

UNEP/MED WG. 467/Inf.11



UNITED NATIONS ENVIRONMENT PROGRAMME MEDITERRANEAN ACTION PLAN

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Athens, Greece, 9 September 2019

Agenda Item 6: IMAP Pilot Info System and Related Quality Assurance Issues; Data Standards and Data Dictionaries; MAP Data Management Policy

IMAP Pilot Info System: User Manual

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Summary

The IMAP Pilot Info System (PIS) aims to collect, manage and share data from monitoring programs under the Integrated Monitoring and Assessment Programme of the Mediterranean Sea and Coast and Related Assessment Criteria (IMAP) in the framework of Barcelona Convention.

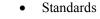
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Site Map

Home page

From the home page of the site it is possible to access to public sections:

- Log in to access private sections
- Info and contacts
- Geographical data



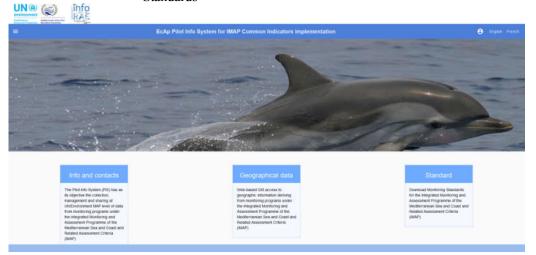


Figure 1: Site home page

To log in, click on the button at the top right (Account ⁽⁾), enter username and password and press "LOGIN".

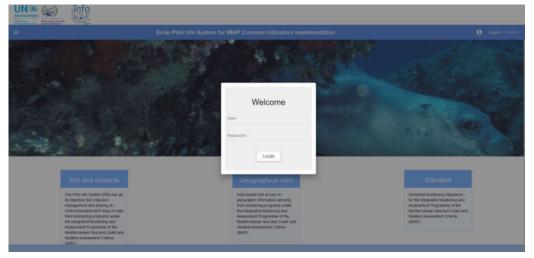


Figure 2: Login

After login, the home page will be updated with new sections depending on the logged user profile:

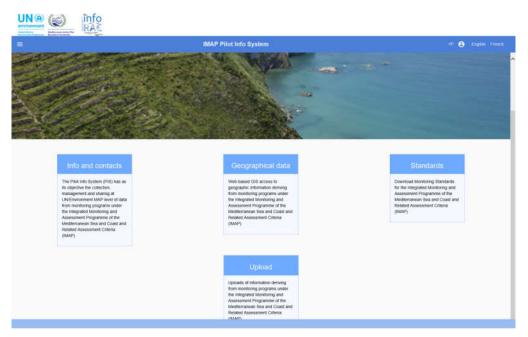


Figure 3: Homepage after Login

Info and contacts

The "Info and contacts" section contains useful references to contact the site managers.

	nfo RAS	
.	IMAP Pilot Info System	Gr 🖨 English French
INFO AND CONTACTS		
INFO/RAC information and Co	mmunication Regional Activity Center	
Via Vitaliano Brancali, 48 - 0014		
The IMAP Plot Into System has	been developed with the financial support of the EU Project EcAp MED II	
www.into-tait.ong		
Pictures by F. lozzoli, P. Orlandi	e A. Riccianti Tenore	

Figure 4: Info and contacts page

Geographical data

This section contains the functionalities to access published data, by an anonymous user, through a WEBGIS interface.

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Figure 5: WEBGIS interface

GIS tools available are:

- Zoom / Pan, allows to change the extent of the map;
- Location search, allows to zoom the map on a location;
- Active mode 🔯 allow you to:
 - Draw the polygon and calculate the area
 - \circ Draw the line and calculate the length
 - Query stations
 - Keep stations previously queried
- Selection of a service in the list.

The "Filters" tool [≇] allows to select:

- A background map;
- The monitored data layer (module type);
- The monitoring period (time interval);
- The last data acquisition;
- Transparency;
- Stations export;
- The possibility of creating a bookmark.

ः Filters	
Background map	
O OpenStreetMap	
Satellite Base Map	
Monitored data	
Module type	
B1: Coralligenous Habitat	*
Monitoring period	
Customized:	
Last acquisition:	
Show most recent period	
transparence	
Export	-
KML ZIP	
Bookmark	
0	

Figure 6: Filters tool

Monitored stations are displayed on the map as points.



Figure 7: Station point

Selecting a station with the mouse, the consultation page of the relative measures is shown:

← Dati: Coralligenous Habitat (B1)	EcAp Pilot Info System	for IMAP Com	mon Indicators i	mplementation				e input fund
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Figure 8: Measures detail page

Standards

The "Standards" section allows to a simple user to:

- View the list of information standards;
- Download an information standard in Excel format;

		EcAp Pilot Ir	nto System for IMAP Common Indicators implementation			e m	phili Trieren
nformation Standards							
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01 - Badiversity	81	Contligenous Halstat	Controls indicates 1. Habitat distributional speep to also consider habitat extent as a relevant attribute. Constron indicator 2. Constitue of the habitat's typical species and convenientes.	<u></u> .,	YEB	15-05-2019	<u>+</u>
01 - Bedveraity	B2	Need Fitrodulth Haskal	Conversion indicates 1. Habitat distributional range to also computer habitat animit as a relevant adoption. Commun indicator 2. Constitute of the habitat's typical apocies and communities.	3	YES	15-05-2019	*
01 - Biodiveraity	BJ	Pesidona Oceanica Meadows Habitat	Common indicator 1. Hobital distributional range to also consider habital extent as a netwart attribute. Common indicator 2. Considere of the habita's typical opecies and communities.	1	VEB	15-05-2019	*
08 - Coastat Ecosystems and anticipes	C1	Country	Common indicator 16: Langth of costilline subject to physical disturbance due to the influence of num-made abuctance to also keel the accessment of EO1 on haldest extent.		YES	15-05-2019	+
CO5 - Eutrophication	E1	Nutrients & physical and chemical parameters	Common indicator 13. Concentration of key nutrients in water column; Common indicator 14. Chlorophyll-a concentration in water column;	1	YES	15-05-2019	<u>+</u>
07 - Hydrography	H1	Hydrography	Common indicator 15. Location and extent of the habitats impacted directly by hydrographic alterations to also feed the assessment of EO1 on habitat extent;	1	YES	15-05-2019	<u>+</u>
02 - Non Indigenous Species	н	Non Indigenous Species	Common indicator 6. Trends in abundance, temporal occurrence, and spatial distribution of non-indigenous species, particularly invasive, non-indigenous species, notably in risk areas;	1	YES	15-05-2019	<u>+</u>
EO10 - Marine Litter	M1	Beach litter	Common indicator 22. Trends in the amount of litter washed ashore and/or deposited on coastlines (including analysis of its composition, spatial distribution and, where possible, source);	1	YES	15-05-2019	<u>+</u>
O10 - Marine Litter	M2	Seafloor litter	Common indicator 23. Trends in the amount of litter in the water column including microplastics and on the seafloor,	1	YES	15-05-2019	<u>+</u>
EO10 - Marine Litter	МЗ	Floating microplastics	Common indicator 23. Trends in the amount of litter in the water column including microplastics and on the seafloor,	1	YES	15-05-2019	<u>+</u>
09 - Contaminants	P1	Contaminants in seawater	Common indicator 17. Concentration of key harmful contaminants measured in the relevant matrix (EO9, related to biota, sediment, seawater);	1	YES	15-05-2019	<u>+</u>
09 - Contaminants	Q1	Bathing Water Quality	Common indicator 21. Percentage of intestinal enterococci concentration measurements within established standards;	1	YES	15-05-2019	+

Figure 9: Standards section (simple user)

For example, the user can download "EO1 - Biodiversity B1 Coralligenous Habitat" standard by clicking on the arrow $\stackrel{\bullet}{\checkmark}$ at the end of the row.

Download Standard "B1" - Ver. 1	
Information Standard IMAP document	
There are no IMAP documents for this standard Reference documents There are no sheets for this standard	
	CLOSE

Figure 10: Download Standard

Clicking on "Information Standard" the user can Open, Save or Save as the Excel document.

Internet Explorer X	
What do you want to do with 315c7eab-51c0-4a0b-b17e-be6b5468b8dd.xlsx? Size 920 K8 Type: Microsoft Excel 12 From: infomap.planetek.it	
\rightarrow Qpen The file won't be saved automatically.	
\rightarrow Save	
\rightarrow Save <u>a</u> s	
Cancel	

Figure 11: Save Standard

Save the document and then open it.

Every standard has sheets (named <DD sheetname>) explaining how to complete sheets (named <sheetname>) that have to contain the measure data.

M. S.e.			E p testaites	Normale 2	Arran 1	Normal	t fa	- 3 💽	Σ Admin	1 gr /	16
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Figure 12: <DD sheetname>

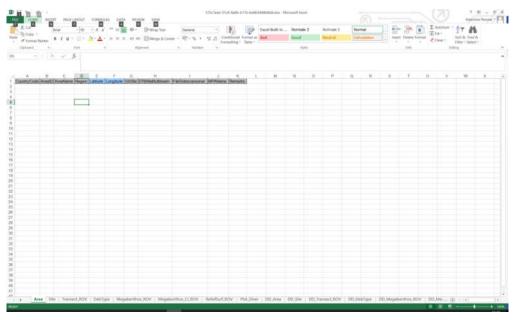


Figure 13: <sheetname>

For example, sheet "DD_Area" is a data dictionary explaining how to insert data into "Area" sheet in the monitoring file to be uploaded.

Upload

The upload section allows to upload, verify, validate and publish the monitoring files. The uploaded monitoring files follow a predetermined workflow. Each loaded file will be subject to:

- Conformity check, i.e. verification of compliance with the rules to which the data must be subjected (excel file)
- Validation, i.e. check of administrator or supervisor

• Publication, i.e. the data are loaded into database, published and accessible via WEBGIS interface.

Workflow states are:

UN® (a) info

- **Draft**: when file is just loaded;
- **Compliant**: when file passes the conformity check;
- Not compliant: when the conformity check gives a negative result;
- Validated: when the user makes file valid;
- Not Validated: when the user considers the data invalid;
- **Published**: when the user decides to make data public;
- Canceled: when the user deletes file from the workflow;

Upload monitoring file

To upload a monitoring file press the ⁶ button on the bottom right.

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Figure 14: Uploaded files list

In the new upload window (1/3) enter the following information:

• Select sampling period: period in which the monitoring was carried out;

New up	bload (1/3)		
Select sampling period			
Select module			
		CLOSE	CONTINU

Figure 15: Select sampling period (1)

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28	37	22	29	30	21	4	22	24	25	28	27	-	28			
2	1	2	1			÷.			1		_					

Figure 16: Select sampling period (2)

• Standard module: the name of the standard module filled in with data;

	New upload (1/3)	
s	Select sampling period	
	2019-05-15 - 2019-06-13	
	Select module	
	B1: Coralligenous Habitat	^
	B2: Maerl/Rhodolith Habitat	JE
	B3: Posidonia oceanica Meadows Habitat	in.
	C1: Coastline	
	E1: Nutrients & physical and chemical parameters	~

Figure 17: Select the standard module

Press the "CLOSE" button to cancel or "CONTINUE" to continue.

In the next upload window (2/3), the Excel file can be loaded in one of the following ways:

	Ν	ew uploa	ad (2/3)		
Upload File	xls/xlsx				
Drag and drop					
Browse	Browse				
				CLOSE	CONTINUE

Figure 18: File upload (2/3)

• Drag & drop: upload the file by dragging it into the appropriate section

• Choose file: select the file from the explore window Once the file has been chosen, press "Upload" to send the data to the server.

Ne	ew upload (2/3	•)		
Upload File xls/xlsx				
Drag and drop				
Browse B1 als				
ftame	Dimension			
BLass	0.14 MB			Rennet
			CLOSE	CONTR

Figure 19: File upload (2/3)

Press the "CLOSE" button to cancel or "CONTINUE" to continue.

In the next upload window (3/3) it is possible to load attachments in one of the following ways:

- Drag & drop: load the file by dragging it into the appropriate section
- Choose file: select the file from the explore window

It is possible to upload one or more attachments. Once the files have been selected, press "UPLOAD" to send the data to the server.

	New uple	oad (3/3)	
insert attachments	(optional)			
Drag and drop				
Browne Browne 77wp444_0	mapat			
Name	Dimension	Progress	Status	Astion
17vg444_8_eng.p	0.71 MB			St Lawrence

Figure 20: File upload (3/3)

Press the "FINISH" button to complete or "CLOSE" to interrupt all file loading activity.

The uploaded file will take in "Draft" status and will appear in the uploaded file list.

Search

In the "Upload" section it is possible to carry out both a textual search and an advanced search within the set of uploaded files.



Figure 21: Search and Advanced search

The Text Search allows to search for a text within all uploaded files (not their content). The advanced search allows to filter on:

- Acquisition time interval
- Loading time interval
- Standard
- File status (Canceled, Compliant, Draft, , ...)

Advanced search					
Select acquisition time	interval				
Select loading time int	erval				
Select module					•
Status					Ŧ
Id		SEARCH	CLOSE		

Figure 22: Advanced search

Cancel monitoring file

If the loaded file is in the "Draft" status, it can be removed from workflow. To do this, press the "CANCEL UPLOAD" option on the details page of the loaded file.

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Figure 23: Cancel monitoring file

Conformity check

To check the conformity of a file (i.e. it respects the rules defined in the information standard) it is necessary to click - from the list of uploads - on the name of the file being in "Draft" status and press the "CONFORMITY CHECK".

Conformity check can give two results:

- 1) Conformity check failed (see next paragraph)
- 2) Conformity check is successful: loaded file changes from "Draft" to "Compliant" status

Conformity check failed

If conformity check fails, the system shows an error message.

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Page 1 + Rows per page 12 + 1-4 if A C I Caution Contornity verification has failed.		
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Figure 24: Conformity check error message

By pressing the "SHOW ERRORS" button, it is possible to download an Excel spreadsheet containing all the errors that have to be resolved to pass the conformity check.

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Figure 25: Spreadsheet of conformity errors

The excel sheet contains indications on the errors to be managed: code and error message as well as line, column and sheet from which the error derives.

Conformity check successful

In this case the status of the loaded file changes to "Compliant".

Validation and publication

Files in "Compliant" status can be validated and subsequently published.

To validate it is necessary to click on the file and press the "VALID" button.

In the same way it is possible to make it "INVALID".

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Figure 26: Validation

The monitoring information contained in a previously validated file can be published using the "PUBLISH" button.

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Figure 27: Publishing

This operation involves loading of the monitoring information into database.