



Information to be contributed to FIRMS by GFCM

The GFCM will contribute information to FIRMS along the following lines:

1. **Data and statistical information:**

Types and scope of information to be contributed

Reports:

Reports developed for presentation of stock status and trends, including those produced with the support of FAO, to meetings of the GFCM will be structured for upload and maintained in FIRMS. Links to supporting scientific documents, such as detailed stock assessment documents, will be provided.

Data:

GFCM, regional catch statistics originating from the FAO Statlant 37A forms will be provided at public domain resolution as determined under the policies of the Fisheries Department. These data will be available for use by FIRMS in development of summary plots and statistics elsewhere presented within the FIGIS system. In a near future, GFCM will also provide catch and effort data for the main Mediterranean fisheries.

Biology, ecology, fisheries, and other information:

Mediterranean stocks, resources, fisheries and Operational units under GFCM mandate will be provided with information on the performances, management and status of the fisheries and posted in FIRMS.

Regulations and management:

Information on management authorities, regulations and management of fisheries under GFCM mandate will be included in FIRMS, with links to yearly management recommendations and resolutions for easy access to details;

Basic information on the GFCM institution will be included in FIRMS, with links to the GFCM website.

Scope of information to be contributed: The GFCM is primarily involved in the monitoring and assessment of Mediterranean shared stocks as compiled in table 1, while table 2 shows the provisional list of priority species identified by GFCM, within its mandate. Both lists will be updated on a regular basis by SAC, and reflected in FIRMS when formally adopted by GFCM.

Documentation and Standards to be used in this Partnership Agreement: Sources of information will be documented, and links to electronic versions of source material will be provided when available. The information to be contributed will conform to the policy guidelines for confidentiality and information release of the Fisheries and Aquaculture Department and to the Information Management Policy established by the FIRMS Steering Committee.

2. **Metadata and information management:**

Methods of collection and processing: For those sets of information (or “collections”) contributed to FIRMS, details of GFCM data collection, processing and dissemination methods will be provided in standard “collections descriptions” fact sheets.

In partial summary:

Bibliographical sources: Bibliographic sources for all contributions of GFCM are contained in the GFCM reports and publications, statistical yearbooks and species catalogues published by the Department. These sources reports will be included by website link on the FIRMS fact sheets, through the appropriate source links posted to FIRMS fact sheets. In addition, or when no paper publication pre-exists, major sources of information for each fact sheet will be given as part of the standard fact sheet information.

Ownership and responsibilities: the information contributed by GFCM to FIRMS resides under the full responsibility of GFCM with exception for data emanating from the FAO Statland 37A which remains FIGIS responsibility. Therefore, the ownership presented as header of each stock, resource, or fishery fact sheet, or statistical collection description. Further, GFCM will be responsible of all descriptions of itself including all text outlining its responsibilities and accomplishments wherever presented by pages linked to or referenced by FIRMS, or pages developed within FIRMS. This shall be accomplished by establishment of appropriate editorial and ownership security privileges within FIRMS. In cases where an item has joint ownership, GFCM and one of the FIRMS Partners, both entities shall clear indication of ownership on fact sheets.

Methods used in authentication and verification of information for FIRMS will identify both GFCM editors and GFCM approver. These actors will in sequence ensure that FIRMS fact sheets under GFCM responsibility will be updated and linked to the latest version of GFCM documents and information as they are released. In cases of joint ownership, GFCM and the concerned FIRMS partner shall have editor and approver privileges for fact sheets.

Transmission protocols and dissemination channels:

The GFCM detailed stock assessment reports or scientific advisory reports which serve as background documentation for information published on FIRMS will be published on the GFCM website. Links to relevant sections of these reports and relevant section of texts will be added in various topics of the FIRMS fact sheets using a combination of the tools offered by the system (XML editing uploading – on-line editing). Transmission schedule is planned to be within the few weeks following publication by GFCM of its reports on its web-site.

In cases no paper publication precedes the publication on a given topic in FIRMS, all elements enabling the bibliographical citation of the fact sheet will be provided in the cover page section of the fact sheet itself.

3. ***Data and information security:***

All contributions from GFCM will be in the public domain.

Transparency of the information and results on status and trends of stocks and resources presented by GFCM are documented in the course of the scientific peer-review process followed to obtain the results, and the various public meetings of GFCM at which the results, and various options for management and resource conservation, are presented and discussed. Details on these meetings and processes are available at GFCM web-site.

4. ***Collaborative institutions:***

GFCM is the FIRMS signatory Partner and as such doesn't include any collaborative institutions.

5. ***Additional entitlements:***

When required, this Annex may be revised by mutual consent.

Table 1: Provisional list of shared stocks under GFCM mandate (shaded background: Stocks assessed)

| | Scientific name | Area | Countries |
|-----------------------|---------------------------------|------------------------------------------|---------------------------------------|
| Dolphin fish | <i>Coryphaena hippurus</i> | Western Mediterranean | Italy, Malta, Spain and Tunisia |
| Horned octopus | <i>Eledone cirrhosa</i> | Adriatic Sea | Albania, Croatia, Italy |
| Musky octopus | <i>Eledone moschata</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Anchovy | <i>Engraulis encrasicolus</i> | Gulf of Lions | France and Spain |
| Anchovy | <i>Engraulis encrasicolus</i> | Adriatic | Albania, Croatia, Italy, Slovenia |
| Anchovy | <i>Engraulis encrasicolus</i> | Aegean Sea | Greece and Turkey |
| European squid | <i>Loligo vulgaris</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Blackbellied angler | <i>Lophius budegassa</i> | Northern Adriatic | Croatia, Albania, Slovenia and Italy. |
| Blackbellied angler | <i>Lophius budegassa</i> | Adriatic Sea | Albania, Croatia, Italy |
| Monkfish or angler | <i>Lophius piscatorius</i> | Northern Adriatic | Croatia, Albania, Slovenia and Italy |
| Monkfish or angler | <i>Lophius piscatorius</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Hake | <i>Merluccius merluccius</i> | Gulf of Lions | France and Spain |
| Hake | <i>Merluccius merluccius</i> | Adriatic | Albania, Croatia, Italy, Slovenia |
| Hake | <i>Merluccius merluccius</i> | Sicily Channel | Italy, Tunisia, Libya and Malta |
| Hake | <i>Merluccius merluccius</i> | North Tyrrhenian and Corsica | Italy and France |
| Blue whiting | <i>Micromesistius poutassou</i> | Adriatic | Albania, Croatia, Italy |
| Blue whiting | <i>Micromesistius poutassou</i> | North Tyrrhenian and Corsica | Italy and France |
| Red mullet | <i>Mullus barbatus</i> | Adriatic | Albania, Croatia, Italy, Slovenia |
| Red mullet | <i>Mullus barbatus</i> | | Corsica and Sardinia |
| Striped red mullet | <i>Mullus surmuletus</i> | | Corsica and Sardinia |
| Norway lobster | <i>Nephrops norvegicus</i> | Adriatic | Albania, Croatia, Italy, Slovenia |
| Norway lobster | <i>Nephrops norvegicus</i> | North Tyrrhenian and Corsica | Italy and France |
| Black spot seabream | <i>Pagellus bogaraveo</i> | Alboran Sea and the Straits of Gibraltar | Spain and Morocco |
| Common pandora | <i>Pagellus erythrinus</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Common spiny lobster | <i>Palinurus elephas</i> | | Corsica and Sardinia |
| Common spiny lobster | <i>Palinurus elephas</i> | Sicily channel | Tunisia and Italy |
| Pink spiny lobster | <i>Palinurus mauritanicus</i> | Sicily channel | Tunisia and Italy |
| Deepwater rose shrimp | <i>Parapenaeus longirostris</i> | Adriatic Sea | Albania, Croatia, Italy |
| Sardine | <i>Sardina pilchardus</i> | Adriatic | Albania, Croatia, Italy, Slovenia |
| Sardine | <i>Sardina pilchardus</i> | Aegean Sea | Greece and Turkey |
| Atlantic mackerel | <i>Scomber scomber</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Common cuttlefish | <i>Sepia officinalis</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Sole | <i>Solea vulgaris</i> | Northern Adriatic | Croatia, Albania, Slovenia and Italy |
| Common sole | <i>Solea vulgaris</i> | Adriatic Sea | Albania, Croatia, Italy, Slovenia |
| Sprat | <i>Sprattus sprattus</i> | Adriatic | Croatia, Italy, Slovenia |
| Albacore | <i>Thunnus alalunga</i> | All Mediterranean | All countries |
| Bluefin tuna | <i>Thunnus thynnus</i> | All Mediterranean | All countries |
| Swordfish | <i>Xiphias gladius</i> | All Mediterranean | All countries |

Table 2: Provisional list of priority species identified by GFCM, from which will be derived candidate Stocks or resource units under the GFCM ownership (shaded background – species assessed)

| English common name | Scientific name |
|------------------------------|----------------------------------|
| Danube sturgeon(=Osetr) | <i>Acipenser gueldenstaedtii</i> |
| Starry sturgeon | <i>Acipenser stellatus</i> |
| Sturgeon | <i>Acipenser sturio</i> |
| European eel | <i>Anguilla anguilla</i> |
| Giant red shrimp | <i>Aristaeomorpha foliacea</i> |
| Blue and red shrimp | <i>Aristeus antennatus</i> |
| Bogue | <i>Boops boops</i> |
| Common dolphinfish | <i>Coryphaena hippurus</i> |
| Horned octopus | <i>Eledone cirrosa</i> |
| Musky octopus | <i>Eledone moschata</i> |
| Anchovy | <i>Engraulis encrasicolus</i> |
| Beluga | <i>Huso huso</i> |
| Shortfin mako | <i>Isurus oxyrinchus</i> |
| Porbeagle | <i>Lamna nasus</i> |
| European squid | <i>Loligo vulgaris</i> |
| Blackbellied angler | <i>Lophius budegassa</i> |
| Monkfish or angler | <i>Lophius piscatorius</i> |
| Whiting | <i>Merlangius merlangus</i> |
| Hake | <i>Merluccius merluccius</i> |
| Blue whiting | <i>Micromesistius poutassou</i> |
| Red mullet | <i>Mullus barbatus</i> |
| Striped red mullet | <i>Mullus surmuletus</i> |
| Norway lobster | <i>Nephrops norvegicus</i> |
| Black spot seabream | <i>Pagellus bogaraveo</i> |
| Common pandora | <i>Pagellus erythrinus</i> |
| Common spiny lobster | <i>Palinurus elephas</i> |
| Pink spiny lobster | <i>Palinurus mauritanicus</i> |
| Deepwater rose shrimp | <i>Parapenaeus longirostris</i> |
| Blue shark | <i>Prionace glauca</i> |
| Turbot | <i>Psetta maxima</i> |
| Sardine | <i>Sardina pilchardus</i> |
| Round sardinella | <i>Sardinella aurita</i> |
| Atlantic mackerel | <i>Scomber scomber</i> |
| Common cuttlefish | <i>Sepia officinalis</i> |
| Common sole | <i>Solea vulgaris</i> |
| Sprat | <i>Sprattus sprattus</i> |
| Albacore | <i>Thunnus alalunga</i> |
| Bluefin tuna | <i>Thunnus thynnus</i> |
| Mediterranean horse mackerel | <i>Trachurus mediterraneus</i> |
| Atlantic horse mackerel | <i>Trachurus trachurus</i> |
| Swordfish | <i>Xiphias gladius</i> |