

## AMAre - Actions for Marine Protected Areas

### GEOPORTAL USER MANUAL

Version 1.0

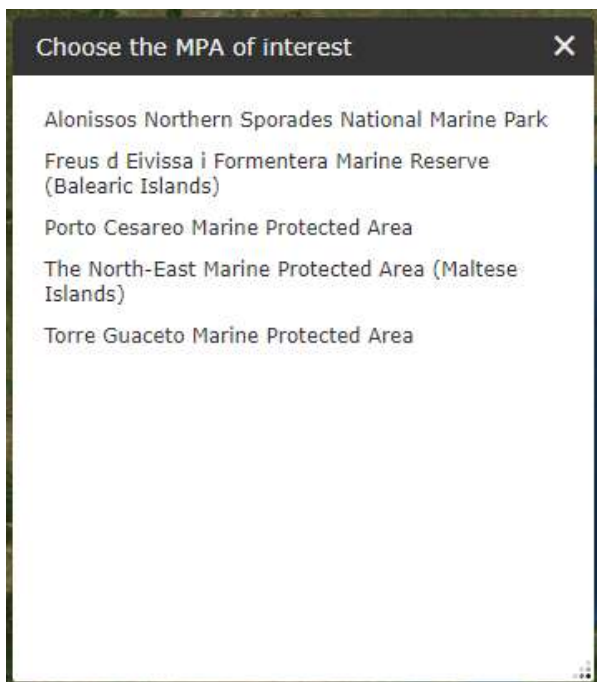
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**Dates:** 22/01/2020

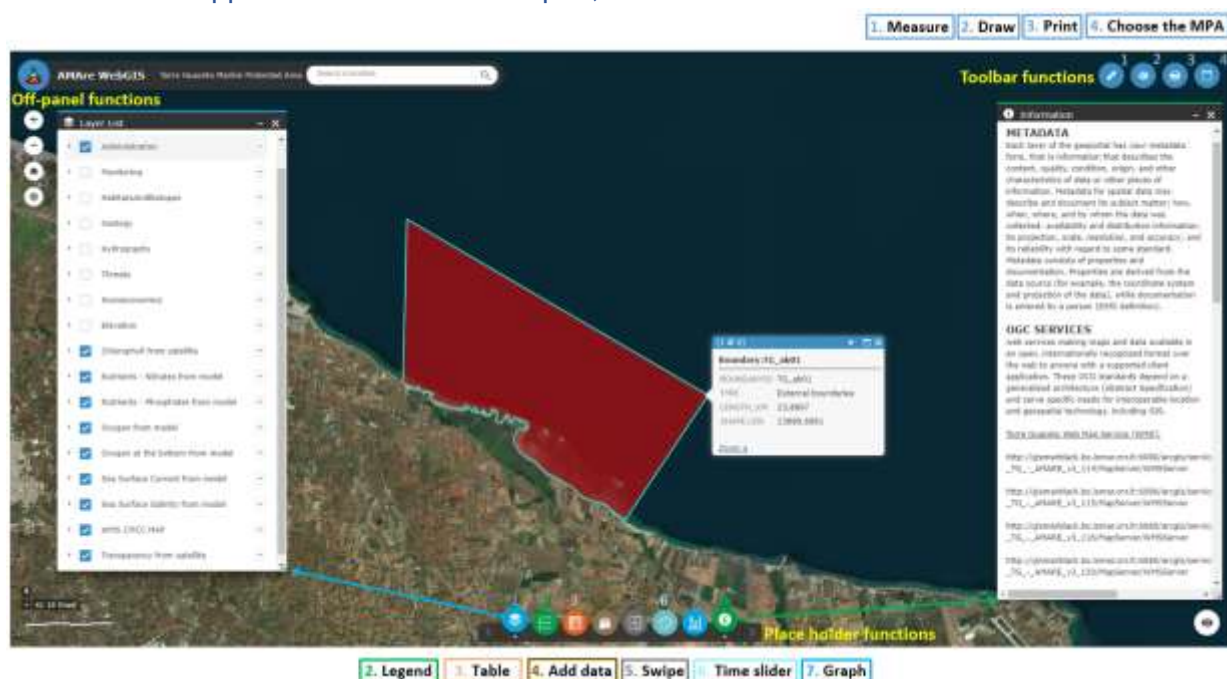
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Once the web application of the MPA is open, all the functions are available.

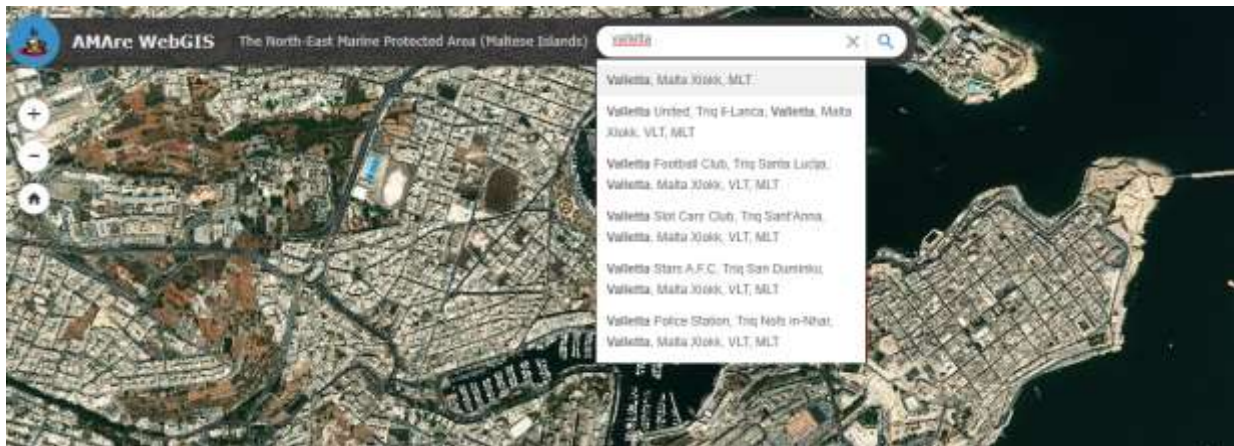


The following paragraphs show the list of functions available on the portal.

## 2. Off-panel functions

## 2.1. Search a location

This function  allows user to search a toponym on land, the user choose the location of interest between the item proposed by the list and to move the map on this one.



## 2.2. Zoom in/Zoom out

These functions  allow the user to change the scale in or out.

## 2.3. Default extent

This function  allows the user to return on the first view.

## 2.4. Coordinates and scale bar

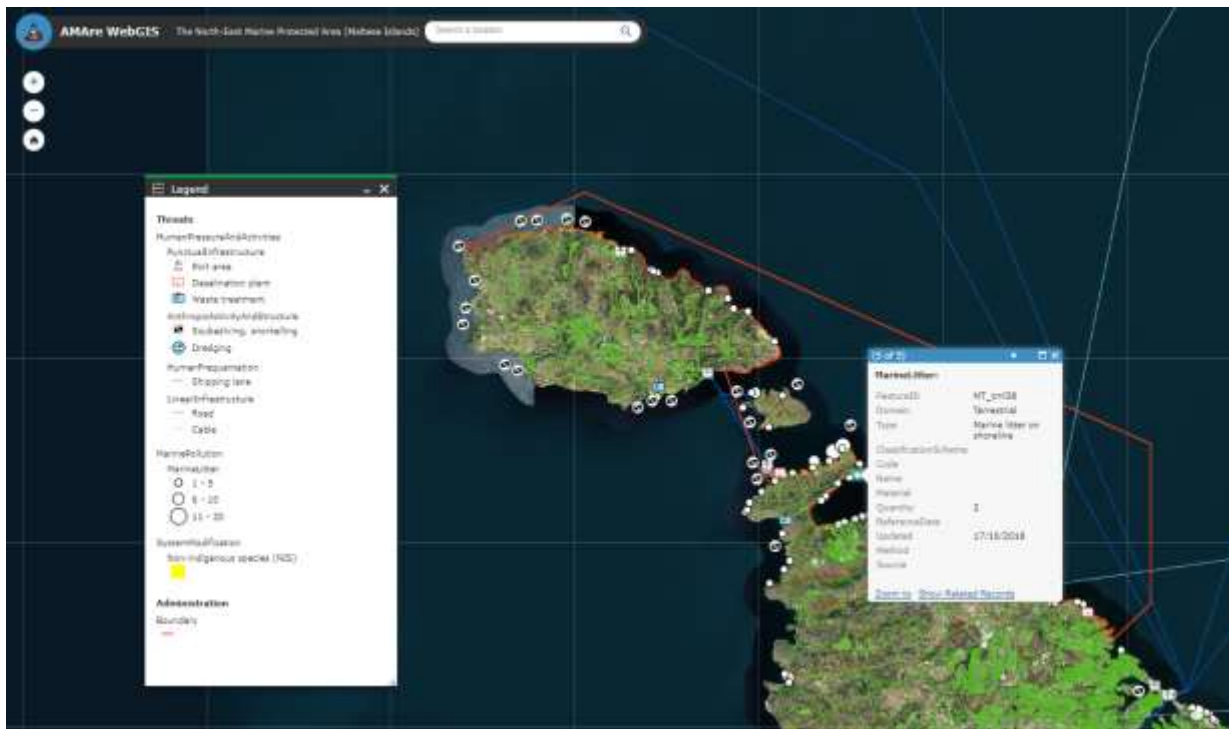
In the lower left corner, coordinates and scale bar are indicated.



## 2.5. Identify

The user can chooses a feature on the map and by clicking, he visualizes the related textual information.



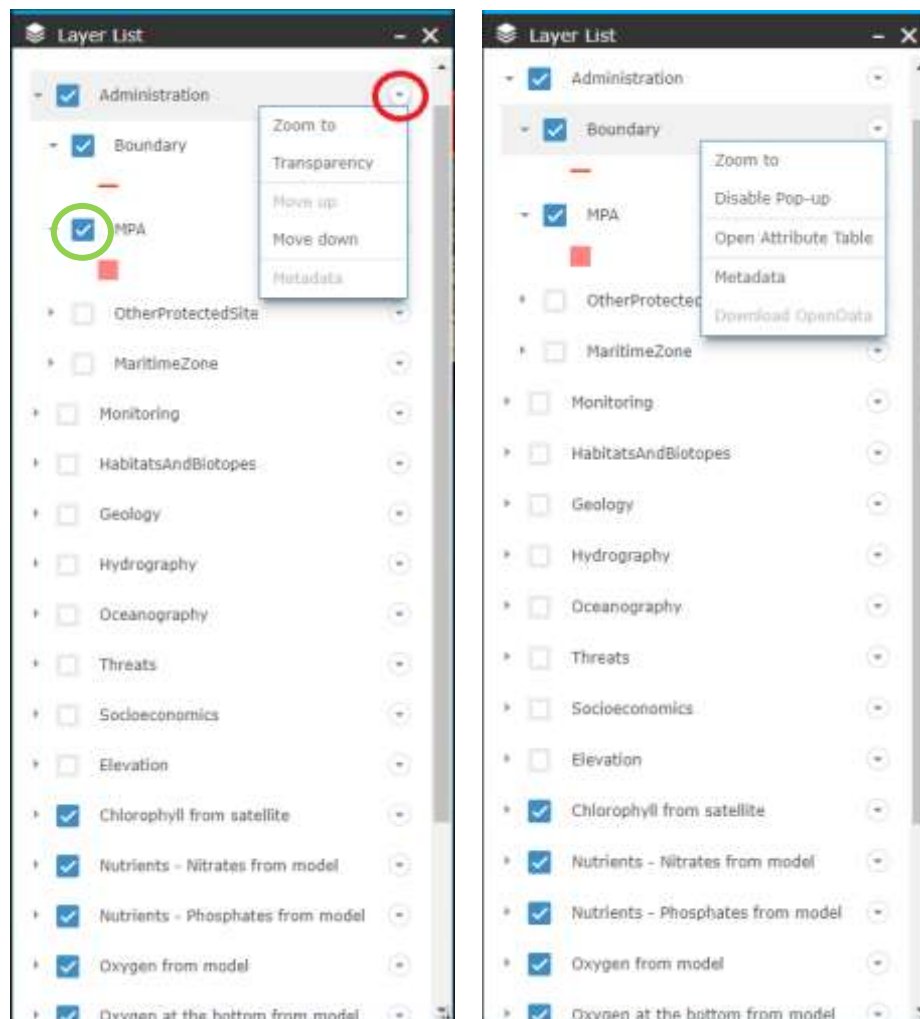


In the identify window, the user can zoom to the selected feature or show the related records. This function shows all the tables related to the selected features.

### 3. Place holder functions


#### 3.1. Layer list

The Table Of Contents (TOC) shows all the available layers. The user can choose which group and layers activate and visualize on the map by clicking the symbol in the green circle.




The layers are grouped by theme (e.g. Administration), the user can move the group up and down, set a transparency or zoom to the related data by clicking on the symbol in the red circle (left figure). For each layer, the user can zoom to the scale of the data layer, disable pop-up, open the attribute table or open the metadata of the layer (right figure). A metadata scheme will appear describing the data, see the following image.

## AMARE\_MT\_Boundary

<input checked="" type="checkbox"/> General Information
File Identifier: CNR:1267:02052019:135751 Metadata Date Stamp: 2019-05-02 Organization: National Research Council (CNR) Organization Role: custodian
<input checked="" type="checkbox"/> Identification Information
Title: AMARE_MT_Boundary Dataset Publication Date: 2019-05-02 Abstract: External boundaries of the North-East Marine Protected Area Hierarchy Level: Dataset Data Type: Vector
<input checked="" type="checkbox"/> Data Theme
Theme Topics: Administrative and Political Boundaries
<input checked="" type="checkbox"/> Reference System Information
Reference System URN: 4326
<input checked="" type="checkbox"/> Spatial Domain
West Bounding Longitude: 14.1567 South Bounding Latitude: 35.7848 East Bounding Longitude: 14.6379 North Bounding Latitude: 36.1056

<input checked="" type="checkbox"/> Data Quality Information
Scope (quality information applies to): Feature Data History: Generated from the MPA area by CNR-ISMAR through ArcGIS software
<input checked="" type="checkbox"/> Contact Information
Organization: University of Malta Contact Position: Professor Email: aldo.drago@um.edu.mt
<input checked="" type="checkbox"/> Distribution Information
Distribution Link: <a href="http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Administration_-_MT_-_AMARE_v3_90/MapServer/WMSServer">http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Administration - MT - AMARE v3 90/MapServer/WMSServer</a> Distribution Link Function: Offline Access
<input checked="" type="checkbox"/> Metadata Reference Information

### 3.2. Legend

The function  shows the symbology of all active layers.

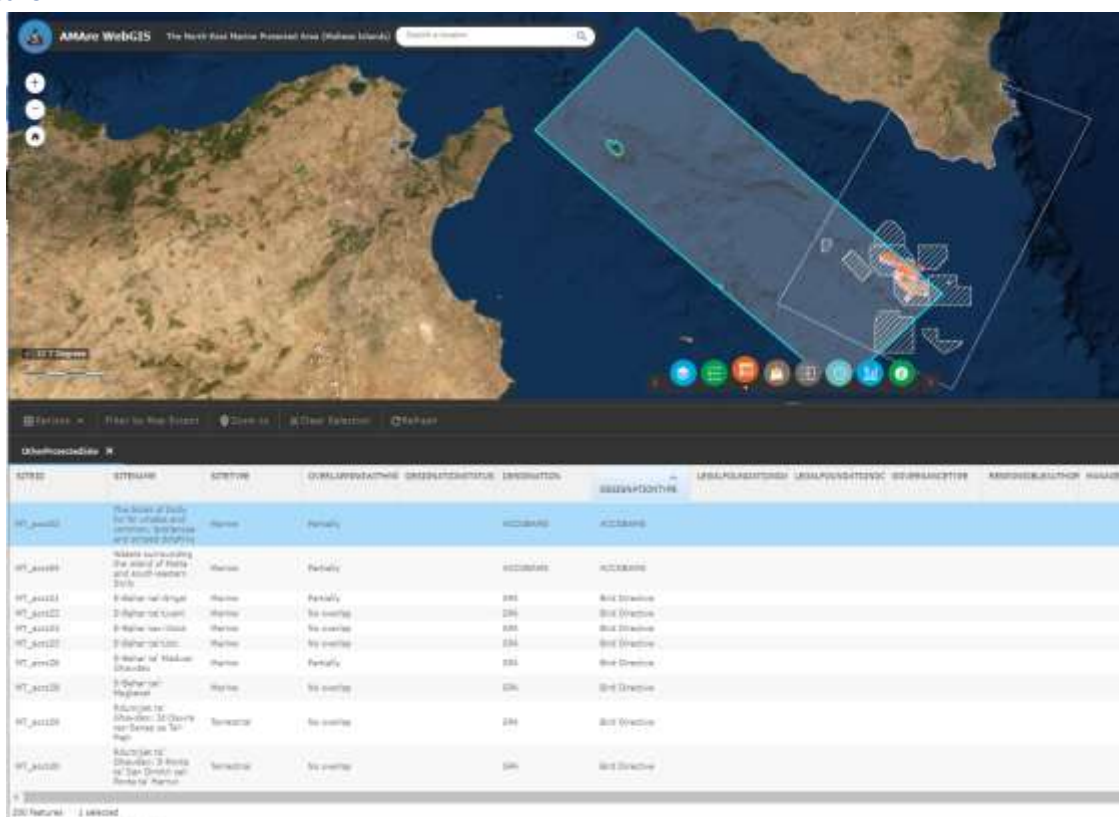


In the table, the user can order the feature by a field by clicking in the red square:



SITEID	SITENAME	SITETYPE	OVERLAPPINGWITHMF	DESIGNATIONSTATUS	DESIGNATION	DESIGNATIONTYPE
MT_aorz03	The Strait of Sicily for fin whales and common, bottlenose and striped dolphins	Marine	Partially		ACCOBAMS	ACCOBAMS
MT_aorz04	Waters surrounding the island of Malta and south-eastern Sicily	Marine	Partially		ACCOBAMS	ACCOBAMS
MT_aorz21	Il-Bahar tal-Grigal	Marine	Partially		SPA	Bird Directive
MT_aorz22	Il-Bahar tal-Lvant	Marine	No overlap		SPA	Bird Directive
MT_aorz23	Il-Bahar tax-Xlokk	Marine	No overlap		SPA	Bird Directive
MT_aorz25	Il-Bahar tal-Lbic	Marine	No overlap		SPA	Bird Directive
MT_aorz26	Il-Bahar ta' Madwar Ghawdex	Marine	Partially		SPA	Bird Directive
MT_aorz28	Il-Bahar tal-Majjistral	Marine	No overlap		SPA	Bird Directive
MT_aorz29	Rdumijiet ta' Ghawdex: Id-Dawra tas-Sanap sa Tal-Hajt	Terrestrial	No overlap		SPA	Bird Directive
MT_aorz30	Rdumijiet ta' Ghawdex: Il-Ponta ta' San Dimitri sal-Ponta ta' Harrux	Terrestrial	No overlap		SPA	Bird Directive

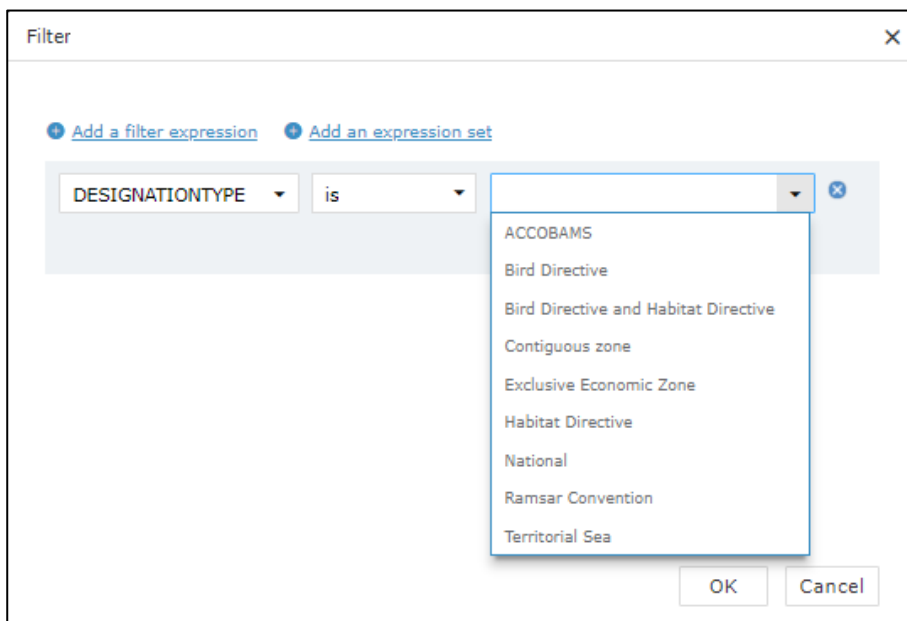
He can select a feature by double click on the raw of interest and the map will move to that feature:



In the “Options”, the user can choose to show all records or only the selected records (as in the following image), he can choose the column to show/hide.



He can filter the data by “Filter Expression”:




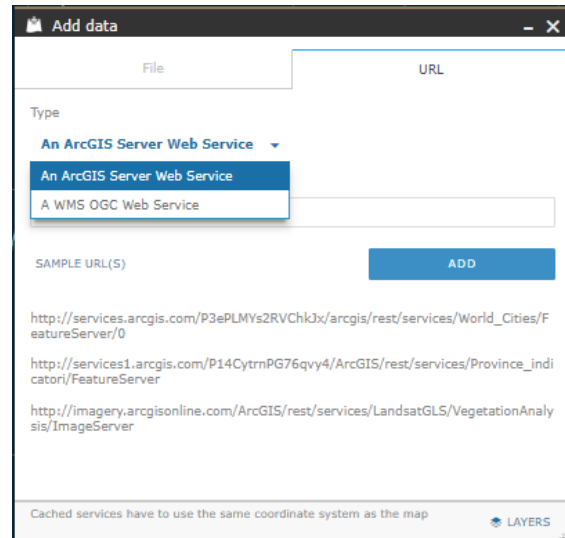
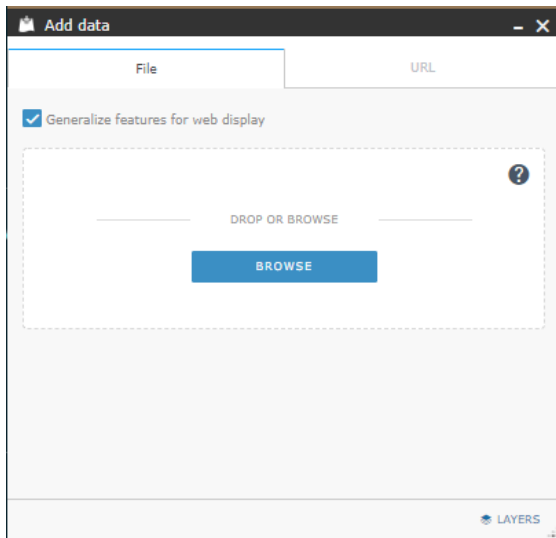
First, the user choose the “field” (column) to query, than the “operator” and at least the “value” of interest. In the previous example, the user want to select all the protected sites with a specific designation (e.g. Habitat Directive).

Another way to select feature is by “Map Extent”, the user place the map on the area of interest and choose the function in the red square (next image):




### 3.4. Add data

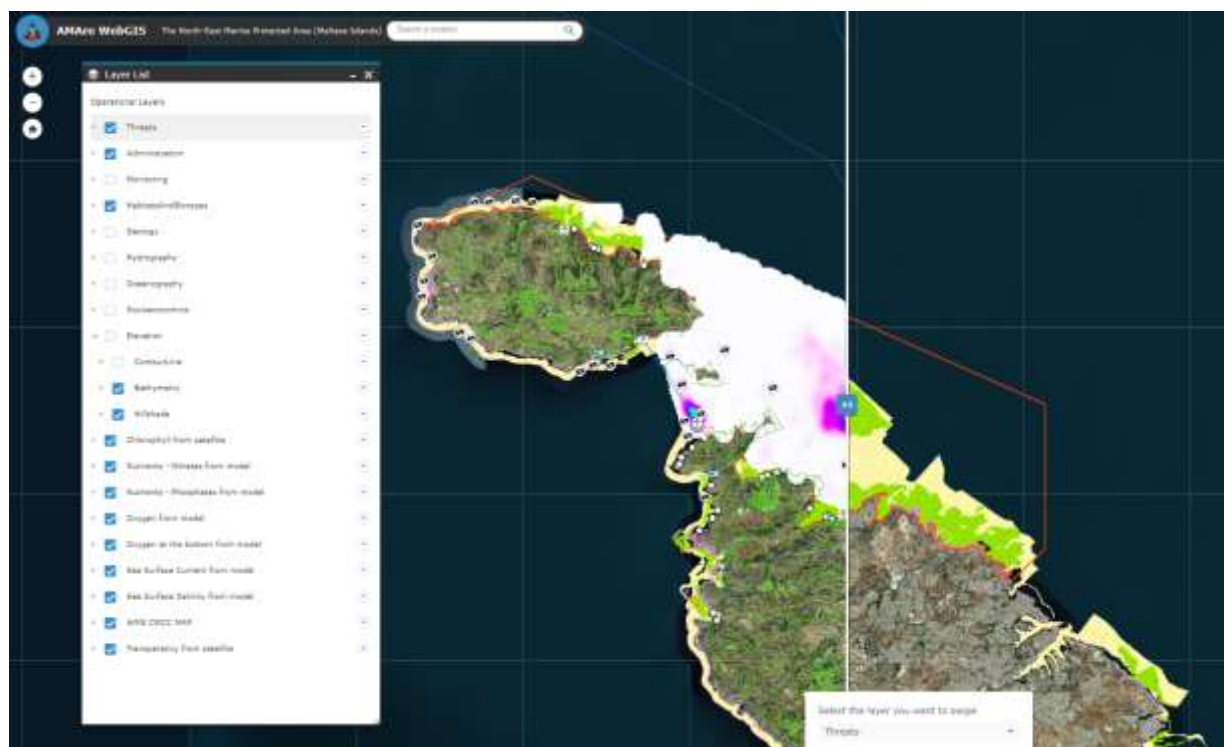
With this function , the user can add data to the map with two ways: i) add a file or ii) add a service.



In the first case (left image), the shapefile had to be prepared as a .zip file and it can contain a maximum of 1000 features. In the second case (right image), the user copies the URL of the Web Map Service choosing the type of service and click “Add”.

### 3.5. Switch

The function  allows to switch a group of layers. The user have to choose the group to drag and then he can move the arrow on the left/right to see the underlying layer.

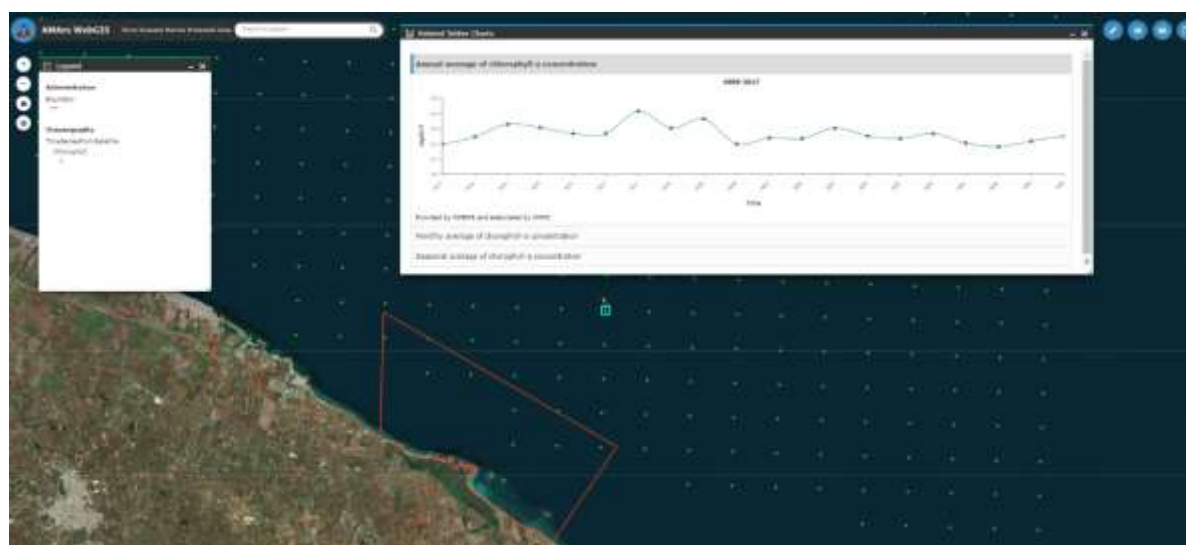


### 3.6. Related table chart

With this function, the user can choose a point and visualize the time series of the variable as graph. First, activate the layer of the variable of interest (e.g. chlorophyll-a), select the function

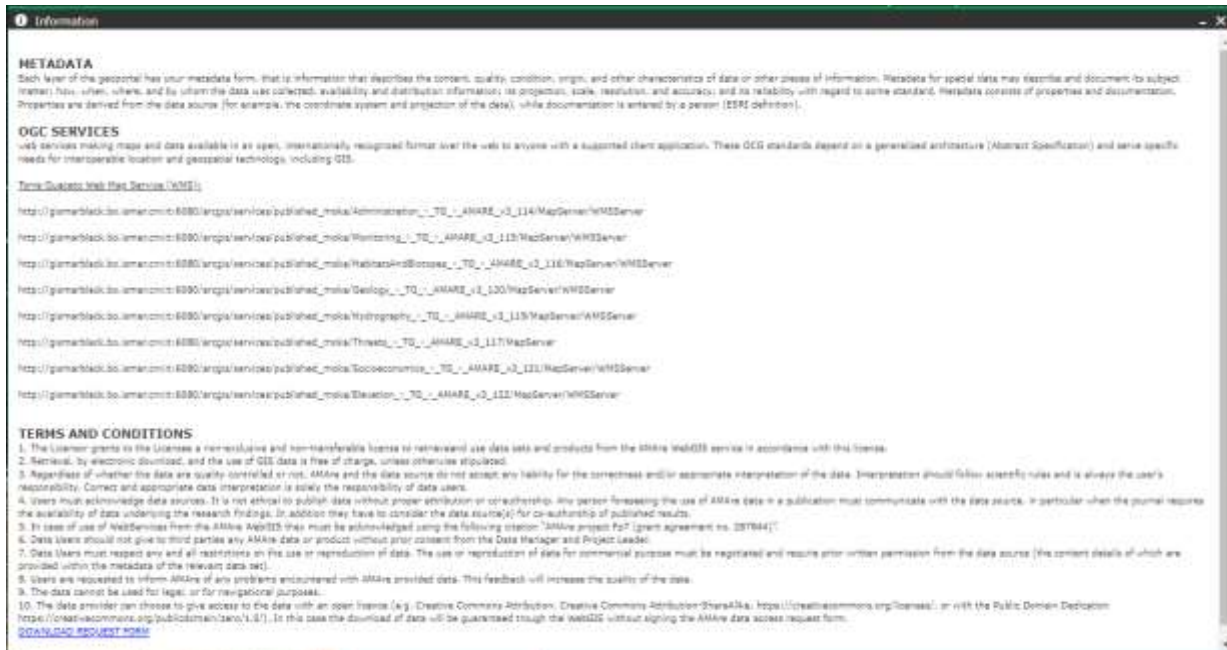


and click a point.



### 3.7. Information

The function  gives information about metadata, OGS services and data policy.



In the “Information” window, there is also a link to download the Data Form containing all the instructions to ask for data.

## 4. Toolbar functions

### 4.1. Measure

The function  allows the user to take measure on the map: area, distance or position.






## 4.2. Draw

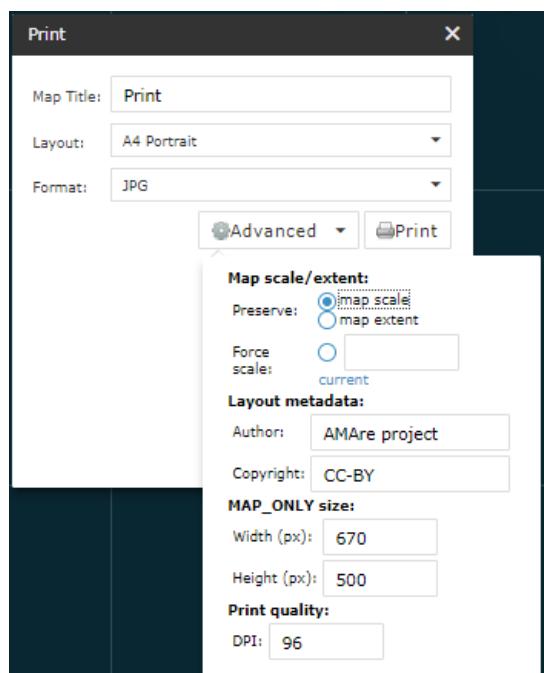
The function  allows the user to draw on the map: point, line, polygon, text, symbols, etc.



Activate the parameter “Show Measurements”, the measure will appear on the map. Also colour, style, transparency and width can be customize.

## 4.3. Print

With this function , the user can print a map. Map scale, size and some metadata (e.g. title and author) can be customize. The print can be an image (e.g. JPG, PNG, GIF) or a pdf file.



#### 4.4. Linked application

This function  allows the user to move to another MPA.

