



**GENERAL FISHERIES COMMISSION FOR  
THE MEDITERRANEAN  
COMMISSION GÉNÉRALE DES PÊCHES  
POUR LA MÉDITERRANÉE**



**SCIENTIFIC ADVISORY COMMITTEE (SAC)**

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**Summary of data collection gaps and needs of GFCM Members  
(outcomes of 2013 FWP questionnaires)**

## INTRODUCTION

1. This document was prepared by the GFCM Secretariat as a follow up of the conclusions and recommendations of the 14<sup>th</sup> session of the Subcommittee on Statistics and Information (Montenegro, February 2014). Among other issues, the SCSI stressed the need of identifying priority actions related to data collection in the GFCM area of competence aiming at improving data collection systems at regional and national level. In this regard, the document was finalized for consideration of the 16<sup>th</sup> session of the Scientific Advisory Committee (SAC) and could serve as a basis for further investigation in this field.

2. This document presents an excerpt from the analysis of the questionnaires as received by the GFCM Secretariat from national focal points (NFP) appointed by national authorities of each GFCM member for the activities related to data collection and management plans in 2013. In the context of the GFCM Framework programme (FWP), the survey was part of a series of coordinated actions to strengthen the GFCM framework for the collection and processing of data on fisheries.

3. The questionnaires aimed at collecting information on the status of implementation of data collection programmes in the Mediterranean and Black Sea countries and to assess their compatibility with current GFCM data requirements. At a later stage, the information provided could serve as a basis for the development of a future plan of action for specific technical assistance. The inputs were transmitted by NFPs through the use of an online survey released by the GFCM Secretariat. Its structure is reproduced in Appendix A.

4. The gathered information were presented and discussed during the following three workshops:

- Workshop on fisheries data collection and management plans in the Adriatic Sea, Split (Croatia) from 18 to 19 March 2013<sup>1</sup>;
- Subregional meeting on data collection for western, central and eastern Mediterranean, Frascati (Italy) from 25 to 27 March 2013<sup>2</sup>;

<sup>1</sup> [GFCM-Report-2013-DataCollectionMgmtPlans-Adriatic.pdf](#)

<sup>2</sup> [GFCM-Report-2013-DataCollection-WCE-Med.pdf](#)

- Workshop on fisheries data collection in the Black Sea, Varna (Bulgaria) from 22 to 23 April 2013<sup>3</sup>.

5. The elements emerging from the questionnaires as well as from the discussion during these workshops served as a basis for the development of the GFCM Data Collection Reference Framework (DCRF) for a compatible data collection programme in the GFCM area and its subregions, thus overcoming weaknesses and consolidating the strengths of the current GFCM data collection scheme (the final draft of the DCRF is available as document GFCM:SAC16/2014/3).

6. This document encompasses the replies received from Members, organized in a comparative way, and with particular focus on the following sections:

- Fishery data collection structure (national institutional framework)
- General fishery information and data collection system
  - Effort and landing data
  - Biological data and assessment
  - Economic and social data
- Fleet monitoring

7. All the answers transmitted by members within each section have been reorganized by subregion (Western, Central<sup>4</sup>, Adriatic<sup>4</sup>, Eastern<sup>4</sup> and Black Sea<sup>4</sup>) in order to facilitate the comparison of information among countries pertaining to the same areas (appendix A).

## **GAPS AND DIFFICULTIES**

8. The main gaps and difficulties arising from the replies of NFP were mainly related to technical, financial and human resources constraints, and in particular they referred to:

- Lack of sufficient dedicated personnel for the collection, aggregation and transmission of data;
- Institutional constrains (e.g. scarce internal coordination among institution for data collection and dissemination);
- Deficiency of qualified personnel;
- Low education level of fishermen;
- Decentralized data fisheries statistical system at national level;
- Lack of adequate control to assess IUU fishing;
- Problem of funding for fishery research programs (amount and timing of erogation);
- Difficulties in collecting socio-economic data on fleet;
- Absence of biological sampling and socio-economic surveys;
- High age of vessels;
- Not enough information for management purpose from fisheries data collection and analysis;
- Problems to deal with different requirements and format coming from different fisheries organizations.

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<sup>3</sup> [GFCM-Report-2013-DataCollection-BlackSea.pdf](#)

<sup>4</sup> The information of Italy and Turkey were reported for the countries in their whole and not by the two pertaining subregions, Central and Adriatic, Eastern and Black Sea respectively.

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## AREAS FOR POTENTIAL ACTIONS

9. On the basis of the identified gaps, some areas of potential actions were highlighted:
- Standardization of methodologies, at both national level and sub-regional level, for:
    - o Data collection,
    - o Data processing,
    - o Data analysis.
  
  - Training in fishery-related topics for fishermen, data collectors and managers on:
    - o Stock assessments data processing;
    - o Logbook;
    - o Socio-economic aspects;
    - o Small scale fishery data collection and management;
    - o Fishing techniques;
    - o Species identification;
    - o Design and management of fisheries databases;
    - o Software for processing fisheries data;
    - o Sampling regime for the collection of fisheries information dedicated to multispecies fisheries;
    - o Compilation and analysis of scientific, commercial and administrative data;
    - o Reading of otoliths;
    - o Fisheries statistics.
  
  - Biological sampling at subregional level;
  
  - Fisheries survey programmes on:
    - o Small scale fisheries;
    - o Discards data;
    - o Recreational fisheries;
    - o Socio-economic;
    - o Environmental data;
    - o Impact of fishery on marine mammals and sea turtles (by-catch);
    - o Selectivity of fishing gears;
    - o Energy efficiency of fishing vessels;
    - o Trawler (in addition to the already existing in order to cover different season);
    - o Bottom trawler;
    - o Recreational fisheries;
    - o Ichthyoplankton;
    - o Fish processing;
    - o Marketing of fisheries products.
  
  - Collaboration with non-GFCM members in the field of data collection.

## APPENDIX A

**EXCERPT FROM THE QUESTIONNAIRES ON NATIONAL DATA COLLECTION  
AND STATISTICAL SYSTEMS COMPILED BY NATIONAL FOCAL POINTS**

(original text as transmitted to the GFCM Secretariat)

**SECTION A - Fishery data collection structure**

A1 – National institutional framework

1) *Description of the Institution officially responsible for the overall fishery data collection in your country ("Fishery Data Collection Office")*

...

*Does this office collect all data related to fishery?*

<i>Adriatic</i>		<i>Black Sea</i>		<i>Central Mediterranean</i>		<i>Eastern Mediterranean</i>		<i>Western Mediterranean</i>	
<b>Albania</b>	Partly	<b>Romania</b>	Partly	<b>Libya</b>	Partly	<b>Egypt</b>	Partly	<b>Algeria</b>	Partly
<b>Croatia</b>	Partly	<b>Bulgaria</b>	Partly	<b>Malta</b>	Yes	<b>Cyprus</b>	Yes	<b>France</b>	Partly
<b>Italy</b>	Partly			<b>Tunisia</b>	Partly	<b>Greece</b>	Partly	<b>Morocco</b>	Partly
<b>Montenegro</b>	Partly	<b>Turkey</b>	Partly	<b>Italy</b>	Partly	<b>Israel</b>	Partly		
<b>Slovenia</b>	No					<b>Lebanon</b>	No		
						<b>Turkey</b>	Partly		

2) *Is an appropriate training in fishery-related topics available at national level? (Yes/no/partly)*

<i>Adriatic</i>		<i>Black Sea</i>		<i>Central Mediterranean</i>		<i>Eastern Mediterranean</i>		<i>Western Mediterranean</i>	
<b>Albania</b>	Partly	<b>Bulgaria</b>	No	<b>Libya</b>	Partly	<b>Egypt</b>	Yes	<b>Algeria</b>	Partly
<b>Croatia</b>	Partly	<b>Romania</b>	Partly	<b>Malta</b>	No	<b>Cyprus</b>	Partly	<b>France</b>	Partly
<b>Italy</b>	Yes	<b>Turkey</b>	Yes	<b>Tunisia</b>	Partly	<b>Greece</b>	Partly	<b>Morocco</b>	Partly
<b>Montenegro</b>	No			<b>Italy</b>	Yes	<b>Israel</b>	No	<b>Spain</b>	Yes
<b>Slovenia</b>	Partly							<b>Lebanon</b>	No

3) *If no or partly, please specify in which topic your country would need this training.*

*Adriatic*

<b>Albania</b>	It is necessary to establish the entire structure which start from data collectors to data processing in a way to flow those data to the proper unit in Fishery Directorate for different analyses
<b>Croatia</b>	Economic data; further training on stock assessment
<b>Montenegro</b>	Socio-economic data, Logbook data collection, Small scale fishery data collection and management, Data processing for stock assessment
<b>Slovenia</b>	Freshwater aquaculture, otholiths reading, genetics and stomach content analysis, reading acoustic survey outputs

*Black Sea*

<b>Bulgaria</b>	Methodology for the collection of economic data
<b>Romania</b>	Standardization at regional level and in conformity with the international practice of the methods and tools for sampling, processing, analysing and interpreting the data and information as well as the fish stock assessment

*Central Mediterranean*

<b>Libya</b>	Establish a network to facilitate data collection - Training the personnel for data collection and analysis - Stock assessment survey
<b>Malta</b>	Determination of biological variables (age, maturity, etc.); Sampling regimes for the collection of fisheries information; Basic and advanced stock assessments
<b>Tunisia</b>	Use of sampling concepts for the collection of fisheries data Creating and managing databases on fisheries

*Eastern Mediterranean*

<b>Egypt</b>	Fish species scientific classification
<b>Cyprus</b>	Stock assessment (advanced training)
<b>Israel</b>	Fishing gears
<b>Lebanon</b>	Fish identification, fish biology, data collection procedures, stock assessment, statistics

*Western Mediterranean*

<b>Algeria</b>	Operating software processing fisheries data – Fisheries techniques and technologies - Training on fisheries bio economy
<b>France</b>	Sampling regime for the collection of fisheries information dedicated to multispecies fisheries
<b>Morocco</b>	Compilation & analysis of scientific, commercial and administrative data
<b>Spain</b>	Improvement some tools of assessment methods, reading of otoliths of the new species, knowledge of statistics

**4) What should be further investigated?***Black Sea*

<b>Turkey</b>	Some of the fisheries data have been collected and studies have been done by several institutes but they do not produce enough information for management purpose
<b>Romania</b>	In Romania is only one marine research institute, untitled National Institute for Marine Research and Development (NIMRD) "Grigore Antipa" – Constanta. In the last 23 year, NIMRD Constantza doesn't receive from Government subvention for fishery research. All projects in the fishery field have been won by national or international competition. It is necessary that the funding of the fishery research programs must be in due time and with proper amounts; Also is necessary to extend of fisheries data collection Program with at sea surveys to collect eggs, larvae, juveniles and environmental conditions.

*Central Mediterranean*

<b>Tunisia</b>	Fishing techniques, including selective gear; Determination of the optimal fishing effort by fishery or stocks; Evaluation of certain marketable stocks of non-target species (demersal, echinoderms, etc.)
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*Eastern Mediterranean*

<b>Egypt</b>	There is a appropriate training in fishery-related topics available at national level except the topic of fish species scientific classification
<b>Turkey</b>	Some of the fisheries data have been collected and studies have been done by several institutes but they do not produce enough information for management purpose
<b>Lebanon</b>	Catch assessment, stock assessment, vessel register, socio-economic data, fleet data

*Western Mediterranean*

<b>Algeria</b>	Establishing a permanent system for collecting biological data
<b>Spain</b>	Still there is not complete and sound scientific information for all the species and/or fisheries, as for the moment the specialists of IEO work with the main species and fisheries (...). Knowledge on some other species or fisheries is lower

**SECTION B - Fishery data collection programme***1) Does your country collect data on fisheries through a data collection programme?**Adriatic*

<b>Albania</b>	Partly	FAO AdriaMed Project
<b>Croatia</b>	Yes	FAO AdriaMed Project and DCF (Reg CE 199/2008)
<b>Italy</b>	Yes	DCF (Reg CE 199/2008)
<b>Montenegro</b>	Partly	FAO AdriaMed Project
<b>Slovenia</b>	Yes	DCF (Reg CE 199/2008)

*Black Sea*

<b>Bulgaria</b>	Yes	DCF EU Reg. 199/2008
<b>Romania</b>	Yes	DCF EU Reg. 199/2008
<b>Turkey</b>	Partly	Turkstat Fishery Statistic + FAO Eastmed Project

*Central Mediterranean*

<b>Libya</b>	Partly	Support received from FAO-MedSudMed and Copemed sub-regional projects
<b>Malta</b>	Yes	DCF (Reg CE 199/2008) and support received from FAO-MedSudMed sub-regional project
<b>Tunisia</b>	Partly	
<b>Italy</b>	Yes	DCF (Reg CE 199/2008)

*Eastern Mediterranean*

<b>Egypt</b>	Yes	Periodical data collection + FAO Eastmed Project
<b>Cyprus</b>	Yes	DCF EU Reg. 199/2008
<b>Greece</b>	No	Data collection programme not running since 2009
<b>Lebanon</b>	No	
<b>Turkey</b>	Partly	Turkstat Fishery Statistic + FAO Eastmed Project

*Western Mediterranean*

<b>Algeria</b>	Yes	A pilot project for collecting statistical databases on sample surveys (production / effort) under the framework of cooperation between the FAO and Algeria.
<b>France</b>	Yes	DCF (Reg. CE 199/2008)
<b>Morocco</b>	Yes	Catch certification: survey and monitoring of landing catch and effort
<b>Spain</b>	Yes	DCF (Reg. CE 199/2008)

## 2) Does your data collection programme incorporate the following aspects?

	Adriatic					Black Sea		
	Albania	Croatia	Italy	Montenegro	Slovenia	Bulgaria	Romania	Turkey
<i>Biology</i>	Partly	Yes	Yes	Yes	Yes	Yes	Yes	Partly
<i>Ecology</i>	No	Yes	Partly	Yes	Yes	Partly	Partly	No
<i>Technology</i>	No	Yes	Yes	No	Yes	Partly	Yes	Yes
<i>Environmental science</i>	No	Partly	Yes	Partly	Yes	No	No	No
<i>Economics</i>	Partly	Yes	Partly	Partly	Yes	Yes	Yes	Partly
<i>Social science</i>	No	Partly	Partly	Partly	Yes	Yes	Partly	Partly

Western Mediterranean				Central Mediterranean				Eastern Mediterranean				
Algeria	France	Morocco	Spain	Libya	Malta	Tunisia	Italy	Egypt	Cyprus	Greece	Lebanon	Turkey
No	Yes	Partly	Yes	Partly	Yes	No	Yes	Yes	Yes	Yes	No	Partly
No	Partly		Partly	Partly	Yes	No	Partly	No			No	No
Partly	No	Partly	No	No	Yes	Partly	Yes	Partly		Partly	No	Yes
No	Partly		Partly	Partly	Yes	No	Partly	No	Partly	Partly	No	No
Partly	Yes	Partly	Yes	Partly	Yes	Partly	Yes	Partly	Yes	Partly	No	Partly
Partly	No		Partly	Partly	Yes	No	Partly	Partly			No	Partly

## 3) Which data are currently collected within your fishery data collection programme (rate value from 0 to 5)?

	Adriatic					Black Sea		
	Albania	Croatia	Montenegro	Slovenia	Italy	Bulgaria	Romania	Turkey
<i>Biological data</i>	1	5	4	5	5	4	4	2
<i>CPUE data</i>	1	5	5	5	5	3	3	4
<i>Discards data</i>	0	3	3	5	3		3	
<i>Economic data fleet</i>	3	4	NA	5	5	5	3	
<i>Economic data landing</i>	3	5	NA	5	5	5	3	
<i>Effort data</i>	1	5	5	5	5	5	3	5
<i>Environmental data</i>	1	3	3	5	3			
<i>Fish processing</i>	2	3	NA	5	3	5	4	4
<i>Fishing gears</i>	3	5	5	5	4	4	4	
<i>Fleet data</i>	4	5	5	5	5	5	4	
<i>Landing data</i>	3	5	5	5	5	5	3	3
<i>Recreational fisheries</i>	NA	5	1	5	3			
<i>Social data</i>	1	4	NA	5	3	4	3	
<i>VMS data</i>	1	5	5	5		4	5	2

<i>Eastern Mediterranean</i>				<i>Central Mediterranean</i>				<i>Western Mediterranean</i>			
<b>Egypt</b>	<b>Cyprus</b>	<b>Turkey</b>	<b>Greece (until 2008)</b>	<b>Libya</b>	<b>Malta</b>	<b>Italy</b>	<b>Tunisia</b>	<b>Algeria</b>	<b>France</b>	<b>Morocco</b>	<b>Spain</b>
3	5	2	5	2	5	5			5	3	5
3	4	4	5	4	5	5	2	2	4	3	
	5		5		2	3			3		3
5	4		3	4	5	5	2		5		5
3	4		3	4	5	5	3	3	4	3	5
	4	5	5	3	5	5	3	3	4	3	3
3	2		2	3	2	3			2		3
2	4	4	5		2	3	2	1	5		5
5	4			3	4	4	2	4	5	3	3
5	5		5	4	5	5	4	4	5	5	5
4	4	3	5	4	5	5	4	4	5		5
3						3		1	3		4
2					5	3		2			4
	5	2	5 (up to now)		5		1		5	4	

4) *Are there any fishery surveys programmes currently in place in your country? [questionnaires (Q), logbook (L), sales notes (SN), sampling programme (SP), census (C), fleet register (F), interview (I), licences (LI), statistical unit (SU), scientific survey (S), pilot study (P), experimental survey (E), etc.]*

	<i>Catch data</i>	<i>Landing data</i>	<i>Economic data on landing</i>	<i>Biological data</i>	<i>Fleet composition</i>	<i>Effort data</i>
<i>Adriatic</i>						
<b>Montenegro</b>	I	L	-	S	LI	L
<b>Croatia</b>	L	L	L, SN	S	L, LI	L
<b>Albania</b>	I, SU	I, SU	I, SU	I, SU	SU	-
<b>Italy</b>	SP	SP	SP	SP, S	C	SP
<i>Black Sea</i>						
<b>Bulgaria</b>	L	L	Q	SP	F	F, C
<b>Romania</b>	L, Q	L, Q, SN	Q, LI	SP, S	L, Q, LI	L, Q
<b>Turkey</b>	Q	SN, LI, SP	-	SP	-	F, LI
<i>Central Mediterranean</i>						
<b>Malta</b>	SP	LI, Q		SP	F	LI, Q
<b>Italy</b>	SP	SP	SP	SP, S	C	SP
<b>Tunisia</b>	L, SN	L	L, SN	SP	F	Q
<b>Libya</b>	-	C, SN		-	F	-
<i>Eastern Mediterranean</i>						
<b>Turkey</b>	Q	SN, LI, SP		SP	-	F, LI
<b>Cyprus</b>	L, SP	L SP	Q, I	S	L	L, SP
<b>Egypt</b>	-	SN, LI, F	Q	SP	F	-
<b>Greece</b>	-	-	-	-	F	*



	<i>Catch data</i>	<i>Landing data</i>	<i>Economic data on landing</i>	<i>Biological data</i>	<i>Fleet composition</i>	<i>Effort data</i>
<i>Western Mediterranean</i>						
<b>Algeria</b>	C	C	C, I	-	F	C
<b>France</b>	L, SP, SN	L, SP, SN	SP, SN	S, SP	C	L, SP, SN
<b>Spain</b>	-	SN	SN	SP	F	SN
<b>Morocco</b>	-	-	C, LI, SN	P, E, SP, Q	-	LI, F

\* Greece: Fishing effort estimates for trawlers & purse seines using VMS data

5) *Do you believe that all the data collected through the current surveys serve the national needs properly? (yes/no/partly)*

<i>Adriatic</i>		<i>Black Sea</i>		<i>Central Mediterranean</i>		<i>Eastern Mediterranean</i>		<i>Western Mediterranean</i>	
<b>Montenegro</b>	Partly	<b>Bulgaria</b>	Yes	<b>Malta</b>	Partly	<b>Turkey</b>	Partly	<b>Algeria</b>	Partly
<b>Croatia</b>	Partly	<b>Romania</b>	Yes	<b>Italy</b>	Yes	<b>Cyprus</b>	No	<b>France</b>	Partly
<b>Albania</b>	No	<b>Turkey</b>	Partly	<b>Tunisia</b>	Partly	<b>Egypt</b>	Yes	<b>Spain</b>	Yes
<b>Italy</b>	Yes			<b>Libya</b>	Partly	<b>Greece</b>	Yes*	<b>Morocco</b>	Partly
<b>Slovenia</b>	Partly					<b>Lebanon</b>	Yes		

\* Greece: for the importance of collected data

6) *Do you think that other surveys would need to be better identified?*

*Adriatic*

<b>Albania</b>	Small Scale Fisheries, Discards data, Recreational fisheries, Social data, reliable data
<b>Croatia</b>	1.economic data; 2.Environmental data - higher coverage; 3.fish processing data
<b>Montenegro</b>	Small scale fishery survey; Survey on the impact of fishery on marine mammals and sea turtles (by-catch); Socio-economic survey of the fishery sector; Survey on the impact of trawl fishery on benthic biocenosis (Posidonia, coral riffs)
<b>Slovenia</b>	Selectivity of fishing gears; Energy efficiency of fishing vessels
<b>Italy</b>	A second demersal survey to better identified the changes in the seasonality composition of the demersal assemblages (i.e. demographic structure; biodiversity)

*Black Sea*

<b>Bulgaria</b>	-
<b>Romania</b>	Extension of fisheries data collection Program with at sea surveys to collect eggs, larvae and juveniles; Surveys at sea in May, June/July and August/September for eggs; Surveys at sea in May and September for juveniles; The fisheries research must be completed with the monitoring of the environmental conditions. Correlate the surveys at sea with monitoring of environment conditions.
<b>Turkey</b>	Biological; Discard: Effort

*Central Mediterranean*

<b>Libya</b>	Bottom trawl; CPUE
<b>Malta</b>	While the data collected is enough it needs to be extended to other fisheries/stock
<b>Tunisia</b>	1) Catch / effort for small scale / inshore fisheries (generalizations from sampling procedures all along the coast) 2) Fleet (characteristics and economic data) 3) Recreational fishing
<b>Italy</b>	A second demersal survey to better identified the changes in the seasonality composition of the demersal assemblages (i.e. demographic structure; biodiversity)

*Eastern Mediterranean*

<b>Egypt</b>	Data collection of CPUE; bycatch; socioeconomic
<b>Cyprus</b>	-
<b>Israel</b>	-
<b>Lebanon</b>	Catch assessment; stock assessment; socio-economic; environmental data; fleet data; vessel register; CPUE; biological data; by catch data; rec. fishery; scientific surveys; fish processing
<b>Turkey</b>	Biological; Discard: Effort

*Western Mediterranean*

<b>Algeria</b>	Survey on the costs of vessel exploitation; Survey on the marketing of fisheries products; Survey on fishing gear; Survey of macroeconomic data
<b>France</b>	No
<b>Morocco</b>	Identification of some species
<b>Spain</b>	No

B1 – Effort and landing data

7) *Does your country routinely collect effort data?*

<i>Adriatic</i>		<i>Black Sea</i>		<i>Central Med</i>		<i>Eastern Med</i>		<i>Western Med</i>	
<b>Montenegro</b>	Partly	<b>Bulgaria</b>	Yes	<b>Malta</b>	Partly	<b>Turkey</b>	Partly	<b>Algeria</b>	Yes
<b>Croatia</b>	Yes	<b>Romania</b>	Yes	<b>Italy</b>	Yes	<b>Cyprus</b>	Yes	<b>France</b>	Yes
<b>Albania</b>	Partly	<b>Turkey</b>	Partly	<b>Tunisia</b>	Partly	<b>Egypt</b>	Yes	<b>Spain</b>	Yes
<b>Italy</b>	Yes			<b>Libya</b>	Partly	<b>Greece</b>	No since 2009	<b>Morocco</b>	Yes
<b>Slovenia</b>	Yes					<b>Lebanon</b>	No		

8) *If yes or partly, please provide the list of effort variables collected:*

<i>Gear</i>	<i>Variable</i>	<i>Adriatic</i>	<i>Black Sea</i>	<i>Central Med</i>	<i>Eastern Med</i>	<i>Western Med</i>
<b>Dredge (for molluscs)</b>	<i>Dredged bottom surface</i>	Croatia				Morocco
<b>Trawl (including dredges for flatfishes)</b>	<i>GT*days</i>	Albania; Croatia; Montenegro; Slovenia; Italy		Italy; Malta; Tunisia	Cyprus; Egypt; Turkey	France; Morocco; Spain
<b>Trawl (including dredges for flatfishes)</b>	<i>GT*hours</i>	Montenegro; Slovenia; Italy	Bulgaria; Romania; Turkey	Italy; Malta	Cyprus; Turkey	Spain
<b>Trawl (including dredges for flatfishes)</b>	<i>KW*days</i>	Montenegro; Slovenia; Italy	Bulgaria; Romania; Turkey	Italy; Malta	Cyprus; Turkey	Spain
<b>Nets</b>	<i>Net length * days</i>		Bulgaria; Romania; Turkey	Malta	Cyprus; Turkey	France; Morocco
<b>Nets</b>	<i>Surface*days</i>		Bulgaria	Malta		

<i>Gear</i>	<i>Variable</i>	<i>Adriatic</i>	<i>Black Sea</i>	<i>Central Med</i>	<i>Eastern Med</i>	<i>Western Med</i>
<b>Long lines</b>	<i>Number of hooks * days</i>	Italy	Bulgaria; Romania	Italy; Malta	Cyprus	France;
<b>Long lines</b>	<i>Number of hooks * hours</i>	Italy	Bulgaria; Romania	Italy; Malta	Cyprus	Morocco
<b>Long lines</b>	<i>Number of longline units * days/hours</i>			Italy; Malta	Cyprus; Egypt	Spain
<b>Traps</b>	<i>Number of traps * days</i>		Bulgaria; Romania	Italy; Malta		France; Morocco; Spain
<b>Purse seiners</b>	<i>GT*Fishing sets/GT*days<sup>1</sup></i>	Albania; Montenegro; Slovenia; Croatia <sup>1</sup>	Bulgaria	Libya; Malta; Tunisia	Egypt; Turkey	Morocco
<b>Purse seiners</b>	<i>Length of the net*Fishing sets</i>	Albania; Slovenia; Italy	Bulgaria	Libya; Malta	Turkey	
<b>Purse seine/FAD</b>	<i>Number of FADs * Number of trips</i>			Malta	Cyprus; Egypt	Morocco; Spain

9) *Does your country collect landing data for all the commercial species? (yes/no/partly)*

*Adriatic*

<b>Albania</b>	Yes	The system of data collecting is applicable only for landings and for few species. In near future will be applicative a new system
<b>Croatia</b>	Yes	New programme calculates the main species as per métier
<b>Italy</b>	Yes	
<b>Montenegro</b>	Yes	System will be fully operated in 2014
<b>Slovenia</b>	Yes	

*Black Sea*

<b>Bulgaria</b>	Yes	
<b>Romania</b>	Yes	
<b>Turkey</b>	Partly	

*Central Mediterranean*

<b>Libya</b>	Partly	Thresholds are identified according to the technical regulation of the fishing law (14/89) Fishing Law No. 14/89 and his executive and technical regulations needs to be update. No commitment to use the logbook and no commitment to fill existing technical regulation forms.
<b>Malta</b>	Yes	
<b>Tunisia</b>	Yes	
<b>Italy</b>	Yes	

*Eastern Mediterranean*

<b>Egypt</b>	Yes	
<b>Cyprus</b>	Yes	
<b>Greece</b>	No since 2009	
<b>Lebanon</b>	No	
<b>Turkey</b>	Partly	

*Western Mediterranean*

<b>Algeria</b>	Yes	Landings by species carried out as per métier (trawler, sardine and small business).
<b>France</b>	Yes	Data processed from logbooks, sales notes and fishing notes. Sample surveys for vessels under 12m.
<b>Morocco</b>	Yes	
<b>Spain</b>	Yes	Data concerning landing and effort is actively compiled. It must be highlighted that it is compiled according to strict EU standards. FAO and EU standards, formats, and type of data should be aligned.

**10) Information on landing data [Frequency: M (monthly); Q (quarterly); A (annually) Data source: questionnaires, logbook, sales notes, etc.]:**

<i>Adriatic</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Albania</b>	Volume of landings per species	M	By gear	Q, L
	Prices per species	M	By gear	L
<b>Croatia</b>	Volume of landings per species	A	By gear	L
	Prices per species	M	By gear	SN
<b>Italy</b>	Volume of landings per species	M	By fleet segment and gear	Q
	Prices per species	M	By fleet segment and gear	Q
<b>Montenegro</b>	Volume of landings per species			
	Prices per species			
<b>Slovenia</b>	Volume of landings per species	M	By fleet segment and gear	L
	Prices per species	A	By fleet segment and gear	SN

<i>Black Sea</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Bulgaria</b>	Volume of landings per species	A	By gear	L
	Prices per species	A	By fleet segment	S
<b>Romania</b>	Volume of landings per species	M	By fleet segment	SN
	Prices per species	A	By fleet segment	SN
<b>Turkey</b>	Volume of landings per species	M	By fleet segment	Q
	Prices per species	M	By fleet segment	Q

<i>Central Med</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Italy</b>	Volume of landings per species	M	By fleet segment and by gear	Q
	Prices per species	M	By fleet segment and by gear	Q

<i>Central Med</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Libya</b>	Volume of landings per species	Q	By fleet segment	C
	Prices per species	M	By fleet segment	SN
<b>Malta</b>	Volume of landings per species	M	By fleet segment and by gear	L, Q
	Prices per species	M	By fleet segment and by gear	Direct sales, Market sales
<b>Tunisia</b>	Volume of landings per species	M	By fishery, by port and by species	L, Findings of landings, Coupons for transportation of fishery products
	Prices per species	M	By fishery, by port and by group of species	Auction (billing)

<i>Eastern Med</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Cyprus</b>	Volume of landings per species	M	By fleet segment	L
	Prices per species	M	By fleet segment	SN
<b>Egypt</b>	Volume of landings per species	M	By fleet segment	L
	Prices per species	M		O
<b>Greece</b>	Volume of landings per species	Q	By fleet segment	SP
	Prices per species	A	By fleet segment	SP
<b>Turkey</b>	Volume of landings per species	M	By fleet segment	Q
	Prices per species	M	By fleet segment	Q

<i>Western Med</i>		<b>Frequency</b>	<b>Disaggregation</b>	<b>Data source</b>
<b>Algeria</b>	Volume of landings per species	M	By fleet segment	C
	Prices per species	M	By fleet segment	C
<b>France</b>	Volume of landings per species	M	By fleet segment	L
<b>Morocco</b>	Volume of landings per species	M	By fleet segment	SN
	Prices per species	M	By fleet segment	SN
<b>Spain</b>	Volume of landings per species	M	By fleet segment	L
	Prices per species			

11) Please specify the number of fisheries stock assessments carried out in your country over the last 3 years:

	Adriatic				Black Sea		Central Med			Eastern Med			Western Med			
	Italy	Slovenia	Croatia	Montenegro	Bulgaria	Romania	Italy	Malta	Tunisia	Egypt	Cyprus	Greece	Algeria	France	Morocco	Spain
<i>Total number of stocks for which an assessment has been carried out</i>	37	3	8	6	2	4	37	9	23	8	4	14	2	5	2	22
<i>Potential number of stocks in your country</i>	87		15	15	6	10	87		>3 0	>5 0		15			5	41
<i>Percentage of stocks covered by each assessment</i>	42 %		50 %	50 %	33 %	>5 0%	42 %			15	6			>5 0	>5 0	32
<i>How many assessments have been presented to GFCM?</i>	25	3	4	4	1	2	25	16	3	2	10			3	2	41
<i>How many assessments have been validated?</i>	25	3	4	2	7	2	25	16	2	2	6			3	2	
<i>How many assessments have been presented to other organizations/meetings?</i>	22	3	4		7	4	22	7	23		2	10		5	2	37

12) Does your country routinely carry out scientific/experimental surveys at sea to collect biological and environmental information?

					<i>Environmental data</i>
<i>Adriatic</i>	<b>Albania</b>	MEDITS	Acoustic + Ichthyoplanktonic-survey		NA
	<b>Croatia</b>	MEDITS	MEDIAS	SOLEMON	Yes
	<b>Italy</b>	MEDITS	MEDIAS	SOLEMON	Yes
	<b>Montenegro</b>	MEDITS	MEDIAS		Partly
	<b>Slovenia</b>	MEDITS	MEDIAS		No
<i>Black Sea</i>	<b>Bulgaria</b>	SBTS	ABTS	AHATS	No
	<b>Romania</b>	PTS	DTS		No
	<b>Turkey</b>	Anchovy	ErDEM		Yes
<i>Central Med</i>	<b>Libya</b>	No			NA
	<b>Malta</b>	MEDITS	MEDIAS		Partly
	<b>Tunisia</b>	Yes			Yes
	<b>Italy</b>	MEDITS	MEDIAS	Solemon	Yes
<i>Eastern Med</i>	<b>Cyprus</b>	MEDITS	Monitoring Programme under the Water Frame Directive (200/60/EC)		Yes

	<b>Turkey</b>	Anchovy	ErDEM		Yes
	<b>Egypt</b>	No	Scientific surveys by Res. Dept. of GAFRD		
	<b>Greece</b>	No	sampling programme (no data since 2009)		
	<b>Lebanon</b>	No			
<i>Western Med</i>	<b>Algeria</b>	ALPAL	ALDEM	No	Yes
	<b>France</b>	MEDITS	PELGAS (MEDIAS)		Partly
	<b>Morocco</b>		Survey of shells		Yes
	<b>Spain</b>	MEDITS	MEDIAS		Partly

B3 - Economic and social data

13) Does your country routinely collect economic and social data? (yes/no/partly)

<i>Adriatic</i>		<i>Black Sea</i>		<i>Central Med</i>		<i>Eastern Med</i>		<i>Western Med</i>	
<b>Montenegro</b>	Partly	<b>Bulgaria</b>	Yes	<b>Malta</b>	Yes	<b>Turkey</b>	Yes	<b>Algeria</b>	Partly
<b>Croatia</b>	Partly	<b>Romania</b>	Yes	<b>Italy</b>	Yes	<b>Cyprus</b>	Yes	<b>France</b>	Yes
<b>Albania</b>	Partly	<b>Turkey</b>	Yes	<b>Tunisia</b>	Partly	<b>Egypt</b>	No	<b>Spain</b>	Partly
<b>Italy</b>	Yes			<b>Libya</b>	Partly	<b>Greece</b>	No since 2009	<b>Morocco</b>	Yes
<b>Slovenia</b>	Yes					<b>Lebanon</b>	No		

14) If yes or partly, please list them:

	<i>Adriatic</i>	<i>Black Sea</i>	<i>Central Med</i>	<i>Eastern Med</i>	<i>Western Med</i>
<b>Days at sea</b>	Croatia, Slovenia, Montenegro, Italy, Albania		Italy, Libya, Malta, Tunisia	Cyprus, Greece*, Turkey	Algeria, France, Morocco
<b>Fishing hours</b>	Slovenia, Montenegro, Italy		Italy, Libya, Malta	Cyprus, Turkey	France, Morocco
<b>Main gear used</b>	Croatia, Slovenia, Montenegro, Italy, Albania		Italy, Libya, Malta	Cyprus	Algeria, France, Morocco
<b>Engaged crew, total number</b>	Croatia, Slovenia, Italy		Italy, Libya, Malta, Tunisia	Cyprus, Greece, Turkey	Algeria, France, Morocco, Spain
<b>Engaged crew, Part time</b>	Croatia, Slovenia, Italy		Italy, Libya, Malta	Cyprus, Turkey	Algeria, France, Morocco, Spain
<b>Engaged crew, Full time</b>	Slovenia, Italy		Italy, Libya, Malta, Tunisia	Cyprus, Turkey	Algeria, France, Morocco, Spain
<b>Age of the crew</b>				Turkey	Algeria, Morocco



	<i>Adriatic</i>	<i>Black Sea</i>	<i>Central Med</i>	<i>Eastern Med</i>	<i>Western Med</i>
<b>Education level of the crew</b>			Libya	Turkey	Algeria, Morocco
<b>Household members engaged in fishing</b>					Morocco
<b>Wages and salaries of crew</b>	Slovenia, Italy	Bulgaria, Romania, Turkey	Italy, Libya, Malta	Cyprus, Greece, Turkey	France, Morocco, Spain
<b>Gross value of landing</b>	Croatia, Slovenia, Italy, Albania		Italy, Malta, Tunisia	Cyprus, Greece, Turkey	Algeria, France, Morocco, Spain
<b>Energy cost (fuel and oil)</b>	Slovenia, Italy, Albania	Bulgaria, Romania, Turkey	Italy, Libya, Malta, Tunisia (fuel)	Cyprus, Greece, Turkey	France, Morocco, Spain
<b>Repair and maintenance costs</b>	Slovenia, Italy	Bulgaria, Romania, Turkey	Italy, Libya, Malta	Cyprus, Greece, Turkey	France, Morocco, Spain
<b>Commercial costs</b>	Slovenia, Italy	Bulgaria, Romania, Turkey	Italy, Libya, Malta	Cyprus, Turkey	France, Morocco, Spain
<b>Other operational costs</b>	Slovenia, Italy	Bulgaria	Italy, Malta	Cyprus	France, Spain
<b>Fixed costs</b>	Slovenia, Italy	Bulgaria, Romania	Italy, Libya, Malta	Cyprus, Greece	France, Morocco, Spain
<b>Investments in physical capital</b>	Slovenia, Italy	Bulgaria, Romania	Italy, Malta	Cyprus	France, Morocco, Spain
<b>Depreciation costs</b>	Slovenia, Italy	Bulgaria	Italy, Libya, Malta	Cyprus	Morocco, Spain
<b>Volume of landings per species</b>	Croatia, Slovenia, Italy, Albania	Bulgaria, Romania, Turkey	Italy, Malta, Tunisia	Cyprus, Greece, Turkey	Algeria, France, Morocco
<b>Value of landings per species</b>	Croatia, Slovenia, Italy, Albania	Bulgaria, Romania, Turkey	Italy, Malta	Cyprus, Greece, Turkey	Algeria, France, Morocco
<b>Average price per species</b>	Croatia, Slovenia, Italy		Italy, Libya, Malta, Tunisia	Cyprus, Turkey	Algeria, France, Morocco

\* *Greece: data collected in DCR framework only*

15) *Type of surveys carried out [Temporal disaggregation: M (month); Q (quarter); Y (year); Type of data collection: census, sample survey; Data source: questionnaires (Q), logbook (L), sales notes (SN), etc.; Fleet segment coverage: all segments, main segments, few segments]*

*Adriatic*

<b>Country</b>	<b>Variable</b>	<b>Temporal</b>	<b>Type of data collection</b>	<b>Source</b>	<b>Fleet coverage</b>
<b>Italy</b>	Effort	M	Sample survey	Q	all segments
	Social data	Y	Sample survey	Q	all segments
	Income	Y	Sample survey	Q	all segments
	Costs	Y	Sample survey	Q	all segments
	Production per species	M	Sample survey	Q	Main segments



Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
<i>Montenegro</i>	Effort	M	Census	L	all segments
<i>Slovenia</i>	Effort	Y	Census	L	all segments
	Social data	Y	Census	Q	all segments
	Income	Y	Census	Q	all segments
	Costs	Y	Census	Q	all segments
	Production per species	Y	Census	Q	main segments

*Black Sea*

Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
<i>Bulgaria</i>	Effort	Y	Census	L	All segments
	Social data	Y	Census	Q	All segments
	Income	Y	Census	Q	All segments
	Costs	Y	Census	Q	All segments
	Production per species	Y	Census	L	All segments
<i>Romania</i>	Effort	M	Census	L	All segments
	Social data	M	Census	Q	All segments
	Income	M	Census	SN	All segments
	Costs	M	Census	Q	All segments
	Production per species	M	Census	Q	All segments
<i>Turkey</i>	Effort	M	Sample Survey	Q	All segments
	Social data	Y	Sample Survey		All segments
	Income	Y	Sample Survey	Q	All segments
	Costs	Y	Sample Survey	Q	All segments
	Production per species	M	Sample Survey	Q	All segments

*Central Mediterranean*

Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
<i>Italy</i>	Effort	M	Sample Survey	Q	All segments
	Income	Y	Sample Survey	Q	All segments
	Costs	Y	Sample Survey	Q	All segments
	Production per species	M	Sample Survey	Q	Main segments
<i>Libya</i>	Effort	Q	Census	F	All segments
	Social data	Q	Sample Survey	SP	Few segments
	Income	Q	Sample Survey	SP	Few segments
	Costs	Q	Sample Survey	SP	Few segments
	Production per species	Q	Census	C	All segments
<i>Malta</i>	Effort				
	Social data	Y	Sample Survey	Q	Main segments
	Income				
	Costs				

Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
	Production per species				
<i>Tunisia</i>	Effort	M	Sample Survey	L, SN	Main segments
	Social data				
	Income				
	Costs				
	Production per species	M	Sample Survey	L, SN	Main segments

*Eastern Mediterranean*

Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
<i>Cyprus</i>	Effort	M	Sample Survey	L	All segments
	Social data	Y	Sample Survey	Q	All segments
	Income	Y	Sample Survey	Q	All segments
	Costs	Y	Sample Survey	Q	All segments
	Production per species	M	Sample Survey	SP	All segments
<i>Greece (DCR only)</i>	Effort	M	Sample Survey	SP	All segments
	Social data	Y	Sample Survey	SP	All segments
	Income	Y	Sample Survey	SP	All segments
	Costs	Y	Sample Survey	SP	All segments
	Production per species	M	Sample Survey	SP	All segments
<i>Lebanon</i>	Effort				
	Social data	Y	Sample Survey		
	Income	Y	Sample Survey	Q	
	Costs	Y	Sample Survey	Q	
	Production per species				
<i>Turkey</i>	Effort	M	Sample Survey	Q	All segments
	Social data	Y	Sample Survey		All segments
	Income	Y	Sample Survey	Q	All segments
	Costs	Y	Sample Survey	Q	All segments
	Production per species	M	Sample Survey	Q	All segments

*Western Mediterranean*

Country	Variable	Temporal	Type of data collection	Source	Fleet coverage
<i>Algeria</i>	Effort	M	Census	C	Main segments
	Social data	M	Census	F	all segments
	Production per species	M	Census	C	all segments
<i>France</i>	Effort	M	Census	L	All segments
	Income	Y	Sample Survey	SP	All segments
	Costs	Y	Sample Survey	SP	All segments
	Production per species	M	Census	L	Main segments

<i>Morocco</i>	Effort	M	Census	LI	All segments
	Social data	M	Census	C	Main segments
	Income	M	Sample Survey	SN	Main segments
	Costs	M	Sample Survey	Q	Main segments
	Production per species	M	Census	SN	Main segments
<i>Spain</i>	Social data	Y	Sample survey	Q	
	Income	Y	Sample survey	Q	
	Costs	Y	Sample survey	Q	

#### General information

SPAIN: Economic data of the Mediterranean request (Task 1) does not conform to the stratifications of community "data Collection" regulations: Regulation (EC) N° 1543/2000; Regulation (EC) No. 199/2008 in the following aspects:

- 1) Stratification of the fleet which is ordered in the GFCM, regarding gear, size, length and areas GSA, is more disaggregated than collecting in the EU regulations, mentioned above. This would imply a new survey design of marine fisheries, made in Spain, and in many segments it would be necessary an exhaustive study of all elements of the population research, which is excessively fractionated.
- (2) The survey costs would increase, without being guaranteed the quality of the survey. It would be very likely an increase in the lack of response of the reporting units.

### SECTION C - Fleet monitoring

1) *Is the logbook the primary source for the following information?[yes (Y), partly (P), no (N)]*

	<i>Adriatic</i>					<i>Black Sea</i>			<i>Central Med</i>				<i>Eastern Med</i>					<i>Western Med</i>				
	<i>Albania</i>	<i>Croatia</i>	<i>Italy</i>	<i>Montenegro</i>	<i>Slovenia</i>	<i>Bulgaria</i>	<i>Romania</i>	<i>Turkey</i>	<i>Italy</i>	<i>Libya</i>	<i>Malta</i>	<i>Tunisia</i>	<i>Egypt</i>	<i>Cyprus</i>	<i>Greece</i>	<i>Lebanon</i>	<i>Turkey</i>	<i>Algeria</i>	<i>France</i>	<i>Morocco</i>	<i>Spain</i>	
<i>Fishing gear type</i>	Y	Y	P	Y	Y	Y	P	P	P	N	P	P	Y	P	N	N	P	N	P	P	P	P
<i>Time of fishing</i>	Y	Y	Y	Y	Y	Y	P	P	Y	N	P	P	P	P	N	N	P	N	P	P	P	N
<i>Fishing area</i>	Y	Y	Y	Y	Y	Y	P	P	Y	N	P	P	P	P	N	N	P	N	P	P	P	P
<i>Number of fishing operations</i>	Y	Y	P	Y	Y	Y	P	P	P	N	P	N	N	P	N	N	P	N	P	Y	Y	Y
<i>Effort</i>	Y	Y	P	Y	Y	Y	P	P	P	N	P	P	N	P	N	N	P	N	P	P	P	P
<i>Landing by species</i>	Y	Y	P	Y	Y	Y	P	P	P	N	P	P	Y	P	N	N	P	N	P	P	P	P
<i>Total landing</i>	Y	Y	P	Y	Y	Y	P	P	P	N	Y	P	Y	P	N	N	P	N	P	P	P	P

- 2) **Countries integrate the information coming from the logbook with:**  
 [questionnaires (Q), sales notes (SN), sampling programme (SP), census (C), fleet register (F), interview (I), licences (LI), statistical unit (SU), scientific survey (S), pilot study (P), experimental survey (E), etc.]

<i>Black Sea</i>	
<b>Romania</b>	Q, C, SN
<b>Turkey</b>	Q

<i>Central Mediterranean</i>	
<b>Malta</b>	Q
<b>Italy</b>	SP, F, LI
<b>Libya</b>	SP, C

<i>Eastern Mediterranean</i>	
<b>Turkey</b>	Q
<b>Cyprus</b>	SP
<b>Egypt</b>	Q
<b>Greece</b>	SP
<b>Lebanon</b>	C

<i>Western Mediterranean</i>	
<b>Algeria</b>	C
<b>France</b>	S, SP
<b>Spain</b>	F, VMS, SN
<b>Morocco</b>	LI, SN, F, S

- 3) **The fishery data collected through the logbook can be considered as:**

*Adriatic*

	<b>Albania</b>	<b>Croatia</b>	<b>Italy</b>	<b>Montenegro</b>	<b>Slovenia</b>
<b>Reliable</b>	Partly	Partly	Partly	Partly	Yes
<b>Complete</b>	Partly	Partly	Partly	Partly	Yes
<b>Relevant</b>	Partly	Yes	Partly	Partly	Yes

**Montenegro:** lack of fishery inspection control, and lack of Rulebooks.

**Croatia:** errors in entry or validation.

**Italy:** information not sufficient to perform statistical analysis on fisheries.

*Black Sea*

	<b>Bulgaria</b>	<b>Romania</b>	<b>Turkey</b>
<b>Reliable</b>	Yes	Partly	Partly
<b>Complete</b>	Yes	Partly	Partly
<b>Relevant</b>	Yes	Yes	Yes

**Romania:** fishermen sometimes incorrectly report some data and to omit reporting of data.

**Turkey:** misreporting; incomplete.

*Central Mediterranean*

	<b>Italy</b>	<b>Libya</b>	<b>Malta</b>	<b>Tunisia</b>
<b>Reliable</b>	Partly	No	Yes	Partly
<b>Complete</b>	Partly	No	Partly	Partly
<b>Relevant</b>	Partly	No	Yes	Yes

**Italy:** information not sufficient to perform statistical analysis on fisheries.

**Libya:** there is no logbook.

**Malta:** no reference to the target species. Does not provide enough space to report discards by species.

*Eastern Mediterranean*

	<b>Egypt</b>	<b>Cyprus</b>	<b>Lebanon</b>	<b>Turkey</b>
<b>Reliable</b>	Partly	Partly	Partly	Partly
<b>Complete</b>	No	Partly	Partly	Partly
<b>Relevant</b>	Partly	Yes	Partly	Yes

**Egypt:** there is no periodically data about effort; there is no data about navigation road and locations.

**Cyprus:** some mistakes are reported.

**Turkey:** misreporting; incomplete.

#### *Western Mediterranean*

	<b>France</b>	<b>Morocco</b>	<b>Spain</b>
<b>Reliable</b>	Yes	Partly	Yes
<b>Complete</b>	Partly	Yes	Yes
<b>Relevant</b>	Yes	Partly	Yes

**Algeria:** The logbook is not used.

**France:** Under-coverage of vessel under 12m.

**Morocco:** Catch declarations are estimated; problem of identification of some species.

- 4) *Indicate if a vessel monitoring system (VMS) has already been implemented in your country for:*

#### *Adriatic*

	<b>Albania</b>	<b>Croatia</b>	<b>Italy</b>	<b>Montenegro</b>	<b>Slovenia</b>
<b>The entire fishing fleet</b>	No	No		No	
<b>Part of the fishing fleet (specify)</b>	Yes	Yes	Yes	Yes	Yes
<b>None of the fishing fleet</b>	Partly				

**Montenegro:** > 10 m LoA

**Albania:** > 12 m length

**Slovenia:** All vessels > 15 m LOA and some vessels using trawls. Until the end of the year all vessels using trawls will be equipped with VMS.

**Croatia:** All vessels > 15 m covered by VMS (plan to cover all vessel sizes)

**Italy:** > 12 m length

#### *Black Sea*

	<b>Bulgaria</b>	<b>Romania</b>	<b>Turkey</b>
<b>The entire fishing fleet</b>			
<b>Part of the fishing fleet</b>	Yes	Yes	Yes
<b>None of the fishing fleet</b>			

**Bulgaria:** vessels > 12 meters

**Romania:** fishing fleet with LOA > 12 meters

**Turkey:** all ICCAT vessels and vessels over 15 meters

#### *Central Mediterranean*

	Italy	Libya	Malta	Tunisia
<i>The entire fishing fleet</i>				
<i>Part of the fishing fleet (specify)</i>	Yes	Yes	Yes	Yes
<i>None of the fishing fleet</i>				

**Italy:** more than 12 m length

**Libya:** only for ICCAT vessel

**Malta:** more than 12 m length

*Eastern Mediterranean*

	Egypt	Cyprus	Greece	Lebanon	Turkey
<i>The entire fishing fleet</i>					
<i>Part of the fishing fleet</i>	Yes	Yes	Yes		Yes
<i>None of the fishing fleet</i>				Yes	

**Egypt:** only two vessels used in tuna fisheries

**Cyprus:** vessels > 12 meters

**Turkey:** all ICCAT vessels and vessels over 15 meters

*Western Mediterranean*

	Algeria	France	Morocco	Spain
<i>The entire fishing fleet</i>	No			
<i>Part of the fishing fleet</i>		Yes	Yes	Yes
<i>None of the fishing fleet</i>				

**Algeria:** plan to implement it in the near future

**France:** vessel more than 15 m length

**Spain:** for all vessels over 12 m length