

# **BLUFISH PROJECT**

## Stage 1.a - Fast Scan

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## **GLOSSARY**

CFP	Common Fisheries Policy
DCF	Data Collection Framework
Dlgs	Legislative Decree
D.M.	Ministerial Decree
EC	European Commission
EU	European Union
FAO	Food and Agriculture Organisation of the United Nations
FDI	Fishery Dependent Information
GFCM	General Fisheries Commission for the Mediterranean
GSA	Geographical Subarea
ICCAT	International Commission for the Conservation of Atlantic Tunas
ISTAT	Italian National Statistical Institute
JRC	European Commission Joint Research Centre
MIPAAF	Italian Ministry of Agriculture, Food and Forestry Policies
MSC	Marine Stewardship Council
MSY	Maximum Sustainable Yield
SAC	GFCM Scientific Advisory Committee
STECF	Scientific, Technical and Economic Committee for Fisheries
UoA	Unit of Assessment
UoC	Unit of Certification

## **EXECUTIVE SUMMARY**

This report provides an overview of Italian fisheries in the framework of Blufish, a project preassessment (PPA), which has been launched and coordinated by MSC (Marine Stewardship Council) and developed by NISEA (Fisheries and Aquaculture Economic Research, Salerno, Italy). The project goal is to engage Italian fisheries in moving towards sustainability.

The report summarises the results of the Fast Scan (Stage 1.a) of "Fisheries scanning and mapping" (Stage I) of the project, whose aim is to provide an overview of and to map Italian fisheries in Geographical Subareas (GSAs) 9, 10, 11.2, 16, 17, 18, and 19 of the General Fisheries Commission for the Mediterranean (GFCM).

The 3,884 Italian fisheries mapped in the report are potential Units of Assessment (UoAs) from which about 50 will be selected for Stage 1.b "Deeper mapping". According to the objectives of the Blufish Project, only UoAs found in GSAs 10, 11.2, 16, 18, and 19 will be assessed in Stage 1.b.

The Fast Scan report provides the following quantitative and qualitative information:

- a list of all the fisheries operating under the scope of the project with indication of: the main target species, the main gears used, stock area, and availability of stock assessment and exploitation levels;
- average landings in volume and value in recent years;
- landing composition in terms of volume and value by fishery;
- fleet composition by fishing technique (aggregated by GSA);
   geographical characterisation of the main fisheries;
- list of the main landing ports.

The main sources of information are Data Collection Framework data from the Italian database, the latest GFCM, International Commission for the Conservation of Atlantic Tunas, and Scientific, Technical and Economic Committee for Fisheries reports, national regulations, and the EU Fleet Register. Information on fish stock status for the relevant GSAs was also extracted from the recent literature.

Moreover, a recent, validated approach was adopted to identify the major fisheries in each GSA.

This report is publicly available in Italian and in English.

## **1. INTRODUCTION**

Almost 90% of the fish stocks assessed in the Mediterranean are held to be overexploited (Colloca et al, 2017). This is the result of fleet overcapacity, poor involvement of the fishing sector in the decisionmaking process and weak market engagement in promoting the sustainable exploitation of natural resources. The Marine Stewardship Council (MSC) certification programme is based on its standard for sustainable fisheries, which provides a framework for fisheries management best practices. The MSC third-party assessment process allows to recognise best practice actions and to identify and analyse challenges in fisheries management systems in view of the adoption of measures capable of achieving and maintaining appropriate management over time. The MSC programme focuses on the value of certification in driving improvement in the marine environment and in enhancing traceability and transparency throughout the supply chains. However, besides the direct benefits of certification and market recognition, the MSC standard and assessment process provide a tool to diagnose and identify improvement needs at a more general level, irrespective of eventual certification. Notably,

BLUFISH PROJECT Stage 1.a - Fast Scan management authorities are beginning to use the MSC standard as an independent, credible groundtruthing approach before making wide-sweeping adjustments to enhance efficiencies for all fisheries, not just those seeking certification. This multi-stakeholder, collaborative approach, which has become known as the Project Pre-Assessment (PPA) model, has already been applied in the Mediterranean region, in Australia, Indonesia, Mexico, South Africa, Japan, and the UK with the aim of helping in the improvement of the management of the sector. Through a combination of mapping and pre-assessment exercises, the model offers governments, fishermen, scientists, market players, and local non-governmental organisations the opportunity to collaborate to identify the most efficient route to make environmental improvements at the most appropriate scale. Critical features of a PPA are that its intended impact extends beyond the immediate project results and that it has the purpose of improving management. Fisheries deciding to pursue certification when their performance allows to do so, find in the PPA a streamlined, stakeholder-supported approach to sustainability, whereas those that do not choose to purse certification still benefit through PPA projects and can achieve significant management efficiencies. Blufish is a PPA project involving Italian fisheries; it is similar to Medfish, the first PPA project in the Mediterranean, which involved Spanish and French fisheries (http://www.project-medfish.com/)

This report provides an overview of Italian fisheries under the scope of the PPA Blufish, which has been launched and coordinated by MSC and developed by NISEA (Fisheries and Aquaculture Economic Research, Salerno, Italy)<sup>1</sup>. The project aim is to engage Italian fisheries in moving towards sustainability.

The report summarises the results of the Fast Scan (Stage 1.a) of "Fisheries scanning and mapping" (Stage I) of the project, whose aim is to provide an overview of and to map Italian fisheries in Geographical Subareas (GSAs) 9, 10, 11.2, 16, 17, 18, and 19 of the General Fisheries Commission for the Mediterranean (GFCM).

Figure 1 – Map and list of the GFCM areas included in the project

<sup>&</sup>lt;sup>1</sup> In collaboration with AP Marine Environmental Consultancy Ltd. (Nicosia, Cyprus)



Source: GFCM Data Collection Reference Framework, Version 2018.1 (GFCM, 2018).

The 3,884 Italian fisheries mapped in the report are potential Units of Assessment (UoAs) from which about 50 in GSAs 10, 11.2, 16, 18, and 19 will be selected for Stage 1.b, "Deeper mapping". The Fast Scan report provides the following quantitative and qualitative information:

- a list of all the fisheries operating under the scope of the project with indication of: the main target species, the main gears used, stock area, and availability of stock assessment and exploitation levels;
- average landings in volume and value in the most recent years;
- landing composition in terms of volume and value by fishery;
- fleet composition by fishing technique (aggregated by GSA); geographical characterisation of the main fisheries;
- list of the main landing ports.

The study methodology, including data sources, the way data were analysed, and the scan results are reported in the chapters that follow.

## 2. METHODOLOGY

## 2.1 Inception meeting

The project began with an inception meeting, involving the Project Teams of NISEA and the MSC, which was held in Milano at the MSC Italian premises on 3 May 2018. Its agenda is attached. Its chief

aim was to define the project milestones, the opportunities for MSC - NISEA interaction during the work, and the phases where stakeholder participation would be essential. Further aims of the meeting were the definition of the contents of the Fast Scan report and a preliminary discussion of Stage 1.b.

### 2.2 Data sources

A variety of data types were used to conduct the scan. These data and their sources are listed below.

### 2.2.1 Fleet Register

An application to the Ministry for Agricultural, Food and Forestry Policies (MIPAAF) allowed obtaining official data on the Italian fishing fleet and ports recorded in the Italian Fleet Register. Data included the vessel details reported in the Fishing License, which is released to vessel owners by the MIPAAF, namely port name, vessel name, owner's name, registration number, vessel length, main gear type, secondary gear type, tonnage, engine power, and year of construction. This information was processed, and sensitive data were removed.

The Fishing License is currently issued to vessel owners who have registered with a national fishing company (Dlgs No. 153/04) and authorises professional fishing in line with national regulations (M.D. 26.01.2012). Fishing is permitted using the gears detailed in the licence, which is valid for up to eight years from the date of issue. The licence is subject to a fee and is renewed upon the owner's request. The owner and vessel data are entered in the electronic Fleet Register, which allows monitoring the fishing fleet in line with EU regulations (Reg. (CE) 2371/2002, art. 15).

The license contains information on the gears and on their status as main and subsidiary gears as stated in the application. A different type of license is issued for vessels operating at aquaculture facilities, those used as support units for professional underwater fishing, and vessels involved in "special" fisheries, like *Aphia minuta* and *Gymnammodites cicerelus* fisheries, which have been authorised by the recent D.M. 26.10.2017 as experimental fisheries in line with the Mediterranean Regulation (MEDREG, Council Regulation (EC) No. 1967/2006) and are subject to ad hoc monitoring. Finally, licenses to fish small pelagic shared stocks in the Adriatic, which are under GFCM purview, are regulated by D.M. of 25 January 2016 (Government Gazette No. 122 of 26 May 2016) in accordance with Recommendation GFCM/39/2015/1. Other specific authorisations are granted under the international agreement for the management of shared fish stocks. In particular, licenses for highly migratory fish stocks, which fall under the purview of the ICCAT, are regulated as follows:

- Eastern Atlantic and Mediterranean bluefin tuna fishery (purse seines and longlines): Regulation (EU) 2016/1627 and ICCAT Recommendation 14-04;
- albacore fishery: ICCAT Recommendation 17-05, D.M. of 16 February 2017 (Government Gazette No. 53 of 4/3/2017);
- Mediterranean swordfish fishery; ICCAT Recommendation 16-05, decision of the European Commission No. C (2013) 8635 of 06/12/2013 and D.M. of 29/02/2016.

#### 2.2.2 Italian National Programme for the collection of fishery data

The main source of information for the Fast Scan were the data gathered under the Italian national data collection Programme for the fishing sector as per EEC 1543/2000, Reg. EEC 199/2008, and EU Reg. 1004/2017, which provide the EU framework for the collection, management, and use of data related to this sector to support the scientific advice to the Common Fisheries Policy (CFP). These data are held in the MIPAAF database and are provided subject to a formal application.

Accordingly, a formal data request was submitted at the beginning of Stage 1.a for the use of data for 2014-2017 divided by administrative region and maritime district (when available), year and month (when available), fleet segment, and métier for: capacity, effort, catches (volume and value), biological parameters per stock and socioeconomic data.

#### 2.2.3 European Commission

#### Data Collection Framework (DCF) database

DCF The EU DCF publicly available the website is on at https://datacollection.jrc.ec.europa.eu/dataanalysis. Data are available for use according to the format (i.e. variables and disaggregation level) stated in each data call. Official Data calls (e.g. EU Aquaculture, Fisheries-Dependent Information, Fleet Economic Performance, Mediterranean and Black Sea and Fish Processing Industry) are launched periodically (usually once a year) and are principally aimed at gathering information for the main DCF end-user, the Scientific, Technical and Economic Committee for Fisheries (STECF), for analysis and reports.

#### Scientific, Technical and Economic Committee for Fisheries (STECF)

The STECF performs periodic (usually yearly) stock assessments of several species of commercial interest, whose distribution falls within EU GSAs. Summaries of such assessments are publicly available on its website at <a href="https://stecf.jrc.ec.europa.eu/dd/medbs/ram">https://stecf.jrc.ec.europa.eu/dd/medbs/ram</a>. Detailed information is also available, in the form of reports, on the webpage <a href="https://stecf.jrc.ec.europa.eu/dd/medbs/ram">https://stecf.jrc.ec.europa.eu/dd/medbs/ram</a>. Detailed information is also available, in the form of reports, on the webpage <a href="https://stecf.jrc.ec.europa.eu/reports/medbs">https://stecf.jrc.ec.europa.eu/reports/medbs</a>. In parallel to the STECF, the Scientific Advisory Committee (SAC) to the GFCM, runs stock assessments for shared Mediterranean demersal stocks and small pelagic fish stocks.

#### 2.2.4 General Fisheries Commission for the Mediterranean (GFCM)

The SAC-GFCM Working Groups on Stock Assessment of Demersal (WGSAD) and Small Pelagic Species (WGSASP) annually perform stock assessment for different shared demersal and small pelagic Mediterranean species of commercial interest. Their outcomes are regularly published as an annex to the annual SAC report and are publicly available on the GFCM website. The SAC-GFCM results were cross-checked and incorporated in the present report along with the STECF data.

#### 2.2.5 International Commission for the Conservation of Atlantic Tunas (ICCAT)

Highly migratory stocks in the Atlantic Ocean and the Mediterranean Sea fall under the purview of the ICCAT. Its scientific working group periodically produces stock assessments for tuna and tuna-like species. The information is publicly available on the ICCAT website. The outcomes of the assessments

on the status and management of Eastern Atlantic and Mediterranean Bluefin tuna, Mediterranean albacore, and Mediterranean swordfish were included in this report.

## 2.2.6 Other sources: scientific literature

Since a preliminary examination indicated that stock assessments were available for only 321 (8%) of the 3,884 UoAs identified in GSAs 9, 10, 11.2, 16, 17, 18, and 19, the decisions was made to review the recent literature for information on the status of the Mediterranean stocks found in the areas included in the Blufish project, even if it had not been formally validated by the STECF or the GFCM. The paper by Froese et al. (2018) examines the current status, exploitation pattern, required stock rebuilding time, potential future catch if stocks are managed at the maximum sustainable yield (MSY), and consequent future profitability of 397 European stocks. Fishing pressure and biomass are estimated from 2000 to 2017 in 10 European ecoregions and in two wide-ranging regions. The authors also analyse stocks that are distributed in the GSAs included in the Blufish project. Overall, the study provides information on 246 additional UoAs.

## 2.3 Data analysis and reporting

## 2.3.1 Fishing fleet data: gears, métiers, and fishing technique

The composition of the Italian fishing fleet in GSAs 9, 10, 11, 16, 17, 18, and 19 was obtained from the raw data from the Fleet Register – which reports the main gear of each vessel as stated in the fishing license – by sorting them out in a pivot table. The database was last updated on 31.12.2016.

A preliminary analysis demonstrated that, based on the format in which licenses are reported in the MIPAAF website – up to 7 gears per vessel out of a total of 25 possible gears are listed in the license.

The gears are reported in the Fleet Register according to the DCF classification<sup>2</sup> and are structured by fishing activity (métier) and region in line with the Commission Decision of 18 December 2009 according to a multiannual Community programme for the collection, management and use of data in the fisheries sector for the period 2011-2013 (2010/93/EC). These data are summarised in Table 1.

Gear acronym	Gear description	
DRB	Boat dredges	
DRH	Hand dredges	
FPN	Stationary uncovered pound nets	
FPO	Pots	
FYK	Fyke nets	

Table 1 – Acronyms and gear types as reported in Commission Decision 2010/93/EC

<sup>&</sup>lt;sup>2</sup> Also adopted by the GFCM (GFCM, 2018).

GNC	Encircling gillnets	
GND	Driftnets	
GNS	Set gillnets (anchored)	
GTN	Combined gillnets-trammel nets	
GTR	Trammel nets	
HAR	Harpoons	
HMD	Mechanised dredges including suction dredges	
LA	Lampara nets	
LHM	Handlines and pole-lines (mechanised)	
LHP	Handlines and pole-lines (hand-operated)	
LLD	Drifting longlines	
LLS	Set longlines	
LNB	Boat-operated lift nets	
LNS	Shore-operated stationary lift nets	
LTL	Troll lines	
MIS	Miscellaneous Gear	
NK	NOT KNOWN <sup>3</sup>	
NO	NO GEAR	
отв	Bottom otter trawl	
отм	Midwater otter trawl	
отт	Otter twin trawl	
PS	Purse seines	
РТВ	Bottom pair trawl	
РТМ	Pelagic pair trawl	
SB	Beach seines	
SDN	Danish seines	
SPR	Pair seines	
SSC	Scottish seines	
sv	Beach and boat seines	
ТВВ	Beam trawl	

Source: https://datacollection.jrc.ec.europa.eu/web/dcf/wordef/gear-type

According to the Commission Decision of 6 November 2008 – which adopted a multiannual Community programme pursuant to Council Regulation (EC) No. 199/2008, establishing a Community framework for the collection, management and use of data in the fisheries sector and support for scientific advice to the CFP (2008/949/EC) – a métier is "a group of fishing operations targeting a similar (assemblage of) species, using similar gear, during the same period of the year and/or the same area and which are characterised by a similar exploitation pattern". The notion of métier is

<sup>&</sup>lt;sup>3</sup> NK, Not Known is allowed in case of confidentiality issues.

therefore closely linked to fishermen's activities, patterns, traditions, and gears. Accordingly, each métier involves a set of fishing operations characterised by a combination of fishing gear, target species, area, and season, which make up homogeneous units that supply the main characteristics of a large number of fishing trips in a single variable (González-Álvarez et al., 2016).

The list of métiers of the Mediterranean Sea (Table 2) has been identified by the Regional Coordination Meeting for the Mediterranean and the Black Sea (RCM MED&BS, Sete 2008) and is available on the STECF website (<u>https://datacollection.jrc.ec.europa.eu/wordef/fishing-activitymetier</u>).

Level 1	Level 2	Level 3	Level 4
Activity	Gear classes	Gear groups	Gear type
	Dredges	Dredges	Boat dredge [DRB]
	Trawls	Bottom trawls	Bottom otter trawl [OTB]
			Multi-rig otter trawl [OTT]
			Bottom pair trawl [PTB]
			Beam trawl [TBB]
		Dala sia husuda	Midwater otter trawl [OTM]
		Pelagic trawis	Pelagic pair trawl [PTM]
	Hooks and	Rods and Lines	Hand and Pole lines [LHP] [LHM]
	Lines		Trolling lines [LTL]
		Longlinos	Drifting longlines [LLD]
Fishing Activity		Longines	Set longlines [LLS]
			Pots and Traps [FPO]
	Traps	Traps	Fyke nets [FYK]
			Stationary uncovered pound nets [FPN]
			Trammel net [GTR]
	Nets	Nets	Set gillnet [GNS]
			Driftnet [GND]
	Seines	Surrounding nets	Purse seine [PS]

Table 2 – List of métiers in the Mediterranean Sea up to level 4.

Level 1	Level 2	Level 3	Level 4
Activity	Gear classes	Gear groups	Gear type
			Lampara nets [LA]
			Fly shooting seine [SSC]
		Seines	Anchored seine [SDN]
			Pair seine [SPR]
			Beach and boat seine [SB] [SV]
	Other gear	Other gear	Glass eel fishing
	Misc. (Specify)	Misc. (Specify)	
Other activity than fishing			
Inactive			
Recreational fisheries			

Source:<a href="https://datacollectio">https://datacollectio</a>métier isgear (as listed above), a target assemblageessentiallybased on a

Thus, a, and a mesh size. The analysis performed in the present report stops at level 5 of the definition of métier employed by the DCF system, i.e. the target assemblage, which is represented by a category of species that are biologically and environmentally similar. The abbreviations of the assemblages are reported in Table 3:

#### Table 3 – Acronyms and target assemblages as reported in the DCF framework

Target assemblage	Description
ANA	Anadromous
САТ	Catadromous
CEP	Cephalopods
CRU	Crustaceans
DEF	Demersal fish
DWS	Deep-water species
FIF	Finfish
FWS	Freshwater species
GLE	Glass eel
LPF	Large pelagic fish
MCD	Mixed crustaceans and demersal fish
MCF	Mixed cephalopods and demersal fish
MDD	Mixed demersal and deep-water species
MOL	Molluscs
MPD	Mixed pelagic and demersal fish
SLP	Small and large pelagic fish
SPF	Small pelagic fish

Since a vessel may use more than one gear during the year, and in some cases - especially where passive gears are concerned, also during the same day – the DCF framework has adopted the concept of fishing technique, indicating an aggregation of vessels using similar gears. Thus, a vessel is categorised under a given fishing technique on the basis of the "predominant" gear it uses. According to Commission Regulation (EC) No. 1639/2001 of 25 July 2001, establishing the minimum and extended EU programmes for the collection of data in the fisheries sector and laying down detailed rules for the application of Council Regulation (EC) No. 1543/2000 (OJ L 222, 17.8.2001, p. 53), predominant is defined as follows: "If a vessel spends more than 50% of its time using a specific type of fishing technique, it should be included in the corresponding segment" (note 2 of Appendix III, section C), where a segment is the combination of a particular fishing technique category and a vessel length category (Appendix III), as also reported in Figure 2.

#### Figure 2 – Definition of fleet segment under the DCF system

Appendix III (section C)

	Vessel length	< 12 m	12 - < 24 m	24 - < 40 m	≥ 40 m
Type of fishing technique					
Mobile gears	Beam trawl				
	Demersal trawl and demersal seiner				
	Pelagic trawl and seiners				
	Dredges				
	Polyvalent				
Passive gears	Gears using hooks				
	Drift and fixed nets	(1)			
	Pots and traps	()			
	Polyvalent				
olyvalent gears	Combining mobile and passive gears				

Basic segmentation of vessels for capacities (MP)

Note 1: If a gear category contains fewer than 10 vessels, then the cell can be merged with a neighbouring length category to be specified in the national programme.

Note 2: If a vessel spends more than 50 % of its time using a specific type of fishing technique, it should be included in the corresponding segment.

Note 3: Length is defined as length overall (LOA).

#### Source: Commission Regulation (EC) No. 1639/2001 of 25 July 2001 (Appendix VI)

Furthermore, according to EU Reg. 93/2010, if a vessel cannot be allocated to a fishing segment according to the predominance criterion, it is to be allocated to one of the following segments: (a) 'Vessels using Polyvalent active gears' if it only uses active gears; b) 'Vessels using Polyvalent passive gears' if it only uses passive gears; (c) 'Vessels using active and passive gears'.

When data on effort and landings are available by métier, the fishing technique is important from an economic point of view, since it is the category used for the collection and release - under the DCF - of fleet and economic data. Income and costs refer to the vessel unit; notably, some costs cannot be attributed to a separate gear, but to the vessel as a unit.

The fishing techniques identified by the DCF (European Decision 2008/949/EC, Appendix III) are reported in Table 4.

Fishing technique acronym	Fishing technique description
DFN	Drift and/or fixed netters
DRB	Dredgers
DTS	Demersal trawlers and/or demersal seiners
FPO	Vessels using pots and/or traps
НОК	Vessels using hooks (longliners)
MGO	Vessel using other active gears
MGP	Vessels using polyvalent active gears only
PG	Vessels using passive gears only for vessels < 12m
PGO	Vessels using other passive gears
PGP	Vessels using polyvalent passive gears only
PMP	Vessels using active and passive gears (polyvalent)
PS	Purse seiners
ТМ	Pelagic trawlers
ТВВ	Beam trawlers

Table 4 – Acronyms and fishing techniques identified by the DCF

Source: European Decision 2008/949/EC, Appendix III

The association of gears (Table 1) and of target assemblage (Table 3) is defined as a "fishery". The fisheries that are addressed in this report are listed in Table 6.

The analysis of fleet data performed for this report is based on the fishing technique (as attributed under the Italian national Programme for 2016) and provides, wherever possible, information on the relationship between fishing technique and fishery taken from the MIPAAF database.

Data on fleet composition, landings and effort in each GSA included in the Blufish project were analysed. It should be noted that official data refer to GSA 11 as a whole, whereas the project regards GSA 11.2, i.e. the waters bordering Sardinia (and GSA 11.1 encompasses an area between Sardinia and the Balearic Islands). Given the composition of the Sardinian fleet, it is very likely that all vessels operated in GSA 11.2. However, for consistency with the data sources, the diagrams and tables refer to GSA 11.

Fleet data were processed to produce a geographical representation of the main fishing ports (registration compartments and ports) and fleet distribution by GSA. The cartographic representations were obtained using GIS software. To incorporate national administrative boundaries as well as GSA boundaries into the maps, we used shape files provided by ISTAT (Italy's National Statistical Institute) and FAO (the United Nations Food and Agriculture Organisation), respectively and modified them so as to report information for all the GSAs in the same thematic map, even for regions bordered by different seas. This is the case of Puglia, which is divided into Northern Puglia (Adriatic Sea) and Ionian Puglia; Calabria, which is divided into Calabria Tyrrhenian and Ionian; and Sicily, which is divided into Northern Sicily (Tyrrhenian), Eastern Sicily (Ionian) and Southern Sicily (Strait of Sicily). Since there is no ISTAT shape file representing the FAO-GFCM geographical subdivisions (GSAs), a manual reconstruction of the coasts was carried out and the coastal municipalities were selected. Notably, vessels registered in a compartment (e.g. Trapani) may fish in more than one GSA, as some compartments straddle more than one GSA (in the case of

Trapani, GSA 10 and 16). The list of all the registration ports, by region and by GSA, is reported in Table 5.

GSA	Italian administrative regions	Registration ports
9	Latium	ANZIO
		CIVITAVECCHIA
		FORMIA
		GAETA
		PONZA
		ROMA
		SAN FELICE CIRCEO
		SPERLONGA
		TERRACINA
		TORVAIANICA
		VENTOTENE
	Liguria	ALASSIO
		ARENZANO
		CAMOGLI
		CHIAVARI
		FINALE LIGURE
		FOCE DI MAGRA
		GENOVA
		IMPERIA
		LA SPEZIA
		LAIGUEGLIA
		LAVAGNA
		LE GRAZIE
		LERICI
		LEVANTO
		LOANO
		MONEGLIA
		MONTEROSSO AL MARE
		PORTO VENERE
		PORTOFINO
		RAPALLO
		RIVA TRIGOSO
		SAN REMO

Table 5 – List of registration ports by GSA and administrative region

	-	
		SANTA MARGHERITA LIGURE
		SAVONA
		SESTRI LEVANTE
		VARAZZE
		VENTIMIGLIA
Т	Tuscany	CAPRAIA
		CASTIGLIONCELLO
		CASTIGLIONE DELLA PESCAIA
		CAVO

GSA	Italian administrative regions	Registration ports
		CECINA
		FOLLONICA
		FORTE DEI MARMI
		GIGLIO
		LIVORNO
		MARCIANA MARINA
		MARINA DI CAMPO
		MARINA DI CARRARA
		MARINA DI GROSSETO
		MARINA DI PISA
		ORBETELLO
		PIOMBINO
		PORTO AZZURRO
		PORTO ERCOLE
		PORTO SANTO STEFANO
		PORTOFERRAIO
		RIO MARINA
		SAN VINCENZO
		TALAMONE
		VADA
		VIAREGGIO
10	Tyrrhenian Calabria	AMANTEA
		BAGNARA
		BELVEDERE MARITTIMO
		CETRARO
		DIAMANTE
		GIOIA TAURO
		NICOTERA MARINA

		PALMI
		PIZZO
		PRAIA A MARE
		SAN LUCIDO
		SCALEA
		SCILLA
		TROPEA
		VIBO VALENTIA
	Campania	ACCIAROLI
		AGROPOLI
		AMALFI
		BAIA
		CAPITELLO
		CAPRI

GSA	Italian administrative regions	Registration ports
		CASAMICCIOLA
		CASTELLAMMARE DI STABIA
		CASTELVOLTURNO
		CETARA
		FORIO D'ISCHIA
		ISCHIA
		MAIORI
		MARINA DI CAMEROTA
		MARINA DI PISCIOTTA
		MASSALUBRENSE
		META DI SORRENTO
		MONDRAGONE
		MONTE DI PROCIDA
		NAPOLI
		PALINURO
		PIANO DI SORRENTO
		PORTICI
		POSITANO
		POZZUOLI
		PROCIDA
		SALERNO
		SANTA MARIA DI CASTELLABATE

		SAPRI
		SCARIO
		SORRENTO
		TORRE ANNUNZIATA
		TORRE DEL GRECO
		TORRE GAVETA
		VICO EQUENSE
		VIETRI SUL MARE
	Northern Sicily	BALESTRATE
		CAPO D'ORLANDO
		CASTELLAMMARE DEL GOLFO
		CEFALU'
		ISOLA DELLE FEMMINE
		LIPARI
		MILAZZO
		MONDELLO
		PALERMO
		PATTI MARINA
		PORTICELLO
		SALINA
		SAN VITO LO CAPO

GSA	Italian administrative regions	Registration ports
		SANT'AGATA DI MILITELLO
		SANTO STEFANO DI CAMASTRA
		SPADAFORA
		TERMINI IMERESE
		TERRASINI
		TORRE DI FARO
		TRABIA
		USTICA
11	Sardinia	ALGHERO
		ARBATAX
		BOSA
		CAGLIARI
		CALA GONONE
		CARLOFORTE
		CASTELSARDO
		GOLFO ARANCI

		LA MADDALENA	
		OLBIA	
		ORISTANO	
		PORTO CONTE (FERTILIA)	
		PORTO TORRES	
		PORTOSCUSO	
		SANTA TERESA DI GALLURA	
		SANT'ANTIOCO	
		SINISCOLA	
16	Southern Sicily	AVOLA	
		FAVIGNANA	
		GELA	
		LAMPEDUSA	
		LEVANZO	
		LICATA	
		MARETTIMO	
		MARSALA	
		MAZARA DEL VALLO	
		PANTELLERIA	
		PORTO EMPEDOCLE	
		PORTOPALO DI CAPO PASSERO	
		POZZALLO	
		SCIACCA	
		SCOGLITTI	
		SIRACUSA	
		TRAPANI	
17	Abruzzo	FRANCAVILLA A MARE	

GSA	Italian administrative regions	Registration ports
		GIULIANOVA
		MARINA DI SAN VITO
		MARTINSICURO
		ORTONA
		PESCARA
		ROSETO DEGLI ABRUZZI
		SILVI
		TORTORETO
		VASTO
	Emilia Romagna	BELLARIA

	CATTOLICA
	CERVIA
	CESENATICO
	GORO
	PORTO GARIBALDI
	RAVENNA
	RICCIONE
	RIMINI
Friuli Venezia Giulia	GRADO
	LIGNANO SABBIADORO
	MARANO LAGUNARE
	MONFALCONE
	MUGGIA
	SISTIANA
	TRIESTE
Marche	ANCONA
	CIVITANOVA MARCHE
	CUPRA MARITTIMA
	FANO
	GABICCE MARE
	GROTTAMMARE
	MAROTTA
	NUMANA
	PEDASO
	PESARO
	PORTO RECANATI
	PORTO SAN GIORGIO
	SAN BENEDETTO DEL TRONTO
	SENIGALLIA
Molise	TERMOLI
Veneto	BURANO
	CAORLE
	CHIOGGIA

GSA	Italian administrative regions	Registration ports
		IESOLO
		PELLESTRINA
		PORTO LEVANTE
		PORTO TOLLE

		SCARDOVARI
		VENEZIA
		BARI
18	Northern Apulia	BARLETTA
		BISCEGLIE
		BRINDISI
		GIOVINAZZO
		LESINA
		MANFREDONIA
		MARGHERITA DI SAVOIA
		MOLA DI BARI
		MOLFETTA
		MONOPOLI
		PESCHICI
		RODI GARGANICO
		TRANI
		VIESTE
		BIANCO
19	Ionian Calabria	BOVA MARINA
		BRANCALEONE
		CARIATI
		CATANZARO MARINA
		CIRO' MARINA
		CORIGLIANO CALABRO
		CROTONE
		MELITO DI PORTO SALVO
		MONASTERACE MARINA
		PELLARO
		REGGIO CALABRIA
		ROCCELLA IONICA
		SANT'ANGELO DI ROSSANO
		SIDERNO MARINA
		SOVERATO
		TREBISACCE
		VILLA SAN GIOVANNI
		CASTRO
	Ionian Apulia	GALLIPOLI
		LEUCA
		MARUGGIO

GSA	Italian administrative regions	Registration ports
		OTRANTO
		POLICORO
		SAN CATALDO
		TARANTO
		TORRE CESAREA
		TORRE SAN GIOVANNI
		TRICASE
		ACI CASTELLO
	Eastern Sicily	AUGUSTA
		CATANIA
		GIARDINI
		MESSINA
		OGNINA
		POZZILLO
		RIPOSTO
		SANTA MARIA LA SCALA
		SANTA TERESA A RIVA

### **2.3.2** *Identification of fisheries*

The importance of the fisheries found within each GSA included in the project was established also using a recent and validated scientific method, the STECF/EWG 15-14 (STECF, 2015) approach, which considers the 75 % threshold of the cumulative value and volume of landings. The approach was originally developed by the STECF to address the EC request for support of the implementation of the landing obligation and has been employed to identify the main European demersal fisheries in the Mediterranean.

The 75 % threshold of the cumulative value and volume of landings (sum of the values of the two years for which data were available, 2015-2016) was used for each fishery and gear combination in each GSA, to identify the most represented taxa, which characterise the UoAs, as highlighted in the plots reported in the Fast Scan results by GSA.

In the plots of each GSA, the change in the slope of the cumulative value and volume of landings is reported to provide detailed information on catch composition. A mixed category was created for taxa accounting for less than 500 kg in landing weight, which were pooled into a group that was defined as "OTH" (others).

All the fisheries thus identified were listed as UoAs and were defined as the combination of Species/ Management Unit (GSA) / Fishery/Gear (see Annex I). For each UoA, the status of the stock – where available - was reported based on the information obtained from the various databases (STECF, GFCM, ICCAT, etc.). Only assessments whose reference year was 2012 or later were used. Where multiple sources of information were available for the same stock, only the most recent were considered. The information on stock status was reported in terms of  $F/F_{MSY}$  (F=fishing mortality;  $F_{MSY}$  =fishing mortality at MSY level). If biomass reference points were available, such information was also reported.

The analysis of activity by métier, performed for each GSA, allowed identifying the combinations of gear and target assemblage ("fishery"), which are listed in Table 6.

Gear_target assemblage	"Fishery" description
DRB_MOL	Boat dredges for molluscs
FPO_DEF	Pots and traps for demersal fish
FYK_CAT	Fyke nets for catadromous
FYK_DEF	Fyke nets for demersal fish
GND_SPF	Driftnets for small pelagic fish
GNS_DEF	Set gillnets (anchored) for demersal fish
GNS_SLP	Set gillnets (anchored) for small pelagic fish
GTR_DEF	Trammel nets for demersal fish
LHP-LHM_CEP	Handlines and pole lines for cephalopods
LHP-LHM_FIF	Handlines and pole lines for finfish
LLD_LPF	Drifting longlines for large pelagic fish
LLS_DEF	Set longlines for demersal fish
LTL_LPF	Troll lines for large pelagic fish
MIS_MIS	Miscellaneous gears for miscellaneous fish
OTB_DEF	Bottom otter trawl for demersal fish
OTB_DWS	Bottom otter trawl for deep water species
OTB_MDD	Bottom otter trawl for mixed demersal and deep-water species
	Midwater otter trawl for mixed pelagic and
OTM_MPD	demersal fish
PS_LPF	Purse seines for large pelagic fish
PS_SPF	Purse seines for small pelagic fish
PTM_SPF	Pelagic pair trawl for small pelagic fish
SB-SV_DEF	Beach and boat seines for demersal fish
TBB_DEF	Beam trawl for demersal fish

Table 6 - Main fisheries identified in the GSAs included in the Fast Scan

Source: <u>https://datacollection.jrc.ec.europa.eu/</u> and Italian DCF National Programme. Source: Italian DCF National Programme. Data processed by NISEA

## **3. SCAN RESULTS**

## 3.1 Potential UoAs operating in the GSAs included in the Fast Scan

The Fast Scan process yielded 165 species, corresponding to 12 target assemblages, caught by 18 different gear types (23 combinations of gear and target assemblage) in the GSAs covered by the project. A total number of 3,884 potential UoAs were identified and is reported in <u>Annex I</u>, whereas detailed fleet composition, fishing compartment, métier and composition of landings (using the 75% threshold approach) data are reported below by GSA (Section 3.2).

The 50 UoAs that will be analysed in detail in Stage 1.b, Deeper mapping, will be taken from the 2,606 UoAs of GSAs 10, 11, 16, 18, and 19.

The list of species included in the Fast Scan is reported in Table 7.

Spp. (FAO 3alpha code)	Scientific name	Common name (Italian)	Common name (English)
AGK	Gymnothorax unicolor	Murena nera	Brown moray
ALB	Thunnus alalunga	Alalunga	Albacore
ALV	Alopias vulpinus	Pesce volpe	Thresher
AMB	Seriola dumerili	Ricciole	Greater amberjack
ANE	Engraulis encrasicolus	Alici	European anchovy
ANK	Lophius budegassa	Budego	Blackbellied angler
ANN	Diplodus annularis	Sarago sparaglione o sparlotto	Annular seabream
ARA	Aristeus antennatus	Gambero viola	Blue and red shrimp
ARG	Argentina spp	Argentine	Argentines
ARS	Aristaeomorpha foliacea	Gamberi rossi	Giant red shrimp
BBS	Scorpaena porcus	Scorfano nero	Black scorpionfish
BFT	Thunnus thynnus	Tonno rosso	Atlantic bluefin tuna
BIL	Istiophoridae	Istiophoridae	Marlins,sailfishes,etc. nei
BLL	Scophthalmus rhombus	Rombo liscio	Brill
BLU	Pomatomus saltatrix	Pesce serra	Bluefish
BOG	Boops boops	Boghe	Bogue
BON	Sarda sarda	Palamita	Atlantic bonito
BOY	Bolinus brandaris	Murice spinoso	Purple dye murex
BPI	Spicara maena	Mendola, mennola	Blotched picarel
BRB	Spondyliosoma cantharus	Tanute	Black seabream

## Table 7 – Species included in the Fast Scan by Spp. acronym (3 alpha code), scientific name, and common name (in Italian and English)

BRF	Helicolenus dactylopterus	Scorfani di fondale	Blackbelly rosefish
BSH	Prionace glauca	Verdesca	Blue shark
BSS	Dicentrarchus labrax	Spigole	European seabass

Spp. (FAO 3alpha code)	Scientific name	Common name (Italian)	Common name (English)
BSX	Serranidae	Serranidae	Groupers, seabasses nei
СВС	Cepola macrophthalma	Cepola	Red bandfish
СВМ	Sciaena umbra	Corvine	Brown meagre
CIL	Citharus linguatula	Linguattola	Spotted flounder
CLV	Veneridae	Altri veneridi	Venus clams nei
СОВ	Umbrina cirrosa	Ombrine	Shi drum
COE	Conger conger	Gronghi	European conger
COZ	Cardiidae	Cuore	Cockles nei
CRA	Brachyura	Granchi	Marine crabs nei
CRU	Crustacea	Altri crostacei	Marine crustaceans nei
CSH	Crangon crangon	Gamberetti crangon	Common shrimp
СТВ	Diplodus vulgaris	Sarago fasciato	Common two-banded seabream
СТС	Sepia officinalis	Seppia mediterranea o comune	Common cuttlefish
CTL	Sepiidae, Sepiolidae	Seppioline altre	Cuttlefish, bobtail squids nei
CTZ	Chelidonichthys lastoviza	Capone ubriaco	Streaked gurnard
CVW	Chlorophthalmus agassizi	Pastinaca	Shortnose greeneye
DEC	Dentex dentex	Dentici	Common dentex
DGZ	Squalus spp	Squali	Dogfishes nei
DOL	Coryphaena hippurus	Lampughe	Common dolphinfish
DON	Donax spp	Telline	Donax clams
DPS	Parapenaeus longirostris	Gamberi bianchi o rosa	Deep-water rose shrimp
EDT	Eledone moschata	Moscardino muschiato	Musky octopus
EHI	Centracanthus cirrus	Zerro musillo	Curled picarel
ELE	Anguilla anguilla	Anguille	European eel
EOI	Eledone cirrhosa	Moscardino bianco	Horned octopus
EZS	Scorpaena elongata	Scorfano rosa	Slender rockfish
FIM	Aphia minuta	Rossetto	Transparent goby
FLE	Platichthys flesus	Passera	European flounder

FOR	Phycis phycis	Musdea	Forkbeard
FRZ	Auxis thazard, A. rochei	Scombroidei	Frigate and bullet tunas
GAR	Belone belone	Aguglie	Garfish
GAS	Gastropoda	Gasteropodi	Gastropods nei
GAU	Galeus spp	Gattucci	Crest-tail catsharks nei
GFB	Phycis blennoides	Musdea bianca	Greater forkbeard
GPA	Gobiidae	Ghiozzi	Gobies nei
GPD	Epinephelus marginatus	Cernia di scoglio	Dusky grouper
GUG	Eutrigla gurnardus	Capone	Grey gurnard
GUM	Chelidonichthys obscurus	Capone gavotta	Longfin gurnard
GUN	Trigla lyra	Capone testola	Piper gurnard
GUR	Aspitrigla cuculus	Capone coccio	Red gurnard

Spp. (FAO 3alpha code)	Scientific name	Common name (Italian)	Common name (English)
GUU	Chelidonichthys lucerna	Gallinella o cappone	Tub gurnard
HKE	Merluccius merluccius	Nasello	European hake
нмм	Trachurus mediterraneus	Sugarello maggiore	Mediterranean horse mackerel
НОМ	Trachurus trachurus	Sugarello o suro	Atlantic horse mackerel
НХТ	Heptranchias perlo	Squalo manzo	Sharpnose sevengill shark
JAA	Trachurus picturatus	Sugarello pittato	Blue jack mackerel
JAI	Raja miraletus	Razza quattrocchi	Brown ray
JOD	Zeus faber	Pesce san pietro	John dory
JRS	Raja asterias	Razza stellata	Mediterranean starry ray
KLK	Callista chione	Fasolari	Smooth callista
LBE	Homarus gammarus	Astice	European lobster
LEE	Lichia amia	Leccia	Leerfish
LTA	Euthynnus alletteratus	Tonnetto	Little tunny(=Atl.black skipj)
LZS	Liza saliens	Cefalo verzelata	Leaping mullet
MAC	Scomber scombrus	Sgombro	Atlantic mackerel
MAS	Scomber japonicus	Lanzardo	Chub mackerel
MGA	Liza aurata	Cefalo dorato	Golden grey mullet
MGC	Liza ramada	Cefalo calamita	Thinlip grey mullet
ММН	Muraena helena	Murene	Mediterranean moray
MOL	Mollusca	Molluschi	Marine molluscs nei

MON	Lophius piscatorius	Rana pescatrice	Angler(=Monk)
			Blackspotted smoothhound
МРТ	Mustelus punctulatus	Palombo	
MSF	Arnoglossus laterna	Zanchetta	Mediterranean scaldfish
MTS	Squilla mantis	Pannocchie	Spottail mantis squillid
MUE	Murex spp	Murici	Murex
MUF	Mugil cephalus	Cefalo volpina	Flathead grey mullet
MUL	Mugilidae	Cefali altri	Mullets nei
MUR	Mullus surmuletus	Triglie di scoglio	Surmullet
MUT	Mullus barbatus	Triglie di fango	Red mullet
MZZ	Osteichthyes	Altri pesci	Marine fishes nei
NAU	Naucrates ductor	Pesce pilota	Pilotfish
NEP	Nephrops norvegicus	Scampi	Norway lobster
NSQ	Nassarius mutabilis	Lumachini	Changeable nassa
OCC	Octopus vulgaris	Polpo comune o di scoglio	Common octopus
OUW	Alloteuthis spp	Calamaretto	Alloteuthis squids nei
PAC	Pagellus erythrinus	Pagello fragolino	Common pandora
PIL	Sardina pilchardus	Sardine	European pilchard(=Sardine)
POA	Brama brama	Pesce castagna	Atlantic pomfret
POD	Trisopterus minutus	Cappellano	Poor cod

Spp. (FAO	Scientific name	Common name (Italian)	Common name (English)
3alpha code)			
РОР	Trachinotus ovatus	Leccia stella	Pompano
POR	Lamna nasus	Smeriglio	Porbeagle
		Gamberelli pandalidi o di	
PRA	Pandalus borealis	nassa	Northern prawn
RAE	Solen marginatus	Cannolicchio	European razor clam
RJA	Raja alba	Razza bianca	White skate
RJC	Raja clavata	Razza chiodata	Thornback ray
RJM	Raja montagui	Razza maculata	Spotted ray
RPG	Pagrus pagrus	Pagro comune	Red porgy
RSE	Scorpaena scrofa	Scorfano rosso	Red scorpionfish
SAA	Sardinella aurita	Alaccia	Round sardinella
SAN	Ammodytes spp	Cicerello	Sandeels(=Sandlances) nei
SAU	Scomberesox saurus	Costardelle	Atlantic saury

SBA	Pagellus acarne	Pagello mafrone	Axillary seabream
SBG	Sparus aurata	Orate	Gilthead seabream
SBL	Hexanchus griseus	Squalo capopiatto	Bluntnose sixgill shark
SBR	Pagellus bogaraveo	Pagello rovello	Blackspot(=red) seabream
SBS	Oblada melanura	Occhiate	Saddled seabream
SCF	Scophthalmidae	Rombi altri	Turbots nei
SCO	Scorpaenidae	Scorfani altri	Scorpionfishes nei
SCR	Maja squinado	Granceola	Spinous spider crab
SCX	Pectinidae	Pettini	Scallops nei
SDS	Mustelus asterias	Palombo stellato	Starry smooth-hound
SFS	Lepidopus caudatus	Pesce sciabola	Silver scabbardfish
SHR	Diplodus puntazzo	Sarago pizzuto	Sharpsnout seabream
SIL	Atherinidae	Latterino	Silversides(=Sand smelts) nei
SJA	Pecten jacobaeus	Capesante	Great Mediterranean scallop
SKA	Raja spp	Razze altre	Raja rays nei
SKJ	Katsuwonus pelamis	Tonnetto striato	Skipjack tuna
sкx	Elasmobranchii	Elasmobranchi	Sharks, rays, skates, etc. nei
SLM	Sarpa salpa	Salpa	Salema
SLO	Palinurus elephas	Aragosta	Common spiny lobster
SMD	Mustelus mustelus	Palombo liscio	Smooth-hound
SNQ	Scorpaena notata	Scorfanotto	Small red scorpionfish
SOL	Solea solea	Sogliola comune	Common sole
SOX	Soleidae	Sogliole miste	Soles nei
SPC	Spicara smaris	Zerro, menola	Picarel
SPN	Sphyrna spp	Squalo martello	Hammerhead sharks nei
SPR	Sprattus sprattus	Spratti	European sprat
SQC	Loligo spp	Calamari	Common squids nei
Spp. (FAO 3alpha code)	Scientific name	Common name (Italian)	Common name (English)
SQE	Todarodes sagittatus	Totano viola	European flying squid
SQM	Illex coindetii	Totano comune	Broadtail shortfin squid
SQR	Loligo vulgaris	Calamaro mediterraneo	European squid
SRG	Diplodus spp	Saraghi altri	Sargo breams nei
SRX	Rajiformes	Raiformi	Rays, stingrays, mantas nei

SSB	Lithognathus mormyrus	Mormore	Sand steenbras
STT	Dasyatidae	Occhi verdi	Stingrays, butterfly rays nei
SVE	Chamelea gallina	Vongole	Striped venus
SWA	Diplodus sargus	Sarago maggiore	White seabream
SWO	Xiphias gladius	Pesce spada	Swordfish
SYC	Scyliorhinus canicula	Gattuccio	Small-spotted catshark
SYT	Scyliorhinus stellaris	Gattopardo	Nursehound
TDQ	Todaropsis eblanae	Totano tozzo	Lesser flying squid
TGS	Penaeus kerathurus	Mazzancolle	Caramote prawn
TRA	Trachinidae	Tracine	Weeverfishes nei
TUR	Psetta maxima	Rombo chiodato	Turbot
UUC	Uranoscopus scaber	Pesce prete	Stargazer
VMA	Scomber colias	Lanzardo atlantico	Atlantic chub mackerel
WHB	Micromesistius poutassou	Melu' o potassolo	Blue whiting(=Poutassou)
WHG	Merlangius merlangus	Merlano	Whiting
			Wrasses, hogfishes, etc. nei
WRA	Labridae	Labridae	
ХКХ	Plesionika spp	Gobetto	Plesionika shrimps nei
XYN	Xyrichtys novacula	Pesce pettine o pesce rasoio	Pearly razorfish
YRS	Sphyraena sphyraena	Luccio	European barracuda

Source: ASFIS/FAO and Italian DCF National Programme. Data processed by NISEA

## 3.2 Detailed description of fisheries by GSA

#### 3.2.1 GSA 9

# Table 8 – GSA 9 fleet composition by fishing technique and vessel size class (length overall, LOA) as of 31 December 2016

Fishing technique	LOA classes	Number of vessels	Tonnage (GT)	Engine power (kW)	Average LOA	Average age of vessels
Dredgers	VL0612	4	29	492	11	37
	VL1218	20	208	2,110	12	30
Demersal trawlers	VL0612	22	127	1,629	10	37

	VL1218					
		138	2,908	21,515	15	33
	VL1824					
		124	6,834	34,018	21	36
	VL2440	9				
			818	4,325	26	31
Polyvalent passive gears	VL0006					
		299	303	2,643	5	35
	VL0612					
		968	2,246	41,118	8	32
	VL1218					
		63	796	9,781	14	29
Purse seiners	VL1218					
		29	531	4,497	15	28
	VL1824	9				
			415	2,425	21	32
	VL2440	8				
			603	3,009	26	38
Total GSA 9		1,693	15,817	127,560	10	33

Source: Italian DCF National Programme. Data processed by NISEA



Figure 3 – GSA 9: Map of registration ports and fleet characterisation by compartment

Source: Italian DCF National Programme. Data processed by NISEA

BLUFISH PROJECT Stage 1.a - Fast Scan

Fishery	Fishing technique	% volume of landings (mean 2015-2016)
Boat dredges for molluscs	DRB	100%
Pots and traps for demersal fish	PGP	100%
Fyke nets for catadromous	PGP	100%
Fyke nets for demersal fish	PGP	100%
Set gillnets (anchored) for demersal fish	DRB	0%
	PGP	100%
Set gillnets (anchored) for small pelagic fish	DRB	1%
	PGP	99%
	PS	0%
Trammel nets for demersal fish	DRB	0%
	DTS	0%
	PGP	98%
	PS	1%
Drifting longlines for large pelagic fish	PGP	100%
Set longlines for demersal fish	PGP	100%
Miscellaneous gears for miscellaneous fish	DTS	1%
	PGP	99%
Bottom otter trawl for demersal fish	DTS	100%
	PGP	0%
Bottom otter trawl for deep water species	DTS	100%
Midwater otter trawl for mixed pelagic and demersal fish	DTS	99%
	PGP	1%
Purse seines for large pelagic fish	PGP	44%
	PS	56%
Purse seines for small pelagic fish	PGP	0%
	PS	100%
Beach and boat seines for demersal fish	DTS	0%

# Table 9 - – GSA 9: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

PGP	D 100%

## Source: Italian DCF National Programme. Data processed by NISEA

#### LUFISH PROJECT Stage 1.a - Fast Scan

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#### Landing volume (tons, Effort (days at mean Landing value (€, sea, mean 2015-FISHERY 20152016) mean 2015-2016) 2016) LOA classes VL1218 Boat dredges for molluscs 859.817 104 1.652 Boat dredges for molluscs Total 104 859.817 1.652 Pots and traps for demersal fish VL0006 3 31.771 117 VL0612 3 49.566 197 VL1218 19.325 71 2 Pots and traps for demersal fish Total 6 75.114 291 Fyke nets for catadromous VL0006 44 287.527 2.315 Fyke nets for catadromous Total 44 287.527 2.315 Fyke nets for demersal fish VL0006 3.461 35 1 Fyke nets for demersal fish Total 1 3.461 35 Set gillnets (anchored) for demersal fish VL0006 85 930.418 7.545 VL0612 451 4.158.887 26.305 VL1218 279 2.347.001 2.444 Set gillnets (anchored) for demersal fish Total 7.436.306 815 36.294 Set gillnets (anchored) for small pelagic fish VL0006 44.729 432 6 VL0612 52 314.407 3.488

VL1218

6

49.804

123

#### Table 10 – GSA 9: Landings (volume and value) and effort in 2015-2016
Set gillnets (anchored) for small pelagic fish Total		64	408.940	4.043
Trammel nets for demersal fish	VL0006	553	4.146.632	17.668
	VL0612	1.298	13.187.597	60.556
	VL1218	54	644.553	1.753
Trammel nets for demersal fish Total		1.904	17.978.781	79.977
Drifting longlines for large pelagic fish	VL0006	1	3.677	218
	VL0612	390	3.903.396	4.462
	VL1218	203	2.103.703	1.448
Drifting longlines for large pelagic fish Total		593	6.010.776	6.128
Set longlines for demersal fish	VL0006	10	216.631	936
	VL0612	14	113.693	703
	VL1218	59	473.584	381
Set longlines for demersal fish Total		83	803.908	2.020
Miscellaneous gears for miscellaneous fish	VL0006	115	740.768	2.116
	VL0612	300	1.820.775	4.299
	VL1218	6	30.205	86
Miscellaneous gears for miscellaneous fish Total		422	2.591.748	6.500
Bottom otter trawl for demersal fish	VL0612	117	1.266.585	2.894
	VL1218	2.342	19.332.458	16.890
	VL1824	4.264	34.294.300	20.914
	VL2440	151	1.238.467	869
Bottom otter trawl for demersal fish Total		6.874	56.131.810	41.567
Bottom otter trawl for deep water species	VL1218	53	1.353.102	2.230
	VL1824	65	1.534.590	1.418
Bottom otter trawl for deep water species Total		118	2.887.692	3.648
Bottom otter trawl for mixed demersal and deep-water species	VL0612	13	177.528	1.158
	VL1218	296	3.633.714	3.967
	VL1824	241	2.303.465	1.531
	VL2440	82	1.075.326	772
Bottom otter trawl for mixed demersal and deep-water species To	tal	625	7.101.269	6.848

Purse seines for large pelagic fish	VL0612	35	141 182	219
	V/I 1218		141.102	213
	VLIZIO	22	96.632	57
Purse seines for large pelagic fish Total		40	167.223	167
Purse seines for small pelagic fish	VL0612	25	69.670	428
	VL1218	1.309	3.194.180	1.996
	VL1824	1.227	2.008.962	856
	VL2440	3.066	3.889.285	1.154
Purse seines for small pelagic fish Total		5.626	9.162.097	4.434
Beach and boat seines for demersal fish	VL0006	5	63.116	273
	VL0612	44	1.562.395	1.951
	VL1218	9	294.528	288
Beach and boat seines for demersal fish Total		58	1.920.039	2.512

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Figure 4 – GSA 9: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 2015-2016

































#### 3.2.2 GSA 10

		Number of		Engine	Average	Average age
Fishing technique	LOA classes	vessels	Tonnage (GT)	power (kW)	LOA	of vessels
Dredgers	VL1218					
		14	142	2,061	13	32
Demersal trawlers	VL0612					
		10	46	567	10	30
	VL1218	450	2 655	20 557		20
		152	2,655	20,557	14	29
	VL1824	70	1 169	19 055	21	26
Longliners	\/  1010	70	4,100	18,955	21	20
Longiners	VLIZIO	25	465	3,223	15	25
Polyvalent passive gears	VL0006					
		589	607	3,182	5	44
	VL0612					
		1,374	2,928	42,951	8	33
	VL1218					
		106	1,198	13,649	13	27
Polyvalent	VL0612	13	87	1,122	11	19
	VL1218					
		27	336	3,117	13	32
Purse seiners	VL1218					
		154	1,430	13,753	12	28
	VL1824					
		20	1,223	5,327	22	32
	VL2440	3	460	1 379	37	15
			400	1,3/3	52	10
	V L+UAA	10	2.520	7.923	43	26
Total GSA 10		2,567	18,265	137,765	9	35

## Table 11 – GSA 10: Fleet composition by fishing technique and vessel size class (length overall, LOA) as of 31 December 2016



Figure 5 – GSA 10: Map of registration ports and fleet characterisation by compartment

Fishery	Fishing technique	% volume of landings (mean 2015-2016)
Boat dredges for molluscs	DRB	100%
Pots and traps for demersal fish	PGP	100%
Driftnets for small pelagic fish	PGP	94%
	PS	6%
Set gillnets (anchored) for demersal fish	DTS	1%
	НОК	0%
	PGP	99%
	PS	0%
Set gillnets (anchored) for small pelagic fish	DTS	1%
	PGP	99%
	PS	0%
Trammel nets for demersal fish	PGP	99%
	PS	1%
Handlines and pole lines for cephalopods	PGP	100%
Drifting longlines for large pelagic fish	DTS	7%
	НОК	7%
	PGP	67%
	РМР	16%
	PS	3%
Set longlines for demersal fish	DTS	0%
	НОК	2%
	PGP	94%
	РМР	5%
Troll lines for large pelagic fish	PGP	100%
Miscellaneous gears for miscellaneous fish	PGP	95%
	РМР	5%
Bottom otter trawl for demersal fish	DTS	92%
	НОК	2%
	PGP	3%

# Table 12 - – GSA 10: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

	РМР	4%
Bottom otter trawl for deep water species	DTS	99%
	PGP	1%
Bottom otter trawl for mixed demersal and deep-water species	DTS	98%
	PGP	1%
	РМР	1%
Midwater otter trawl for mixed pelagic and demersal fish	DTS	100%
Purse seines for large pelagic fish	DTS	0%
	НОК	1%
	PGP	32%
	РМР	3%
	PS	64%
Purse seines for small pelagic fish	DTS	3%
	PGP	9%
	РМР	1%
	PS	87%
Beach and boat seines for demersal fish	DTS	79%
	PGP	21%

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#### LUFISH PROJECT Stage 1.a - Fast Scan

Table 13 – GSA 10: Landings (volume and value) and effort in 2015-2016					
FISHERY	LOA classes	Landing volume (tons, mean 2015-2016)	Landing value (€, mean 2015-2016)	Effort (days at sea, mean 2015-2016)	
Boat dredges for molluscs	VL1218	82	516.599	847	
Boat dredges for molluscs Total		82	516.599	847	
Pots and traps for demersal fish	VL0006	12	114.557	955	
	VL0612	64	614.024	4.849	
Pots and traps for demersal fish Total		76	728.581	5.803	
Driftnets for small pelagic fish	VL0612	36	170.975	382	
	VL1218	5	15.993	33	

### Table 13 – GSA 10: Landings (volume and value) and effort in 2015-2016

Driftnets for small pelagic fish Total		41	186.968	415
Set gillnets (anchored) for demersal fish	VL0006	142	1 600 106	14 429
	VL0612	717	7 166 716	33 374
	VL1218	, 1,	/.100./10	55.574
Sat sillnats (anchored) for domarcal fich Total		40	288.806	765
Set galinets (anchoreu) for temersar fish Total		899	9.055.627	48.578
Set gillnets (anchored) for small pelagic fish	VL0006	1	13.330	153
	VL0612	149	629.014	2.426
	VL1218	12	58.970	178
Set gillnets (anchored) for small pelagic fish Total		162	701 214	3 754
Trammel nets for demersal fish	VL0006	162	701.314	2.756
	VI.0612	683	6.255.245	42.543
	10012	1.263	11.481.962	54.636
	VL1218	30	238.119	930
GTR_DEF Total		1.976	17.975.326	98.110
Handlines and pole lines for cephalopods	VL0006	41	535.290	3.449
	VL0612	125	1.418.160	6.369
LHP-LHM_CEP Total		166	1.953.450	9.819
Drifting longlines for large pelagic fish	VL0006	10	64.158	1.878
	VL0612	904	6.985.973	25.006
	VL1218	1.182	8.437.590	9.115
	VL1824	123	1.090.611	859
Drifting longlines for large pelagic fish Total		2 210	16 579 222	26 956
Set longlines for demersal fish	VL0006	2.215	10.378.332	30.830
	VL0612	59	597.394	4.929
		673	4.359.630	20.250
	VL1218	249	1.354.328	3.521
Set longlines for demersal fish Total		980	6.311.352	28.700
Troll lines for large pelagic fish	VL0612	0	4.039	84
Troll lines for large pelagic fish Total		0	4.039	84
Miscellaneous gears for miscellaneous fish	VL0006	29	139.530	987
	VL0612	452	2.585.662	8.439
	VL1218	154	789.520	1.141
Miscellaneous gears for miscellaneous fish Total		635	3.514.712	10.567

Bottom otter trawl for demersal fish	VL0612	38	171.842	456
	VL1218	1.285	7.188.490	13.667
	VL1824	912	7.185.636	3.774
Bottom otter trawl for demersal fish Total		2.235	14.545.968	17.897
Bottom otter trawl for deep water species	VL1218	47	660.684	1.692
	VL1824	112	1.385.964	1.263
Bottom otter trawl for deep water species Total		159	2.046.648	2.956
Bottom otter trawl for mixed demersal and deep-water species	VL1218	552	4.232.681	7.512
	VL1824	811	6.244.192	4.459
Bottom otter trawl for mixed demersal and deep-water species Total		1.363	10.476.873	11.971
Midwater otter trawl for mixed pelagic and demersal fish	VL1218	185	1.733.707	3.575
	VL1824	179	717.099	281
Midwater otter trawl for mixed pelagic and demersal fish Total		364	2.450.806	3.856
Purse seines for large pelagic fish	VL0006	45	181.123	798
	VL0612	471	2.216.014	12.043
	VL1218	413	1.638.689	3.038
	VL1824	97	789.019	348
	VL2440	214	640.359	48
	VL40XX	1.042	11.167.586	10
Purse seines for large pelagic fish Total		2.174	16.312.609	16.260
Purse seines for small pelagic fish	VL0006	184	729.808	784
	VL0612	591	1.827.565	5.362
	VL1218	2.903	6.958.073	10.249
	VL1824	2.132	7.006.229	2.980
	VL2440	257	451.793	88
	VL40XX	437	798.078	216
Purse seines for small pelagic fish Total		6.412	17.406.642	19.287
Beach and boat seines for demersal fish	VL0612	13	118.564	504
Beach and boat seines for demersal fish Total		13	118.564	504

Figure 6 – GSA 10: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 2015-2016
































#### 3.2.3 GSA 11

# Table 14 - GSA 11: Fleet composition by fishing technique and vessel size class (length overall,LOA) as of 31 December 2016

Fishing technique	LOA classes	Number of vessels	Tonnage (GT)	Engine power (kW)	Average LOA	Average age of vessels
Demersal trawlers	VL1218					
		75	1,145	9,602	14	34
	VL1824					
		30	1,836	8,195	21	38
	VL2440					
		20	2,857	8,170	27	20
Polyvalent passive gears	VL0006					
		297	297	2,171	5	43
	VL0612					
		791	1,902	31,806	8	36
	VL1218					
		112	1,426	18,404	13	28
Total GSA 11		1,325	9,463	78,348	9	36



Figure 7 – GSA 11: Map of registration ports and fleet characterisation by compartment

Source: Italian DCF National Programme. Data processed by NISEA

Fishery	Fishing technique	% volume of landings (mean 20152016)
Pots and traps for demersal fish	DTS	0%
	PGP	100%
Set gillnets (anchored) for demersal fish	PGP	100%
Set gillnets (anchored) for small pelagic fish	PGP	100%
Trammel nets for demersal fish	PGP	100%
Handlines and pole lines for cephalopods	PGP	100%
Drifting longlines for large pelagic fish	DTS	5%
	PGP	95%
Set longlines for demersal fish	DTS	0%
	PGP	100%
Troll lines for large pelagic fish	PGP	100%
Miscellaneous gears for miscellaneous fish	PGP	100%
Bottom otter trawl for demersal fish	DTS	100%
Bottom otter trawl for deep water species	DTS	100%
Bottom otter trawl for mixed demersal and deep-water species	DTS	100%
Purse seines for large pelagic fish	PGP	100%
Purse seines for small pelagic fish	PGP	100%
Fyke nets for catadromous	PGP	100%
Handlines and pole lines for finfish	PGP	100%
Fyke nets for demersal fish	PGP	100%

# Table 15 – GSA 11: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

Source: Italian DCF National Programme. Data processed by NISEA

FISHERY	LOA classes	Landing volume (tons, mean 2015-2016)	Landing value (€, mean 2015- 2016)	Effort (days at sea, mean 2015- 2016)
Pots and traps for demersal fish	VL0006			
		284	1.622.983	13.602
	VL0612			
		661	4.287.245	23.122
	VL1218			
		88	591.119	1.752

### Table 16 – GSA 11: Landings (volume and value) and effort in 2015-2016

Pots and traps for demersal fish Total		1 022	6 601 247	20 177
Evke nets for catadromous	VI 0612	1.055	0.501.547	30.477
	10012	2	13.823	64
Fyke nets for catadromous Total		2	12 022	<i>ca</i>
Evke nets for demersal fish	VI 0006	2	13.823	04
	120000	1	20.687	673
Fyke nets for demersal fish Total		1	20.687	673
Set gillnets (anchored) for demersal fish	VL0006	191	1.427.830	8.582
	VL0612	303	2.797.912	13.067
	VL1218	26	223.720	615
Set gillnets (anchored) for demersal fish Total		520	4.449.462	22.264
Set gillnets (anchored) for small pelagic fish	VL0612	3	5.257	68
Set gillnets (anchored) for small pelagic fish Total		3	5.257	68
Trammel nets for demersal fish	VL0006	146	1.269.719	8.871
	VL0612	916	10.150.914	41.816
	VL1218	204	2.684.094	4.608
Trammel nets for demersal fish Total		1.265	14.104.727	55.294
Handlines and pole lines for cephalopods	VL0612	3	44.038	489
	VL1218	0	1.758	42
Handlines and pole lines for cephalopods Total		3	44.917	510
Handlines and pole lines for finfish	VL1218	2	23.994	81
Handlines and pole lines for finfish Total		2	23.994	81
Drifting longlines for large pelagic fish	VL0006	1	1.783	233
	VL0612	29	247.320	1.147
	VL1218	513	4.350.877	3.276
Drifting longlines for large pelagic fish Total		542	4.599.981	4.657
Set longlines for demersal fish	VL0006	2	19.890	163
	VL0612	94	926.818	3.570
	VL1218	39	396.590	662
Set longlines for demersal fish Total		135	1.333.354	4.314

Troll lines for large pelagic fish	VL0612			
		0	2.050	19
Troll lines for large pelagic fish Total				
		0	2.050	19
Miscellaneous gears for miscellaneous fish	VL0612			
		3	5.520	38
Miscellaneous gears for miscellaneous fish Total				
	-	3	5.520	38
Bottom otter trawl for demersal fish	VL1218			
		955	5.114.433	7.339
	VL1824	FCF	2 021 051	2 (70
		565	3.821.651	2.670
	VL2440	20	200.488	102
		30	209.488	103
Bottom ofter trawl for demersal fish Total		1 556	0 145 572	10 112
		1.550	9.145.572	10.112
Bottom otter trawl for deep water species	VL1218	16	170 004	122
	112440	10	170.904	132
	VL2440	92	1 212 972	/195
Pottom attar traul for doon water species Total		52	1.212.572	
bottom otter trawn of deep water species rotal		100	1.298.424	561
Bottom otter trawl for mixed demorsal and deen-water species	VI 1218			
bottom otter trawnor mixed demensar and deep water species	VLIZIO	237	1.761.023	1.639
	VI 1824			
	11021	206	1.516.974	902
	VL2440			
	-	695	5.667.800	2.886
Bottom otter trawl for mixed demersal and deep-water species Total				
		1.138	8.945.798	5.427
Purse seines for large pelagic fish	VL1218			
		79	601.459	362
Purse seines for large pelagic fish Total				
		79	601.459	362
Purse seines for small pelagic fish	VL1218			
		650	1.156.523	619
Purse seines for small pelagic fish Total				
		650	1.156.523	619

Source: Italian DCF National Programme. Data processed by NISEA

BLUFISH PROJECT Stage 1.a - Fast Scan Figure 8 – GSA 11: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 20152016



















BLUFISH PROJECT Stage 1.a - Fast Scan





SFS RJC

MAC BSH

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POA

COE NOW LTA MAS SMD GAR

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200

0







#### 3.2.4 GSA 16

Number of Engine Average Average age							
Fishing technique	LOA classes	vessels	Tonnage (GT)	power (kW)	LOA	of vessels	
Demersal trawlers	VL0612	21	123	1,781	11	37	
	VL1218	138	2,825	19,195	15	34	
	VL1824	131	7,847	33,198	21	33	
	VL2440	105	15,952	46,310	29	26	
Longliners	VL1218	22	381	3,060	14	26	
	VL1824	11	680	2,920	21	30	
Polyvalent passive gears	VL0006	173	173	1,548	5	37	
	VL0612	494	1,056	13,978	8	35	
	VL1218	24	306	2,541	13	28	
Purse seiners	VL1218	8	110	963	14	29	
	VL1824	11	826	3,406	24	34	
	VL2440	2	345	899	30	14	
	VL40XX	1	185	559	43	45	
Pelagic trawlers	VL1824	16	889	3,224	21	41	
Total GSA 16		1,157	31,698	133,582	13	34	

## Table 17 - GSA 16: Fleet composition by fishing technique and vessel size class (length overall, LOA) as of 31 December 2016



Figure 9 – GSA 16: Map of registration ports and fleet characterisation by compartment

# Table 18 – GSA 16: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

Fishery	Fishing technique	% volume of landings (mean 2015-2016)
Pots and traps for demersal fish	PGP	100%
Set gillnets (anchored) for demersal fish	PGP	100%
Set gillnets (anchored) for small pelagic fish	PGP	100%
Trammel nets for demersal fish	DTS	0%
	НОК	1%
	PGP	99%
Drifting longlines for large pelagic fish	DTS	1%
	НОК	65%
	PGP	34%
Set longlines for demersal fish	НОК	16%
	PGP	84%
Miscellaneous gears for miscellaneous fish	PGP	100%
Bottom otter trawl for demersal fish	DTS	99%
	НОК	0%
	PGP	1%
Bottom otter trawl for deep water species	DTS	100%
Bottom otter trawl for mixed demersal and deep-water species	DTS	100%
	НОК	0%
Midwater otter trawl for mixed pelagic and demersal fish	DTS	100%
Purse seines for large pelagic fish	DTS	1%
	PGP	36%
	PS	63%
Purse seines for small pelagic fish	PS	100%
Beach and boat seines for demersal fish	PGP	100%
Pelagic pair trawl for small pelagic fish	ТМ	100%

FISHERY	LOA	Landing volume (tons, mean 2015-2016)	Landing value (€, mean 20152016)	Effort (days at sea, mean 2015- 2016)
Pots and traps for demersal fish	VL0612			
		17	129.933	207
Pots and traps for demersal fish Total		17	129.933	207
Set gillnets (anchored) for demersal fish	VL0006	22	173.737	821
	VL0612	151	1.385.387	4.565
Set gillnets (anchored) for demersal fish Total		173	1.559.125	5.385
Set gillnets (anchored) for small pelagic fish	VL0006	10	57.347	504
	VL0612	30	175.023	565
Set gillnets (anchored) for small pelagic fish Total		41	232.371	1.069
Trammel nets for demersal fish	VL0006	297	2.953.331	17.205
	VL0612	1.204	12.351.306	48.549
	VL1218	71	887.254	2.306
Trammel nets for demersal fish Total		1.572	16.191.892	68.059
Drifting longlines for large pelagic fish	VL0006	14	133.230	723
	VL0612	170	1.794.899	2.573
	VL1218	427	3.897.431	2.371
	VL1824	324	2.962.571	1.242
	VL2440	2	21.695	19
Drifting longlines for large pelagic fish Total		928	8.732.364	6.558
Set longlines for demersal fish	VL0006	53	605.815	1.595
	VL0612	126	1.370.954	3.334
	VL1218	71	710.798	1.129
Set longlines for demersal fish Total		250	2.687.566	6.059
Miscellaneous gears for miscellaneous fish	VL0006	2	35.528	88
	VL0612	14	150.986	550
Miscellaneous gears for miscellaneous fish Total		14	168.750	594
Bottom otter trawl for demersal fish	VL0612	221	1.444.136	2.835
	VL1218	3.034	16.177.493	17.295

## Table 19 – GSA 16: Landings (volume and value) and effort in 2015-2016

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	VL1824	3.716	19.453.179	12.254
	VL2440	1.823	13.953.707	4.651
Bottom otter trawl for demersal fish Total		8.793	51.028.515	37.036
Bottom otter trawl for deep water species	VL1824	40	410 236	238
	VL2440	1.743	37.505.618	9.435
Bottom otter trawl for deep water species Total		1.783	37.915.854	9.673
Bottom otter trawl for mixed demersal and deep-water species	VL1218	274	2.179.227	1.636
	VL1824	1.214	9.713.039	5.671
	VL2440	1.563	15.190.417	5.131
Bottom otter trawl for mixed demersal and deep-water species Total		3.051	27.082.683	12.437
Midwater otter trawl for mixed pelagic and demersal fish	VL1824	245	752.350	329
Midwater otter trawl for mixed pelagic and demersal fish Total		245	752.350	329
Purse seines for large pelagic fish	VL0612	96	478.934	719
	VL1218	5	36.496	34
	VL1824	3	10.206	130
	VL2440	150	1.595.293	1
	VL40XX	179	1.973.400	6
Purse seines for large pelagic fish Total		266	2.291.734	870
Purse seines for small pelagic fish	VL1218	362	864.388	598
	VL1824	1.876	3.829.893	1.290
	VL2440	34	108.825	13
	VL40XX	135	259.215	52
Purse seines for small pelagic fish Total		2.339	4.932.713	1.927
Pelagic pair trawl for small pelagic fish	VL1824	1.237	2.681.933	2.481
Pelagic pair trawl for small pelagic fish Total		1.237	2.681.933	2.481
Beach and boat seines for demersal fish	VL0006	7	81.254	242
	VL0612	51	423.445	1.401
Beach and boat seines for demersal fish Total		59	504.700	1.643

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Figure 10 – GSA 16: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach , sum 20152016



#### BLUFISH PROJECT Stage 1.a - Fast Scan








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#### 3.2.5 GSA 17

Fishing technique	LOA classes	Number of vessels	Tonnage (GT)	Engine power (kW)	Average LOA	Average age of vessels
DRB	VL1218					
		583	7,993	63,305	14	29
DTS	VL0612					
		70	329	5,331	10	34
	VL1218					
		262	5,263	37,337	14	28
	VL1824					
		197	14,281	61,265	21	29
	VL2440					
		33	3,694	12,893	26	26
PGP	VL0006					
		623	623	8,000	5	33
	VL0612					
		1,080	2,510	51,550	8	27
	VL1218					
		13	186	2,676	13	17
PS	VL1218					
		15	147	1,868	12	37
	VL2440					
		21	1,989	8,282	25	32
	VL40XX					
		1	240	412	47	14
ТВВ	VL1218					
		7	194	1,494	16	38
	VL1824					
		37	3,216	15,798	22	27
	VL2440					
		11	1,124	4,071	25	28
	VL1218		4.075	0.000		25
	N# 400 4	41	1,075	8,808	10	25
	VL1824	20	2 575	10 105	22	22
	1/1 2 4 4 2	29	2,575	12,135	23	22
	VL2440	26	2 800	12 221	26	24
Total GSA 17		20	2,009 48 248	307 446	20	24 20
		0,040				

## Table 20 - GSA 17: Fleet composition by fishing technique and vessel size class (length overall,LOA) as of 31 December 2016



Figure 11 – GSA 17: Map of registration ports and fleet characterisation by compartment

Source: Italian DCF National Programme. Data processed by NISEA

Table 21 – GSA 17: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

Fishery	Fishing technique	% volume of landings (mean 2015-2016)
Boat dredges for molluscs	DRB	100%
Pots and traps for demersal fish	DTS	5%
	PGP	95%
Fyke nets for catadromous	PGP	100%
Fyke nets for demersal fish	DTS	18%
	PGP	82%
Set gillnets (anchored) for demersal fish	DTS	1%
	PGP	99%
Set gillnets (anchored) for small pelagic fish	PGP	100%
Trammel nets for demersal fish	DTS	0%
	PGP	100%
Drifting longlines for large pelagic fish	PGP	100%
Set longlines for demersal fish	PGP	100%
Miscellaneous gears for miscellaneous fish	DTS	2%
	PGP	98%
Bottom otter trawl for demersal fish	DRB	0%
	DTS	97%
	PGP	0%
	твв	2%
	ТМ	1%
Bottom otter trawl for deep water species	DTS	100%
Bottom otter trawl for mixed demersal and deep-water species	DTS	100%
Midwater otter trawl for mixed pelagic and demersal fish	ТМ	100%
Purse seines for large pelagic fish	PS	100%
Purse seines for small pelagic fish	PS	100%
Pelagic pair trawl for small pelagic fish	DTS	0%
	PGP	0%
	PS	7%
	ТМ	93%
Beam trawl for demersal fish	DTS	18%
	ТВВ	81%

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Source: Italian DCF National Programme. Data processed by NISEA

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FIGHERY		Landing volume (tons, mean 20152016)	Landing value (€, mean 2015- 2016)	Effort (days at sea, mean 2015-2016)
Post dradges for molluses	VI 1219	20132010)	2010,	2013-2010,
boat dredges for monuscs	VLIZIO	15.805	38.373.461	46.536
Boat dredges for molluscs Total		15.805	38.373.461	46.536
Pots and traps for demersal fish	VL0006	193	1.602.228	8.132
	VL0612	577	4.754.328	9.423
	VL1218	3	28.450	71
	VL2440	51	971.245	689
Pots and traps for demersal fish Total		796	6.856.404	17.935
Fyke nets for catadromous	VL0006	0	1.280	12
	VL0612	7	69.785	779
Fyke nets for catadromous Total		8	70.425	785
Fyke nets for demersal fish	VL0006	159	1.583.358	5.905
	VL0612	1.211	7.788.415	23.143
	VL1218	6	53.740	103
Fyke nets for demersal fish Total		1.377	9.425.513	29.151
Set gillnets (anchored) for demersal fish	VL0006	338	2.736.192	15.576
	VL0612	1.972	14.279.450	35.466
	VL1218	61	556.198	757
Set gillnets (anchored) for demersal fish Total		2.372	17.571.840	51.799
Set gillnets (anchored) for small pelagic fish	VL0612	1	6.433	25

#### Table 22 – GSA 17: Landings (volume and value) and effort in 2015-2016

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Set gillnets (anchored) for small pelagic fish Total		1	6.433	25
Trammel nets for demersal fish	VL0006			
	VL0612	106	887.212	4.446
		890	6.121.307	14.237
Trammel nets for demersal fish Total		996	7.008.519	18.682
Drifting longlines for large pelagic fish	VL0006	0	2.946	122
	VL0612	2	20.150	429
Drifting longlines for large pelagic fish Total		2	21.622	490
Set longlines for demersal fish	VL0612	11	107.963	353
Set longlines for demersal fish Total		11	107.963	353
Miscellaneous gears for miscellaneous fish	VL0006	203	654 904	3 887
	VL0612	1.851	5.954.081	18.845
	VL1218	14	78 9//	168
Miscellaneous gears for miscellaneous fish Total		14	78.544	108
Rottom otter trawl for demorsal fich	VI.0612	2.068	6.687.928	22.900
	VLOOIZ	221	1.528.739	1.990
	VL1218	5.739	36.400.720	29.570
	VL1824	8.110	52.227.444	24.575
	VL2440	1.731	11.242.546	4.538
Bottom otter trawl for demersal fish Total		15.800	101.399.449	60.673
Bottom otter trawl for deep water species	VL2440	7	209.247	164
Bottom otter trawl for deep water species Total		7	209.247	164
Bottom otter trawl for mixed demersal and deep-water species	VL1824	58	434.837	218
	VL2440	11	34.290	30
Bottom otter trawl for mixed demersal and deep-water species Total		64	451.982	233
Midwater otter trawl for mixed pelagic and demersal fish	VL1218	124	345 944	243
Midwater otter trawl for mixed pelagic and demersal fish Total		124	345.944	243
Purse seines for large pelagic fish	VL2440	2	15 124	- 7
	VL40XX	431	4 073 645	15
Purse seines for large pelagic fish Total		122	4 081 212	18
Purse seines for small pelagic fish	VL1218	452	4.001.212	10
	VL2440	678	1.787.615	1.525
	VII 40202	2.846	2.620.792	1.478
	VL4UXX	214	329.604	59

Purse seines for small pelagic fish Total				
		2.315	3.427.615	2.323
Pelagic pair trawl for small pelagic fish	VL1218			
		10.437	14.561.589	5.006
	VL1824			
		20.324	17.032.746	4.962
	VL2440			
		11.793	12.603.623	5.883
Pelagic pair trawl for small pelagic fish Total				
		42.555	44.197.957	15.851
Beam trawl for demersal fish	VL0612			
		15	62.599	296
	VL1218			
		463	2.422.735	1.894
	VL1824			
		2.579	16.276.916	5.645
	VL2440			
		1.118	4.258.388	1.773
Beam trawl for demersal fish Total				
		4.167	22.989.338	9.460

Source: Italian DCF National Programme. Data processed by NISEA

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Figure 12 – GSA 17: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 20152016











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#### 3.2.6 GSA 18

Number of Engine Average Average age								
Fishing technique	LOA classes	vessels	Tonnage (GT)	power (kW)	LOA	of vessels		
Dredgers	VL1218							
		76	811	7,573	12	26		
Demersal trawlers	VL0612							
		29	181	1,699	11	39		
	VL1218							
		289	5,613	38,153	14	25		
	VL1824							
		77	4,041	20,937	21	24		
	VL2440							
		13	1,181	5,090	26	30		
Longliners	VL1218							
		30	573	5,420	14	24		
Polyvalent passive gears	VL0006							
		174	174	641	5	41		
	VL0612							
		302	641	7,822	8	33		
Purse seiners	VL2440							
		7	765	2,844	28	30		
Pelagic trawlers	VL2440							
		18	1,465	8,443	24	23		
Total GSA 18		1,015	15,445	98,621	11	30		

### Table 23 - GSA 18: Fleet composition by fishing technique and vessel size class (length overall,LOA) as of 31 December 2016



Source: Italian DCF National Programme. Data processed by NISEA

# Table 24 – GSA 18: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

Fishery	Fishing technique	% volume of landings (mean 20152016)
Boat dredges for molluscs	DRB	100%
Pots and traps for demersal fish	PGP	100%
Set gillnets (anchored) for demersal fish	PGP	100%
Trammel nets for demersal fish	PGP	100%
Drifting longlines for large pelagic fish	НОК	100%
Set longlines for demersal fish	НОК	100%
Miscellaneous gears for miscellaneous fish	DTS	1%
	PGP	99%
Bottom otter trawl for demersal fish	DTS	100%
	PGP	0%
Bottom otter trawl for deep water species	DTS	100%
Bottom otter trawl for mixed demersal and deep-water species	DTS	100%
Purse seines for small pelagic fish	PS	100%
Pelagic pair trawl for small pelagic fish	ТМ	100%
Fyke nets for demersal fish	PGP	100%

Source: Italian DCF National Programme. Data processed by NISEA

#### Table 25 – GSA 18: Landings (volume and value) and effort in 2015-2016

FISHERY	LOA classes	Landing volume (tons, mean 2015-2016)	Landing value (€, mean 20152016)	Effort (days at sea, mean 2015-2016)
Boat dredges for molluscs	VL1218			
		957	3.946.205	4.694
Boat dredges for molluscs Total				
		957	3.946.205	4.694
Pots and traps for demersal fish	VL0006			
		7	37.889	767
	VL0612			
		32	167.932	2.378
Pots and traps for demersal fish Total				
		38	205.821	3.145

Fyke nets for catadromous	VL0006	10	05 211	030
	VI 0612	12	95.211	330
		87	740.242	4.686
Fyke nets for catadromous Total		99	835.453	5.616
Set gillnets (anchored) for demersal fish	VL0006	272	2 (55 100	15 200
	VI 0612	372	3.055.100	15.399
	10012	535	5.258.018	21.222
Set gillnets (anchored) for demersal fish Total		907	8.913.184	36.622
Trammel nets for demersal fish	VL0006			
		23	140.889	892
	VL0612	171	1.301.258	5.288
Trammel nets for demersal fish Total		104	1 442 148	6 180
Drifting longlines for large pelagic fish	VI 1218	134	1.442.140	0.180
	VLIZIO	219	2.263.110	746
Drifting longlines for large pelagic fish Total		219	2.263.110	746
Set longlines for demersal fish	VL1218	898	5 362 269	4 009
Set longlines for demersal fish Total		000	5.502.205	4.005
		898	5.362.269	4.009
Miscellaneous gears for miscellaneous fish	VL0006	22	44.727	898
	VL0612	107	221.628	2.586
	VL1218	3	80.060	186
Miscellaneous gears for miscellaneous fish Total				
		131	306.384	3.577
Bottom ofter trawl for demersal fish	VL0612	462	2.618.600	3.689
	VL1218	6 886	48 825 172	35 796
	VI 1824	0.000	1010201172	55.750
		2.112	14.796.524	8.995
	VL2440	532	2.724.831	1.630
Bottom otter trawl for demersal fish Total	VL2440	532 9.992	2.724.831 68.965.127	1.630 <b>50.109</b>
Bottom otter trawl for demersal fish Total Bottom otter trawl for deep water species	VL2440 VL1824	532 9.992	2.724.831 68.965.127	1.630 <b>50.109</b>
Bottom otter trawl for demersal fish Total Bottom otter trawl for deep water species	VL2440 VL1824	532 9.992 5	2.724.831 <b>68.965.127</b> 59.074	1.630 <b>50.109</b> 34
Bottom otter trawl for demersal fish Total Bottom otter trawl for deep water species	VL2440 VL1824 VL2440	532 9.992 5 6	2.724.831 <b>68.965.127</b> 59.074 61.649	1.630 <b>50.109</b> 34 30
Bottom otter trawl for demersal fish Total Bottom otter trawl for deep water species Bottom otter trawl for deep water species Total	VL2440 VL1824 VL2440	532 9.992 5 6	2.724.831 68.965.127 59.074 61.649	1.630 <b>50.109</b> 34 30
Bottom otter trawl for demersal fish Total         Bottom otter trawl for deep water species         Bottom otter trawl for deep water species Total         Bottom otter trawl for mixed demersal and deep water species	VL2440 VL1824 VL2440	532 9.992 5 6 11	2.724.831 68.965.127 59.074 61.649 120.723	1.630 50.109 34 30 64

	VL1824			
		298	2.430.320	1.604
	VL2440			
		114	785.380	447
Bottom otter trawl for mixed demersal and deep-water species Total				
		468	3.704.367	2.732
Purse seines for small pelagic fish	VL2440			
		1.889	2.453.679	817
Purse seines for small pelagic fish Total				
		1.889	2.453.679	817
Pelagic pair trawl for small pelagic fish	VL2440			
		6.935	7.342.348	2.473
Pelagic pair trawl for small pelagic fish Total				
		6.935	7.342.348	2.473

Source: Italian DCF National Programme. Data processed by NISEA

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Figure 14 – GSA 18: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 20152016








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#### 3.2.7 GSA 19

Number of Engine Average Average age						
Fishina technique	LOA classes	vessels	Tonnage (GT)	power (kW)	LOA	of vessels
Demersal trawlers	VL1218					
		199	3,228	27,604	14	24
	VL1824					
		26	1,739	7,101	22	28
Longliners	VL1218					
		51	838	8,662	14	25
	VL1824					
		27	1,979	9,692	22	24
Polyvalent passive gears	VL0006					
		352	352	1,875	5	36
	VL0612					
		735	1,823	25,536	8	31
	VL1218					
		83	1,320	11,633	14	22
Purse seiners	VL1218					
		18	429	2,687	16	29
	VL2440					
		3	537	1,837	35	21
	VL40XX					
		1	264	705	42	14
Total GSA 19		1,495	12,509	97,332	9	30

## Table 26 - GSA 19: Fleet composition by fishing technique and vessel size class (length overall, LOA) as of 31 December 2016

Source: Italian DCF National Programme. Data processed by NISEA



Figure 15 – GSA 19: Map of registration ports and fleet characterisation by compartment

Source: Italian DCF National Programme. Data processed by NISEA

Fishery	Fishing technique	% volume of landings (mean 2015-2016)
Pots and traps for demersal fish	PGP	100%
	PS	0%
Driftnets for small pelagic fish	DTS	0%
	НОК	38%
	PGP	61%
Set gillnets (anchored) for demersal fish	PGP	100%
Set gillnets (anchored) for small pelagic fish	PGP	100%
Trammel nets for demersal fish	PGP	100%
Handlines and pole lines for cephalopods	PGP	100%
Drifting longlines for large pelagic fish	DTS	3%
	НОК	61%
	PGP	36%
Set longlines for demersal fish	НОК	40%
	PGP	60%
Miscellaneous gears for miscellaneous fish	DTS	0%
	НОК	4%
	PGP	96%
Bottom otter trawl for demersal fish	DTS	98%
	PGP	2%
Bottom otter trawl for deep water species	DTS	99%
	PGP	1%
Bottom otter trawl for mixed demersal and deep-water species	DTS	99%
	PGP	1%
Midwater otter trawl for mixed pelagic and demersal fish	DTS	100%
Purse seines for large pelagic fish	НОК	21%
	PGP	12%
	PS	66%
Purse seines for small pelagic fish	НОК	13%
	PGP	42%

# Table 27 – GSA 19: Landing volumes (% mean of 2015-2016 figures) by fishery and fishing technique

	PS	45%
Beach and boat seines for demersal fish	DTS	3%
	PGP	97%

Source: Italian DCF National Programme. Data processed by NISEA

## Table 28 – GSA 19: Landings (volume and value) and effort in 2015-2016

FISHERY	LOA classes	Landing volume (tons, mean 2015-2016)	Landing value (€, mean 2015- 2016)	Effort (days at sea, mean 2015-2016)
Pots and traps for demersal fish	VL0006		CA 433	016
	VI.0612	9	64.433	916
	VLOOIZ	64	763.041	4.645
	VL1218	0	1.646	8
Pots and traps for demersal fish Total		73	828.296	5.566
Driftnets for small pelagic fish	VL0612	25	162 577	729
	VL1218	66	311.383	1.432
Driftnets for small pelagic fish Total		91	473.959	2.161
Set gillnets (anchored) for demersal fish	VL0006	322	2.696.739	18.779
	VL0612	821	6.419.310	35.668
	VL1218	13	94.314	333
Set gillnets (anchored) for demersal fish Total		1.155	9.210.362	54.781
Set gillnets (anchored) for small pelagic fish	VL0006	32	169.036	1.223
	VL0612	139	618.011	5.904
	VL1218	30	95.550	320
Set gillnets (anchored) for small pelagic fish Total		200	882.597	7.448
Trammel nets for demersal fish	VL0006	420	3.761.853	26.823
	VL0612	748	8.196.372	53.888
	VL1218	72	580.568	1.425
Trammel nets for demersal fish Total		1.239	12.538.793	82.136
Handlines and pole lines for cephalopods	VL0006	37	475.060	2.511
Handlines and pole lines for cephalopods Total		37	475.060	2.511
Drifting longlines for large pelagic fish	VL0006	31	116.200	1.968

	VL0612	312	1 974 605	6 950
	VL1218	512	1.574.005	0.550
		633	3.745.740	6.302
	VL1824	1.091	4.984.688	3.163
Drifting longlines for large pelagic fish Total		2.066	10.821.232	18.383
Set longlines for demersal fish	VL0006	32	484.195	1.284
	VL0612	288	2.479.448	11.748
	VL1218	512	2.843.659	4.360
	VL1824	13	57.576	66
Set longlines for demersal fish Total		839	5.836.090	17.425
Miscellaneous gears for miscellaneous fish	VL0006	246	1.498.792	4.786
	VL0612	65	524.379	1.949
	VL1218	72	269.992	505
	VL1824	29	86.511	731
Miscellaneous gears for miscellaneous fish Total		397	2.336.418	7.606
Bottom otter trawl for demersal fish	VL0612	11	75 203	291
	VL1218	198	1.015.492	2.014
	VL1824	210	1.256.808	1.158
Bottom otter trawl for demersal fish Total		414	2.309.902	3.317
Bottom otter trawl for deep water species	VL1218	854	13.368.123	16.994
	VL1824	64	866.480	910
Bottom otter trawl for deep water species Total		918	14 234 604	17.904
Bottom otter trawl for mixed demersal and deep-water species	VL1218	510	14.234.004	15.098
	VL1824	1.559	13.136.406	1 755
Bottom otter trawl for mixed demersal and deep-water species Total		400	3.033.249	1.755
Midwater atter trawl for mixed palagic and demortal fich	VI 1824	2.028	16.169.656	
	VLIOZ4	33	70.551	88
Midwater otter trawl for mixed pelagic and demersal fish Total		33	70.551	88
Purse seines for large pelagic fish	VL0006	11	49.017	214
	VL0612	36	175.729	597
	VL1218	201	698.841	1.316
	VL1824	141	447.689	507
	VL2440	190	1.760.888	10

	VL40XX			6
		325	3.574.219	
Purse seines for large pelagic fish Total				
		740	4.919.273	2.647
Purse seines for small pelagic fish	VL0612			
		81	375.234	1.251
	VL1218			
		1.467	3.998.736	3.264
	VL2440			
		91	170.927	100
Purse seines for small pelagic fish Total				
		1.639	4.544.897	4.615
Beach and boat seines for demersal fish	VL0612			
		37	187.610	930
	VL1218			
		11	62.240	249
Beach and boat seines for demersal fish Total				
		48	249.850	1.180

Source: Italian DCF National Programme. Data processed by NISEA

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Figure 16 – GSA 19: Composition of landings (volume and value) by fishery and species according to the 75% threshold approach, sum 20152016

Source: Italian DCF National Programme. Data processed by NISEA

















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### 4. References

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## 5. Annex I – <u>Fast Scan table</u>

## 6. Annex II – Agenda of the inception meeting

#### Agenda of the Inception meeting - Blufish Tender

Milano, MSC premises, May, 3 2018

10:45 - Welcome (MSC)

11:00 – General presentation of the project proposal (Loretta Malvarosa)

11:15 – Phase 1a: Fast Scan. Presentation of first results and proposals for completion of the current phase. (Giuseppe Scarcella)

- Agreement on the main elements to be reported for the fisheries identified;
- Agreement on the selection criteria for the Units of Certification

12:00 - Feedback from MSC on Phase 1a and agreement on the final template (MSC)

12:30 - Discussion of Phase 1b: b. Deeper mapping. Presentation of the general plan (Loretta Malvarosa/Giuseppe Scarcella)

13:15 - Lunch

14:30 - Discussion of Phase 1b: Identification of key stakeholders

15:30 - Feedback from MSC on the general plan; identification (and potentially solution) of any key issues requiring further work

16:00 - Agreement on a plan of action for Phase 1.b (Giuseppe Scarcella)

16:30 – AOB

17:00 - Closure of the meeting

BLUFISH PROJECT Stage 1.a - Fast Scan