



Deliverable D2.1

**“RELATIONAL DATABASE ON MSFD
MONITORING PROGRAMS IN THE
MEDITERRANEAN”**

Date: April 2017

**Action Plans for Integrated Regional
Monitoring Programmes, Coordinated
Programmes of Measures and Addressing Data
and Knowledge Gaps in Mediterranean Sea**

ActionMed

11.0661/2015/712631/SUB/ENVC.2

Coordinator

Dr Kalliopi Pagou

Project start date and duration

1st November 2015, 15 months

www.actionmed.eu

Acknowledgment

This deliverable report was produced as a result of the ActionMed (Action Plans for Integrated Monitoring Programmes of Measures and Addressing Data and Knowledge Gaps in Mediterranean Sea) project. The project was co-financed by the European Union (EU). Grant No. 11.0661/2015/712631/SUB/ENVC.2

Disclaimer

This deliverable reflects only the authors' view. The European Commission is not responsible for any use that may be made of the information it contains.

This deliverable should be referenced as:

ActionMed Deliverable D2.1: "Relational Database on MSFD monitoring programs in the Mediterranean", April 2017, 25p.

Authors: Alemany F.¹, Martin M.¹, Bellas J.¹, Cozzoli F.², France J.³, Orthodoxou D.⁴, Paramana T.⁵, Varkitzi I.⁶

Affiliation: ¹IEO, ²UoSalento, ³NIB, ⁴ISOTECH, ⁵UoA, ⁶HCMR

Contact person: Alemany F. (francisco.alemany@ba.ieo.es)

Edited by: Giannoudi L.¹, Streftaris N.¹, Pagou K.¹, Alemany F.²

Affiliation: ¹HCMR, ²IEO



TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
DATABASE ON MSFD MONITORING PLANS IN MEDITERRANEAN DEMARCATIIONS	2
Basic data collection.....	2
Preliminary data processing and analysis.....	2
Access relational Database (DB).....	4
ANNEX 1	5
Review of documents submitted by MSs, in relation to MSFD reporting obligations on Article 11, available from EIONET.	5
CROATIA:	6
FRANCE	8
ITALY	11
SLOVENIA	13
CYPRUS	14
SPAIN	15
MALTA.....	23
ANNEX 2	25
Database relations.....	25
ActionMed Monitoring Database in Access format	25

EXECUTIVE SUMMARY

The objective of Task 2.1 of the ActionMed project was to identify the existing gaps of knowledge and needs in the MSFD monitoring programmes proposals, which were submitted by the MSs, in relation to Article 11 implementation, in order to enable their systematic solution at regional level in the Mediterranean.

Particularly in this task, and to achieve the above mentioned goal, the focus was on the analysis of the MSFD national monitoring programmes. Data were collected from the documents submitted by the countries through the EIONET database and were homogenised for the purposes of the project. A common language and a set of demarcations used for the final database presented here in several excels (countries related) and a final Access format.

DATABASE ON MSFD MONITORING PLANS IN MEDITERRANEAN DEMARCATIIONS

Basic data collection

Due to the heterogeneity both in the format and in the contents of the national MSFD monitoring plans uploaded at EIONET, which makes difficult to carry out a comparative analysis, an independent set of data was elaborated with a homogeneous structure. This data set was created by gathering the relevant information from each country from the different files available from EIONET, which were then transferred to Excel sheets using standardized templates, in order to build up a database useful for carrying out a detailed evaluation of their coherence. Such templates matched, as much as possible, the structure of the standard .html files from EIONET, to facilitate the process. In the case of Spanish and French files, the data were directly transferred to more complex templates, described in the next paragraphs. To overcome the “language problem” the selected data, whenever they had been uploaded in other languages, were translated to English. The only elements that were left in the original languages, because of their extent, were the “Methodologies”. The filled templates in excel format are compiled under Annex 2 (<https://cloudfs.hcmr.gr/index.php/s/FalqF3Xb6eJj3pp>).

Preliminary data processing and analysis

In order to overcome some of the aforementioned problems and to adapt, as much as possible the available data, to the structure and formats required by a relational database, the templates containing the collected basic information on national monitoring programs, were revised and modified. Firstly, the nomenclature of the columns containing terms from closed lists was homogenized. Then, it was considered that the pair indicator/subprogram would be the most adequate basic unit for carrying out detailed comparative analysis. Actually, the information in the national MSFD monitoring plans is organized at a higher hierarchical level. However, specific methodologies can be associated to the several indicators that can be covered by a single subprogram, and hence for building up a database oriented to facilitate the methodological standardization of marine monitoring activities in a given region, it is more useful to design it at a lower hierarchical level, as the one that was proposed. Thus, new rows were added to organize the available information according to that, linking all the data to each indicator within a subprogram, whenever necessary. Therefore, this structure results now in repeated data among the rows corresponding to the same subprograms, but in the future will allow describing more precisely, and hence facilitating the standardization of the national monitoring programs, once they are revised in future MSFD cycles.

Finally, to deepen in the adaptation of these standardized files to the requirements of a relational database, new fields were added to allow splitting the different data clumped together in the same cells in the rough original templates into separate columns, facilitating the data analysis. Specifically, this action was carried out in relation to those types of data that had a limited number of possible values, as purpose

of the monitoring subprogram, the spatial scope of such monitoring and the broad and specific categories of elements monitored. Other types of information related to the different subprograms, as that referred to the temporal scope of the monitoring or the parameter measured, were in theory susceptible to being split in predefined categories, but it was not possible to do it because of the complexity of some subprograms, which included several monitoring schemes with different temporal scales, and also because some countries did not use as reference the closed lists included in the templates for defining the monitored parameters.

The first analysis of the information clustered through these standard templates, revealed both gaps in data availability and lack of standardization in the format and level of detail of some fields. Summing up, many of these problems derived from not using the standard templates for reporting on monitoring subprograms by some Member States, were:

Lack of detailed geographical information;

Lack of data on economic issues;

Lack of detailed info about indicators (specific algorithms, units etc.) (Only Spain reported detailed descriptions of each indicator in standard sheets following DIKE recommendations);

Differences in the list of considered indicators, since most of countries use directly the list of indicators from Decision 477, whereas two countries (Cyprus and Spain), have gone one step further and have defined explicitly their own list of indicators, relating them to those stated in Decision 477. In these cases, all the MSFD indicators are covered at least one national indicator and usually several indicators, more precise and adapted to specific cases, have been defined in relation to one of these indicators stated in MSFD (e.g. up in Spain up to 12 different indicators have been proposed in relation to the MSFD indicator 1.6.1.Condition of the typical species and communities);

In some cases, methodologies were not described in detail in the uploaded files, but included only as bibliographic references;

Conceptual confusions between parameters, monitored elements and habitats, where the elements are monitored;

Use of different nomenclature;

Differences of criteria for defining the indicators addressed by a given subprogram (with similar monitoring schemes, the indicators that each country consider to be covered by such monitoring programs can be different);

Differences of criteria for defining monitored elements and parameters measured, associated to a given subprogram (some countries only report, within a given subprogram, the target monitored elements and related parameters, whereas others include additional monitored elements which in the context of such subprogram only constitute complementary information);

- Heterogeneity in subprograms structure (some adapted to specific and homogeneous monitoring programs, whereas others integrate very different monitoring schemes).

Access relational Database (DB)

The tables of data from the different MSs compiled in Annex 2 and modified as described in the previous paragraph were clumped together for elaborating the main table of the relational database on MSFD monitoring programs in the Mediterranean region. This main table contains all the relevant information extracted from EIONET, and constitutes itself a data set useful for carrying out an overall description of MSFD monitoring programs in the Mediterranean and a general comparison of these monitoring programs among countries. Its structure is not the optimal one, from the point of view of a relational database, since part of these data could be placed in different tables for avoiding some redundancies. However, since in this case the number of data is not a limiting factor and with the objective of permitting the stakeholders to use it as a single spreadsheet for more simple analysis, it was decided to maintain it, as a unique table.

Other tables containing complementary information, allowing to complete the data already included in the DB or linking them to other databases, were elaborated, as:

- Table for linking the DB on monitoring programs to the DB on indicators developed under ActionMed Activity 1;
- Tables for relating MSFD and UNEP/MAP IMAP descriptors, criteria and indicators;
- Tables for linking MSFD indicators and more detailed indicators defined by some of the MSs, as Spain and Cyprus;
- Table for linking MSFD descriptors, criteria and indicators with their complete definitions as stated in Decision 477;
- Table for linking the monitored element short names to their complete definitions as stated in Annex 3 of MSFD.

Moreover, some complementary partial tables including some of the info already included in the main table but restructured for facilitating some of the queries, as a table including only the data at subprogram level or tables about monitoring subprograms purpose or about monitored elements.

The structure and contents of the DB is shown in Annex 3 (<https://cloudfs.hcmr.gr/index.php/s/9GtXjNdxBXqf5zc>).

ANNEX 1

Review of documents submitted by MSs, in relation to MSFD reporting obligations on Article 11, available from EIONET.

CROATIA:



templateAct2MonitoringProgrammes_Croat

There are four folders:

Collection	National text-based paper report	24 Jul 2015
Collection	Geographical data and regional cooperation_MSFD4Geo	24 Jul 2015
Collection	MADHR: The Adriatic Sea	24 Jul 2015
Envelope	sub-programme update	19 Oct 2015

The contents of each one are:

- **National text-based paper report:**

There is a national text based paper report, uploaded 30th December 2014, of 161 pages. It can be downloaded without problems. It is written in Croatian.

- **Geographical data and regional cooperation_MSFD4Geo:**

Two envelopes, the first (15October2014XML) contains four .xml files,

1	File iconHR_MARINE_WATERS.xml	MADHR_XML	15 Oct 2014	11.0 KB
2	File iconMAD-HR-AA_8A1_8B6.xml	MADHR_XML	15 Oct 2014	11.0 KB
3	File iconMAD-HR-AA_8B8_8B12.xml	MADHR_XML	15 Oct 2014	11.0 KB
4	File iconMAD-HR-MS-ADRIATIC.xml	MADHR_XML	15 Oct 2014	11.0 KB

They can be opened only as originals (not legible).

The second (15 October 2014) contains four groups of six files with different extensions (dbf, prj, sbn, sbx, shp, shx) related to each one of the previous four groups.

- **MADHR: The Adriatic Sea:**

There are 43 xlm files:

1	MADHR_MSFD11Mon__20141015.xml	09 Oct 2014	131 KB
2	MADHR_MSFD11MonSub__MADHR-D014-01_20141015.xml	07 Oct 2014	6.87 KB
3	MADHR_MSFD11MonSub__MADHR-D014-02_20141015.xml	07 Oct 2014	6.27 KB
4	MADHR_MSFD11MonSub__MADHR-D014-03_20141015.xml	07 Oct 2014	5.75 KB
5	MADHR_MSFD11MonSub__MADHR-D014-04_20141015.xml	07 Oct 2014	7.32 KB
6	MADHR_MSFD11MonSub__MADHR-D014-05_20141015.xml	07 Oct 2014	5.51 KB
7	MADHR_MSFD11MonSub__MADHR-D0146-01_20141015.xml	07 Oct 2014	5.19 KB
8	MADHR_MSFD11MonSub__MADHR-D0146-02_20141015.xml	07 Oct 2014	5.06 KB
9	MADHR_MSFD11MonSub__MADHR-D0146-03_20141015.xml	07 Oct 2014	4.94 KB

10	MADHR_MSFD11MonSub__MADHR-D0146-04_20141015.xml	07 Oct 2014	5.37 KB
11	MADHR_MSFD11MonSub__MADHR-D02-01_20141015.xml	07 Oct 2014	5.58 KB
12	MADHR_MSFD11MonSub__MADHR-D02-02_20141015.xml	07 Oct 2014	5.34 KB
13	MADHR_MSFD11MonSub__MADHR-D02-03_20141015.xml	07 Oct 2014	6.90 KB
14	MADHR_MSFD11MonSub__MADHR-D03-01_20141015.xml	07 Oct 2014	7.50 KB
15	MADHR_MSFD11MonSub__MADHR-D03-02_20141015.xml	07 Oct 2014	6.17 KB
16	MADHR_MSFD11MonSub__MADHR-D03-03_20141015.xml	07 Oct 2014	6.24 KB
17	MADHR_MSFD11MonSub__MADHR-D03-04_20141015.xml	07 Oct 2014	5.18 KB
18	MADHR_MSFD11MonSub__MADHR-D05-01_20141015.xml	07 Oct 2014	5.79 KB
19	MADHR_MSFD11MonSub__MADHR-D05-02_20141015.xml	07 Oct 2014	5.51 KB
20	MADHR_MSFD11MonSub__MADHR-D05-03_20141015.xml	07 Oct 2014	5.64 KB
21	MADHR_MSFD11MonSub__MADHR-D05-04_20141015.xml	07 Oct 2014	5.71 KB
22	MADHR_MSFD11MonSub__MADHR-D05-05_20141015.xml	07 Oct 2014	5.51 KB
23	MADHR_MSFD11MonSub__MADHR-D05-06_20141015.xml	07 Oct 2014	5.58 KB
24	MADHR_MSFD11MonSub__MADHR-D07-01_20141015.xml	07 Oct 2014	5.93 KB
25	MADHR_MSFD11MonSub__MADHR-D07-02_20141015.xml	07 Oct 2014	5.93 KB
26	MADHR_MSFD11MonSub__MADHR-D07-03_20141015.xml	07 Oct 2014	5.75 KB
27	MADHR_MSFD11MonSub__MADHR-D07-04_20141015.xml	07 Oct 2014	6.91 KB
28	MADHR_MSFD11MonSub__MADHR-D08-01_20141015.xml	07 Oct 2014	5.91 KB
29	MADHR_MSFD11MonSub__MADHR-D08-02_20141015.xml	07 Oct 2014	5.87 KB
30	MADHR_MSFD11MonSub__MADHR-D08-03_20141015.xml	07 Oct 2014	5.88 KB
31	MADHR_MSFD11MonSub__MADHR-D08-04_20141015.xml	07 Oct 2014	5.98 KB
32	MADHR_MSFD11MonSub__MADHR-D08-05_20141015.xml	07 Oct 2014	5.78 KB
33	MADHR_MSFD11MonSub__MADHR-D08-06_20141015.xml	07 Oct 2014	6.92 KB
34	MADHR_MSFD11MonSub__MADHR-D08-07_20141015.xml	07 Oct 2014	5.46 KB
35	MADHR_MSFD11MonSub__MADHR-D09-01_20141015.xml	07 Oct 2014	5.02 KB
36	MADHR_MSFD11MonSub__MADHR-D09-02_20141015.xml	07 Oct 2014	5.37 KB
37	MADHR_MSFD11MonSub__MADHR-D09-03_20141015.xml	07 Oct 2014	4.51 KB
38	MADHR_MSFD11MonSub__MADHR-D10-01_20141015.xml	07 Oct 2014	5.21 KB
39	MADHR_MSFD11MonSub__MADHR-D10-02_20141015.xml	07 Oct 2014	5.25 KB
40	MADHR_MSFD11MonSub__MADHR-D10-03_20141015.xml	07 Oct 2014	5.25 KB
41	MADHR_MSFD11MonSub__MADHR-D10-04_20141015.xml	07 Oct 2014	5.25 KB
42	MADHR_MSFD11MonSub__MADHR-D11-01_20141015.xml	07 Oct 2014	6.50 KB
43	MADHR_MSFD11MonSub__MADHR-D11-02_20141015.xml	07 Oct 2014	6.31 KB

...which are the sheets of all the Croatian monitoring subprograms.

The contents of these sheets are written in English

- **sub-programme update**

It is an empty folder, work on progress message.

FRANCE



templateAct2MonitoringProgrammes_Franc

There are 7 folders, 4 of them containing info related to the Mediterranean region:

Collection	MWEFR: The Western Mediterranean Sea	28 Aug 2015
Collection	National text-based paper report	23 Jul 2015
Collection	Geographical data and regional cooperation_MSFD4Geo	23 Jul 2015
Envelope	test2	21 Aug 2015

Their respective contents are:

- MWEFR: The Western Mediterranean Sea

It contains 7 folders:

Envelope	Documentation	28 Aug 2015
Envelope	Sous_prog_D1-D4_OMMT	31 Jul 2015
Envelope	Sous-prog_D1-D4-D6 HBIF	31 Jul 2015
Envelope	Sous_prog_D1-4_HP	31 Jul 2015
Envelope	Sous_prog_D1-D4_PC_D2_D11	31 Jul 2015
Envelope	Sous_prog_D3-D5-D7-D8-D9-D10	31 Jul 2015
Envelope	Programmes	31 Jul 2015

The first “Documentation28Aug” contains three zip files, including each one several files of different types (pdf, word...) with complementary information related to different descriptors. The last “Programmes” contains a .xlm file addressing common questions of the Mediterranean subprograms, but as occur with Croatian subprogram files cannot be opened as html, only as .xlm original file, with pieces of text in French. The rest contain the xlm files with the descriptions of the different subprograms. More specifically:

- Envelope Sous_prog_D1-D4_OMMT contains:

1	MOFR-D1-4_MT-1-Pop_Cotieres_Cetaces	17 Jul 2015	5.92 KB
2	MOFR-D1-4_MT-3-En_Mer	17 Jul 2015	7.97 KB
3	MOFR-D1-4_MT-4-Echouage	17 Jul 2015	8.17 KB
4	MOFR-D1-4_MT-5-Interactions	13 Jul 2015	6.09 KB
5	MOFR-D1-4_Oiseaux-1-Estran	17 Jul 2015	7.52 KB
6	MOFR-D1-4_Oiseaux-2-Nicheurs	17 Jul 2015	6.89 KB
7	MOFR-D1-4_Oiseaux-3-En_Mer	17 Jul 2015	8.87 KB

- Envelope Sous-prog_D1-D4-D6 HBIF contains:

1	MOFR-D1-4-6_HB-1-Repart_Cotier_Plateau	23 Jul 2015	6.74 KB
2	MOFR-D1-4-6_HB-10-Extraction_Materiaux	23 Jul 2015	6.44 KB
3	MOFR-D1-4-6_HB-11-Dragage_Clapage	23 Jul 2015	5.23 KB
4	MOFR-D1-4-6_HB-12-Mouillages	23 Jul 2015	4.87 KB
5	MOFR-D1-4-6_HB-13-Aquaculture	23 Jul 2015	5.58 KB

6	MOFR-D1-4-6_HB-2-Etat_Ecol_Intertidal	29 Jul 2015	7.61 KB
7	MOFR-D1-4-6_HB-3-Etat_Ecol_Meuble_Cotier	29 Jul 2015	8.26 KB
8	MOFR-D1-4-6_HB-4-Etat_Ecol_Rocheux_Cotier	29 Jul 2015	8.14 KB
9	MOFR-D1-4-6_HB-5-Etat_Ecol_Plateau	23 Jul 2015	6.81 KB
10	MOFR-D1-4-6_HB-8-PI_Activites	23 Jul 2015	5.66 KB
11	MOFR-D1-4-6_HB-9-Artificialisation	23 Jul 2015	5.61 KB

- Enveloppe Sous_ _D1-4_HP contains:

1	MOFR-D1-4_HP-5-Phytoplancton	13 Jul 2015	10.8 KB
2	MOFR-D1-4_HP-6-Zooplancton	17 Jul 2015	7.88 KB

- Enveloppe Sous_prog_D1-D4_PC_D2_D11 contains:

1	MOFR-D1-4_Poissons-3-Meuble_Cotier	13 Jul 2015	6.82 KB
2	MOFR-D1-4_Poissons-4-Pelagique_Cotier	13 Jul 2015	6.69 KB
3	MOFR-D1-4_Poissons-5-Plateau	13 Jul 2015	6.50 KB
4	MOFR-D11_Bruit-1-Emissions_Continues	24 Jul 2015	5.73 KB
5	MOFR-D11_Bruit-2-Emissions_Impulsives	20 Jul 2015	7.02 KB
6	MOFR-D11_Bruit-3-Bruit_Ambiant	20 Jul 2015	6.09 KB
7	MOFR-D2_ENI-3-Caract_Etat_Impacts	20 Jul 2015	5.76 KB

- Enveloppe Sous_prog_D3-D5-D7-D8-D9-D10contains:

1	MOFR-D10_Dechets-1-Littoral	24 Jun 2015	5.46 KB
2	MOFR-D10_Dechets-2-Flottants.xml	20 Jul 2015	4.91 KB
3	MOFR-D10_Dechets-3-Fond.xml	06 Jul 2015	3.70 KB
4	MOFR-D10_Dechets-4-Microparticules.xml	20 Jul 2015	5.30 KB
5	MOFR-D3_EspCom-1-Peche_Pro.xml	28 Jul 2015	5.81 KB
6	MOFR-D3_EspCom-2-Peche_Recreative.xml	28 Jul 2015	4.70 KB
7	MOFR-D3_EspCom-3-Echantillonnage_Captures.xml	28 Jul 2015	5.12 KB
8	MOFR-D3_EspCom-4-Campagnes_Halieuistiques.xml	28 Jul 2015	5.13 KB
9	MOFR-D5_Eutrophisation-5-Apports_Fluviaux.xml	22 Jul 2015	5.63 KB
10	MOFR-D5_Eutrophisation-8-Apports_Atmos.xml	22 Jul 2015	4.47 KB
11	MOFR-D7_ChangementsHydro-1-Hydrologie.xml	23 Jul 2015	6.51 KB
12	MOFR-D7_ChangementsHydro-2-PhysicoChimie.xml	23 Jul 2015	7.44 KB
13	MOFR-D7_ChangementsHydro-3-Modif_Sedim.xml	23 Jul 2015	9.65 KB
14	MOFR-D7_ChangementsHydro-4-Meteorologie.xml	28 Jul 2015	4.35 KB
15	MOFR-D8_Contaminants-1-Organismes_Marins.xml	28 Jul 2015	6.52 KB
16	MOFR-D8_Contaminants-2-Milieu.xml	28 Jul 2015	5.51 KB
17	MOFR-D8_Contaminants-3-Effets_Org_Marins.xml	28 Jul 2015	5.22 KB
18	MOFR-D8_Contaminants-4-Apports_Fluviaux.xml	28 Jul 2015	5.97 KB
19	MOFR-D8_Contaminants-5-Pollutions_Aigues.xml	28 Jul 2015	3.88 KB
20	MOFR-D9_QS-2-Contamination_Phycotoxines.xml	28 Jul 2015	5.96 KB
21	MOFR-D9_QS-3-Contam_Microbiologique.xml	08 Jul 2015	5.53 KB

All text is written in French.

- National text-based paper report

This folder contains a separate report for each French Marine Demarcation, plus a general one on common criteria and methodologies for the Marine Monitoring Program in France. The later is a 12 pages document with the transcription of a French law on this issue “Arrêté du 28 avril 2015 relatif

aux critères et méthodes pour l'élaboration et la mise en œuvre du programme de surveillance du plan d'action pour le milieu marin". The report on the Med region is a 388 pages document describing each one of the programmes and subprogrammes to be developed, written in French.

- **Geographical data and regional cooperation_MSFD4Geo**

Empty folder

- **Envelope test2**

It contains a large .zip (GDG-telcut.zip, 55.0 MB), which include different types of files with complementary information related to several descriptors (3, 5, 7, 8, 9 and 10), as methodological guidelines etc.

ITALY



templateAct2MonitoringProgrammes-ITA.x

There are 5 folders (see below), 3 corresponding to the different Italian marine demarcations, 1 on the geographical data and regional cooperation and 1 containing the text-based paper report. All of them except the later are totally empty:

Collection	MWEIT: The Western Mediterranean Sea	23 Jul 2015
Collection	National text-based paper report	23 Jul 2015
Collection	Geographical data and regional cooperation_MSFD4Geo	23 Jul 2015
Collection	MICIT: The Ionean Sea and the Central Mediterranean Sea	23 Jul 2015
Collection	MADIT: The Adriatic Sea	23 Jul 2015

- National text-based paper report

It contains 8 pdf files written in Italian, that can be opened both as pdf or html file, one being an introduction and general aspects and the rest describing different monitoring programs covering all the Italian seas in different lines.

The introductory report (Report_MSFD_sui_PdM_-_Introduzione_e_aspetti_generali_15ott2014.pdf, 15 Oct 2014, 678 KB) is an 8 pages report with a short introduction and a couple of tables with the titles of programs and subprograms (see below) and the criteria and indicators.

PROGRAMMA	DESCRITTORI MSFD
1- Fito-zooplankton, caratteristiche chimico-fisiche della colonna d'acqua e rifiuti spiaggiati	1 – Habitat e biodiversità 2 – Specie non indigene 4 – Reti trofiche 5 – Eutrofizzazione 10 – Rifiuti marini
2 - Habitat del fondo marino e biodiversità	1 – Habitat e biodiversità 2 – Specie non indigene 4 – Reti trofiche 6 – Integrità del fondo marino
3 - Pesca	1 – Habitat e biodiversità 3 – Pesca 4 – Reti trofiche 10 – Rifiuti marini
4 - Contaminanti ambientali e input di nutrienti	5 – Eutrofizzazione 8 – Contaminazione chimica
5 - Contaminanti nei prodotti destinati al consumo umano	9 – Contaminazione nei prodotti destinati al consumo umano
6 – Condizioni idrografiche	7 – Condizioni idrografiche
7 – Rumore sottomarino	11 – Rumore sottomarino

The contents of each monitoring program file, all of them addressing all the Italian marine Demarcations, are described below:

- 1** Programma_1_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 761 KB
Phyto-zooplankton, water column physical-chemical characteristics and beached marine litter, 19 pp, 9 subprograms, addressing descriptors 2, 5 and 10.
- 2** Programma_2_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 861 KB
Sea bottom habitats and biodiversity, 28 pp, 16 subprograms, addressing descriptors 1, 2, 4, 6.
- 3** Programma_3_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 816 KB
Commercially exploited species, 30 pp, 11 subprograms, addressing descriptors 1, 3, 4, 6, and 10.
- 4** Programma_4_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 764 KB
Environmental pollutants and nutrients input, 18 pp, 10 subprograms, addressing descriptors 5 and 8.
- 5** Programma_5_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 465 KB
Contaminants in products for human consumption, 6 pp, 1 subprogram, addressing descriptor 9.
- 6** Programma_6_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 977 KB
Hydrographic conditions, 20 pp, 13 subprograms, addressing descriptor 7.
- 7** Programma_7_-_Monitoraggio_MSFD_15ott2014.pdf 15 Oct 2014 558 KB
Underwater noise, 7 pp, 2 subprograms addressing descriptor 11.

SLOVENIA



templateAct2MonitoringProgrammes_SI.xls

There are 3 main envelopes:

- National text-based paper report 23 Jul 2015
- Geographical data and regional cooperation_MSFD4Geo 23 Jul 2015
- MADSI: The Adriatic Sea 23 Jul 2015

The 2 first are empty. The later contains 3 envelopes:

- MSFD art. 11 monitoring programmes - Resubmission 20 Jan 2015
- MSFD art. 11 monitoring programmes - Resubmission 20 Oct 2014
- Test MSFD art. 11 monitoring programmes 15 Oct 2014

Their contents are essentially the same, a series of 9 .xml files consisting in a general description of the MSFD monitoring program and 8 subprograms –in fact programs- addressing different topics, plus some .txt files (readme, metadata, history...) in the case of resubmissions (in the resubmissions the xml files are in the second page). The main files are:

23	MSFDArt11_Programmes.xml	08 Jan 2015	83.7 KB
24	MSFDArt11_Sub-programme_Evtrofikacija	08 Jan 2015	4.83 KB
25	MSFDArt11_Sub-programme_HydrographicalChanges	08 Jan 2015	5.82 KB
26	MSFDArt11_Sub-programme_Odpadki	08 Jan 2015	6.00 KB
27	MSFDArt11_Sub-programme_Onesnazevala	08 Jan 2015	5.25 KB
28	MSFDArt11_Sub-programme_Ribistvo	08 Jan 2015	14.0 KB
29	MSFDArt11_Sub-programme_SeaBedHabitats	08 Jan 2015	5.67 KB
30	MSFDArt11_Sub-programme_WaterColumnCommunity	08 Jan 2015	7.93 KB
31	MSFDArt11_Sub-programme_ZdruzbeMorskegaDna	08 Jan 2015	5.13 KB

All the original files are written in Slovenian. Moreover, some mistakes or inconsistencies in these reporting sheets on the EIONET site have been detected:

- Not all descriptors are covered (some were not reported: D2, D9, D11);
- Inconsistent and wrong coding of program and subprogram names, there is confusion between program or subprogram name and the area that is covered by this program;
- Two subprograms were found in the repository both referring to seabed habitats, so the number of subprograms is 7 and not 8;
- For each program reported there is only one subprogram;
- In some cases the same parameters are followed under different programs, e. g. Chlorophyll-a, phytoplankton community composition and some physico-chemical parameters.

CYPRUS



templateAct2MonitoringProgrammes_CY.xls

There are 3 main envelopes:

- National text-based paper report 23 Jul 2015
- Geographical data and regional cooperation_MSFD4Geo 23 Jul 2015
- MALCY: The Aegean-Levantine Sea 23 Jul 2015

The two later are empty, only the National text-based paper report contains a pdf file describing Cypriot MSFD national monitoring programs. It is a 145p document, written in English. It describes, following the same standard scheme of contents recommended for the html files, 5 programs related to biodiversity descriptors and one for each of the other descriptors, including several subprograms. The report states that all the relevant criteria are adequately covered.

SPAIN



templateAct2_MonitoringProgrammesSpain

There are 5 main envelopes:

- ABIES: The Bay of Biscay and the Iberian Coast 19 Feb 2016
- AMAES: Macaronesia 28 Aug 2015
- MWEES: The Western Mediterranean Sea 28 Aug 2015
- National text-based paper report 23 Jul 2015
- Geographical data and regional cooperation_MSFD4Geo 23 Jul 2015

The latter is empty. Only two contain info relevant for ActionMed, the MWEES: The Western Mediterranean Sea and the National text-based paper report.

- **National text-based paper report:**

It contains one folder “27_02_15_Documentos 06 Mar 2015”, which in its turn include 15 pdf and 2 .zip. These are:

1	OSPAR_coordination.zip	06 Mar 2015	9.93 MB
2	VI.1_Anexo_FichasIndicadores.pdf	27 Feb 2015	12.2 MB
3	VI.2_Anexo4_Fichas01-50.pdf	27 Feb 2015	7.64 MB
4	VI.2_Anexo4_Fichas051-100.pdf	27 Feb 2015	5.85 MB
5	VI.2_Anexo4_Fichas101-150.pdf	27 Feb 2015	5.19 MB
6	VI.2_Anexo4_Fichas151-200.pdf	27 Feb 2015	5.17 MB
7	VI.2_Anexo4_Fichas201-250.pdf	27 Feb 2015	2.91 MB
8	VI.2_Anexo4_Fichas251-300.pdf	27 Feb 2015	5.59 MB
9	VI.2_Anexo4_Fichas300-317.pdf	27 Feb 2015	1.66 MB
10	VI.2_Anexos1a3.pdf	06 Mar 2015	1.05 MB
11	VI.3_Anexo1_SubprogramasABIES-NOR.pdf	06 Mar 2015	8.91 MB
12	VI.3_Anexo2_SubprogramasABIES-SUD.pdf	06 Mar 2015	9.02 MB
13	VI.3_Anexo3_SubprogramasMWEES-ESAL.pdf	06 Mar 2015	10.5 MB
14	VI.3_Anexo4_SubprogramasMWEES-LEBA.pdf	06 Mar 2015	10.5 MB
15	VI.3_Anexo5_SubprogramasAMAES-CAN.pdf	06 Mar 2015	7.78 MB
16	VI.3_PropuestasMetodologicas_NotasTalleres.zip	06 Mar 2015	4.42 MB
17	VI_ProgramasSeguimiento.pdf	06 Mar 2015	2.79 MB

All of them are large documents of several megabytes. The last, n°17, is the general description of the programs, those from 3 to 9 are descriptions of existing programs, from 11 to 15 are the descriptions of planned MSFD monitoring subprograms, and number 2 include the standard sheets describing in detail each indicator considered within these programs, and the rest contain complementary information on methodologies and national coordination.

Those more relevant for ActionMed are:



- 13. VI.3_Anexo3_SubprogramasMWEES-ESAL.pdf 06 Mar 2015 10.5 MB

It is a 177 pages document, written in Spanish, describing in standard sheets each monitoring subprogram in the Alborán Demarcation.

- 14. VI.3_Anexo4_SubprogramasMWEES-LEBA.pdf 06 Mar 2015 10.5 MB

It is a 183 pages document, written in Spanish, describing in standard sheets each monitoring subprogram in the Levantine-Balearic Demarcation

- **MWEES: The Western Mediterranean Sea 28 Aug 2015**

This folder contains 8 envelopes

MWEES-LEBA_update	28 Aug 2015
MWEES-ESAL_update	28 Aug 2015
MWEES-ESAL Program_pendingSubprograms	05 Mar 2015
MWEES-LEBA Program_PendingSubprograms	05 Mar 2015
MWEES-ESAL_Subp	27 Feb 2015
MWEES-LEBA_Subp	27 Feb 2015
MWEES-LEBA_Subp_D2_D9_D11	22 Dec 2014
MWEES-ESAL_Subp_D2_D9_D11	22 Dec 2014

All these folders include descriptions of all the different monitoring subprograms planned for the two Spanish Mediterranean marine Demarcations. More specifically:

MWEES-ESAL_Subp_D2_D9_D11: 22 Dec 2014

1	MWEES-ESAL-CP-1_ContaminantesPescado.xml	22 Dec 2014	6.11 KB
2	MWEES-ESAL-CP-2_PatogenosPescado.xml	22 Dec 2014	5.98 KB
3	MWEES-ESAL-EAI-1_AreasSensiblesInvasoras.xml	22 Dec 2014	6.54 KB
4	MWEES-ESAL-EAI-2_PuntosCalientesInvasoras.xml	22 Dec 2014	6.86 KB
5	MWEES-ESAL-EAI-3_EspecificoInvasoras.xml	22 Dec 2014	5.81 KB
6	MWEES-ESAL-EAI-4_RecopilacionDatosInvasoras.xml	22 Dec 2014	6.28 KB
7	MWEES-ESAL-EAI-5_DatosAdicionalesInvasoras.xml	22 Dec 2014	5.83 KB
8	MWEES-ESAL-RS-1_RuidoImpulsivo.xml	22 Dec 2014	6.45 KB
9	MWEES-ESAL-RS-2_RuidoAmbiente.xml	22 Dec 2014	6.49 KB

MWEES-LEBA_Subp_D2_D9_D11 22 Dec 2014

1	MWEES-LEBA-CP-1_ContaminantesPescado.xml	22 Dec 2014	6.06 KB
2	MWEES-LEBA-CP-2_PatogenosPescado.xml	22 Dec 2014	5.91 KB
3	MWEES-LEBA-EAI-1_AreasSensiblesInvasoras.xml	22 Dec 2014	6.54 KB
4	MWEES-LEBA-EAI-2_PuntosCalientesInvasoras.xml	22 Dec 2014	6.86 KB
5	MWEES-LEBA-EAI-3_EspecificoInvasoras.xml	22 Dec 2014	5.86 KB
6	MWEES-LEBA-EAI-4_RecopilacionDatosInvasoras.xml	22 Dec 2014	6.29 KB
7	MWEES-LEBA-EAI-5_DatosAdicionalesInvasoras.xml	22 Dec 2014	5.83 KB
8	MWEES-LEBA-RS-1_RuidoImpulsivo.xml	22 Dec 2014	6.41 KB
9	MWEES-LEBA-RS-2_RuidoAmbiente.xml	22 Dec 2014	6.93 KB

All these subprograms were the first to be finished and sent, but they are repeated in the two main folders sent one month later, whose contents are detailed below:



-	MWEES-ESAL_Subp	27 Feb 2015	
1	MWEES-ESAL-ACT-1_PescaMaritima	26 Feb 2015	10.9 KB
2	MWEES-ESAL-ACT-2_CablesTuberiasArrecifes	27 Feb 2015	5.31 KB
3	MWEES-ESAL-ACT-3_Acuicultura	27 Feb 2015	6.36 KB
4	MWEES-ESAL-ACT-4_ActPortuarias	27 Feb 2015	7.32 KB
5	MWEES-ESAL-ACT-5_Navegacion	27 Feb 2015	5.91 KB
6	MWEES-ESAL-ACT-6_ActRecreativas	27 Feb 2015	5.49 KB
7	MWEES-ESAL-ACT-7_DefensaCostera	27 Feb 2015	5.76 KB
8	MWEES-ESAL-ACT-8_Hidrocarburos	27 Feb 2015	5.46 KB
9	MWEES-ESAL-AH-1_EscalaDemarcacion	20 Feb 2015	6.54 KB
10	MWEES-ESAL-AH-2_EscalaLocal	26 Feb 2015	5.70 KB
11	MWEES-ESAL-AV-1_Censoscolonias	17 Feb 2015	7.55 KB
12	MWEES-ESAL-AV-2_Productividad	17 Feb 2015	7.11 KB
13	MWEES-ESAL-AV-3_Censosmar	17 Feb 2015	7.22 KB
14	MWEES-ESAL-AV-4_Interaccionpesca	17 Feb 2015	8.83 KB
15	MWEES-ESAL-AV-5_DatosAdicionales	17 Feb 2015	6.48 KB
16	MWEES-ESAL-BM-1_BasurasPlayas	26 Feb 2015	4.52 KB
17	MWEES-ESAL-BM-2_BasuraFlotante	26 Feb 2015	5.11 KB
18	MWEES-ESAL-BM-3_BasuraFondoMarino	26 Feb 2015	4.78 KB
19	MWEES-ESAL-BM-4_MicroparticulasAgua	26 Feb 2015	4.86 KB
20	MWEES-ESAL-BM-5_MicroparticulasFondo	26 Feb 2015	4.36 KB
21	MWEES-ESAL-BM-6_MicroplasticosPlayas	26 Feb 2015	4.86 KB
22	MWEES-ESAL-BM-7_DatosAdicionales	26 Feb 2015	4.49 KB
23	MWEES-ESAL-CONT-3_Radionucleidos	27 Feb 2015	5.86 KB
24	MWEES-ESAL-CONT-4_ContaminacionAccidenta	127 Feb 2015	5.40 KB
25	MWEES-ESAL-CONT-5_PatogenosAgua	27 Feb 2015	5.54 KB
26	MWEES-ESAL-CP-1_ContaminantesPescado	26 Feb 2015	5.49 KB
27	MWEES-ESAL-CP-2_PatogenosPescado	26 Feb 2015	5.38 KB
28	MWEES-ESAL-EAI-1_AreasSensiblesInvasoras	17 Feb 2015	6.39 KB
29	MWEES-ESAL-EAI-2_PuntosCalientesInvasoras	17 Feb 2015	6.70 KB
30	MWEES-ESAL-EAI-3_EspecificoInvasoras	17 Feb 2015	5.65 KB
31	MWEES-ESAL-EAI-4_RecopilaDatosInvasoras	18 Feb 2015	6.13 KB
32	MWEES-ESAL-EAI-5_DatosAdicionalesInvasoras	26 Feb 2015	5.26 KB
33	MWEES-ESAL-EC-1_EspeciesComerciales	26 Feb 2015	8.35 KB
34	MWEES-ESAL-EC-2_DatosAdicionales	26 Feb 2015	6.33 KB
35	MWEES-ESAL-EUT-1_BARCELONA_AguasCosteras	25 Feb 2015	5.63 KB
36	MWEES-ESAL-EUT-2_BARCELONA_AguasAbiertas	25 Feb 2015	5.78 KB
37	MWEES-ESAL-EUT-3_DatosAdicionales	25 Feb 2015	6.56 KB
38	MWEES-ESAL-HB-1_InfralitRocoso	25 Feb 2015	14.6 KB
39	MWEES-ESAL-HB-2_InfralitSedim	25 Feb 2015	6.22 KB
40	MWEES-ESAL-HB-3_CircaBatRocoso	25 Feb 2015	7.71 KB
41	MWEES-ESAL-HB-4_CircaBatSedim	25 Feb 2015	7.03 KB
42	MWEES-ESAL-HB-5_Angiospermas	25 Feb 2015	10.9 KB
43	MWEES-ESAL-HB-6-BEN_EspeciesBentProteg	25 Feb 2015	10.5 KB
44	MWEES-ESAL-HB-8_InteraccionActHum	25 Feb 2015	5.94 KB
45	MWEES-ESAL-HB-9_DatosAdicionales	25 Feb 2015	5.64 KB

46	MWEES-ESAL-HP-1_HabPelagicosCosteros	26 Feb 2015	10.3 KB
47	MWEES-ESAL-HP-2_HabPelagicosPlataformOcean	26 Feb 2015	10.5 KB
48	MWEES-ESAL-MT-1_CetCosteros	17 Feb 2015	7.75 KB
49	MWEES-ESAL-MT-2_CetOceanicos	17 Feb 2015	7.89 KB
50	MWEES-ESAL-MT-3_Tortugas	17 Feb 2015	6.92 KB
51	MWEES-ESAL-MT-4_InteraccionPescaMamTortuga	17 Feb 2015	7.33 KB
52	MWEES-ESAL-MT-5_Varamientos	17 Feb 2015	6.59 KB
53	MWEES-ESAL-MT-6_DadicionalesMamTortugas	17 Feb 2015	8.11 KB
54	MWEES-ESAL-OP_ObjetivosOperativos	26 Feb 2015	5.00 KB
55	MWEES-ESAL-PC-1_PecesInfralitoralRocoso	17 Feb 2015	8.05 KB
56	MWEES-ESAL-PC-2_PecesPelagicos	20 Feb 2015	9.14 KB
57	MWEES-ESAL-PC-3_PecesCircaBatialRocoso	20 Feb 2015	5.83 KB
58	MWEES-ESAL-PC-4_PecesCircaBatialSediment	20 Feb 2015	7.64 KB
59	MWEES-ESAL-PRES-1_CargasRios	27 Feb 2015	6.61 KB
60	MWEES-ESAL-PRES-2_CargasAtmosfera	27 Feb 2015	5.60 KB
61	MWEES-ESAL-PRES-3_CargasFuentesPuntuales	27 Feb 2015	6.44 KB
62	MWEES-ESAL-RS-1_RuidoImpulsivo	26 Feb 2015	5.89 KB
63	MWEES-ESAL-RS-2_RuidoAmbiente	26 Feb 2015	5.87 KB
-	MWEES-LEBA_Subp	27 Feb 2015	
1	MWEES-LEBA-ACT-1_PescaMaritima	26 Feb 2015	9.90 KB2
2	MWEES-LEBA-ACT-2_CablesTuberiasArrecifes	27 Feb 2015	5.31 KB
3	MWEES-LEBA-ACT-3_Acuicultura	27 Feb 2015	6.36 KB
4	MWEES-LEBA-ACT-4_ActPortuarias	27 Feb 2015	7.32 KB
5	MWEES-LEBA-ACT-5_Navegacion	27 Feb 2015	5.95 KB
6	MWEES-LEBA-ACT-6_ActRecreativas	27 Feb 2015	5.55 KB
7	MWEES-LEBA-ACT-7_DefensaCostera	27 Feb 2015	5.76 KB
8	MWEES-LEBA-ACT-8_Hidrocarburos	27 Feb 2015	5.56 KB
9	MWEES-LEBA-AH-1_EscalaDemarcacion	20 Feb 2015	6.54 KB
10	MWEES-LEBA-AH-2_EscalaLocal	26 Feb 2015	5.70 KB
11	MWEES-LEBA-AV-1_Censoscolonias	17 Feb 2015	8.20 KB
12	MWEES-LEBA-AV-2_Productividad	17 Feb 2015	7.89 KB
13	MWEES-LEBA-AV-3_Censosmar	17 Feb 2015	7.77 KB
14	MWEES-LEBA-AV-4_Interaccionpesca	17 Feb 2015	9.00 KB
15	MWEES-LEBA-AV-5_DatosAdicionales	17 Feb 2015	6.78 KB
16	MWEES-LEBA-BM-1_BasurasPlayas	26 Feb 2015	4.55 KB
17	MWEES-LEBA-BM-2_BasuraFlotante	26 Feb 2015	5.11 KB
18	MWEES-LEBA-BM-3_BasuraFondoMarino	26 Feb 2015	4.78 KB
19	MWEES-LEBA-BM-4_MicroparticulasAgua	26 Feb 2015	4.86 KB
20	MWEES-LEBA-BM-5_MicroparticulasFondo	26 Feb 2015	4.36 KB
21	MWEES-LEBA-BM-6_MicroplasticosPlayas	26 Feb 2015	4.86 KB
22	MWEES-LEBA-BM-7_DatosAdicionales	26 Feb 2015	4.49 KB
23	MWEES-LEBA-CONT-3_Radionucleidos	27 Feb 2015	5.86 KB
24	MWEES-LEBA-CONT-4_ContaminacionAccidental	27 Feb 2015	5.40 KB
25	MWEES-LEBA-CONT-5_PatogenosAgua	27 Feb 2015	5.53 KB
26	MWEES-LEBA-CP-1_ContaminantesPescado	26 Feb 2015	5.44 KB
27	MWEES-LEBA-CP-2_PatogenosPescado	26 Feb 2015	5.30 KB

28	MWEES-LEBA-EAI-1_AreasSensiblesInvasoras	17 Feb 2015	6.39 KB
29	MWEES-LEBA-EAI-2_PuntosCalientesInvasoras	17 Feb 2015	6.70 KB
30	MWEES-LEBA-EAI-3_EspecificoInvasoras	17 Feb 2015	5.70 KB
31	MWEES-LEBA-EAI-4_RecopilaDatosInvasoras	18 Feb 2015	6.13 KB
32	MWEES-LEBA-EAI-5_DatosAdicionalesInvasoras	26 Feb 2015	5.26 KB
33	MWEES-LEBA-EC-1_EspeciesComerciales	26 Feb 2015	8.39 KB
34	MWEES-LEBA-EC-2_DatosAdicionales	26 Feb 2015	6.93 KB
35	MWEES-LEBA-EUT-1_BARCELONA_AguasCosteras	25 Feb 2015	5.81 KB
36	MWEES-LEBA-EUT-2_BARCELONA_AguasAbiertas	26 Feb 2015	5.77 KB
37	MWEES-LEBA-EUT-3_DatosAdicionales	25 Feb 2015	6.57 KB
38	MWEES-LEBA-HB-1_InfralitRocoso	25 Feb 2015	14.8 KB
39	MWEES-LEBA-HB-2_InfralitSedim	25 Feb 2015	6.44 KB
40	MWEES-LEBA-HB-3_CircaBatRocoso	25 Feb 2015	7.48 KB
41	MWEES-LEBA-HB-4_CircaBatSedim	25 Feb 2015	7.01 KB
42	MWEES-LEBA-HB-5_Angiospermas	25 Feb 2015	10.9 KB
43	MWEES-LEBA-HB-6-BEN_EspeciesBentProteg	25 Feb 2015	10.6 KB
44	MWEES-LEBA-HB-7_Intermareal	25 Feb 2015	6.96 KB
45	MWEES-LEBA-HB-8_InteraccionActHum	25 Feb 2015	5.94 KB
46	MWEES-LEBA-HB-9_DatosAdicionales	25 Feb 2015	5.63 KB
47	MWEES-LEBA-HP-1_HabPelagicosCosteros	26 Feb 2015	10.2 KB
48	MWEES-LEBA-HP-2_HabPelagicosPlataformOcean	26 Feb 2015	10.5 KB
49	MWEES-LEBA-MT-1_CetCosteros	17 Feb 2015	7.58 KB
50	MWEES-LEBA-MT-2_CetOceanicos	17 Feb 2015	7.54 KB
51	MWEES-LEBA-MT-3_Tortugas	17 Feb 2015	6.90 KB
52	MWEES-LEBA-MT-4_InteraccionPescaMamTortuga	17 Feb 2015	7.31 KB
53	MWEES-LEBA-MT-5_Varamientos	17 Feb 2015	6.59 KB
54	MWEES-LEBA-MT-6_DadicionalesMamTortugas	17 Feb 2015	8.12 KB
55	MWEES-LEBA-OP_ObjetivosOperativos	26 Feb 2015	5.01 KB
56	MWEES-LEBA-PC-1_PecesInfralitoralRocoso	17 Feb 2015	8.17 KB
57	MWEES-LEBA-PC-2_PecesPelagicos	20 Feb 2015	9.14 KB
58	MWEES-LEBA-PC-3_PecesCircaBatialRocoso	20 Feb 2015	5.80 KB
59	MWEES-LEBA-PC-4_PecesCircaBatialSediment	20 Feb 2015	8.77 KB
60	MWEES-LEBA-PRES-1_CargasRios	27 Feb 2015	6.61 KB
61	MWEES-LEBA-PRES-2_CargasAtmosfera	27 Feb 2015	5.60 KB
62	MWEES-LEBA-PRES-3_CargasFuentesPuntuales	27 Feb 2015	6.91 KB
63	MWEES-LEBA-RS-1_RuidoImpulsivo	26 Feb 2015	5.85 KB
64	MWEES-LEBA-RS-2_RuidoAmbiente	26 Feb 2015	6.39 KB

The envelopes on pending subprograms contain only some files with additional subprograms on contamination and a file with the general description of the programs in the Demarcation.

-	MWEES-ESAL Program_pendingSubprograms	05 Mar 2015	
1	MWEES-ESAL-CONT-1_Barcelona_AguasCosteras	05 Mar 2015	8.30 KB
2	MWEES-ESAL-CONT-2_Barcelona_AguasAbiertas	05 Mar 2015	7.42 KB
3	MWEES-ESAL-RS-2_RuidoAmbiente	05 Mar 2015	6.71 KB
4	Programas de Seguimiento. Demarcación del Estrecho y Alborán	05 Mar 2015	313 KB

- **MWEES-LEBA Program PendingSubprograms 05 Mar 2015**

1	MWEES-LEBA-CONT-1_Barcelona_AguasCosteras	05 Mar 2015	8.17 KB
2	MWEES-LEBA-CONT-2_Barcelona_AguasAbiertas	05 Mar 2015	7.35 KB
3	Programas de Seguimiento. Demarcación Levantino-Balear	05 Mar 2015	315 KB

Finally the 2 envelopes entitled “updates”, MWEES-LEBA_update 28 Aug 2015 and MWEES-ESAL_update 28 Aug 2015 contain 20 files each, with updated versions of subprograms already included in previous folders.

- **MWEES-LEBA_update 28 Aug 2015**

1	MWEES-LEBA-ACT-2_CablesTuberiasArrecifes_20150713.xml	28 Aug 2015	5.31 KB
2	MWEES-LEBA-ACT-3_Acuicultura_20150713.xml	28 Aug 2015	6.36 KB
3	MWEES-LEBA-ACT-4_ActPortuarias_20150713.xml	28 Aug 2015	7.32 KB
4	MWEES-LEBA-ACT-5_Navegacion_20150713.xml	28 Aug 2015	5.95 KB
5	MWEES-LEBA-ACT-6_ActRecreativas_20150713.xml	28 Aug 2015	5.55 KB
6	MWEES-LEBA-ACT-7_DefensaCostera_20150713.xml	28 Aug 2015	5.76 KB
7	MWEES-LEBA-ACT-8_Hidrocarburos_20150713.xml	28 Aug 2015	5.56 KB
8	MWEES-LEBA-BM-2_BasuraFlotante_20150713.xml	28 Aug 2015	5.59 KB
9	MWEES-LEBA-BM-3_BasuraFondoMarino_20150713.xml	28 Aug 2015	5.27 KB
10	MWEES-LEBA-BM-4_MicroparticulasAgua_20150713.xml	28 Aug 2015	5.38 KB
11	MWEES-LEBA-BM-5_MicroparticulasFondo_20150713.xml	28 Aug 2015	4.88 KB
12	MWEES-LEBA-BM-6_MicroplasticosPlayas_20150713.xml	28 Aug 2015	5.35 KB
13	MWEES-LEBA-BM-7_DatosAdicionales_20150713.xml	28 Aug 2015	4.99 KB
14	MWEES-LEBA-CONT-3_Radionucleidos_20150713.xml	28 Aug 2015	5.86 KB
15	MWEES-LEBA-CONT-4_ContaminacionAccidental_20150713.xml	28 Aug 2015	5.40 KB
16	MWEES-LEBA-CONT-5_PatogenosAgua_20150713.xml	28 Aug 2015	5.53 KB
17	MWEES-LEBA-PC-1_PecesInfralitoralRocoso_20150713.xml	28 Aug 2015	8.39 KB
18	MWEES-LEBA-PRES-1_CargasRios_20150713.xml	28 Aug 2015	6.61 KB
19	MWEES-LEBA-PRES-2_CargasAtmosfera_20150713.xml	28 Aug 2015	5.60 KB
20	MWEES-LEBA-PRES-3_CargasFuentesPuntuales_20150713.xml	28 Aug 2015	6.91 KB

- **MWEES-ESAL_update 28 Aug 2015**

1	MWEES-ESAL-ACT-2_CablesTuberiasArrecifes_20150713.xml	28 Aug 2015	5.31 KB
2	MWEES-ESAL-ACT-3_Acuicultura_20150713.xml	28 Aug 2015	6.36 KB
3	MWEES-ESAL-ACT-4_ActPortuarias_20150713.xml	28 Aug 2015	7.32 KB
4	MWEES-ESAL-ACT-5_Navegacion_20150713.xml	28 Aug 2015	5.91 KB
5	MWEES-ESAL-ACT-6_ActRecreativas_20150713.xml	28 Aug 2015	5.49 KB
6	MWEES-ESAL-ACT-7_DefensaCostera_20150713.xml	28 Aug 2015	5.76 KB
7	MWEES-ESAL-ACT-8_Hidrocarburos_20150713.xml	28 Aug 2015	5.46 KB
8	MWEES-ESAL-BM-2_BasuraFlotante_20150713.xml	28 Aug 2015	5.59 KB
9	MWEES-ESAL-BM-3_BasuraFondoMarino_20150713.xml	28 Aug 2015	5.26 KB
10	MWEES-ESAL-BM-4_MicroparticulasAgua_20150713.xml	28 Aug 2015	5.37 KB
11	MWEES-ESAL-BM-5_MicroparticulasFondo_20150713.xml	28 Aug 2015	4.88 KB
12	MWEES-ESAL-BM-6_MicroplasticosPlayas_20150713.xml	28 Aug 2015	5.35 KB
13	MWEES-ESAL-BM-7_DatosAdicionales_20150713.xml	28 Aug 2015	4.99 KB
14	MWEES-ESAL-CONT-3_Radionucleidos_20150713.xml	28 Aug 2015	5.86 KB
15	MWEES-ESAL-CONT-4_ContaminacionAccidental_20150713.xml	28 Aug 2015	5.40 KB

16	MWEES-ESAL-CONT-5_PatogenosAgua_20150713.xml	28 Aug 2015	5.54 KB
17	MWEES-ESAL-PC-1_PecesInfralitoralRocoso_20150713.xml	28 Aug 2015	8.27 KB
18	MWEES-ESAL-PRES-1_CargasRios_20150713.xml	28 Aug 2015	6.61 KB
19	MWEES-ESAL-PRES-2_CargasAtmosfera_20150713.xml	28 Aug 2015	5.60 KB
20	MWEES-ESAL-PRES-3_CargasFuentesPuntuales_20150713.xml	28 Aug 2015	6.44 KB

Summing up, in each Spanish Mediterranean marine demarcations 66 monitoring subprograms have been designed, covering all the MSFD descriptors.

GREECE

There are five folders in the EIONET Greek page:

- National text-based paper report 23 Jul 2015
- Geographical data and regional cooperation_MSFD4Geo 23 Jul 2015
- MICGR: The Ionean Sea and the Central Mediterranean Sea 23 Jul 2015
- MALGR: The Aegean-Levantine Sea 23 Jul 2015
- MADGR: The Adriatic Sea 23 Jul 2015

All of them are totally empty.

CONCLUSIONS: *The lack of info about Greek MSFD monitoring programs will represent the main obstacle for achieving Activity 2 objectives.*

MALTA



templateAct2MonitringProgrammes_Malta..

There are two main folders:

- MICMT: The Ionean Sea and the Central Mediterranean Sea 30 Oct 2015
- National text-based paper report 23 Jul 2015

The later, as in the case of Slovenia, is empty. The former contains one folder which in its turn contain up to 41 html files describing the general Maltese MSFD monitoring program and 40 subprograms addressing all the descriptors. These are:

1	MSFDArt11_instance_MICMT.xml	30 Oct 2015	127 KB
2	MSFDArt11_instance_sub_MICMT-D0104.1-01.xml	30 Oct 2015	5.08 KB
3	MSFDArt11_instance_sub_MICMT-D0104.1-02.xml	30 Oct 2015	4.74 KB
4	MSFDArt11_instance_sub_MICMT-D0104.1-03.xml	30 Oct 2015	4.96 KB
5	MSFDArt11_instance_sub_MICMT-D0104.1-04.xml	30 Oct 2015	5.12 KB
6	MSFDArt11_instance_sub_MICMT-D0104.2-01.xml	30 Oct 2015	5.14 KB
7	MSFDArt11_instance_sub_MICMT-D0104.2-02.xml	30 Oct 2015	4.93 KB
8	MSFDArt11_instance_sub_MICMT-D0104.2-03.xml	30 Oct 2015	5.22 KB
9	MSFDArt11_instance_sub_MICMT-D0104.2-04.xml	30 Oct 2015	4.31 KB
10	MSFDArt11_instance_sub_MICMT-D0104.3-01.xml	30 Oct 2015	5.37 KB
11	MSFDArt11_instance_sub_MICMT-D0104.3-02.xml	30 Oct 2015	5.04 KB
12	MSFDArt11_instance_sub_MICMT-D0104.4-01.xml	30 Oct 2015	5.87 KB
13	MSFDArt11_instance_sub_MICMT-D0104.4-02.xml	30 Oct 2015	5.14 KB
14	MSFDArt11_instance_sub_MICMT-D010406.1-01.xml	30 Oct 2015	4.63 KB
15	MSFDArt11_instance_sub_MICMT-D010406.1-02.xml	30 Oct 2015	6.35 KB
16	MSFDArt11_instance_sub_MICMT-D010406.1-03.xml	30 Oct 2015	4.21 KB
17	MSFDArt11_instance_sub_MICMT-D02-01.xml	30 Oct 2015	4.42 KB
18	MSFDArt11_instance_sub_MICMT-D02-02.xml	30 Oct 2015	4.61 KB
19	MSFDArt11_instance_sub_MICMT-D02-03.xml	30 Oct 2015	4.87 KB
20	MSFDArt11_instance_sub_MICMT-D03-01.xml	30 Oct 2015	5.60 KB
21	MSFDArt11_instance_sub_MICMT-D03-02.xml	30 Oct 2015	4.93 KB
22	MSFDArt11_instance_sub_MICMT-D03-03.xml	30 Oct 2015	4.95 KB
23	MSFDArt11_instance_sub_MICMT-D05-01.xml	30 Oct 2015	5.65 KB
24	MSFDArt11_instance_sub_MICMT-D05-02.xml	30 Oct 2015	4.83 KB
25	MSFDArt11_instance_sub_MICMT-D05-03.xml	30 Oct 2015	4.62 KB
26	MSFDArt11_instance_sub_MICMT-D05-04.xml	30 Oct 2015	5.55 KB
27	MSFDArt11_instance_sub_MICMT-D05-05.xml	30 Oct 2015	5.02 KB
28	MSFDArt11_instance_sub_MICMT-D07-01.xml	30 Oct 2015	5.26 KB
29	MSFDArt11_instance_sub_MICMT-D07-02.xml	30 Oct 2015	4.93 KB
30	MSFDArt11_instance_sub_MICMT-D07-03.xml	30 Oct 2015	5.07 KB
31	MSFDArt11_instance_sub_MICMT-D07-04.xml	30 Oct 2015	4.14 KB
32	MSFDArt11_instance_sub_MICMT-D08-01.xml	30 Oct 2015	7.21 KB
33	MSFDArt11_instance_sub_MICMT-D08-02.xml	30 Oct 2015	5.87 KB

34	MSFDEArt11_instance_sub_MICMT-D08-03.xml	30 Oct 2015	4.13 KB
35	MSFDEArt11_instance_sub_MICMT-D08-04.xml	30 Oct 2015	4.64 KB
36	MSFDEArt11_instance_sub_MICMT-D09-01.xml	30 Oct 2015	5.29 KB
37	MSFDEArt11_instance_sub_MICMT-D10-01.xml	30 Oct 2015	4.29 KB
38	MSFDEArt11_instance_sub_MICMT-D10-02.xml	30 Oct 2015	5.42 KB
39	MSFDEArt11_instance_sub_MICMT-D10-03.xml	30 Oct 2015	5.29 KB
40	MSFDEArt11_instance_sub_MICMT-D10-04.xml	30 Oct 2015	3.83 KB
41	MSFDEArt11_instance_sub_MICMT-D11-01.xml	30 Oct 2015	4.21 KB

ANNEX 2

Database relations

<https://cloudfs.hcmr.gr/index.php/s/9GtXjNdxBXqf5zc>

ActionMed Monitoring Database in Access format



basededatos_definiti
va.accdb

