

**CREAM**Coordinating research in support to application of
Ecosystem Approach to Fisheries and management advice
in the Mediterranean and Black Seas**Part 1: Synoptic tables summarizing the information gathered.
(Public, Web site)**

The following document is the outcome of the **Task 2.3** of the CREAM project: "Production of syntheses and summaries".

Below the information gathered in the **Tasks 2.1** ("Critical analysis of the current understandings on the resource assessment and on the ecosystem impact of the fisheries in Mediterranean and Black Sea") and **2.2** ("Comparative analysis of the management systems adopted in different countries/GSAs") is reported according to synoptic tables.

Task 2.1.

The main objective of this task was to collect the available information, at country/GSA level, coming from research and monitoring projects, as well as other types of activities, in relation to fishery and fishery management aspects in Mediterranean and Black Seas.

Tabs 1, 2, 3, summarize the information gathered according to the typology of activity, the main topics and the geographical coverage.

Table 1 - Summary of the information analysed: typology of projects and activities analysed, according to main geographical areas.

The values report the percentage contribution of each item per area.

	Research Projects	Monitoring activities	Support activities for the fishery administrations	Others
WEST MED	53.3	20.0	8.4	18.3
EAST MED	42.5	21.9	12.4	23.2
CENTR MED	46.2	30.7	15.4	7.7
BLACK SEA	34.5	16.4	23.6	25.5
Overall	44.9	20.9	12.3	21.9

Table 2 - Summary of the information analysed: main topics of the projects and activities analysed, according to main geographical areas.

The values report the percentage contribution of each item per area.

	Anthropic activity description (mainly fishing)	Species and habitats	Modelling (ecological and/or bioeconomic)	Stock assessment and management suggestions
WEST MED	28.9	26.7	11.3	33.1
EAST MED	29.2	33.0	5.7	32.1
CENTR MED	37.0	26.1	6.5	30.4
BLACK SEA	26.8	24	3.2	46.2
Overall	29.9	28.3	6.9	34.9

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Table 3 - Summary of the information analysed: geographical coverage of the projects and activities analysed, according to main geographical areas.
The values report the percentage contribution of each item per area.

	Local	Mediterranean/Black Sea	Wider areas
WEST MED	19.4	56.7	23.9
CENTR MED	33.3	66.7	
EAST MED	32.7	58.2	9.1
BLACK SEA	21.5	69.0	9.5

An overall assessment of the capacity to address the issues related to the implementation of EAF in Mediterranean and Black Sea was performed by the experts involved in CREAM Consortium, on the basis of the information collected. Tab. 4 shows the results, according to a simple qualitative-quantitative scale.

Table 4 - Summary of the results of the expert evaluation on the capacity to address the EAF issues, according to main basins and main topics related to EAF. Scores range from 0 to 3 (from null to high capacity to address each issue related to EAF).

Main issues related to EAF	West Med	Centr Med	East Med	Black Sea	CREAM Consortium
1) Fisheries: structure and behaviour	2.1	2.3	1.7	1.9	2.0
2.1) Fisheries impact assessment	1.6	1.2	0.8	1.6	1.3
2.2) Other anthropogenic impacts	1.2	1.4	0.8	1.3	1.2
3) Species/habitat knowledge	1.7	1.8	1.1	1.4	1.5
4) Socio economic aspects and modelling	1.6	1.1	0.5	0.8	1.0
5) Assessment of management measures	1.6	1.1	1.0	1.4	1.3
6) The management process	1.3	0.9	0.3	1.4	1.0
7) Monitoring and assessments	1.5	1.5	0.6	1.5	1.3

Task 2.2.

The main objective of this task was to perform a common work, among the partners, to summarize and critically analyze, in a comparative view, the management systems in force in each Country/GSA of the Mediterranean and Black Sea.

Tables 5-8 provide a synthetic overview, according to main basins (Western Mediterranean, Central Mediterranean, Eastern Mediterranean, Black Sea) and also GSA/Country.

Table 5 - Synthetic overview of the fishery management measures existing in Mediterranean and Black Seas. Western Mediterranean.

	WESTERN MEDITERRANEAN							
	GSA01 ESP	GSA03 MOR	GSA05 ESP	GSA06 ESP	GSA07 FRA	GSA09 ITA	GSA11 ITA	GSA12 TUN
Fishing capacity limitations (n. boats and/or total GT and/or total kW)	yes	yes	yes	yes	yes	yes	yes	yes
Individual vessel limitations (engine power and/or length)	yes	no	yes	yes	yes	no	no	no
Activity limitations (n. days at sea; n. hours at sea, etc.)	yes	yes	yes	yes	yes	yes	yes	no
Gear restrictions (material, meshes, size)	yes	yes	yes	yes	yes	yes	yes	yes
Spatial restrictions	yes	yes	yes	yes	yes	yes	yes	yes
Sensitive habitat restrictions	yes	yes	yes	yes	yes	yes	yes	no
Temporal restrictions (e.g. seasonal fishing closure)	yes	yes	yes	yes	yes	yes	yes	yes
Quota restrictions	yes	no	yes	yes	no	no	no	no
Discard regulations	no	no	no	no	no	no	no	no
Specific management plans (for certain fisheries or certain stocks)	no	no	no	yes	yes	yes	yes	no
Stock assessment routinely carried out (every year for main fisheries)	no	yes	yes	yes	yes	yes	yes	yes
MLS of main fish stocks	yes	yes	yes	yes	yes	yes	yes	yes
Gear limitations	yes	yes	yes	yes	yes	yes	yes	yes

Table 6 - Synthetic overview of the fishery management measures existing in Mediterranean and Black Seas. Central Mediterranean.

	CENTRAL MEDITERRANEAN						
	GSA13 TUN	GSA14 TUN	GSA15 MAL	GSA16 ITA	GSA17 ITA	GSA17 CRO	GSA20 GRE
Fishing capacity limitations (n. boats and/or total GT and/or total kW)	yes	yes	yes	yes	yes	yes	yes
Individual vessel limitations (engine power and/or length)	no	no	yes	no	no	no	yes
Activity limitations (n. days at sea; n. hours at sea, etc.)	no	no	no	yes	yes	yes	yes
Gear restrictions (material, meshes, size)	yes	yes	yes	yes	yes	yes	yes
Spatial restrictions	yes	yes	yes	yes	yes	yes	yes
Sensitive habitat restrictions	no	no	yes	yes	yes	yes	yes
Temporal restrictions (e.g. seasonal fishing closure)	yes	yes	yes	yes	yes	yes	yes
Quota restrictions	no	no	no	no	no	no	no
Discard regulations	no	no	no	no	no	no	no
Specific management plans (for certain fisheries or certain stocks)	no	no	yes	yes	yes	no	no
Stock assessment routinely carried out (every year for main fisheries)	yes	yes	yes	yes	yes	yes	yes
MLS of main fish stocks	yes	yes	yes	yes	yes	yes	yes
Gear limitations	yes	yes	yes	yes	yes	yes	yes



Table 7 - Synthetic overview of the fishery management measures existing in Mediterranean and Black Seas. Eastern Mediterranean.

	EASTERN MEDITERRANEAN						
	GSA20 GRE	GSA22 GRE	GSA23 GRE	GSA 22 & 24 TUR	GSA25 CYP	GSA 26 EGY	GSA27 LEB
Fishing capacity limitations (n. boats and/or total GT and/or total kW)	yes	yes	yes	yes	yes	yes	yes
Individual vessel limitations (engine power and/or length)	yes	yes	yes	no	no	no	no
Activity limitations (n. days at sea; n. hours at sea, etc.)	yes	yes	yes	yes	yes	no	no
Gear restrictions (material, meshes, size)	yes	yes	yes	yes	yes	yes	yes
Spatial restrictions	yes	yes	yes	yes	yes	yes	yes
Sensitive habitat restrictions	yes	yes	yes	yes	yes	yes	yes
Temporal restrictions (e.g. seasonal fishing closure)	yes	yes	yes	yes	yes	yes	yes
Quota restrictions	no	no	no	no	no	no	no
Discard regulations	no	no	no	no	no	no	no
Specific management plans (for certain fisheries or certain stocks)	no	no	no	no	no	no	no
Stock assessment routinely carried out (every year for main fisheries)	yes	yes	yes	yes	yes	no	yes
MLS of main fish stocks	yes	yes	yes	yes	yes	no	yes
Gear limitations	yes	yes	yes	yes	yes	yes	yes

Table 8 - Synthetic overview of the fishery management measures existing in Mediterranean and Black Seas. Black Sea.

	BLACK SEA				
	GSA29 GEO	GSA29 TUR	GSA29 BUL	GSA29 UKR	GSA30 RUS
Fishing capacity limitations (n. boats and/or total GT and/or total kW)	yes	yes	yes	yes	yes
Individual vessel limitations (engine power and/or length)	no	no	no	no	yes
Activity limitations (n. days at sea; n. hours at sea, etc.)	yes	yes	yes	no	no
Gear restrictions (material, meshes, size)	yes	yes	yes	yes	yes
Spatial restrictions	yes	yes	yes	yes	yes
Sensitive habitat restrictions	yes	yes	yes	yes	yes
Temporal restrictions (e.g. seasonal fishing closure)	yes	yes	yes	yes	yes
Quota restrictions	yes	no	yes	yes	yes
Discard regulations	no	no	no	no	no
Specific management plans (for certain fisheries or certain stocks)	yes	no	no	no	yes
Stock assessment routinely carried out (every year for main fisheries)	no	yes	yes	yes	no
MLS of main fish stocks	yes	yes	yes	yes	yes
Gear limitations	yes	yes	yes	yes	yes



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Part 2: Synoptic tables summarizing the information gathered in the Tasks 2.1 and 2.2. and evidencing gaps and opportunities to improve research coordination in support to EAF.

(Restricted to the programme participants, including the Commission Services)

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Below the information gathered in the **Tasks 2.1** ("Critical analysis of the current understandings on the resource assessment and on the ecosystem impact of the fisheries in Mediterranean and Black Sea") and **2.2** ("Comparative analysis of the management systems adopted in different countries/GSAs") is reported according to synoptic tables.

Task 2.1.

The main objective of this task was to collect the available information, at country/GSA level, coming from research and monitoring projects, as well as other types of activities, in relation fishery and fishery management aspects in Mediterranean and Black Seas.

A total of 180 different files summarizing the content of the currently available information possibly related to the EAF context in Mediterranean and Black Sea were compiled by the experts involved in this study. Tabs 1, 2, 3, summarize the information gathered according to the typology of activity, their main topics and their geographical coverage.

Table 1 - Summary of the information analysed: typology of projects and activities analysed, according to main geographical areas.

The values report the number of activities of each item per area.

Acronym	Country	Type of activity							Total
		Research Project	Monitoring activity	Stock assessment	Modeling	Management recommendation	Report	Other	
AU	Egypt	4	1		1				5
AUB	Lebanon	1	5	2			3	1	9
CIBM	Italy	2	3					4	9
CNR_IAMC	Italy	8						1	9
CSIC	Spain								14
DFMR-MANRE	Cyprus	12	5	3	1	1		7	26
EGE UNIV	Turkey	14	4	2		5	3	2	18
HCMR	Greece	6	3					2	11
IEO	Spain	10		1		1	2		6
INRH	Morocco		1						1
INSTM	Tunisia			2		2			2
IOR	Croatia		2						2
IO-BAS	Bulgaria	4	1	1					6
IRD-IFREMÉR	France	9	1	2		1			9
NIMRD	Romania	2	1			1		1	4
UNIROMA	Italy		3		1	1		4	9
VNIRO	Russian Federation		1			1	2	2	6
WEFRI	Georgia		1	2	2				5
YUG-NIRO	Ukraine	6	3	6		6	4	3	15
MARRA	Malta	3	4						7
TOTAL		81	39	21	5	19	14	27	