



GROWTH AND INNOVATION IN OCEAN ECONOMY GAPS AND PRIORITIES IN SEA BASIN OBSERVATION AND DATA

THE MEDITERRANEAN SEA

D12.2.1 Six-monthly Progress Report (04/12/2013– 03/06/2014)

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Glossary

CMCC - Centro Euro-Mediterraneo per i Cambiamenti Climatici S.c.a r.l. (IT)

CLS - Collecte Localisation Satellites (FR)

CLU - CLU s.r.l. (IT)

EDF EN (FR)

HCMR - Hellenic Centre for Marine Research (GR)

IFREMER - Institut Français de Recherche pour l'Exploitation de la Mer (FR)

INGV - Istituto Nazionale di Geofisica e Vulcanologia (IT)

NKUA - Institut Français de Recherche pour l'Exploitation de la Mer (FR)

OCEANS-CAT - OCEANS Catalonia International SL (ES)

SOCIB - Balearic Islands Coastal Observing and Forecasting System (ES)

UCY - University of Cyprus (CY)

FEM - Association de Préfiguration de l'IEED France Energies Marines (FR)

IH Cantabria - Fundación Instituto de Hidráulica Ambiental de Cantabria (ES)

Executive Summary

The present report has been generated in order to provide an overview of the activities carried out by the Project “Growth and innovation in ocean economy - Gaps and priorities in sea basin observation and data. LOT No.2 The Mediterranean”, in the period ranging from the 4th December 2013 (starting date of the project) till the 3rd June 2014.

The document has been subdivided into six sections: the first one concerns the progress on WP1 activities, section 2 is related to the activities carried out by the 7 Challenges (WP2-8), section 3 to 6 describe progress of WP9 to WP12 activities respectively.

In synthesis work is well underway and internal deadlines are appropriately considered by the project partners.

The first deliverable, the Project Web page, has been delivered on April 4, 2014, and it is located at:

<http://www.emodnet-mediterranean.eu/>

Updates have followed this initial release until a final version has been published on May 28, 2014.

1. WP1: Literature Review (M1-9)

The WP1 general objective is to summarize findings of previous studies of the adequacy of the monitoring system in the Mediterranean Sea basin. In order to reach this objective, a series of intermediate steps have been carried out during the reporting period.

(i) A Template (T1) was organized to collect internally the required input data to the challenges. Following the MSFD nomenclature, data sets are made out of 'Characteristics' (see Annex III of MSFD). Monitoring was defined as the 'collection of information' for a specific usage, in this case the 'Challenges'. The Characteristics have been defined for:

- environmental matrices:
 1. air
 2. fresh/marine water
 3. riverbed/seabed
 4. biota/biology
- human activities databases

The purpose of this survey is multiple and is designed to get a preliminary list of characteristics needed by the challenge in order to search the datasets of potential interest for each challenge and to get a preliminary list of dataset sources.

(ii) Based on the literature and on ISO quality principles, a method has been identified to classify the upstream data potentially used by the challenges and to establish its fitness for purpose (in the Data Adequacy Report).

The characteristics listed in Template T1 have been repeated in a second Template (T2) where the classification methodology needed to qualify the input data sets for each characteristic has been suggested to be done by means of 7 'elements':

1. Characteristics definition (variable or GIS data set) and category;
2. Data source specification: provider, originating programme and dataset/dataset series;
3. Overview elements: production purpose, known uses, processing level;
4. Spatial coverage;
5. Temporal coverage;
6. Accessibility;
7. ISO 19113 quality elements.

An internal document (D1.1 "Methodology for classifying the existing upstream data according to Literature Survey") has been provided by WP1 leader to describe the elements used for the classification of the upstream data contained in the template T2 and how to fill the template, and distributed among the challenge participants.

(iii) A synthesis document has been elaborated by WP1 leader containing the T2 Template outcomes. In particular it gives the consolidated, even if preliminary, list of the input data to consider for the literature survey and for the purposes of each challenge. Hereafter an overview of challenge's needs and common characteristic categories (SDN P02 list) is listed in Table1.

Matrix	SDN P02	SDN characteristic categories	Ch 1	Ch 2	Ch3	Ch 4	Ch5	Ch6	Ch7
Air	CAPH	Air pressure	1						
Air	CDTA	Air temperature	1						
Air	CHUM	Atmospheric humidity	1						
Air	EWSB	Wind speed and direction	1		1				
Biota/Biology	GP088	Bird behaviour	1						
Biota/Biology	BRDA	Bird counts	1	1					
Biota/Biology	GP04	Bird reproduction	1						
Biota/Biology	CETA	Cetacean abundance		1					
Biota/Biology	FABD	Fauna abundance per unit area of the bed	1						
Biota/Biology	FATX	Fish abundance in water bodies	1	1					1
Biota/Biology	FREP	Fish reproduction	1						
Biota/Biology	HBCH	Habitat characterisation			1				
Biota/Biology	HBEX	Habitat extent		1	1				
Biota/Biology	ALAT	Horizontal spatial co-ordinates		1					
Biota/Biology	GP068	Reptile abundance		1					
Biota/Biology	FOCA	Seal abundance		1					
Fresh water	TSED	Concentration of suspended particulate material in the water column							1
Fresh water	TDNT	Dissolved total and organic nitrogen concentrations in the water column							1
Fresh water	TDPX	Dissolved total or organic phosphorus concentration in the water column							1
Fresh water	NTRA	Nitrate concentration parameters in the water column							1
Fresh water	PHOS	Phosphate concentration parameters in the water column							1
Fresh water	RVDS	River flow and discharge							1
Fresh water	TEMP	Temperature of the water column							1
Human activities	ADUN	Administrative units		1					
Human activities	AYMD	Date and time					1		
Human activities	FCST	Fish and shellfish catch statistics					1		
Human activities	GP087	Fishery characterisation	1						
Human activities	GP080	Fishing by-catch					1		
Human activities	FEFF	Fishing Effort					1		
Human activities	HZNV	Hazards to navigation	1						
Human activities	APDA	Horizontal platform movement					1		
Human activities	ALAT	Horizontal spatial co-ordinates	1			1			
Human activities	MMST	Man-made structures			1				
Human activities	MARC	Marine archaeology	1						
Human activities	MLES	Marine environment leisure usage	1						
Human activities	ACYC	Reference numbers	1			1			
Human activities	TRAN	Transport activity	1		1				
Marine water	CPWC	Chlorophyll pigment concentrations in the water column						1	
Marine water	DOXY	Dissolved oxygen parameters in the water column		1					
Marine water	ALAT	Horizontal spatial co-ordinates		1					
Marine water	RFVL	Horizontal velocity of the water column (currents)	1		1			1	
Marine water	PPAB	Light absorption in the water column						1	
Marine water	SAMO	Nutrient fluxes between the bed and the water column		1					
Marine water	PPRD	Primary production in the water column						1	
Marine water	PSAL	Salinity of the water column	1	1				1	
Marine water	ASLV	Sea level	1			1		1	
Marine water	PSST	Skin temperature of the water column						1	
Marine water	WVSP	Spectral wave data parameters	1						
Marine water	TEMP	Temperature of the water column	1	1	1	1		1	
Marine water	VDFC	Transport in the water column		1					
Marine water	LRZA	Vertical velocity of the water column (currents)						1	
Marine water	GWDR	Wave direction	1		1				
Marine water	WVST	Wave height and period statistics	1		1				
Marine waters	CPWC	Chlorophyll pigment concentrations in the water column		1					
Seabed	MBAN	Bathymetry and Elevation	1	1	1				
Seabed	COGE	Coastal geomorphology	1	1	1	1			
Seabed	RMIN	Inorganic chemical composition of sediment or rocks			1				
Seabed	MNSG	Sediment grain size parameters			1				
UN	NA	Unspecified	1	1	1		1		

Table 1: Overview of challenge's needs and common characteristic categories (SDN P02 list)

(iv) A preliminary Literature Survey report has been structured with the objective to summarise previous studies of the “adequacy of data” in the Mediterranean Sea basin that means, for each thematic category of data:

- Is there an overview of data availability?
- If we have an overview then how complete are the data? Is incompleteness due to reluctance of data-owners to release data or because of a lack of measurements?
- Are there any statements made as to fitness for purpose?

The document is a preliminary report which establishes the methodological basis of the literature survey and the list of input data needed by the challenges from initial works of the WP 2-8.

In order to achieve the before mentioned results, a meeting and a series of web-meeting have been organized to discuss the classification methodology and preliminary literature survey, these are listed in section 6 (“WP12: Project Management”).

2. Challenges (WP2-WP8)

During the first 6 months of the project each challenge collected information on the upstream data needed. This has been an iterative process, the identification of datasets and the collection of metadata relevant for the classification will continue throughout the project.

The characteristics needed by the challenges and the data sets they identified as upstream data have been described in internal documents (D2.1, D3.1, D4.1, D5.1, D6.1, D7.1, D8.1) and the methodology for classifying the existing upstream data according to challenge objectives has been described.

ANNEX1 to this document lists the upstream datasets and collections achieved by each challenge, while ANNEX2 lists the feature layers specifying for each characteristic the matrix, the P02 category of the SDN common vocabularies, the dataset and the project and the website URL.

In the following subsections a summary of the work done is given for each challenge.

Challenge 1: Wind farm siting

Wind farm siting plays an important role in offshore engineering and relevant applications. Towards this direction, high resolution environmental data need to be analysed in different point of views in order to ensure credible selections. In the framework of Challenge 1 a variety of data will be collected and classified so to provide the necessary information for characterizing wind resource taking also into account restriction factors like depth, seabed geology, shipping lines and environmental limitations.

Challenge 2: Marine Protected Areas

Data extracted from the EU projects CoCoNet (Towards COast to COast NETworks of marine protected areas, coupled with sea-based wind energy potential), MMMPA (Monitoring Mediterranean Marine Protected Areas), MEDISEH (Mediterranean Sensitive Habitats) and MyOcean will provide the ground for the initiative of effective creation of a working MPAs network contributing to fulfill EU regulations and policies.

Challenge 3: Oil platform leak

In order to produce oil spill predictions in the Mediterranean sea and to be able to deliver a Bulletin containing relevant information about the likely oil spill trajectory and probability of coastal impacts, this challenge has identified different data sources and characteristics that have been described and characterized according to Template 2.

The input data used for the oil spill Bulletin are:

- 1) oil platform position (alt, long),
- 2) date/time of the leak,
- 3) type of oil (API or oil type name) ,
- 4) rate of spillage or total amount of oil spilled,
- 5) slick satellite observations provided by EMSA
- 6) the simulation length.

These input data will be supplied by the Customer (the EC) in two different ways, corresponding to two different phases:

- 1) by e-mail through a specific form, here reported in Annex 1
- 2) through MEDESS4MS User Portal when it will be completed (September 2014).

Other necessary input data for the Bulletin are high resolution meteo-oceanographic forecasts and analyses for Mediterranean Sea (including winds, currents, Stokes drift and Sea Surface Temperature) provided through MyOcean service portal and other MEDESS4MS forecasting systems. The coastal habitats (sea bed habitats and geology) will be provided by EMODnet portals.

Challenge 4: Climate and Coastal protection

This challenge has identified different data sources and characteristics in response to the Tender No. Mare/2012/11 concerning to sea temperature at surface and at different levels, sea level changes and coastal protection. The challenge have described and characterized according to Template 2 requests the available data at basin scale that can answer the main questions addressed in the tender specifications. 14 characteristics has been identified for addressing the tasks related to challenge 4, 11 relates to marine water, 2 to seabed and 1 to human activities. These characteristics are provided by 8 different sources. There is a lack of information in most of the datasets about the ISO attributes, and these attributes are partially completed. Additionally, because of the lack of information at regional scale on coastal protection, the challenge has started to investigate (still in progress) the data available at national scale. It is already clear that, at basin level, there is no standard and integrated database and, often, the observations from one Nation to another cannot be compared in terms of units, nomenclature or spatial-temporal extent.

Challenge 5: Fishery Management

In the view of the EAFM it is crucial to consider the fishery catches and the pressure of the trawl fishery on the sea floor and how such impacts changed on time.

More accurate management acknowledges that the overall fishing exploitation pattern is an integrated parameter that includes the conjunction between spatial stock availability and fishing-specific pressures depending on human behaviour factors. Fishers use different fishing grounds in different seasons depending on fishing opportunities, fish prices, fishing costs, fishing traditions, and/or regulations in force and, therefore, exploit different species and age classes of the population. This makes the need to describe patterns and drivers in resource exploitation for spatially and seasonally explicit fleet-based management even more pronounced.

Challenge 6: Marine Environment

The objectives of the present Challenge are to collect and assess data relevant to the phenomenon of eutrophication characteristic of some areas of the Mediterranean Sea. Pollution by nutrients, happening in many coastal areas, is another subsidiary objective.

All countries around the Mediterranean Sea have monitoring programmes as part of the EU directives and of the UNEP conventions. The location and frequency of the sampling sites are quite irregular but tend to be rather low and sparse. Gathering of the data produced in the framework of these programmes will start in the very near future. For non-EU States arrangements should be made with individual institutions or with UNEP to obtain the data. Remotely sensed data are freely available and should not generate any problem to get hold of it.

Challenge 7: River inputs

Rivers are major pathways for freshwater and material fluxes from land to the sea. Via their supply of nutrients (nitrogen, phosphorus) to marine ecosystems, they contribute to the biological productivity and to eutrophication in the coastal waters. Riverine sediments are the principal source of sediments for beaches and hence crucial in the prevention of coastal erosion, whereas riverine freshwater supply can be a major driver in water circulation of oceanic systems. River inputs affect coastal water temperatures and thus biological activity. Finally, in some cases, such as for eels, rivers are directly contributing to the recruitment of live stocks in the marine environment. The basic data sets that will be collected are: freshwater, sediment and nutrient fluxes into the Mediterranean Sea and eels abundance.

3. WP9: Web site development (M1-36)

MedSea checkpoint web portal has been released at month 4 (beginning of April 2014), the official website address is: www.emodnet-mediterranean.eu. The Portal has been deployed and is running on INGV web server.

The model applied is specified within "EMODNET web portal style guide" made available by the central portal and has been designed and developed using Wordpress (<http://wordpress.org/>).

The web site content will be revised and updated no less than once every 3 months and for each major release of project outputs, if needed.

The following items have been developed:

Home

About

Project structure

Organization:

Consortium Partners - Subcontractors

Expert Panel

FAQs

Glossary

Challenges

Shared framework

Common vocabularies

Upstream data and common methodologies [will be developed later on]

Rationale for a GIS portal

Web GIS service

[empty demo, will be developed later on]

Project Outputs

[will be developed later on]

Publication

[will be developed later on]

Links

Observing systems

Assembly and networking

Information & Communication Tecnology

Feedback

The bottom signature or project motto is:

“The EMODnet Mediterranean Sea Portal for assessment of observational data systems and targeted applications.”

The MedSea checkpoint webportal home page is depicted in Figure 1.

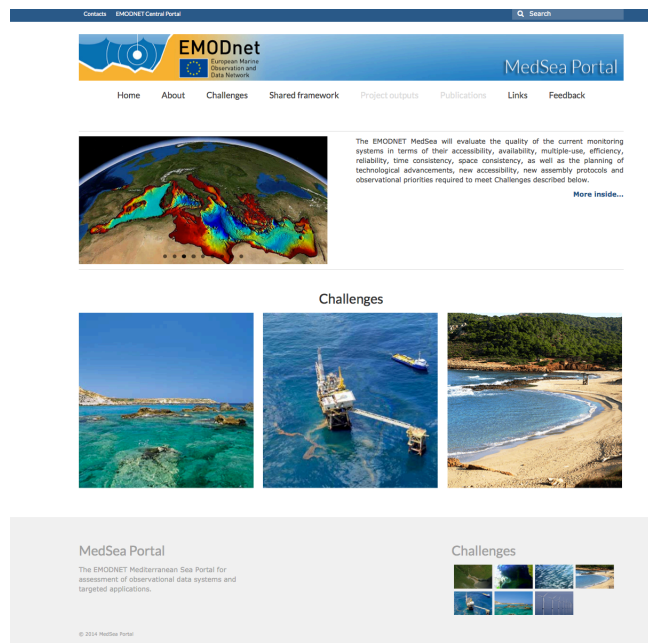


Fig.1: MedSea checkpoint web-portal home page.

In order to describe the organization and content of the editorial website of the project to help each participant understand, review and validate the inputs, an internal deliverable has been provided by WP9 leader: D9.2 “First version of the Portal containing preliminary information about project”.

A second, working internal document: “Web-Portal Specification” has been released by WP9 leader with the aim to clarify the GIS Service for the Med Sea CheckPoint Web-portal.

Several Web-portal releases are planned. The first one with project information only is in service since early April 2014. Next Releases (February 2015, December 2015 and October 2016) are going to release the GIS service portal (preliminary version in <http://sextant.ifremer.fr/en/web/medcheckpoint/>) that will give access to Challenges catalogue of input data and output (Table 2).

The 3 GIS service portal releases will provide increasing checkpoint information and functionalities. Functionalities are mainly connected to a gradual increase in capacity to navigate within all the checkpoint information.

Table 2: Synthesis of Challenge outputs

Challenge	Output
Windfarm siting	Determine the suitability of wind farm development in the Northwestern Mediterranean Sea
Marine Protected Areas	Analyze the existing Mediterranean network of marine protected areas (national and international sites)
Oil Platform leak	Issue a Bulletin within 24 hours to determine the fate and transport of oil from a platform leakage
Climate and coastal protection	Document in several ways sea level changes, water column annual mean temperature changes and sediment mass changes.
Fishery management	Collect mass and number of fish landings, discards and bycatch (of fish, mammals, reptiles and seabirds) by species and year
Marine Environment	Seasonal averages and changes of eutrophication in the basin for The past ten years
River Inputs	Time series of all river water discharges, sediment loading, total Nitrogen and phosphates loads, eels abundance

Because monitoring characteristics are changing, improving every days, it is interesting to envisage automatic computing of checkpoint indicators. So some checkpoint indicators computation could be integrated or connected with the web-portal to be able to propose “fresh” checkpoint information. Because of wide quantity of monitoring/upstream data, the fact that each days monitoring characteristics are changing, are improved, because of wide variety of Applications with their different expectations on these monitoring characteristics, it won’t be possible to make everything during this first checkpoint project. This perimeter must be approved by project partners and DG Mare before starting development of next Web-portal release.

4. WP10: Organization of Panels (M1-36)

The WP10 leader provided at month 1 (January 2014) the ‘terms of reference’ for the Panel which in synthesis contain:

- 1) precise definition of the mission of the Panel;
- 2) the avoidance of conflicts of interest;
- 3) task and duties of the Panel.

The main duties and Tasks of the Panel will be to review the two Data Adequacy Report prepared by WP11. The Data Adequacy Reports will be sent one month before the Panel meetings to give enough time for the review.

5. WP11: Data adequacy reports (M10-36)

WP11 activities will start at month 10 (October 2014)

6. WP12: Project management (M0-36)

Contract and Consortium Agreement

The contract (N. SI2.658137 MARE/2012/11 – lot 2) has been signed the 4th December 2013 and an amendment related to the financing methodology has been signed on February 13, 2014.

The Consortium Agreement (CA) is currently at its final signature stage: the Coordinator provided a draft version of the CA to the partners, received comments and made amendements. Now the CA is ready to be distributed among the partners for final signature.

Project repository

A project repository has been created using the FeW (File Explorer on the Web) tool in order to share the documentation and the deliverables related to the project development. Each participant can access the repository, create, delete, upload and download documents and directories.

The repository web address is: <http://gnoo.bo.ingv.it/repository/medsea-ck-pt/>

Username: medsea-ck-pt

Password: checkpoint

Deliverable deadline notification

A google calendar containing all the deadlines for the deliverables foreseen, both required and internal, has been created and all partner can access it through a googlemail. In order to facilitate partners with the compliance of the deadlines, reminders are sent to the WP leaders starting from two weeks before the due date.

Project Meetings

During the reporting period several meetings have been carried out, some of them have been organized on the web platform to reduce travelling costs and time. In the following the organized meetings are listed and briefly synthesized.

Kick-off meeting: 16-18 October 2013

The project kick-off meeting took place in Bologna from 16th to 18th October 2013. All the partners and some subcontractors participated to the meeting. Also a member of the Secretariat and the North Sea coordinator joined the meeting via web-conference.

The kick-off meeting objectives were:

- to share among the project partners the plan and the milestones scheduled in the technical tender proposal;
- to clarify all the deliverables (internal and compulsory);
- to prepare a final GANTT;
- to discuss next year meetings;
- to discuss the Consortium Agreement and elucidate all possible problems.

In particular the following points have been discussed:

- Presentation of overall project and single WPs workplan with particular effort on WP1 “Literature survey” and WP9 “Portal development”
- Discussion on the full workplan, Data Adequacy Report, deliverables and meetings schedule
- Discussion on Consortium Agreement

Web-meeting on: “Template of monitoring data classification”: 16 January 2014

A webex discussing the “Template of monitoring data classification” has been held the 16th January 2014 with the participation of the Coordinator, WP1 and WP9 representatives.

The web-meeting was carried out in order to proceed to formulate a template concerning the classification methodology for the different challenges to be filled in order to have their inputs for the deliverable: “Methodology for classifying the existing upstream data according to challenge objectives”.

WP1 meeting: Brest, 24-24 March 2014

A meeting discussing the WP1 Classification Methodology, Literature Survey and link with WP9 has been held at IFREMER in Brest the 24th - 25th March 2014 with the participation of the Coordinator, WP1 and WP9 representatives.

The following points have been discussed:

- Introduction to WP1 work: reminder on the objectives, deliverables, schedule, interaction with WP9 (Web portal specifications) and with challenge WPs
- Classification methodology :
 - template T1&T2 (described in section WP1) purposes, content
 - preliminary results
 - integration of the WP1 outputs in portal (templates T1 & T2 results, link with sources metadata and with spatial data layers supporting literature survey)
- Web portal status specifications: integration of WP1 results
- Structure and content of the first deliverable on the literature survey (survey & spatial layers)
- Literature survey: work plan & distribution of work between WP1 partners

2 Web-meetings on: “Template of monitoring data classification”: 9-10 April 2014

The WP1 meeting highlighted the need to organize specific web-meetings between the Coordinator, WP1 and each challenge representatives in order to discuss in detail the template of monitoring data classifications state of the art and possible updates. During the 2 days webex, each challenge leader presented and discussed its own templates with WP1 and the coordinator in order to update according the requested information.

Web-meeting on: “WP6 list of characteristics”: 14 April 2014

A specific web-meeting between the coordinator and WP6 leader (Fishery Management) has been organized in order to discuss the list of input data to the challenge according to the tendering specifications.

Web-meeting on Literature Survey with North Sea Checkpoint coordinator: 21 May 2014

A webex has been held with HR Wallingford (North Sea checkpoint coordinator) in order to discuss and try to harmonize the content of the Literature Survey for the 2 checkpoints.

Web-meeting on “WP1 Literature Survey and WP9 Portal requirements”: 26 May 2014

The webex has been participated by the Coordinator, WP1 and WP9 participants. The document synthesizing the Template2 achievements designed to identify and to characterize the upstream data

of the challenge applications has been discussed. The literature Survey report scheme has been also presented and modified according to the previous discussion with NortSea checkpoint web-meeting. Moreover WP9 presented and discussed the WebPortal requirement contained in the internal document “Web-Portal Specification”.

Web-meeting on “Challenge Deliverables D*.1 and D*.2”: 27 May 2014

The Webex has been participated by all WP leaders and the Coordinator. Discussion revolved around the completion of Template 2 and the deliverable D*.1 (“Methodology for classifying the existing upstream data according to challenge objectives”) which gives important elements for the Literature survey to the WP1 partners. Each D*.1 deliverable was examined and missing information outlined.

In addition the content of D*.2 (“List of challenges outputs and the way to refer/ingest and access/share these information”) was discussed pointing out the challenges requested outputs.

Meetings Participation

The MedSea checkpoint coordinator (or a representative) also took part in the following meetings:

- 1st EMODnet SC meeting held in Bruxelles the 16th and 17th December 2013 presenting an overview of the activities to be carried out by the MedSea checkpoint.
- 21st MODEG meeting and EMODnet Secretariat Office inauguration: held in Oostende the 19th-20th February 2014 presenting the first 3 months update of the MedSea checkpoint activities, in particular the preliminary list of required input data for each challenge and general principles of input data classification have been discussed as well as the web-portal design.
- Splinter meeting held in Vienna (during the EGU General Assembly 2014) 29th April 2014. The meeting was participated by 18 people including EMODnet representatives, MedSea and North Sea ck-pt coordinators with the main aim of discussing how to “Unlock the potential of marine knowledge by making easier the access to real-time and archived data”. A crucial point is on how to link the challenges to input data. The objective is to obtain, for each challenge, a catalog of input data and provide a link to the portals that contains the data. It was suggested that the CheckPoints can provide processed data products in the CheckPoint portals and link to relevant data sources via the EMODnet portals.
- Maritime days held in Bremen the 19th -21st May 2014. The coordinator presented the MedSea basin checkpoint concept, general aims and challenge outputs, specifying the number of the Characteristics needed by each challenge (collected through the templates T1 & T2) according to the 4 different environmental matrices and human activities compartments.

7. List of Deliverables

Date of submission	Number	Title	Nature	Category	Responsible	Repository location (http://gnoo.bo.ingv.it/repository/medsea-ck-pt/)
M1: 3/Jan/2014	D10.1	Panel Terms of reference	Document	Internal	INGV	/WP10 - Organization of Panels /
16- 18/Oct/2013	D12.1	Kick-off meeting	Event	Required	INGV	/MEETINGS/Me dSea Check Point MEETINGS/01. KICK-OFF - Bologna - Oct. 2013/
M4: 3/Apr/2014	D9.2-Result	First version of the Portal containing preliminary information about project	Service	Required	CLS	/WP 9 - Website Development /D9.2/
M5: 3/May/2014	D9.1	Medsea service portal specification	Document	Internal	CLS	/WP 9 - Website Development /D9.1/
M6: 3/Jun/2014	D2.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	NKUA	/WP 2 - Challenge 1 - Windfarming siting /

Growth and innovation in ocean economy
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D12.2.1
Version: V5
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M6: 3/ Jun /2014	D3.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	HCMR	/WP 3 - Challenge 2 - Marine Protected Areas /
M6: 3/ Jun /2014	D4.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	INGV	/WP 4 - Challenge 3 - Oil Platform Leak /
M6: 3/ Jun /2014	D5.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	SOCIB	/WP 5 - Challenge 4 - Climate and Coastal Protection /Deliverables/
M6: 3/ Jun /2014	D6.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	CNR	/WP 6 - Challenge 5 - Fishery Management/
M6: 3/ Jun /2014	D7.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	Oceans-CAT	/WP 7 - Challenge 6 - Marine Environment/
M6: 3/ Jun /2014	D8.1	Methodology for classifying the existing upstream data according to challenge objectives	Document	Internal	HCMR	/WP 8 Challenge 7 - River Inputs/
M6: 3/ Jun /2014	D1.1	Methodology for classifying the existing upstream data according to Literature Survey	Document	Internal	IFREMER	/WP 1 - Literature Review
M6: 3/ Jun /2014	D1.2	Preliminary Literature survey report	Document	Internal	IFREMER	/WP 1 - Literature Review
M6: 3/ Jun /2014	D4.2	List of challenges outputs and the way to reference/ingest and access/share this information	Document	Internal	INGV	/WP 4 - Challenge 3 - Oil Platform Leak /

**Growth and innovation in ocean economy
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D12.2.1
Version: V5
Date: 04 06 2014

M6 continuous: 3/Jun/2014 continuous	D4.5-Result	Bulletin delivery	Service	Required	INGV	Service started
M6: 3/Jun/2014	D8.2	List of challenges outputs and the way to reference/ingest and access/share this information	Document	Internal	HCMR	/WP 8 Challenge 7 - River Inputs/
M6: 3/Jun/2014	D12.2.1-Result	Six-monthly Progress reports	Document	Required	INGV	/WP12 - Project Management/