer will *always* be drawn beneath all *Overlays* layers. General Maps will always initially be rendered on top of the layers in the Overlays folder and the Base Layer, but can be moved as the other layers in the Overlay folder.








Change the drawing order to the layers in the Overlays folder by drag and drop.

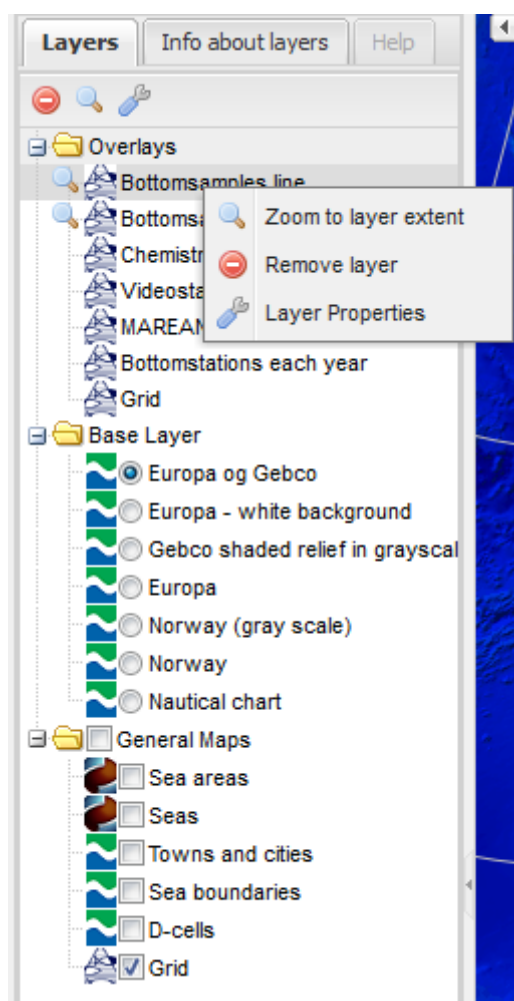
### Layers panel toolbar

The *Layers* panel toolbar provides access to the following tools:

Button	Name	Description
	<i>Remove layer</i>	Removes the currently selected layer from the list
	Zoom to layer extent	Zooms to layer extent
	<i>Layer Properties</i>	Displays the <i>Layer Properties</i> for viewing and the properties of the selected layer (layer name, title and description). For attribute information, use the Get feature info tool.




### Layers panel shortcut menu

You can also right-click an entry in the layers list to display a shortcut menu.



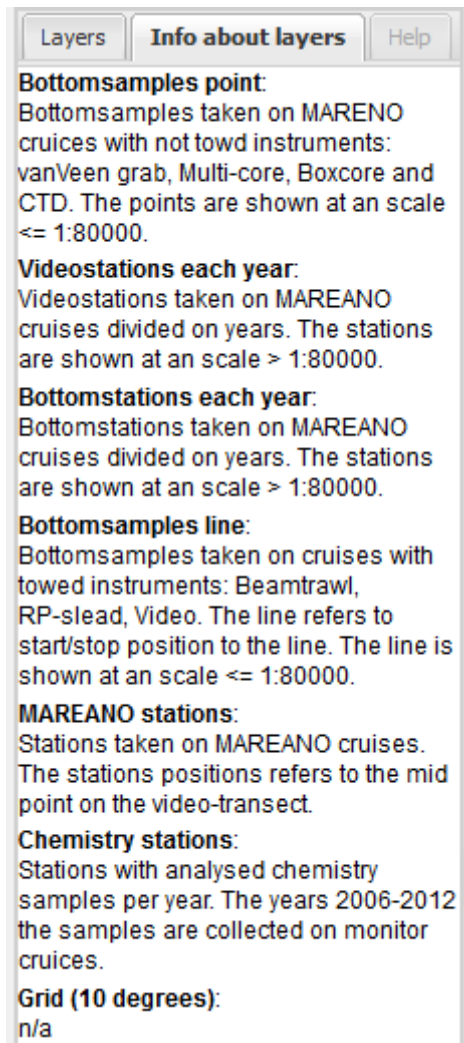
### *Layer shortcut menu*

This shortcut menu provides access to these tools:

Button	Name	Description
	<i>Remove layer</i>	Removes the currently selected layer from the list
	Zoom to layer extent	Zooms to layer extent of the selected layer
	<i>Layer Properties</i>	Displays the <i>Layer Properties</i> for viewing and the properties of the selected layer (layer name, title and description). For attribute information, use the Get feature info tool.

### Info about layers





### *Info about layers*

The Info about Layers panel displays the properties of the currently selected layers, including layer name and description.

## GeoExplorer toolbar

### **Save map**

Save a map application

### **Publish map**

Publish a map application

### **Get Feature Info**

Get Feature Info at a given location

## Measure

Measure length or area

## Save map

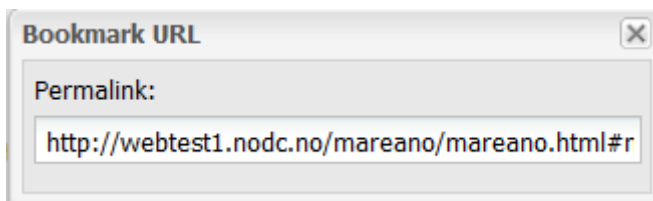
With GeoExplorer you can save the current map configuration. This configuration will include the list of layers, with ordering settings preserved, and the current *Map Window* extent. These configurations are saved in the form of a URL, which may be bookmarked.

To save the current map configuration, click *Save Map button* on the *GeoExplorer toolbar*.



### *Save map tool*

A pop-up window will display with a URL. Save or bookmark this URL to reload the current GeoExplorer configuration at a later time.



### *Save map URL*

## Configuration files

GeoExplorer saves map configurations in a SQLite file called `geoexplorer.db`. Although it is not possible to edit configurations in GeoExplorer, they can be viewed and edited using a SQLite client.

Note

To embed a map in a web page, use the *Publish map* tool.

## Publish map

The *Publish map* tool will generate a map application that can be embedded in a web page. You can customize the tools to include in the map application toolbar.

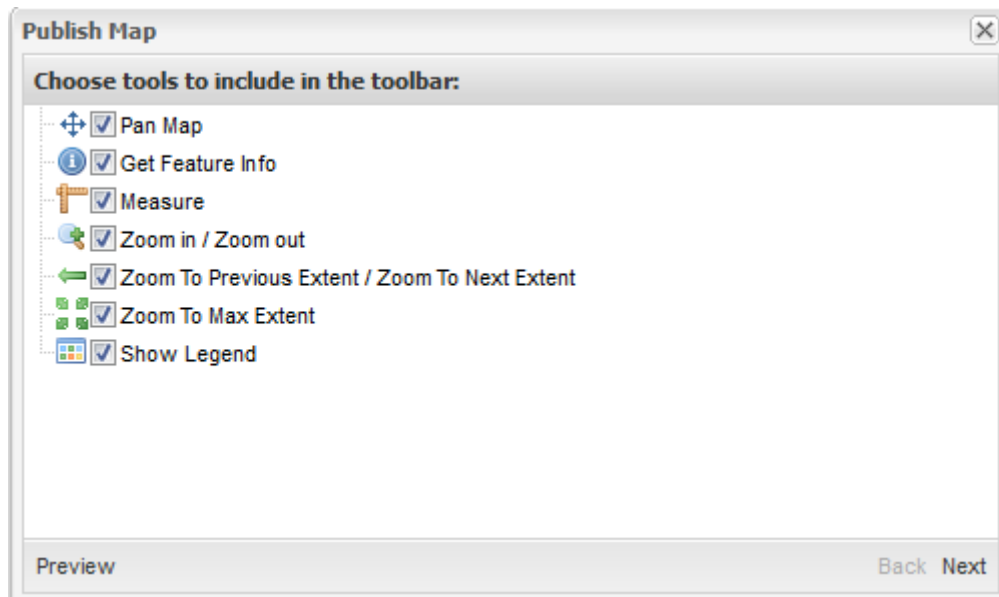
Click *Publish Map* button on the *GeoExplorer toolbar* to display the *Publish map* dialog box.



## *Publish map tool*

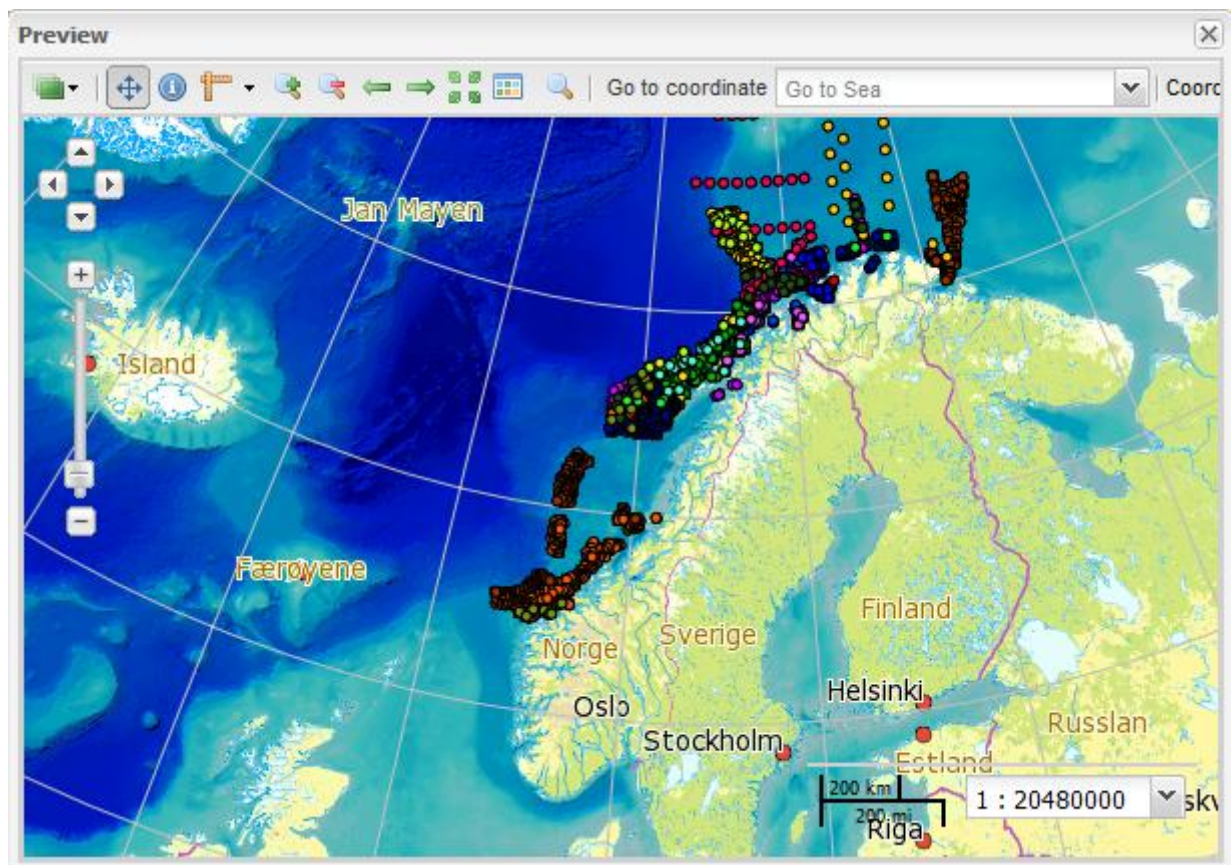
# Tool selection

The first panel of options allows you to select the tools you will require in the published map. By default, all the tools are selected. To remove a tool, clear the check box beside the tool you wish to exclude.





## *Publish map tool selection*

Click the *Preview* button to generate a preview of the map application. The map preview will open in a new *Preview* window.



### Previewing a map

The tools in the published map will include the tools you selected, plus the following two additional tools:

Button	Name	Description
	Layer Switcher	A List of available <i>Overlays</i> and <i>Base Maps</i> . Click a layer in the list to switch the map display to that layer.
	About this Map	Displays information about the GeoExplorer application

Close the *Preview* window to return to the *Publish map* dialog box. Click *Next* to continue.

## HTML generation

The next panel will contain the HTML code for your map application. The predefined *Map Size* options are *Mini* (100x100 px), *Small* (200x300 px), *Large* (400x600 px), and *Premium* (600x800 px). You can adjust the *Height* and *Width* settings as required.

**Publish Map** [X]

**Map Size** Large [v] **Height** 400 **Width** 600

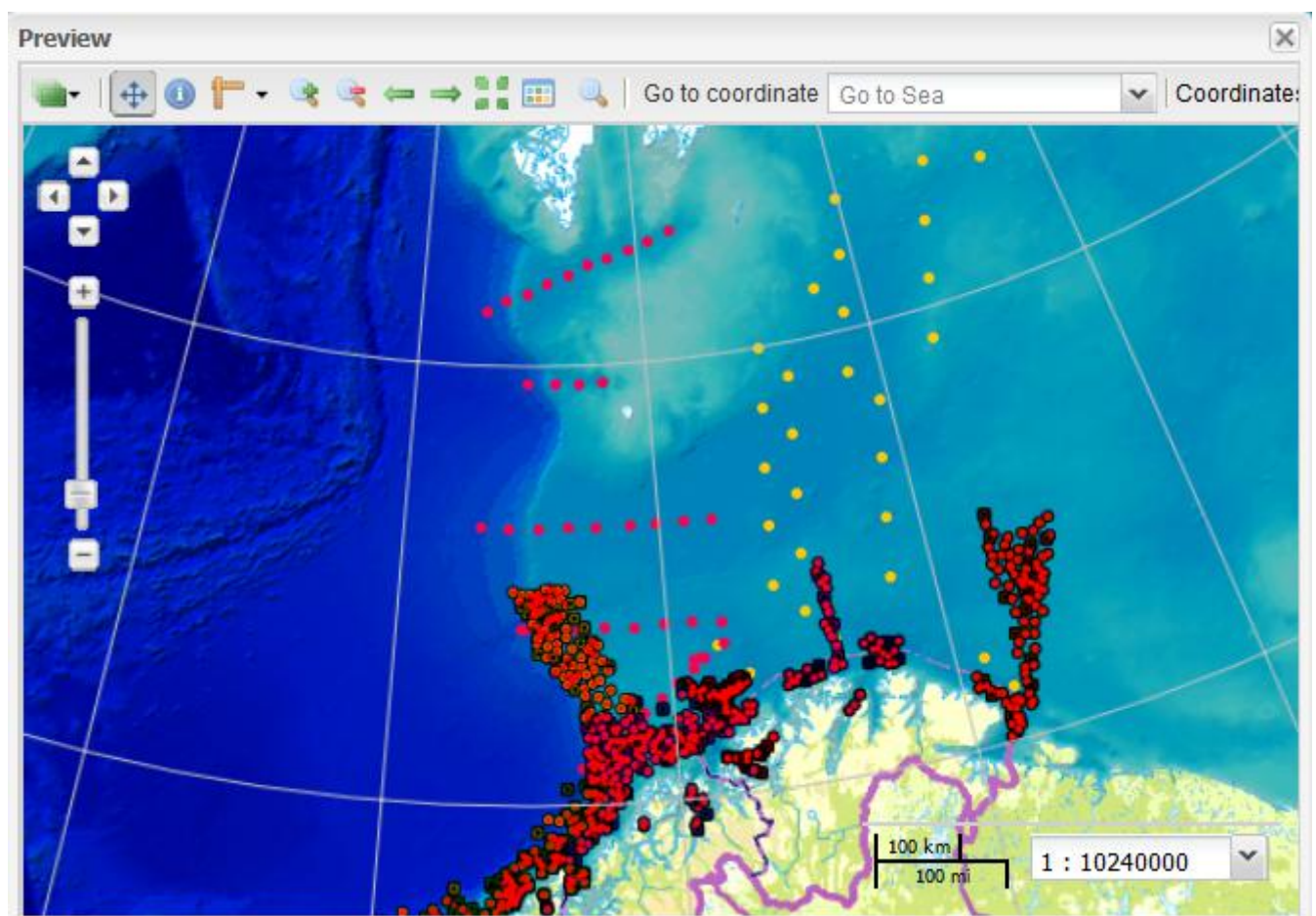
Your map is ready to be published to the web! Simply copy the following HTML to embed the map in your website:

```
<iframe style="border: none;" height="400" width="600"
src="http://webtest1.nodc.no/mareano/viewer#maps/23"></iframe>
```

Preview [Back] [Next]

### *Generating HTML code*

Copy this HTML code into a web page to display the map application.



### *Published map*

## Get Feature Info

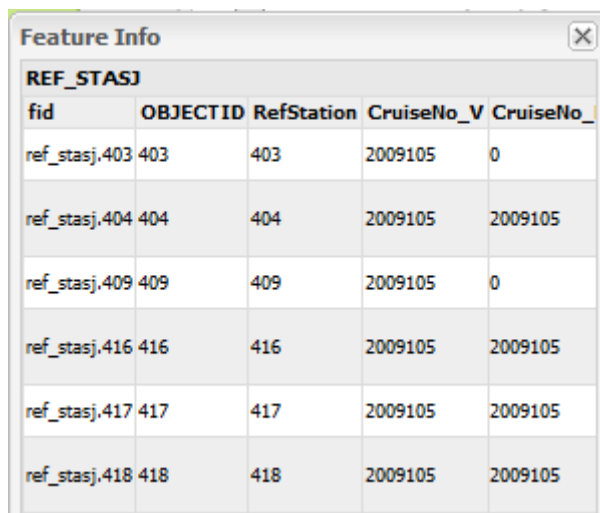
The Get Feature Info tool will return attribute information for any features, in all visible layers, identified at a given location in the *Map Window*.

To activate this tool, click *Get Feature Info* on the *GeoExplorer toolbar*.



### *Get Feature Info* tool

With the *Identify* tool activated, click a location on the map. If a feature is found at that location, the *Feature Info* dialog box will be displayed, listing the feature's attribute information. If no features are found at that location, the *Feature Info* dialog box will not open.

A screenshot of the 'Feature Info' dialog box. It has a title bar with 'Feature Info' and a close button. Below the title bar is a table with the following data:

REF_STASJ				
fid	OBJECTID	RefStation	CruiseNo_V	CruiseNo_
ref_stasj.403	403	403	2009105	0
ref_stasj.404	404	404	2009105	2009105
ref_stasj.409	409	409	2009105	0
ref_stasj.416	416	416	2009105	2009105
ref_stasj.417	417	417	2009105	2009105
ref_stasj.418	418	418	2009105	2009105

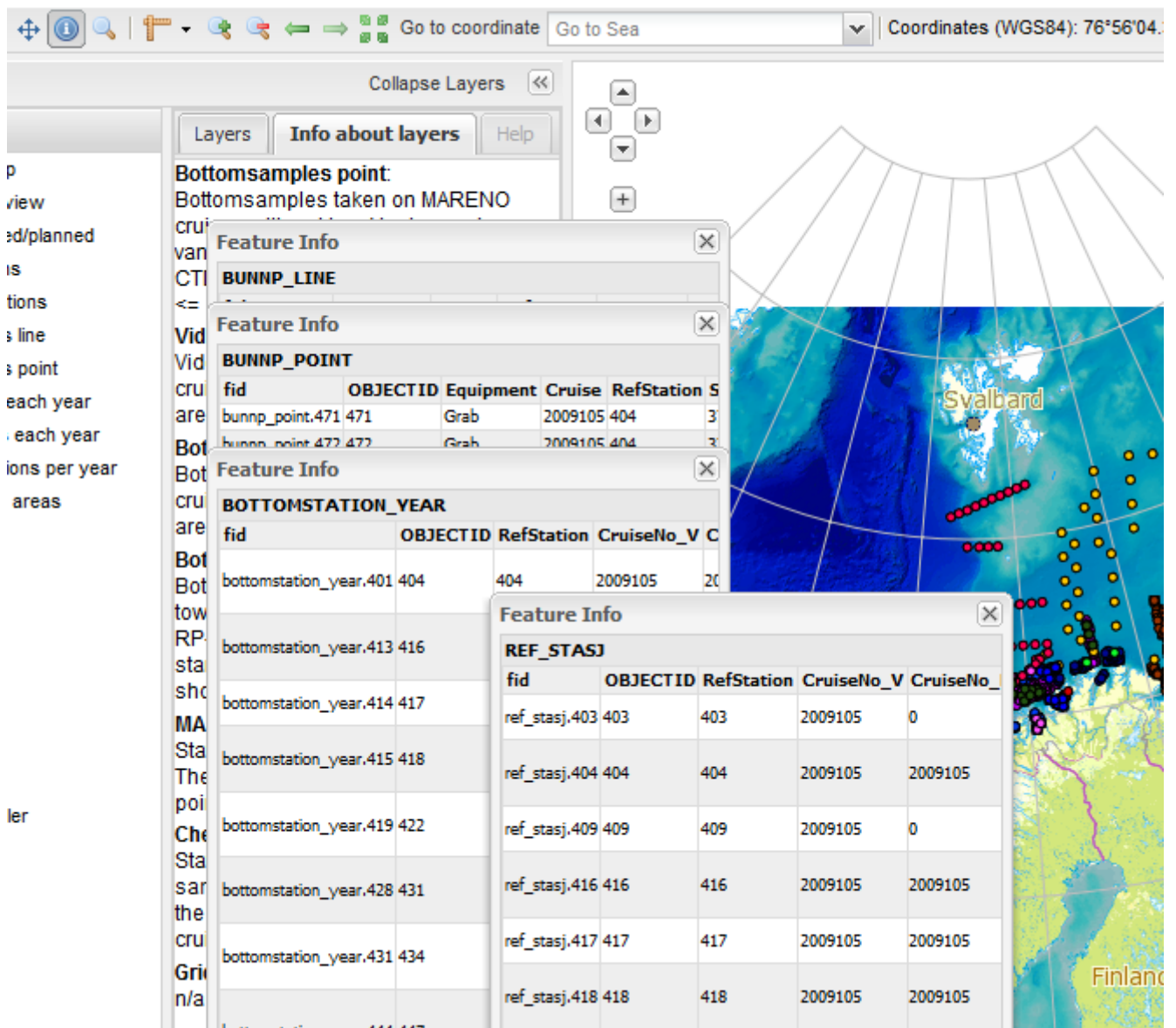
### *Get Feature Info* tool

#### Note

You can't use the *Identify* tool to identify features in a *Base Maps* layer.

If multiple features are found at that location, multiple layers will be listed in multiple Feature Info dialog boxes. Click and drag a Feature Info dialog box to expand its attribute list.





*Get Feature Info multiple features*

Note

The feature information displayed is the server's response to a WMS *GetFeatureInfo* request. This is typically a tabular listing of features and attributes, and is read-only in GeoExplorer. To customize the HTML output of the *GetFeatureInfo* request, edit the settings on the server.

## Measure

The *Length* and *Area* measure tools will calculate the length, in one dimension, or area, in two dimensions, for a given section of the map.

## Length



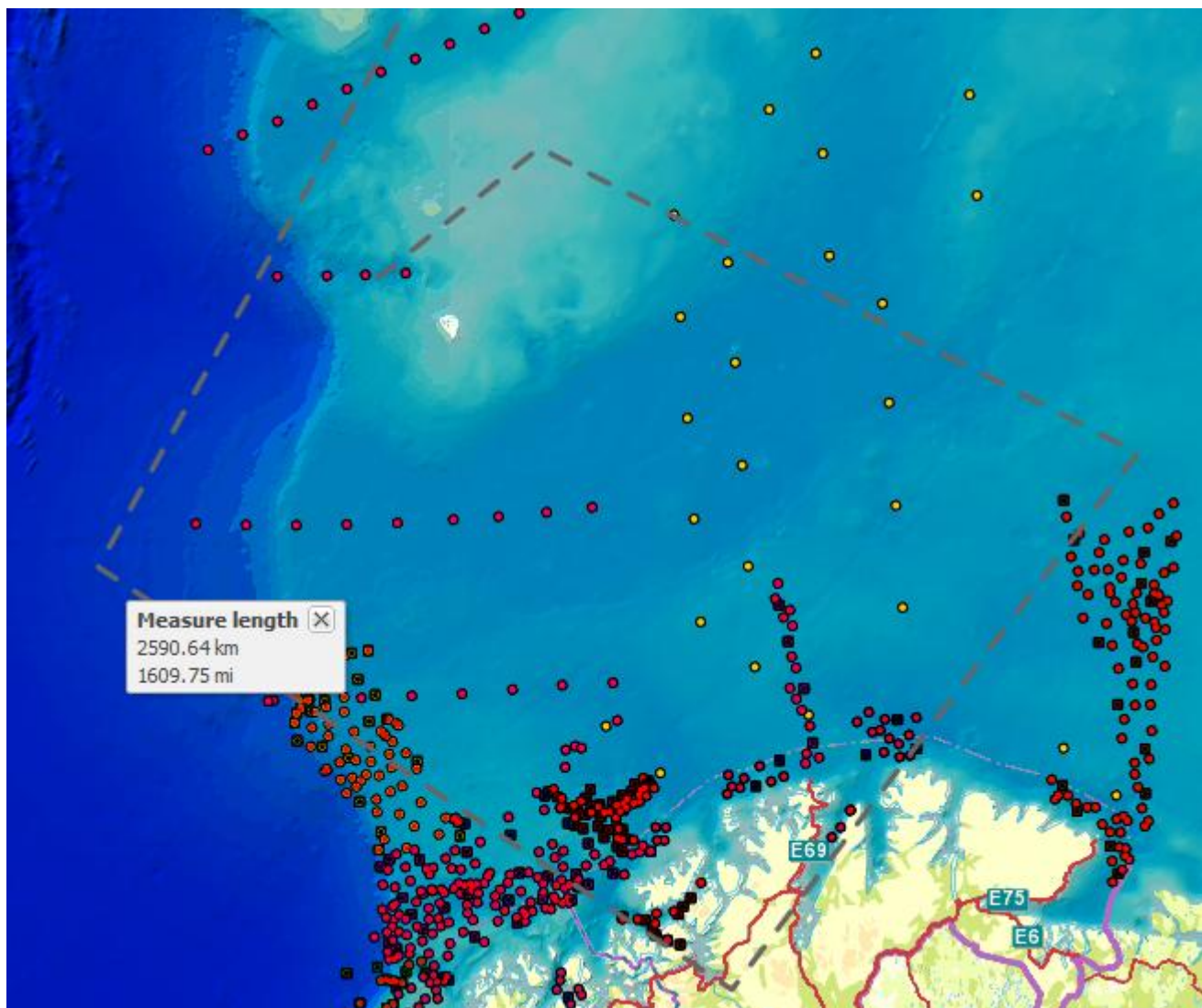
The *Length* tool will measure directly on the *Map Window*. The measurement value represents the sum of one or more line segments or curves.

1. To activate the *Length* measure tool, click *Measure* on the *GeoExplorer toolbar* and then click *Length*.



#### *Length measure tool*

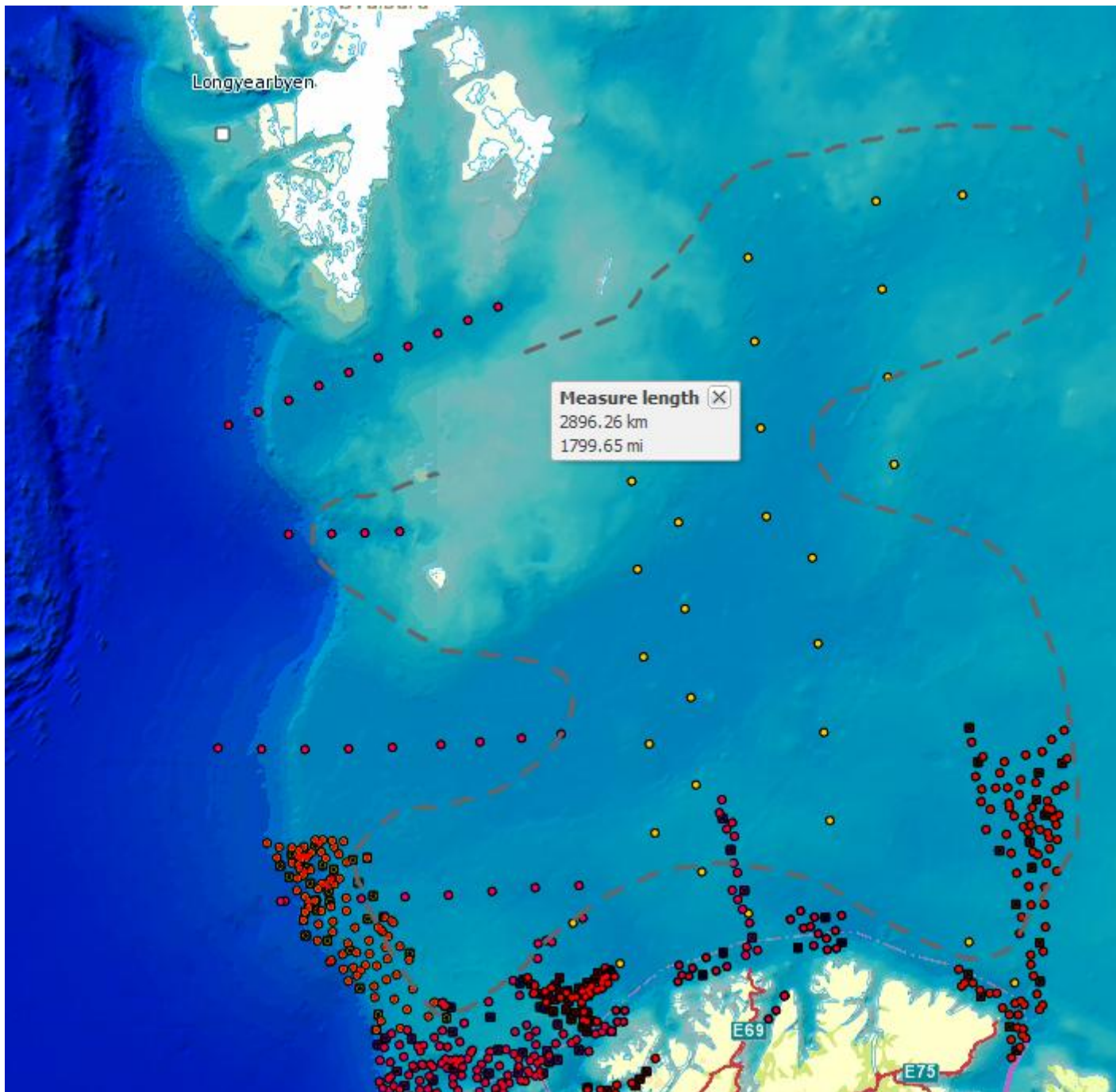
2. To start the measurement, click a location on the map. As you move the mouse from that location, a dashed line will extend from the initial point. Click somewhere else on the map to create a second point. The length of the line segment between the two points will be displayed (in both kilometers and miles) in the *Measure length* pop-up window. To continue the measurement, click additional points on the map. The reported length will be the cumulative total of the length of all line segments.



### *Length measurement with line segments*

3. To finish measuring the length, double-click a location on the map. The measured line will disappear from the *Map Window* when the *Measure length* pop-up window is closed.

Sometimes straight line segments may not be the best option for measuring length, so measurement by freehand drawing is also supported. To activate freehand drawing, hold down Shift, click, and hold down the left mouse button while moving the mouse around the map. The dashed line will follow the mouse movements. You can combine line segments and freehand drawing in the same measurement.

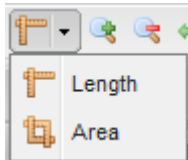


## *Length measurement with freehand drawing*

# Area

The *Area* tool measures directly on the *Map Window*. The measurement value represents the area of a polygon made up of one or more line segments or curves.

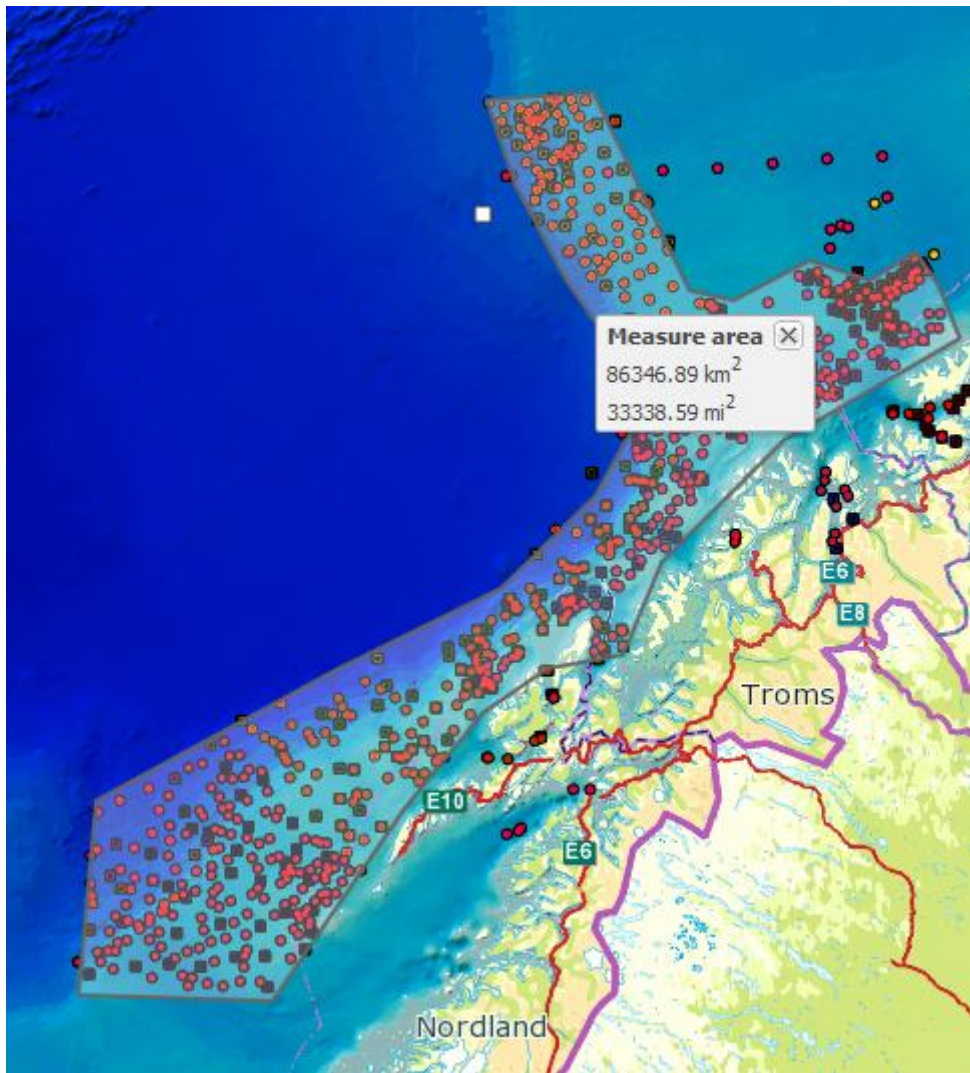
1. To activate the *Area* measure tool, click *Measure* on the *GeoExplorer toolbar* and then click *Area*.



### *Area measure tool*

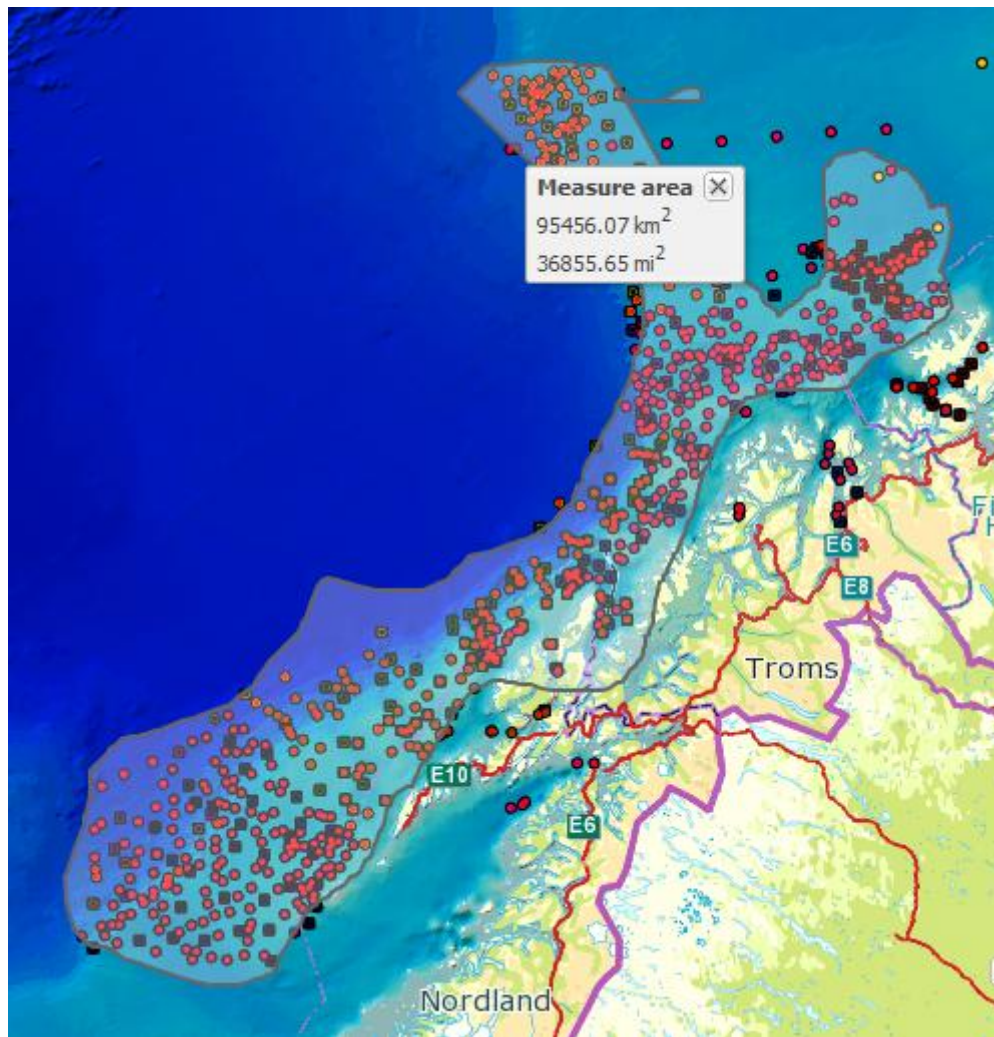
2. To start the measurement, click a location on the map. As you move the mouse away from that point, a solid line will extend from the initial point. Click again to create a second point. These points will become the vertices of the polygon that will be measured. To continue the measurement, click additional points on the map. After three vertices have been added to the map, the current area measurement will be displayed (in both square kilometers and square miles) in the *Measure area* pop-up window.
3. To finish measuring the area, double-click a location on the map. The measured area outline will disappear from the [Map Window](#) when the *Measure area* pop-up window is closed.





### *Area measurement with a polygon*

Sometimes straight line segments may not be the best option for measuring area, so measurement by freehand drawing is also supported. To activate freehand drawing, hold down Shift, click, and hold down the left mouse button while moving the mouse around the map. The solid line will follow the mouse movements. You can combine line segments and freehand drawing in the same measurement.



*Area measurement with freehand drawing*