GEOGRAPHICAL INFORMATION SYSTEM OF THE EASTERN AEGEAN RIVER BASIN DIRECTORATE – PART CONSULTATIONS FRMP 2022-2027 /GIS OF EARBD/

User guide

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Contents

Glo	ssary o	f terms and definitions used	. 3
1.	GIS of	EARBD -part Consultations FRMP 2022-2027	. 4
	1.	1 Common interface	. 4
	1.1.1	Dynamic GIS map with navigation capabilities	. 5
	1.1.2 FRMP	The dynamic map of the GIS application of EARBD - part Consultations 2022-2027, contains the following elements:	
	1.1.3	Introduction of an opinion	. 7
	1.1.4	Search	12
	1.1.5	Attribute table	14
	1.1.6	Identification of objects from a GIS map	15
	1.	2 Details	15
	1.	3 Layers	18
	1.	4 Legend	19
	1.	5 Export	19

Glossary of terms and definitions used

Abbreviation	Description
EARBD	East Aegean River Basin Directorate
WARBD	West Aegean River Basin Directorate
GIS	Geographic information systems
PFRA	Preliminary flood risk assessment
ASPFR	Areas with significant potential flood
IJAIJG	Project areas with significant potential flood risk
FRMP	Flood risk management plan
RBMP	River basin management plan

1. GIS of EARBD -part Consultations FRMP 2022-2027

1.1 Common interface

The GIS interface of EARBD -part Consultations RFMP 2022-2027 contains the following areas:

- ξ Map;
- ξ Panel for displaying results, layer management, legend and export;
- ξ Dynamic map navigation controls;
- ξ Attribute table.

Common GIS interface of EARBD - part Consultations FRMP 2022-2027

The main tabs located in the panel for displaying results, layer management, legend and export are :

- ξ Details;
- ξ Layers;
- ξ Legend;
- ξ Export;
- ξ Register of received opinions.

Features, in different tabs :

	TAB	DESCRIPTION
Details		Provides the opportunity to view detailed information about a selected object.

Layers	Provides the opportunity to configure the visibility of the data in the layers.
Legend	Provides the opportunity to visualize the symbolism used to represent the layers.
Export	Provides the opportunity to configure the parameters for printing a map, including: • 0 D S W L W O H;

• \$XWKRU DQG FRS\ULJKW;

• 3ULQW UHVROXWLRQ.

GIS of EARBD -User guide

Register of received opinions

Provides the opportunity for the user to download locally on his computer a .xlsx file with a register of the received opinions PFRA and ASPFR, a register of the received opinions FTM and FRM, a register of the received opinions FRMP.

1.1.1 Dynamic GIS map with navigation capabilities

- 1.1.2 The dynamic map of the GIS application of EARBD part Consultations FRMP 2022-2027, contains the following elements:
 - ξ Map;
 - ξ Map navigation controls;
 - ξ Search box;
 - ξ Positioning by coordinates;
 - ξ Setting the scale;
 - ξ General view.

Functional capabilities for map navigation :

COMMAND	DESCRIPTION
Previous view	Provides the opportunity to position the map to the previous view.
Next view	Provides the opportunity to position the map to the next view. The functionality is active if the "Previous View" functionality has been implemented before.
Home	Provides the opportunity to position the map at the default scale and range.
Search	Provides the opportunity to identify objects by a range selected on the dynamic map.
Enter PFRA opinion*	Provides the opportunity to enter PFRA opinion.
Enter the FTM_FRM opinion*	Provides the opportunity to enter the FTM_FRM opinion.
Enter the FRMP opinion*	Provides the opportunity to enter the FRMP opinion.
Clear	Provides the opportunity to clear the range/object marked on the dynamic map.
Base maps	Provides the opportunity to select a base map from the base map gallery.
Bookmarks	Provides the opportunity to approach a predefined scale and range.

Scale	Shows the current scale of the map.
Set the scale	Provides the user the opportunity to enter the desired scale in which to display the map.
Coordinate positioning	Provides the opportunity to position to a point, line or polygon by coordinates entered manually by the user in text or json format, in different coordinate systems. The tool also allows "retrieving coordinates from the center of the map" as well as "marking the map" of the corresponding drawn geometry.
Show "General view"	An additional window is displayed showing a wider range of the map when the user is on a larger scale. It is used for indicative purposes.
Hide "General view"	Closes the window.

^{*} The process for introducing a new opinion is described in point 2.1.2.

1.1.3 Introduction of an opinion

The interface of the "Enter Opinion" tool provides an opportunity to enter a new opinion on the PFRA in the system.



Interface of the tool "Enter opinion" - attach a document - enter an author

If you want to attach more than one document, they need to be archived in .zip format.

Similarly, the introduction of opinions and the attachment of document/s on FTM_FRM and FRMP.

Functionalities for entering an opinion:

COMMAND	DESCRIPTION
Select feature	Provides the opportunity to select objects from the map.
Select by rectangle	Provides the opportunity to select objects from the map by drawing a rectangle.
Select by lasso	Provides the opportunity to select objects from a map by "drawing" free selections around objects as if they were outlined on paper with a pen or pencil.

Draw a point	Provides the opportunity to indicate the location of the opinion by indicating its location on the map. Using this tool, the fields "Location", "Municipality" and "District" of the form for entering a new opinion are filled in automatically.	
Undo	Provides the opportunity to undo changes.	
Redo	Provides the opportunity to redo a change after using the "Undo" button.	
Sketch settings	Provides access to controls that allow or disable attachment to objects from other layers.	
Snapping enabled	Binding to objects from other layers is enabled.	
Snapping disabled	Binding to objects from other layers is disabled.	

At the touch of a button

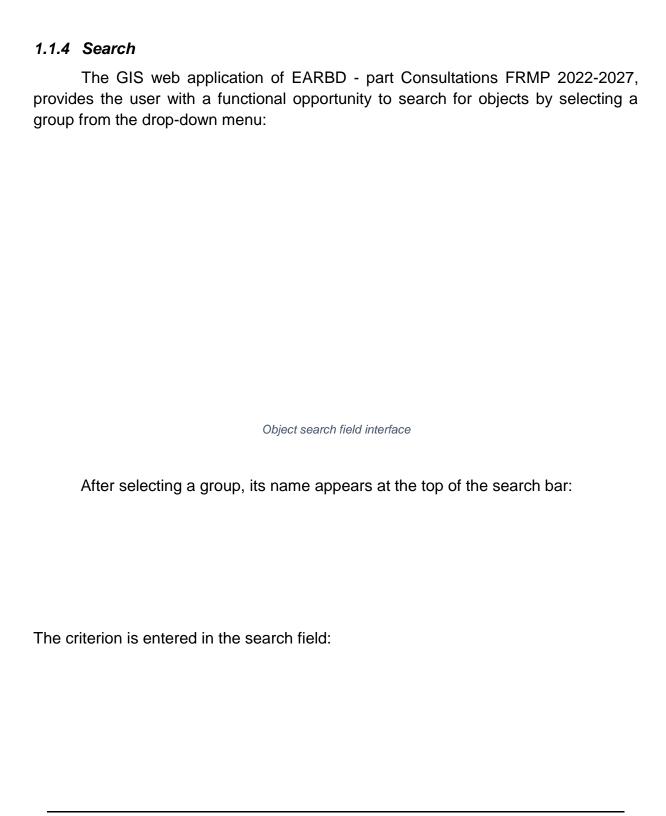
,the opinion is entered*.

New Opinion Interface

^{*} Note: The opinion should be reviewed and approved by EARBD experts and then displayed in the web application.

Other functionalities in the general interface of the web application:

COMMAND	DESCRIPTION
Help	Provides access to GIS of EARBD - User Guide.
WARBD	Provides an opportunity to connect to the GIS of EARBD - part WARBD (ASPFR).
FRMP Consultations	Provides an opportunity to connect to the GIS of EARBD —part Consultations FRMP 2022-2027.
FRMP	Provides an opportunity to connect to the GIS of EARBD -part FRMP.
RBMP	Provides an opportunity to connect to the GIS of EARBD -part RBMP.
IP	Provides an opportunity to connect to the GIS of EARBD —part Investment proposals.
BG-GR GWB	Provides an opportunity to connect to the GIS of EARBD —part Results of the BG-GR GWB project.
Change language	Provides the opportunity to view the web application in English.
Change language	Provides the opportunity to view the web application in Greek.



Search functionality:

COMMAND	DESCRIPTION
PFRA Opinions	Provides the opportunity to enter a PFRA opinion name as a search criterion.
FRMP Opinions	Provides the opportunity to enter a FRMP opinion name as a search criterion.
FTM_FRM Opinions	Provides the opportunity to enter a FTM_FRM opinion name as a search criterion.
Settlements	Provides the opportunity to enter the name of a settlement, settlement land or municipality as a search criterion.
ASPFR Project 2022- 2027	Provides the opportunity to enter a name of APSFR Project 2022-2027 as a search criterion.
Show results in Details ·	Provides the opportunity to display search results in the "Details" tab.
Get closer	Provides the opportunity to mark the result of the entered search and zoom in on the map.
Load opinions	Provides the opportunity to load the opinions falling within the selected range in the "Details" tab.

1.1.5 Attribute table

The GIS of EARBD - part Consultations FRMP 2022-2027 supports functions for review of attributive information about the objects. At the bottom of the interactive map, a button provides access to the attribute table. The information from the different layers is organized in separate tabs - PFRA 2 S L Q L RETIMER, RATE 2 S L Q L RETIMER, 3‡R L Q WASPER † L Q H VASPER Polygons · , ‡ 3 D V W) O R R G V (/ L Q H NO)ygons 3 D V W I O R R G V (

Attribute Table Interface

Attribute table management tools:

COMMAND	DESCRIPTION
Load from map	Provides the possibility that only the records from the current range of the map remain visible in the attribute table.
Refresh the table	Provides the opportunity to refresh the table and display all records in it.
Zoom in on the map	Provides the opportunity to mark the geometry of an object and approach it on the map.
Show	Provides the opportunity to show the attribute table.
Hide	Provides the opportunity to hide the attribute table.

GIS of EARBD - part Consultations FRMP 2022-2027, provides a functional opportunity to view detailed information in the tab "Details" of a specific object from the table by left-clicking on the desired object.

1.1.6 Identification of objects from a GIS map

The web GIS application provides the user with functional options for identifying objects on the map and viewing detailed data about them in the "Details" menu. The user identifies an object from the dynamic GIS map by left-clicking on the object or identification by enclosure.

Map identification functionality:

COMMAND	DESCRIPTION
Selection by indication	Provides the opportunity to identify by left-clicking on an object. The identification result is visible in the "Details" tab.
Identification by enclosure	Provides the opportunity to identify by "drawing" a rectangle. The "Details" tab displays detailed information about all objects that fall within the scope of the rectangle.

1.2 Details

The "Details" tab gives the user the opportunity to view detailed information about the objects in the system. Loading information is done in several ways:

• IRU GLUHFW LGHQWLILFDWLRQ RI REMHFWV RQ WKH navigation controls";

GIS	of EARBD	-User	guide

 $\xi \ \ \ \ \, \text{by pressing the button} \\ \text{search results in the "Search bar" by group;}$

when receiving the

 $\boldsymbol{\xi}$ $\,$ by left-clicking on an entry from the attribute table.

Other functional opportunities:

COMMAND	DESCRIPTION
Zoom to	Provides the opportunity to mark an object and approach it
	on the dynamic map.

The system has the functionality to view the documents related to the selected objects:

	GIS of EARBD	User guide	
The document is displa and print.	ayed in a new browser ta	b, providing the opportunity to download	d
	Linked document interface ope	anad in a browsar tab	
	инлеи иоситет тепасе орг	ened in a biowser lab	



Linked document interface opened in a browser tab

1.3 Layers

The GIS web application of EARBD - part Consultations FRMP 2022-2027, provides an opportunity for:

- ξ view the layers in the form of a list;
- ξ possibility to enable and/or deactivate the visibility of a certain layer.

Interface of the tab "Layers" - part Consultations FRMP 2022-2027

Work layer management functionality:

COMMAND	DESCRIPTION
Expand	Provides the opportunity to expand the visualized group of objects.

Collapse	Provides the opportunity to collapse the visualized group of objects.
Turn on the layer	Provides the opportunity to turn layer on.
Turn off the layer	Provides the opportunity to turn layer off.

1.4 Legend

The Legend tab provides an opportunity to view the symbolism used to visualize the objects in the GIS system.

Interface of the "Legend" tab - part of the Consultations FRMP 2022-2027

1.5 Export

The functionality provided by the "Export" tab is divided into two subsections - "Layout" and "Map only". In the "Layout" subsection is the functionality for exporting a map, including the name of the map, legend, date of export, scale, author and copyright. In the subsection "Map only" is the functionality for exporting the current view of the map.



Map printing and export functionality:

COMMAND	DESCRIPTION
Map title	Provides the opportunity to enter a map title.
Size	Provides the opportunity to select the size of the print sheet.
Format	Provides the opportunity to select the format in which to store the map. The selected format is compatible with external programs for further processing.

Additional functions for printing and exporting the map are supported in the GIS of EARBD - part Consultations FRMP 2022-2027.

Interface - settings for map printing

<u>Functionalities for configuring advanced settings when printing and exporting a map:</u>

COMMAND	DESCRIPTION
More options	Provides the opportunity to view additional options for printing the map.
Scale	Provides the opportunity to scale the print map
Author	Provides the opportunity to enter an author.
Copyright	Provides the opportunity to introduce copyright.
Print quality	Provides the opportunity to enter a resolution.
Print	Provides the opportunity to print a configured map.

By clicking the "Export" button, the system creates a file with the entered name and format:

The file can be downloaded in the desired directory by left-clicking on a link with the map name:

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Result interface when printing a map