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Evidence-based checklist of the Mediterranean Sea fishes

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ABSTRACT

An updated and evidence-based checklist of Mediterranean Sea fishes is provided. Each of the fish species in the Mediterranean Sea listed here was either listed in the last published checklist of the Mediterranean fishes or in other articles, reports or new records, and the checklist is critically assessed. Out of the assessed 791 species previously reported from the Mediterranean, the presence of 759 species is confirmed while 32 species are excluded from the new checklist, by lacking evidence of presence or representing obvious taxonomic confusions. The net increase in known Mediterranean fish species richness since the last checklist is 11%. The non-native Mediterranean species now represent 22.1% (168 species) of the known Mediterranean fish diversity. The evidence-based protocol applied here provides a reliable checklist of marine fishes, for which each of the included species has indeed been recorded at least once within the discussed geographic area in the Mediterranean Sea.

Key words: inventory, marine fishes, confirmed presence, diversity, Mediterranean

INTRODUCTION

The Mediterranean is a large enclosed sea (covering an area of about 2,500,000 km²) connected through several narrow straits to other seawater bodies: to the west with the adjacent north-eastern part of the Atlantic Ocean by the Straits of Gibraltar and to the north-east with the Black Sea through the Bosphorus. The opening of the man-made Suez Canal in 1869 also connected the Mediterranean in the south-east with the Red Sea and the broader Indian Ocean. The Mediterranean is divided by the Strait of Messina and the channel between Sicily and Tunisia into two main western and eastern basins, with each of them containing several smaller basins shaped by geography and bathymetry and often also recognizable by their specific hydrographic conditions. Although the eastern Atlantic Ocean is the origin of the native Mediterranean biota from the post-Messinian salinity crisis, the richness of the Mediterranean fauna, with its many endemic species, compared to the low endemism of the Lusitanian province, suggest that the Mediterranean basin probably functioned as the primary centre of the evolution and radiation of the biota of this entire East-Atlantic and Mediterranean warm-temperate area (Briggs 1974).

The major geological event in the history of the Mediterranean Sea that shaped its present marine fish biodiversity was the Messinian salinity crisis, about 5.6 million years ago, when this sea became disconnected from the world's oceans and mostly desiccated by evaporation (Garcia-Castellanos *et al.* 2007). This desiccation caused a major extinction of the marine ichthyofauna (Domingues *et al.* 2005). The crisis ended in an abrupt replenishment of the Mediterranean from the Atlantic after the emergence of the Strait of Gibraltar, with the vast majority of the extant Mediterranean marine ichthyofauna today having originated from the adjacent Atlantic fish fauna, whose ancestors had invaded the basin via this passage (Domingues *et al.* 2005). In the geological history, the Pleistocene ice ages too, over the last 2.6 million years, have had another huge impact on the diversity and distribution of the various fish species in the Mediterranean Sea. During the glacial and interglacial states, the sea temperature fluctuated correspondingly. According to the reconstructed cooling amplitude in the Mediterranean during the last cooling period, maximum temperature reached up to 6-7°C (Essallami *et al.* 2007), with severe changes in seawater conditions in the Mediterranean, changing them from warm temperate to cold temperate in the north and from subtropical to warm temperate in the south.

The present day Mediterranean Sea is a warm temperate basin characterized by high salinity. The increasing temperature and salinity along the north-western to south-eastern gradient limits the native fish diversity, mostly in its south-eastern corner, the Levant (Quignard & Tomasini 2000). The primary production also decreases along the same gradient. The deep Mediterranean Sea, below 300-400 m, presents a permanent homothermia of 12°-13°C that

is too warm for some deep-water Atlantic species or too cold for the Indo-Pacific newcomers (Quignard & Tomasini 2000).

An additional major impact on the contemporary marine fish biodiversity is that of human-induced changes that have resulted in the influx of non-Mediterranean origin fish species (Golani *et al.* 2016), leading to a reduction in populations of native species and increasing their extinction risks and, finally, regional extinctions of some of these species (Fernandes *et al.* 2017). The current Mediterranean fish diversity is the outcome of the combined effects of the above-mentioned events and the evolution and speciation processes that have taken place within the Mediterranean. These effects have led to the speciation of numerous species, resulting in a high rate of endemism (Quignard & Tomasini, 2000). Psomadakis *et al.* (2012) calculated that the endemic species comprise 11.6% of total native fish fauna. However, the estimated Mediterranean fish endemism in a broader sense, *i.e.* including species whose distribution slightly extends to the neighbouring Atlantic Ocean or the Black Sea is much higher, *e.g.* 19% according to Tortonese (1985) and 18.3% according to Fredj & Maurin (1987).

The Mediterranean Sea is a well-studied area with a pluri-centennial tradition in ichthyology. The first catalogue of Mediterranean fishes was published by Carus (1893). However, the number of recognised fish species for the area has been increasing continuously, with the description of new species and the extension of the known natural geographic distribution of several, probably native, overlooked Mediterranean fishes from the north-eastern Atlantic to the Mediterranean (for both, as example for the Mediterranean Gobiidae, see Kovačić 2020). Lipej & Dulčić (2004) identified, among factors for the increase in perceived fish biodiversity of the Adriatic Sea, the better prospection activities due to the increased research effort and new techniques (*e.g.* diving, underwater filming, use of narcotics for the study of cryptobenthic species, deep water prospecting), which allow the exploration of otherwise inaccessible habitats. The current increase in the number of fish species in the Mediterranean is also strongly linked to the arrival of non-native species. These are mainly so-called Lessepsian species, originating from the Indo-Pacific, entered through the Suez Canal dug in 1869 and to a lesser extent so-called Herculean species, originating from the Atlantic Ocean, entered through the Strait of Gibraltar (*e.g.* Golani *et al.* 2016). The arrival of non-native species appears as an accelerating phenomenon in recent decades.

Tortonese (1958a) compiled a list of 543 Mediterranean fish species, Quignard (1978) 562 fish species, Fredj & Maurin (1987) 638 fish species, Quignard & Tomasini (2000) 664 species fish and in the last published Mediterranean checklist of fishes Psomadakis *et al.* (2012) listed 684 fish species.

The various lists of the fish fauna in review papers and books often include doubtful records, providing a list of maximum expectations more than a reliable minimum containing only positive records. These extensive lists obstruct an accurate inventory of the fish species diversity in marine areas in general. An accurate inventory is, however, a prerequisite for conservation and fishery management plans (Kovačić *et al.* 2020). Consequently, in the present work we provide an updated checklist of the Mediterranean Sea fishes, together with a critical assessment of each species' presence, following a modified protocol of the evidence-based approach reported by Kovačić *et al.* (2020). The modification is described in the Material and Methods section.

MATERIAL AND METHODS

Each of the fish species in the Mediterranean Sea listed in the last published checklist (Psomadakis *et al.* 2012; 684 species) as well as those reported in published new records and not included in that checklist (107 species, see Tables 1 and 2 for references) has been critically assessed. The protocol of the evidence-based approach was modified and simplified from Kovačić *et al.* (2020). The recorded presence of fish species in the Mediterranean Sea is defined by at least one positive record of the species in the area. The most recent published update of the Mediterranean fish species records, to the best of the present authors' knowledge, is that of 15th February 2021. The protocol consists in several steps in the search for evidence, starting from the most direct and strongest evidence and continuing to the weaker records (Table 2). If none of the protocol steps were applicable to a species, that species was excluded from the checklist with the reason for doing so being listed in Table 3. In order to provide confirmation for the area, each species was checked against the criteria listed in Table 2, starting from criterion 1 and continuing with decreasing strength of evidence until reaching a criterion fulfilled by data on the particular species, down to criterion 5. For fish with multiple sources of evidence, the criterion with most weight was chosen. Only if the weight of several criteria was the same, an older record was selected as the chosen criterion. Considering the amount of existing data, we may

have overlooked the strongest evidence for a particular species or the oldest one among the criteria with the same weight. However, such minor oversight does not compromise the reliability of the species list and the confirmed presence of the species in the Mediterranean. Abbreviations of the fish collections referred to in this article (Table 1) in which the Mediterranean Sea specimens are stored, are listed in Table 4 following alphabetic order. The nomenclature matches that of Fricke *et al.* (2020). The classification in Table 1 follows Van der Laan *et al.* (2020), with the exception that families are given in alphabetic order within the orders.

Based on the list of species and their systematic affiliation, certain ecological indices were calculated: family diversity is calculated as $-\sum_{n=1}^{s}(Pi * \log Pi)$ an equation modified from Pielou (1969). S=number of species in the Mediterranean Sea; P*i*=the proportion of species of the i^{th} family out of the total number of species. J= evenness is calculated as H/Hmax, where Hmax represents the maximal relevant family diversity in the Mediterranean.

The species are categorised according to origin: Native species and Non-indigenous species (NIS) as defined in CIESM (2020) "*Only those exotic species of Indo-Pacific origin that were recorded after 1920 and of Atlantic origin that were recorded after 1960 are considered*". The NIS are divided into three groups: A, species of Atlantic origin, probably entered the Mediterranean via the Strait of Gibraltar; INT, assumed species introduced by aquaria hobbyists, aquaculture and by vessels or of doubtful origin; IP, species that entered the Mediterranean via the Suez Canal.

RESULTS

The previous presence of 791 fish species in the Mediterranean Sea was critically assessed, with 759 of these species confirmed as currently present (Table 1) and 32 species rejected from the checklist, by lacking evidence of presence or representing obvious taxonomic confusions, with an in-depth explanation (Table 3). Among the 759 confirmed species, 446 species had been published together with data on identification and related specimens from the Mediterranean Sea stored in a collection; 87 species had been published together with data on identification and with an independently published collection record; 66 species had, as the best available evidence, a positive identification from published photographs or video, together with evidence from morphological or genetic data or both; while 160 species had only a collection record and related publication with no published data on identification (Table 1).

The 759 species are assigned to five classes: Actinopteri (668 species), Elasmobranchii (87 species), Holocephali (1 species), Myxini (1 species) and Petromyzonti (2 species). The count of species at the various taxonomic levels is presented in Table 5 and the richness of families in Table 6. As evident from this table, the richest families among the Actinopteri are the Gobiidae (n=74), Sparidae (n=32), Blenniidae (n=24), Labridae (n=22), Carangidae (n=21) and Serranidae (n=21). Among the Elasmobranchii, the riches families are: Carcharhinidae (n=44), Rajidae (n=19), and Dasyatidae (n=7). The current number of fish species in the Mediterranean is represented by 591 native species and 168 non-indigenous species (NIS) (28.4% increase to the original native Mediterranean species richness, 22.1% of the present total richness *i.e.* of native and non-native species). Among the NIS, 37 species are categorised as A, 14 as INT and 117 as IP. The average number of fish species per family in the Mediterranean Sea is 4.13 (4.39 among the Actinopteri and 3.00 among the Elasmobranchii). Family diversity is 1.9848. Evenness rate is 0.6898.

DISCUSSION

The number of currently confirmed species (759) represents a 11% net increase of the known Mediterranean fish species richness since the last checklist (684 in Psomadakis *et al.* 2012), which represents a rate of 83.3 species/decade. An earlier dynamic of net increase revealed 19 new species from 1958 to 1978 (19 species/decade), 76 species from 1978 to 1987 (84.4 species/decade), 26 species from 1987 to 2000 (20 species/decade) and 20 species from 2000 to 2012 (16.7 species/decade) (Tortonese 1958; Quignard 1978; Fredj & Maurin 1987; Quignard & Tomasini 2000; Psomadakis *et al.* 2012). This dynamic of net increase demonstrates an uneven increase in species/decade rate with no clear long term trend, probably mainly reflecting the different methodologies and criteria applied for each of the lists in including or rejecting a species, rather than a long term speeding up or slowing down of new record rates. In the present study, criteria for including or rejecting a species were quite rigid. From the last checklist, 661

species were indeed confirmed in the present review by at least one positive record of the species in the Mediterranean Sea, while 23 species from that checklist were rejected. An additional eight species originating from other sources and checked according to the present criteria were also rejected from the list. Consequently, an astonishing 98 fish species have now been included for the first time among the known Mediterranean fish species richness, only nine years after the last checklist by Psomadakis *et al.* (2012). This finding indicates a speeding up of the increase in the Mediterranean fish species richness in the last decade. The main factor of increase is mainly related to the emergence of NIS in the Mediterranean Sea.

The unreliability of the published checklists of marine fishes is rarely emphasized or taken into consideration, whether in the compilation of new checklists or in the use of published checklist data for various purposes (Kovačić & Schembri 2019). Such checklists resemble a list of maximum expectations more than a reliable minimum containing only positive records. Kovačić & Schembri (2019) for example, found that for about half of the gobiid species that had been listed earlier for the Maltese waters, no positive evidence was provided of their actual presence in the area. The exceptions are rare: *e.g.* the checklist of Adriatic fishes published by Kovačić *et al.* (2020), which provides and explains the evidence for the presence for each of the listed Adriatic species. Unfortunately, the most common practice in producing marine fish species checklists has been simply to list the species name with no accompanying data, while including the references for only a small number of the listed species: *e.g.* Quignard & Tomasini (2000) for the Mediterranean checklist of fishes and Jardas (1985) for the Adriatic checklist of fishes. Psomadakis *et al.* (2012) for the Mediterranean and Lipej & Dulčić (2004, 2010) for the Adriatic checklists of fishes provided at least references of the last listing or first mention for the area of each species. Reference to a last listing can provide a source of data from which to start tracing back the presence of the species in the area, thereby increasing the quality of a checklist. We suggest that the evidence-based protocol should be used when seeking to compare checklists of marine fishes. When referring to existing checklists for biogeographic, ecological, conservation or fishery management purposes, the reliability of the data in these checklists should be considered (Kovačić *et al.* 2020).

For Mediterranean marine fishes, the present list of fish species with a confirmed presence offers a source of reliable biodiversity data and a starting point for status analyses, conservation actions and fishery management measures. Nevertheless, although those fish species, with at least one positive record in the area based on the available data, could constitute a common component of the ichthyofauna, they could also, for example, have since then become extinct in the area and no longer occur there; they could be a non-indigenous species with a not yet established population; or just be visitors from a single event such as drifting in with the sea current (Kovačić *et al.* 2020). Hence, a species with a positive species record could also be insignificant in regard to the present composition of fish communities in the area and have no current influence or role in the ecosystem (Kovačić *et al.* 2020). Kovačić *et al.* (2020) recommended a two-step approach: *i.e.* that the status, rarity or significance of a species in a particular area be assigned only to those species actually recorded in the area after being truly proven to be present there, with the evidence of at least one positive record. This would prevent the usually blurred demarcation between a species' record in the area and its present status there that results from analysing a combination of confirmed and unconfirmed species in the usual single-step approach (Jardas 1985; Quignard & Tomasini 2000). We also expect that some of the established positive records presented in the present work will be questioned in the future in the light of new taxonomic or zoogeographic knowledge, and that a species' presence will be rechecked through a re-examination of the published data and of the stored specimens, following the sources published in the present checklist.

Regarding the fishes extinct in the area and no longer occurring, certain species on the checklist of Mediterranean fishes have not been observed for decades, whether in oceanographic campaigns, catches from professional and amateur fisheries or even opportunistic observations. It can be admitted that these species are now virtually disappeared from the Mediterranean as a consequence of overfishing. These species include the Largetooth sawfish, *Pristis pristis* (Linnaeus, 1758), and the Smalltooth sawfish, *Pristis pectinata* Latham, 1794, the last confirmed record of which in the Mediterranean dates from 1959 and before 1956 respectively (Ferretti *et al*. 2015). For other species that have not been the subject of a historical inventory of records, and whose confusion is possible with similar species, it is currently not possible to specify the dates of the last confirmed report in the Mediterranean. An empirical and non-exhaustive approach to the literature nevertheless leaves us to estimate that these species have also virtually disappeared from the Mediterranean for several decades. These are the following species: the Common skate, *Dipturus batis* (Linnaeus, 1758), the Blue skate, *Dipturus intermedius* (Parnell, 1837), and the Sturgeon, *Acipenser sturio* Linnaeus, 1758. All of these species are characterized by large size, long lifespan, late maturity, benthic habitat and coastal affinity for at least part of their life cycle.

The present checklist also reveals some additional information. Although the Mediterranean Sea is a temperate to subtropical sea, the average number of fish species per family (4.13) is much lower than in the neighbouring Red Sea (8.01) and in other tropical seas (Goren 2021). This is probably due to two main reasons: the lack of complex habitats such as extended live and dead coral reefs; and the relatively young age of the present stage of the Mediterranean, which renewed its biota after the Messinian salinity crisis, less than 6 million years ago. The lower evenness index compared to the Red Sea (0.6894 compared to 0.8277 in the Red Sea; Goren 2021) indicate that habitat complexity in the warm temperate Mediterranean is lower compared to tropics.

Another important issue is the acceleration rate of NIS within a period of 75 years from the earliest reports (Steinitz, 1927; Liebman, 1934) until the publication by Golani *et al.* (2016), 88 species of NIS had been reported in the Mediterranean. Since then, in the following 18 years, an additional 81 species have been reported. A time series of the increase in NIS is presented in Table 7. This is a sharp acceleration in the appearance of NIS. The increasing water temperature, the planned widening of the Suez Canal and the appearance of habitat-builders in the Mediterranean such as tropical molluscs and tropical corals, are all expected to boost this process. Due to the aforementioned accelerating increase in the number of fish species in the checklist of Mediterranean fish fauna will increase also in the future and should be regularly assessed.

TABLE 1. The checklist of fishes' confirmed presence in the Mediterranean Sea. *Explanations of abbreviations of fish collections are provided in Table 4.

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Class MYXINI				
Order MYXINIFORMES				
MYXINIDAE				
Myxine glutinosa Linnaeus, 1758		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Pace *et al.* (2016)	3
Class PETROMYZONTI				
Order PETROMYZONTIFORMES				
PETROMYZONIDAE				
Lampetra fluviatilis (Linnaeus, 1758)		No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	De Cahsan *et al.* (2020)	4

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Petromyzon marinus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Class ELASMOBRANCHII				
Order HEXANCHINIFORMES				
HEXANCHIDAE				
Heptranchias perlo (Bonnaterre, 1788)		MVHN	Guallart *et al.* (2019)	1
Hexanchus griseus (Bonnaterre, 1788)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Bonnaterre (1788) and MNHN, Chagnoux (2020)	2
Hexanchus nakamurai Teng, 1962		The species can be positively identified just from the photo and morphological data that were included in the published record.	Bakiu *et al.* (2018)	3 and 4
Order LAMNIFORMES				
ALOPIIDAE				
Alopias superciliosus Lowe, 1841		HSR	Corsini-Foka & Sioulas (2009)	1
Alopias vulpinus (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
CARCHARIIDAE				
Carcharias taurus Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinsque (1810) and MNHN, Chagnoux (2020)	2
CETORHINIDAE				
Cetorhinus maximus (Gunnerus 1765)		MNHN	MNHN, Chagnoux (2020)	5
LAMNIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Carcharodon carcharias (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Isurus oxyrinchus Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinsque (1810) and MNHN, Chagnoux (2020)	2
Isurus paucus Guitart Manday, 1966		LEE	Hemida & Capapé (2008)	1
Lamna nasus (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
ODONTASPIDIDAE				
Odontaspis ferox (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMD.	Rafinesque (1810) and Mušin (1989)	2
Order CARCHARHINIFORMES				
CARCHARHINIDAE				
Carcharhinus altimus (Springer, 1950)		MEUFC	Ayas *et al.* (2020)	1
Carcharhinus amboinensis (Müller & Henle 1839)		GRPC	De Maddalena & Della Rovere (2005)	1
Carcharhinus brachyurus (Günther, 1870)		MNHN	MNHN, Chagnoux (2020)	5
Carcharhinus brevipinna (Valenciennes, 1839)		MEUFC	Ayas *et al.* (2019)	1
Carcharhinus falciformis (Bibron, 1839)		MSNG	Garibaldi & Orsi Relini (2012)	1
Carcharhinus limbatus (Valenciennes, 1839)		MBCN	Morey *et al.* (2006)	1
Carcharhinus obscurus (Lesueur, 1818)		MNHN	MNHN, Chagnoux (2020)	5

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Carcharhinus plumbeus (Nardo, 1827)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Nardo (1827) and MNHN, Chagnoux (2020)	2
Galeocerdo cuvier (Péron & Lesueur 1822)		MNHN	MNHN, Chagnoux (2020)	5
Prionace glauca (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Rhizoprionodon acutus (Rüppell, 1837)		FST	Ben Amor *et al.* (2016)	1
PENTANCHIDAE				
Galeus atlanticus (Vaillant, 1888)		MNHN	MNHN, Chagnoux (2020)	5
Galeus melastomus Rafinesque, 1810		Mediterranean syntypes in ANSP, according to Fricke *et al.* (2020).	Rafinesque (1810)	1
SCYLIORHINIDAE				
Scyliorhinus canicula (Linnaeus, 1758)		MNHN	Soares & Carvalho (2019)	1
Scyliorhinus duhamelii (Garman, 1913)	Soares & Carvalho (2019)	Mediterranean lectotype in MCZ, according to Soares & Carvalho (2019).	The species was recently revised (Soares & Carvalho 2019) with the splitting of *Scyliorhinus canicula* (Linnaeus, 1758) in two species, *Scyliorhinus duhamelii* being restricted to the Mediterranean Sea.	1
Scyliorhinus stellaris (Linnaeus, 1758)		MNHN	Soares & Carvalho (2019)	1
SPHYRNIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Sphyrna lewini (Griffith & Smith, 1834)		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Sperone *et al.* (2012)	4
Sphyrna mokarran (Rüppell, 1837)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Boero & Carli (1977)	3
Sphyrna tudes (Valenciennes, 1822)		Mediterranean syntype in MNHN according to MNHN, Chagnoux (2020).	Valenciennes (1822)	1
Sphyrna zygaena (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
TRIAKIDAE				
Galeorhinus galeus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Mustelus asterias Cloquet, 1819		MNHN	MNHN, Chagnoux (2020)	5
Mustelus mustelus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Mustelus punctulatus Risso, 1827		IOF	Pallaoro & Jardas (1996)	5
Order SQUALIFORMES				
CENTROPHORIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Centrophorus uyato (Rafinesque, 1810)	Psomadakis *et al.* (2012) as *Centrophorus granulosus* (Bloch & Schneider, 1801)	MNHN	MNHN, Chagnoux (2020). The species was recently revised (White *et al.* 2013; 2017 (Erratum for White *et al.* (2013)). It was previously confused as *Centrophorus granulosus* (Bloch & Schneider, 1801) in the Mediterranean and European waters.	5
DALATIIIDAE				
Dalatias licha (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
ETMOPTERIDAE				
Etmopterus spinax (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
OXYNOTIDAE				
Oxynotus centrina (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
SOMNIOSIDAE				
Centroscymnus coelolepis Barbosa du Bocage & de Brito Capello, 1864		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Torchio & Michelangeli (1971)	4

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Somniosus rostratus (Risso, 1827)		MNHN	MNHN, Chagnoux (2020)	5
SQUALIDAE				
Squalus acanthias Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Squalus blainville (Risso, 1827)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1827) and MNHN, Chagnoux (2020)	2
Squalus megalops (Macleay, 1881)		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Marouani *et al.* (2012)	4
Order SQUATINIFORMES				
SQUATINIDAE				
Squatina aculeata Cuvier, 1829		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Squatina oculata Bonaparte, 1840		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MEUFC.	Ergüden *et al.* (2019a)	1

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TABLE 1. (Continued)

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Squatina squatina (Linnaeus, 1758)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Lapinski & Giovos (2019)	3
Order ECHINORHINIFORMES				
ECHINORHINIDAE				
Echinorhinus brucus (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
Order TORPEDINIFORMES				
TORPEDINIDAE				
Tetronarce nobiliana (Bonaparte, 1835)		Mediterranean type material in ANSP, according to Fricke *et al.* (2020).	Bonaparte (1935)	1
Torpedo marmorata Risso, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020)	2
Torpedo torpedo (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Order RHINOPRISTIFORMES				
GLAUCOSTEGOIDAE				
Glaucostegus cemiculus (Geoffroy St. Hilaire, 1817)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Geoffroy St. Hilaire (1817)	1
PRISTIDAE				
Pristis pectinata Latham, 1794	Ferretti *et al.* (2015)	MZUF	Ferretti *et al.* (2015)	1
Pristis pristis (Linnaeus, 1758)	Ferretti *et al.* (2015)	MZSN	Ferretti *et al.* (2015)	1
RHINOBATIDAE				

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TABLE 1. (Continued)

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Rhinobatos rhinobatos (Linnaeus, 1758)		Mediterranean syntypes in NRM, according to Fricke *et al.* (2020).	Linnaeus (1758)	1
Order RAJIFORMES				
RAJIDAE				
Dipturus batis (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Dipturus intermedius (Parnell, 1837)	Iglésias *et al.* (2010)	The species can be positively identified just from the photo and morphological data that were included in the published record.	Iglésias *et al.* (2010)	3 and 4
Dipturus nidarosiensis (Storm, 1881)		CFM IEO	Ramírez-Amaro *et al.* (2017)	1
Dipturus oxyrinchus (Linnaeus, 1758)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	Linnaeus (1758)	1
Glaucostegus halavi (Fabricius, 1775)	Ben-Souissi *et al.* (2007)	INAT	Ben-Souissi *et al.* (2007)	1
Leucoraja circularis (Couch, 1838)		MNHN	MNHN, Chagnoux (2020)	5
Leucoraja fullonica (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Leucoraja melitensis (Clark, 1926)		Mediterranean syntypes in BMNH, according to Fricke *et al.* (2020).	Clark (1926)	1
Leucoraja naevus (Müller & Henle, 1841)		MNHN	MNHN, Chagnoux (2020)	5
Raja africana Capapé, 1977	Capapé (1977)	Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Capapé (1977)	1
Raja asterias Delaroche, 1809		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1

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Raja brachyura Lafont, 1873		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Lafont (1873)	1
Raja clavata Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Raja miraletus Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and Iglesias (2020)	2
Raja montagui Fowler, 1910		Mediterranean paratypes in MNHN, according to Fricke *et al.* (2020).	Fowler (1910)	1
Raja polystigma Regan, 1923		Mediterranean syntypes in BMNH.	Regan (1923)	1
Raja radula Delaroche, 1809		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
Raja undulata Lacepède, 1802		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Lacepède (1802)	1
Rostroraja alba (Lacepède, 1803)		MNHN	MNHN, Chagnoux (2020)	5
Order MYLIOBATIFORMES				
DASYATIDAE				
Bathytoshia centroura (Mitchill, 1815)		MNHN as *Dasyatis centroura* (Mitchill, 1815)	MNHN, Chagnoux (2020)	5
Dasyatis marmorata Steindachner, 1892	Ergüden *et al.* (2014)	MFF	Ergüden *et al.* (2014)	4
Dasyatis pastinaca (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5

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TABLE 1. (Continued)

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Dasyatis tortonesei Capapé 1975	Capapé (1975)	MNHN	Capapé (1975)	1
Himantura uarnak (Gmelin, 1789)		FBL-HIMR	Malek *et al.* (2010)	1
Pteroplatytrygon violacea (Bonaparte, 1832)		Mediterranean syntypes in ANSP, according to Fricke *et al.* (2020).	Rafinesque (1810)	1
Taeniura grabatus (Geoffroy Saint-Hilaire, 1817)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Geoffroy Saint-Hilaire (1817) and MNHN, Chagnoux (2020)	2
GYMNURIDAE				
Gymnura altavela (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
MOBULIDAE				
Mobula mobular (Bonnaterre, 1788)		The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	White *et al.* (2017)	4
MYLIOBATIDAE				
Aetomylaeus bovinus (Geoffroy Saint-Hilaire, 1817)		Possible Mediterranean syntypes in MNHN, according to Fricke *et al.* (2020).	Geoffroy Saint-Hilaire (1817)	1

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Myliobatis aquila (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
RHINOPTERIDAE				
Rhinoptera marginata (Geoffroy Saint-Hilaire, 1817)		MZUT	Perugia (1866)	1
Class HOLOCEPHALI				
Order CHIMAERIFORMES				
CHIMAERIDAE				
Chimaera monstrosa Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Class ACTINOPTERI				
Order ACIPENSERIFORMES				
ACIPENSERIDAE				
Acipenser naccarii Bonaparte, 1836		Mediterranean type material in ANSP, according to Fricke *et al.* (2020).	Bonaparte (1836)	1
Acipenser stellatus Pallas, 1771		FRIK	Economidis *et al.* (2000)	1
Acipenser sturio Linnaeus, 1758		ZCUP	Economidis *et al.* (2000)	1
Huso huso (Linnaeus, 1758)		MZUF	Tortonese (1970)	1
Order NOTACANTHIFORMES				
HALOSAURIDAE				
Halosaurus ovenii Johnson, 1864		DSZ	Pais *et al.* (2009)	1
NOTACANTHIDAE				

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TABLE 1. (Continued)

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Notacanthus bonaparte Risso, 1840		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1840) and MNHN, Chagnoux (2020)	2
Polyacanthonotus rissoanus (De Filippi & Verany, 1857)		Mediterranean holotype in MZUT, according to Fricke *et al.* (2020).	De Filippi & Verany (1857)	1
Order ANGUILIFORMES				
ANGUILIDAE				
Anguilla anguilla (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
CHLOPSIDAE				
Chlopsis bicolor Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
Ariosoma balearicum (Delaroche, 1809)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
CONGRIDAE				
Conger conger (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Gnathophis mystax (Delaroche, 1809)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
Rhynchoconger trewavasae Ben-Tuvia, 1993		Mediterranean type material in HUJ.	Ben-Tuvia (1993)	1
HETERENCHELYIDAE				
Panturichthys fowleri (Ben-Tuvia, 1953)		HUJ, SMNHTAU	Ben-Tuvia (1953)	1
MURAENESOCIDAE				

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Cynoponticus ferox Costa, 1846		BMNH	Gray (1854) as *Muraena myrus*.	1
Muraenesox cinereus (Forsskål, 1775)		HUJ	Golani & Ben-Tuvia (1982)	1
MURAENIDAE				
Enchelycore anatina (Lowe, 1838)		HUJ	Ben-Tuvia & Golani (1984)	1
Gymnothorax reticularis Bloch, 1795	Stern & Goren (2013)	SMNHTAU	Stern & Goren (2013)	1
Gymnothorax unicolor (Delaroche, 1809)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
Muraena helena Linnaeus, 1758		MNHN, SMNHTAU, HUJ	MNHN, Chagnoux (2020)	5
NEMICHTHYIDAE				
Nemichthys curvirostris (Strömman, 1896)	Iglésias *et al.* (2020)	MNHN	Iglésias *et al.* (2020)	1
Nemichthys scolopaceus Richardson, 1848		SMNHTAU, HUJ	Gökoðlu *et al.* (2009)	5
NETTASTOMATIDAE				
Facciolella oxyrhyncha (Bellotti, 1883)		FFAU	Golani *et al.* (2006a)	5
Nettastoma melanurum Rafinesque, 1810	Rafinesque (1810)	SMNHTAU	Tortonese (1970)	1
OPHICHTHIDAE				
Apterichtus anguiformis (Peters, 1877)		MNHN	MNHN, Chagnoux (2020)	5
Apterichtus caecus (Linnaeus, 1758)		Described in Mediterranean, neotype in MNHN, according to MNHN, Chagnoux (2020).	Linnaeus (1758)	1
Dalophis imberbis (Delaroche, 1809)		Mediterranean syntypes in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1

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Echelus myrus (Linnaeus, 1758)		Mediterranean syntypes in NRM, according to Fricke *et al.* (2020).	Linnaeus (1758)	1
Ophichthus rufus (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
Ophisurus serpens (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
Pisodonophis semicinctus (Richardson, 1848)		IRMA-CNR	Ragonese & Giusto (2000)	1
SYNAPHOBRANCHIDAE				
Dysomma brevirostre (Facciolà, 1887)		Described in Mediterranean, holotype lost. The example of Mediterranean specimen(s) stored and data published: ZMUB.	Facciolà (1887) and Sion *et al.* (2008)	1
Order CLUPEIFORMES				
CLUPEIDAE				
Alosa alosa (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Alosa fallax (Lacepède, 1803)		MNHN	MNHN, Chagnoux (2020)	5
Herklotsichthys punctatus (Rüppell, 1837)		SMNHTAU	Ben-Tuvia (1976)	1
Sardina pilchardus (Walbaum, 1792)		MNHN	MNHN, Chagnoux (2020)	5
Sardinella aurita Valenciennes, 1847		SMNHTAU	Stern *et al.* (2018)	1
Sardinella gibbosa (Bleeker, 1849)	Stern *et al.* (2015)	SMNHTAU	Stern *et al.* (2015)	1

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Sardinella maderensis (Lowe, 1838)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Sprattus sprattus (Linnaeus, 1758)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
DUSSUMIERIIDAE				
Dussumieria elopsoides Bleeker, 1849		SMNHTAU, HUJ	Ben-Tuvia (1953)	1
Etrumeus golanii DiBattista, R andall & Bowen, 2012	DiBattista *et al.* (2012)	Mediterranean type material in HUJ.	DiBattista *et al.* (2012)	1
ENGRAULIDAE				
Encrasicholina gloria Hata & Motomura, 2016	Hata & Motomura (2016)	Mediterranean type material in HUJ.	Hata & Motomura (2016)	1
Engraulis albidus Borsa, Collet & Durand, 2005	Borsa *et al.* (2005)	Mediterranean type material in MNHN, according to Borsa *et al.* (2005).	Borsa *et al.* (2005).	1
Engraulis encrasicolus (Linnaeus, 1758)		Mediterranean neotype in MNHN, according to Borsa *et al.* (2005).	Borsa *et al.* (2005).	1
Stolephorus indicus (van Hasselt, 1823)	Fricke *et al.* (2015)	HUJ	Fricke *et al.* (2015)	1
Stolephorus insularis Hardenberg, 1933	Fricke *et al.* (2012)	HUJ	Fricke *et al.* (2012)	1
SPRATELLOIDIDAE				
Spratelloides delicatulus (Bennet, 1832)		MNHN	Iglésias & Frotté (2015)	1
Order ALEPOCEPHALIFORMES				
ALEPOCEPHALIDAE				
Alepocephalus rostratus Risso, 1820		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Risso (1820a)	1
Order GONORYNCHIFORMES				
CHANIDAE				

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TABLE 1. (Continued)

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Chanos chanos (Fabricius, 1775)	Özvarol & Gökoðlu (2012)	FFAU	Özvarol & Gökoðlu (2012)	1
Order SILUROFORMES				
ARIIDAE				
Carlarius parkii (Günther, 1864)		HUJ	Golani & Ben-Tuvia (1986) as *Arius thalassinus* (Rüppell, 1835).	1
PLOTOSIDAE				
Plotosus lineatus (Thunberg, 1787)		HUJ	Golani (2002)	1
Order ARGENTINIFORMES				
ARGENTINIDAE				
Argentina sphyraena Linnaeus, 1758		SU	Cohen (1958)	1
Glossanodon leioglossus (Valenciennes, 1848)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1848)	1
Order STOMIIFORMES				
GONOSTOMATIDAE				
Cyclothone braueri Jespersen & Tåning, 1926		Mediterranean syntypes in MNHN, according to Fricke *et al.* (2020).	Jespersen & Tåning (1926)	1
Cyclothone microdon (Günther, 1878)		MNHN	MNHN, Chagnoux (2020)	5
Cyclothone pygmaea Jespersen & Tåning, 1926		MNHN	Iglésias (2020)	1
Gonostoma denudatum Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
Sigmops elongatus (Günther, 1878)		DBAEM	Potoschi *et al.* (2009)	1
PHOSICHTHYIDAE				

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TABLE 1. (Continued)

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Ichthyococcus ovatus (Cocco, 1838)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1838) and MNHN, Chagnoux (2020)	2
Vinciguerria attenuata (Cocco, 1838)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1838) and MNHN, Chagnoux (2020)	2
Vinciguerria poweriae (Cocco, 1838)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Cocco (1838) and the Steinhardt Museum of Natural History (2020)	2
STERNOPTYCHIDAE				
Argyropelecus hemigymnus Cocco, 1829		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1829) and MNHN, Chagnoux (2020)	2
Maurolicus muelleri (Gmelin, 1789)		MNHN	MNHN, Chagnoux (2020)	5
Valenciennellus tripunctulatus (Esmark, 1871)		IOF	Dulčić (2001)	1
STOMIIDAE				
Bathophilus nigerrimus Giglioli, 1882		Mediterranean holotype in MZUF, according to Fricke *et al.* (2020).	Giglioli (1882)	1
Borostomias antarcticus (Lönnberg, 1905)		MNHN	Iglésias (2020)	1

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Chauliodus sloani Bloch & Schneider, 1801		Mediterranean holotype in BMNH, according to Fricke *et al.* (2020).	Bloch & Schneider (1801)	1
Stomias boa (Risso, 1810)		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Order AULOPIFORMES				
AULOPIDAE				
Aulopus filamentosus (Bloch, 1792)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Bloch (1792) and MNHN, Chagnoux (2020)	2
Chlorophthalmus agassizi Bonaparte, 1840		Mediterranean type material in ANSP, according to Fricke *et al.* (2020).	Bonaparte (1840)	1
CHLOROPHTHALMIDAE				
Chlorophthalmus agassizi Bona parte, 1840		Mediterranean type material in ANSP, according to Fricke *et al.* (2020).	Bonaparte (1840)	1
EVERMANNELLIDAE				
Evermannella balbo (Risso, 1820)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Risso (1820b)	1
IPNOPIDAE				
Bathypterois dubius Vaillant, 1888		FSB	Capapé *et al*. (2019)	1
PARALEPIDIDAE				
Arctozenus risso (Bonaparte, 1840)		MNHN	Iglésias *et al.* (2020)	1

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TABLE 1. (Continued)

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Lestidiops pseudosphyraenoides (Ege, 1918)		The species can be positively identified just from the morphological data that were included in the published record.	Ege (1930)	4
Lestidiops sphyrenoides (Risso, 1820)		Mediterranean holotype in NRM, according to Fricke *et al.* (2020).	Risso (1820c)	1
Paralepis coregonoides Risso, 1820		Mediterranean paralectotype in MNHN, according to Fricke *et al.* (2020).	Risso (1820c)	1
Paralepis speciosa Bellotti, 1878		Mediterranean paratype in MNHN, according to Fricke *et al.* (2020).	Bellotti (1878)	1
Sudis hyalina Rafinesque, 1810		Described in Mediterranean, holotype lost, according to Fricke *et al.* (2020). The example of Mediterranean specimen(s) stored: SMNHTAU.	Rafinesque (1810) and the Steinhardt Museum of Natural History (2020)	2
SYNODONTIDAE				
Saurida lessepsianus Russell, Golani & Tikochinski, 2015	Psomadakis *et al.* (2012) as *Saurida undosquamis* (Richardson 1848).	Mediterranean type material in HUJ.	Russell *et al.* (2015)	1
Synodus saurus (Linnaeus, 1758)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Synodus synodus (Linnaeus, 1758)	Lloris (2015)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Four photographs were published in Lloris (2015) from Bello Rincon (Almeria).	3
Order MYCTOPHIFORMES				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
MYCTOPHIDAE				
Benthosema glaciale (Reinhardt, 1837)		HUJ	Golani (1994)	1
Ceratoscopelus maderensis (Lowe, 1839)		HUJ	Golani (1994)	1
Diaphus holti Tåning, 1918		SMNHTAU, HUJ	Golani (1994)	1
Diaphus metopoclampus (Cocco, 1829)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: IOF.	Dulčić (2001)	1
Diaphus rafinesquii (Cocco, 1838)		SMNHTAU, HUJ	Golani (1994)	1
Electrona risso (Cocco, 1829)		SMNHTAU, HUJ	Golani (1994)	1
Gonichthys cocco (Cocco, 1829)		HUJ	Golani (1994)	1
Hygophum benoiti (Cocco, 1838)		HUJ	Golani (1994)	1
Hygophum hygomii (Lütken, 1892)		SMNHTAU	Golani (1994)	1
Lampanyctus crocodilus (Risso, 1810)		SMNHTAU, HUJ	Golani (1994)	1
Lampanyctus pusillus (Johnson, 1890)		HUJ	Golani (1994)	1
Lobianchia dofleini (Zugmayer, 1911)		HUJ	Golani (1994)	1
Lobianchia gemellarii (Cocco, 1838)		Described in Mediterranean, no type material known.	Cocco (1838)	4
Myctophum punctatum Rafinesque, 1810		SMNHTAU, HUJ	Golani (1994)	1
Notoscopelus bolini Nafpaktitis, 1975		SMNHTAU	Nafpaktitis (1975)	1
Notoscopelus elongatus (Costa, 1844)		USNM	Nafpaktitis (1975)	1
Notoscopelus kroyeri (Malm, 1861)		HMIU	Keskin & Eryilmaz (2010)	1

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TABLE 1. (Continued)

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Symbolophorus veranyi (Moreau, 1888)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Natural History Museum Rijeka (2020)	5
Order LAMPRIFORMES				
LAMPRIDAE				
Lampris guttatus (Brünnich, 1788)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Ergüden *et al.* (2019b)	3
LOPHOTIDAE				
Lophotus lacepede Giorna, 1809		IOF	Dulčić & Soldo (2008)	1
REGALECIDAE				
Regalecus glesne Ascanius, 1772		MNHN	MNHN, Chagnoux (2020)	5
TRACHIPTERIDAE				
Trachipterus trachypterus (Gmelin, 1789)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Gmelin (1789) and MNHN, Chagnoux (2020)	2
Zu cristatus (Bonelli, 1819)	Falsone *et al.* (2017)		Falsone *et al.* (2017)	3
Order ZEIFORMES				
ZEIDAE				
Zenopsis conchifer (Lowe, 1852)		IIPB	Fernández *et al.* (2012)	1
Zeus faber Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Order GADIFORMES				
BREGMACEROTIDAE				

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TABLE 1. (Continued)

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Bregmaceros nectabanus Whitley, 1941	Psomadakis *et al.* (2012) as *Bregmaceros atlanticus* Goode & Bean, 1886	HUJ	Harold & Golani (2016)	1
GADIDAE				
Gadiculus argenteus Guichenot, 1850		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Guichenot (1850)	1
Gadus morhua Linnaeus, 1758	Morey *et al.* (2012)	ICSBHN	Morey *et al.* (2012)	1
Merlangius merlangus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Micromesistius poutassou (Risso, 1827)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1827) and MNHN, Chagnoux (2020)	2
Trisopterus luscus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Trisopterus minutus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
LOTIDAE				
Gaidropsarus granti (Regan, 1903)		ZMUB	Bello (2018)	1
Gaidropsarus macrophthalmus (Günther, 1867)		MNHN	Iglésias (2020)	1
Gaidropsarus mediterraneus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Gaidropsarus vulgaris (Cloquet, 1824)		MNHN	MNHN, Chagnoux (2020)	5
Molva macrophthalma (Rafinesque, 1810)		NHMR	Natural History Museum Rijeka (2020)	5

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TABLE 1. (Continued)

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Molva molva (Linnaeus, 1758)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Kersting & Azzurro (2019)	3
MACROURIDAE				
Coelorinchus caelorhincus (Risso, 1810)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	Risso (1810)	1
Coelorinchus mediterraneus Iwamoto & Ungaro, 2002		Mediterranean holotype in MNHN	Iwamoto & Ungaro (2002)	1
Coryphaenoides guentheri (Vaillant, 1888)		SMNHTAU	Goren & Galil (1997)	1
Coryphaenoides mediterraneus (Giglioli, 1893)		Mediterranean lectotype in MZUF, according to Fricke *et al.* (2020).	Giglioli (1893)	1
Hymenocephalus italicus Giglioli, 1884		Mediterranean syntypes in MZUF, according to Fricke *et al.* (2020).	Giglioli (1884)	1
Nezumia aequalis (Günther, 1878)		MNHN	Iglésias (2020)	1
Nezumia sclerorhynchus (Valenciennes, 1838)		SMNHTAU, HUJ	The Steinhardt Museum of Natural History (2020)	5
Trachyrincus scabrus (Rafinesque, 1810)		MNHN	Iglésias (2020)	1
MERLUCCIIDAE				
Merluccius merluccius (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
MORIDAE				
Eretmophorus kleinenbergi Giglioli, 1889		Mediterranean syntypes in MZUF, according to Fricke *et al.* (2020).	Giglioli (1889)	1
Gadella maraldi (Risso, 1810)		MNHN	Iglésias (2020)	1
Guttigadus latifrons (Holt & Byrne, 1908)		UAB	Matallanas (1985a) as *Laemonema latifrons* Holt & Byrne, 1908	1

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Lepidion guentheri (Giglioli, 1880)		IIPB	Stefanescu *et al.* (1991)	1
Lepidion lepidion (Risso, 1810)		MNHN	Banon *et al.* (2012) and Iglésias (2020)	1
Mora moro (Risso, 1810)		MNHN	Iglésias (2020)	1
Physiculus dalwigki Kaup, 1858		Holotype in MNHN possibly from Mediterranean. The example of Mediterranean specimen(s) stored: MNHN.	MNHN, Chagnoux (2020)	5
Rhynchogadus hepaticus (Facciolà, 1884)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: IIPB	Lloris *et al.* (1994)	1
PHYCIDAE				
Phycis blennoides (Brünnich, 1768)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Brünnich (1768) and MNHN, Chagnoux (2020)	2
Phycis phycis (Linnaeus, 1766)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1766) and MNHN, Chagnoux (2020)	2
Order BERCYFORMES				
BERYCIDAE				
Beryx decadactylus Cuvier, 1829		MSNG	Ariola (1904)	1
Beryx splendens Lowe, 1834		ZMUN	Psomadakis *et al.* (2011)	1

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Order TRACHCHTHYIFORMES				
TRACHICHTHYIDAE				
Gephyroberyx darwinii (Johnson, 1866)			Andaloro *et al.* (2012)	3 and 4
Hoplostethus mediterraneus Cuvier, 1829		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Order HOLOCENTRIFORMES				
HOLOCENTRIDAE				
Holocentrus adscensionis (Osbeck, 1765)	Vella *et al.* (2016a)	CBRG	Vella *et al.* (2016a)	1
Sargocentron rubrum (Forsskål, 1775)		HUJ, SMNHTAU	Haas & Steinitz (1947)	1
Order OPHIDIIFORMES				
BYTHITIDAE				
Bellottia apoda Giglioli, 1883		Mediterranean type material in MZUF, according to Fricke *et al.* (2020).	Giglioli (1883)	1
Cataetyx alleni (Byrne, 1906)		MSNG	Relini Orsi (1971) as *Oculospinus brevis* Koefoed, 1927.	1
Cataetyx laticeps Koefoed, 1927		SMNHTAU	Goren & Galil (2002)	1
Grammonus ater (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020)	2
CARAPIDAE				

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TABLE 1. (Continued)

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Carapus acus (Brünnich, 1768)		Described in Mediterranean, Mediterranean neotype designated by Markle & Olney (1990), ZMUC.	Brünnich (1768)	1
Echiodon dentatus (Cuvier, 1829)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
OPHIDIIDAE				
Benthocometes robustus (Goode & Bean, 1886)		ZMADU	Bilecenoglu *et al.* (2006)	1
Ophidion barbatum Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Ophidion rochei Müller, 1845		Mediterranean holotype in ZMB, according to Fricke *et al.* (2020).	Müller (1845)	1
Parophidion vassali (Risso, 1810)		Mediterranean syntypes in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Order BATRACHOIDIFORMES				
BATRACHOIDIDAE				
Halobatrachus didactylus (Bloch & Schneider, 1801)		MNHN	MNHN, Chagnoux (2020)	5
Order SCOMBRIFORMES				
BRAMIDAE				
Brama brama (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
Taractes rubescens (Jordan & Evermann, 1887)	Fiorentino *et al.* (2016)	MSNC	Fiorentino *et al.* (2016)	1
CENTROLOPHIDAE				
Centrolophus niger (Gmelin, 1789)		MNHN	MNHN, Chagnoux (2020)	5
Hyperoglyphe perciformis (Mitchill, 1818)		MNHN	Karrer (1986)	1

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TABLE 1. (Continued)

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Schedophilus medusophagus Cocco, 1839		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1839) and MNHN, Chagnoux (2020)	2
Schedophilus ovalis (Cuvier, 1833)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1833)	1
GEMPYLIDAE				
Ruvettus pretiosus Cocco, 1833		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MFMST.	Cocco (1833) and MNHN, Chagnoux (2020)	2
NOMEIDAE				
Cubiceps capensis (Smith, 1845)	Ariola (1912)	No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Repoted by Ariola (1912) and identity confirmed by Karerr (1986) and by Orsi Relini (2009)	3 and 4
Cubiceps gracilis (Lowe, 1843)		MNHN	Iglésias *et al.* (2020)	1
Psenes pellucidus Lütken, 1880		MNHN	MNHN, Chagnoux (2020)	5
POMATOMIDAE				
Pomatomus saltatrix (Linnaeus, 1766)		MNHN	MNHN, Chagnoux (2020) as *Pomatomus saltator* (Linnaeus, 1766).	5
SCOMBRIDAE				
Acanthocybium solandri (Cuvier, 1832)		IZUP	Tortonese (1949)	1

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Auxis rochei (Risso, 1810)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Auxis thazard (Lacepède, 1800)	Olle *et al.* (2019)	No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Olle *et al.* (2019)	4
Euthynnus alletteratus (Rafinesque, 1810)		MNHN	MNHN, Chagnoux (2020)	5
Katsuwonus pelamis (Linnaeus, 1758)		NRM	Kullander (2021)	5
Orcynopsis unicolor (Geoffroy Saint-Hilaire, 1817)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Geoffroy Saint-Hilaire (1817) and MNHN, Chagnoux (2020)	2
Rastrelliger kanagurta (Cuvier, 1816)		HUJ	Collette (1970)	1
Sarda sarda (Bloch, 1793)		MNHN	MNHN, Chagnoux (2020)	5
Scomber colias Gmelin, 1789		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Gmelin (1789) and MNHN, Chagnoux (2020)	2
Scomber scombrus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Scomberomorus commerson (Lacepède, 1800)		INAT	Ben-Souissi *et al.* (2006)	1

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Thunnus alalunga (Bonnaterre, 1788)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Bonaterre (1788) and MNHN, Chagnoux (2020)	2
Thunnus thynnus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
STROMATEIDAE				
Pampus argenteus (Euphrasen, 1788)		CNHM	Dulčić *et al.* (2004)	1
Stromateus fiatola Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
TETRAGONURIDAE				
Tetragonurus cuvieri Risso, 1810		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
TRICHIURIDAE				
Lepidopus caudatus (Euphrasen, 1788)		MNHN	MNHN, Chagnoux (2020)	5
Trichiurus lepturus Linnaeus, 1758		AUBM	Bariche & Fricke (2020)	5
Order SYNGNATHIFORMES				
CENTRISCIDAE				
Macroramphosus scolopax (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
DACTYLOPTERIDAE				

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Dactylopterus volitans (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
FISTULARIIDAE				
Fistularia commersonii Rüppell, 1838		HUJ	Golani *et al.* (2000)	1
Fistularia petimba Lacepède, 1803		SMNHTAU	Stern *et al.* (2017)	1
SYNGNATHIDAE				
Entelurus aequoreus (Linnaeus, 1758)		MNCN	Mattalanas (1989)	5
Hippocampus fuscus Rüppell, 1838		MNHN	Iglésias & Frotté (2015)	1
Hippocampus guttulatus Cuvier, 1829		Mediterranean neotype in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Hippocampus hippocampus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Minyichthys sentus Dawson, 1982		Described also on Mediterranean material, the Mediterranean holotype in ZMUC	Dawson (1982)	1
Nerophis lumbriciformis (Jenyns, 1835)		MNHN	Iglésias (2020)	1
Nerophis maculatus Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinsque (1810) and MNHN, Chagnoux (2020)	2
Nerophis ophidion (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5

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Syngnathus abaster Risso, 1827		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1827) and MNHN, Chagnoux (2020)	2
Syngnathus acus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Syngnathus phlegon Risso, 1827		MNHN	MNHN, Chagnoux (2020)	5
Syngnathus rostellatus Nilsson, 1855		FFAU	Gokoglu *et al.* (2004)	1
Syngnathus taenionotus Canestrini, 1871		Mediterranean type material in MSNG, according to Fricke *et al.* (2020).	Canestrini (1871)	1
Syngnathus tenuirostris Rathke, 1837		MNHN	MNHN, Chagnoux (2020)	5
Syngnathus typhle Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Order GOBIFORMES				
GOBIIDAE				
Aphia minuta (Risso, 1810)		MNHN	MNHN, Chagnoux (2020)	5
Aulopareia unicolor (Valenciennes, 1837)	Akel & Samir (2017)	Confirmed species diagnosis based on photography.	Verified by the personal communication of Helen Larson confirmed in Kovačić (2020) as a positive identification based on characters visible on the published photo in Akel & Samir (2017).	3
Buenia affinis Iljin, 1930		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Kovačić (2002)	1

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TABLE 1. (Continued)

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Buenia lombartei Kovačić, Ordines & Schliewen, 2018	Kovačić *et al.* (2018)	Mediterranean type material in NHMR.	Kovačić *et al.* (2018)	1
Buenia massutii Kovačić, Ordines & Schliewen, 2017	Kovačić *et al.* (2017)	Mediterranean type material in NHMR.	Kovačić *et al.* (2017)	1
Chromogobius quadrivittatus (Steindachner, 1863)		Mediterranean type material in NMW, according to Fricke *et al.* (2020).	Steindachner (1863)	1
Chromogobius zebratus (Kolombatović, 1891)		Mediterranean type material in NMW, according to Fricke *et al.* (2020).	Kolombatović (1891)	1
Corcyrogobius liechtensteini (Kolombatović, 1891)		Mediterranean type material in NMW.	Ahnelt (2005)	1
Coryogalops ocheticus (Norman, 1927)		HUJ	Kovačić & Golani (2008)	1
Cryptocentrus caeruleopunctatus (Rüppell, 1830)	Rothman & Goren (2015)	Confirmed species diagnosis based on photography.	Rothman & Goren (2015)	3 and 4
Crystallogobius linearis (Düben, 1845)		NHMR	Natural History Museum Rijeka (2020)	5
Deltentosteus collonianus (Risso, 1820)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: HUJ.	Kovačić & Golani (2008)	1
Deltentosteus quadrimaculatus (Valenciennes, 1837)		Mediterranean type material in MNHN, according to Bauchot (1991).	Valenciennes (1837)	1
Didogobius bentuvii Miller, 1966		Mediterranean type material in BMNH.	Miller (1966)	1
Didogobius schlieweni Miller, 1993		Mediterranean type material in ZSM.	Miller (1993)	1
Didogobius splechtnai Ahnelt & Patzner, 1995		Mediterranean type material in NMW.	Ahnelt & Patzner (1995)	1

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TABLE 1. (Continued)

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Gammogobius steinitzi Bath, 1971		Mediterranean type material in SMF.	Bath (1971)	1
Gobius ater Bellotti, 1888		Mediterranean type material in MSNG.	Tortonese (1963)	1
Gobius auratus Risso, 1810		Mediterranean type material in MNHN.	Heymer & Zander (1992)	1
Gobius bucchichi Steindachner, 1870		Mediterranean type material in NHMR.	Kovačić & Šanda (2016)	1
Gobius cobitis Pallas, 1814		SMNHTAU	Kovačić & Golani (2008)	1
Gobius couchi Miller & El-Tawil, 1974		NHMR	Kovačić (2001)	1
Gobius cruentatus Gmelin, 1789		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Kovačić *et al.* (2011)	1
Gobius fallax Sarato, 1889		Mediterranean type material in MNHN, according to Bauchot (1991).	Sarato (1889)	1
Gobius gasteveni Miller, 1974		MNCN	Ahnelt & Dorda (2004)	1
Gobius geniporus Valenciennes, 1837		Mediterranean type material in MNHN, according to Bauchot (1991).	Valeciennes (1837)	1
Gobius incognitus Kovačić & Šanda, 2016	Kovačić & Šanda (2016)	NHMR	Kovačić & Šanda (2016)	1
Gobius kolombatovici Kovačić & Miller, 2000		NHMR	Kovačić & Miller (2000)	1
Gobius niger Linnaeus, 1758		MNCN	Ahnelt & Dorda (2004)	1
Gobius ophiocephalus (Pallas, 1814)		MNHN	MNHN, Chagnoux (2020)	5
Gobius paganellus Linnaeus, 1758		NHMR	Kovačić *et al.* (2011)	1

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TABLE 1. (Continued)

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Gobius roulei de Buen, 1928		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Kovačić (1995)	1
Gobius vittatus Vinciguerra, 1883		Mediterranean type material in MSNG.	Tortonese (1963)	1
Gobius xanthocephalus Heymer & Zander, 1992		ZMH	Heymer & Zander (1992)	1
Gobius xoriguer Iglésias, Vukić & Šanda, 2021		MNHN	Iglésias *et al.* (2021)	1
Gymnesigobius medits Kovačić, Ordines, Ramirez-Amaro & Schliewen 2019	Kovačić *et al.* (2019)	NHMR	Kovačić *et al.* (2019)	1
Hazeus ingressus Engin, Larson & Erhan, 2018	Engin *et al.* (2018)	Mediterranean type material in IKC.	Engin *et al.* (2018)	1
Hetereleotris vulgaris (Klunzinger, 1871)	Hoese (1986)	ANSP	Hoese (1986)	1
Knipowitschia caucasica (Berg, 1916)		BMNH	Economidis & Miller (1990)	1
Knipowitschia panizzae (Verga, 1841)		NMW	Miller (1972)	1
Lebetus guilleti (Le Danois, 1913)		NHMR	Schliewen *et al.* (2019)	1
Lebetus patzneri Schliewen, Kovačić & Ordines 2019	Schliewen *et al.* (2019)	ZSM	Schliewen *et al.* (2019)	1
Lesueurigobius friesii (Malm, 1874)		MNCN	Ahnelt & Dorda (2004)	1
Lesueurigobius sanzi de Buen, 1918		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHM.	de Buen (1918) and Iglésias (2020)	2

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TABLE 1. (Continued)

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Lesueurigobius suerii (Risso, 1810)		Mediterranean type material in MNHN, according to Bauchot (1991).	Risso (1810)	1
Millerigobius macrocephalus (Kolombatović, 1891)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMF.	Bath (1973)	1
Neogobius melanostomus (Pallas, 1811)	Eryilmaz (2002)	HMIU	Eryilmaz (2002)	1
Ninnigobius canestrinii (Ninni, 1883)		Mediterranean type material in MZUF.	Vanni (1991)	1
Odondebuenia balearica (Pellegrin & Fage, 1907)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NMW.	Ahnelt (2005)	1
Oxyurichthys petersii (Klunzinger, 1871)		HUJ	Ben-Tuvia (1986)	1
Papillogobius melanobranchus (Fowler, 1934)		HUJ	Kovačić & Golani (2008)	1
Pomatoschistus adriaticus Miller, 1973	Psomadakis *et al.* (2012) as	Mediterranean type material in NMW.	Miller (1973a)	1
Pomatoschistus anatoliae Engin & Innal, 2017	Engin & Innal (2017)	Mediterranean type material in IKC.	Engin & Innal (2017)	1
Pomatoschistus bathi Miller, 1982		Mediterranean type material in SMF.	Miller (1982)	1
Pomatoschistus knerii (Steindachner, 1861)		Mediterranean type material in NMW.	Steindachner (1861)	1

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Pomatoschistus marmoratus (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Mejri *et al.* (2009)	1
Pomatoschistus microps (Krøyer, 1838)		NMW	Ahnelt (1991)	1
Pomatoschistus minutus (Pallas, 1770)		MNHN	MNHN, Chagnoux (2020)	5
Pomatoschistus nanus Engin & Seyhan, 2017	Engin & Seyah (2017)	Mediterranean type material in IKC.	Engin & Seyah (2017)	1
Pomatoschistus norvegicus (Collett, 1902)		BMNH	Stefanni (2000)	1
Pomatoschistus quagga (Heckel, 1837)		Mediterranean type material in NMW.	Heckel (1837)	1
Pomatoschistus tortonesei Miller, 1969		BMNH	Miller (1969a)	1
Pseudaphya ferreri (de Buen & Fage, 1908)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NMW.	Miller (1973b)	1
Silhouettea aegyptia (Chabanaud, 1933)		SMF	Miller (1988)	1
Speleogobius llorisi Kovačić, Ordines et Schliewen, 2016	Kovačić *et al.* (2016)	Mediterranean type material in NHMR.	Kovačić *et al.* (2016)	1
Speleogobius trigloides Zander & Jelinek, 1976		Mediterranean type material in ZMH.	Zander & Jelinek (1976)	1
Thorogobius ephippiatus (Lowe, 1839)		NHMR	Kovačić (1997)	1
Thorogobius macrolepis (Kolombatović, 1891)		Mediterranean type material in NMW.	Miller (1969b)	1
Tridentiger trigonocephalus (Gill, 1859)		SMNHTAU	Goren *et al.* (2009)	1

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Trypauchen vagina (Bloch & Schneider, 1801)		HUJ	Salameh *et al.* (2010)	1
Vanderhorstia mertensi Klausewitz, 1974		ZMADU	Bilecenoglu *et al.* (2008)	1
Vanneaugobius dollfusi (Brownell, 1978)		NHMR	Kovačić & Schembri (2019)	1
Vanneaugobius pruvoti (Fage, 1907)		The species was described on the Mediterranean Mediterranean type material which has not been stored, no other stored Mediterranean specimens known.	Fage (1907)	4
Zebrus zebrus (Risso, 1827)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: BMNH.	Miller (1977)	1
Order CARANGIFORMES				
BOTHIDAE				
Arnoglossus grohmanni (Bonaparte, 1837)		Mediterranean type material in ANSP, according to Fricke *et al.* (2020).	Bonaparte (1837)	1
Arnoglossus imperialis (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
Arnoglossus laterna (Walbaum, 1792)		MNHN	MNHN, Chagnoux (2020)	5
Arnoglossus nigrofilamentosus Fricke, Golani & Appelbaum-Golani, 2017	Fricke *et al.* (2017)	Mediterranean type material in HUJ.	Fricke *et al.* (2017)	1

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Arnoglossus rueppelii (Cocco, 1844)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1844) and MNHN, Chagnoux (2020)	2
Arnoglossus thori Kyle, 1913		Mediterranean type material in BMNH, according to Fricke *et al.* (2020).	Kyle (1913)	1
Bothus podas (Delaroche, 1809)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
CARANGIDAE				
Alectis alexandrina (Geoffroy Saint-Hilaire, 1817)		MSNG	Dulčić (2005) as *Alectis alexandrinus* (Geoffroy Saint-Hilaire, 1817)	1
*Alepes djedaba (*Fabricius, 1775)		HUJ, SMNHTAU	Steinitz (1927)	1
Campogramma glaycos (Lacepède, 1801)		NIB	Dulčić *et al.* (2003)	1
Caranx crysos (Mitchill, 1815)		SZN	Psomadakis *et al.* (2011)	1
Caranx fischeri Smith-Vaniz & Carpenter, 2007		No stored specimens. The species records from the Mediterranean Sea localities can be positively identified from the provided morphology of the new species description.	Smith-Vaniz & Carpenter (2007)	4
Caranx rhonchus Geoffroy Saint-Hilaire, 1817		Mediterranean type material in MNHN.	Smith-Vaniz & Carpenter (2007)	1
Decapterus russelli (Rüppell, 1830)		HUJ	Golani (2006)	1
Lichia amia (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020) as *Hypacanthus amia* (Linnaeus, 1758)	5

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Naucrates ductor (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Pseudocaranx dentex (Bloch & Schneider, 1801)		MNHN	MNHN, Chagnoux (2020)	5
Selene dorsalis (Gill, 1863)		No stored specimens. The species can be positively identified just from the morphological data that were included in the published record.	Vella & Deidun (2009)	4
Seriola carpenteri Mather, 1971		FSB	Capapé *et al.* (2018)	1
Seriola dumerili (Risso, 1810)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Seriola fasciata (Bloch, 1793)		IIPB	Massuti & Stefanescu (1993)	1
Seriola rivoliana Valenciennes, 1833		ICSBHN	Valls *et al.* (2011)	1
Trachinotus ovatus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Trachurus indicus Nekrasov, 1966		HMIU	Dalyan & Eryilmaz (2009)	1
Trachurus mediterraneus (Steindachner, 1868)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Steindachner (1868) and MNHN, Chagnoux (2020)	2
Trachurus picturatus (Bowdich, 1825)		MNHN	MNHN, Chagnoux (2020)	5
Trachurus trachurus (Linnaeus, 1758)		NRM	Linnaeus (1758)	5
CITHARIDAE				

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Citharus linguatula (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
CORYPHAENIDAE				
Coryphaena equiselis Linnaeus, 1758		No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Rizkalla & Heneish (2020)	4
Coryphaena hippurus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
CYNOGLOSSIDAE				
Cynoglossus sinusarabici (Chabanaud, 1931)		HUJ, SMNHTAU	Ben-Tuvia (1953)	1
Symphurus ligulatus (Cocco, 1844)		FFAU	Gramitto *et al.* (2011)	1
Symphurus nigrescens Rafinesque, 1810		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Rafinesque (1810)	1
ECHENEIDAE				
Echeneis naucrates Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Remora australis (Bennett, 1840)		MZUF	Tortonese (1970)	1
Remora osteochir (Cuvier, 1829)		MNHN	MNHN, Chagnoux (2020)	5
Remora remora (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
ISTIOPHORIDAE				

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Istiompax indica (Cuvier, 1832)		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Orsi Relini & Costa (1987) as *Makaira indica* (Cuvier, 1832)	4
Istiophorus platypterus (Shaw, 1792)	Psomadakis *et al.* (2012) as *Istiophorus albicans* (Latreille, 1804)	MNHN	MNHN, Chagnoux (2020)	5
Kajikia albida (Poey, 1860)		MSNG, according to according to Fricke *et al.* (2020).	Canestrini (1861), described as *Tetrapturus lessonae* Canestrini, 1861	1
Tetrapturus belone Rafinesque, 1810		Described in Mediterranean, neotype in USNM according to Fricke *et al.* (2020).	Rafinesque (1810)	1
Tetrapturus georgii Lowe, 1841		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Robins (1974)	4
PARALICHTHYIDAE				
Paralichthys lethostigma Jordan & Gilbert, 1884	Golani *et al.* (2015a)	HUJ	Golani *et al.* (2015a)	1
PLEURONECTIDAE				
Platichthys flesus (Linnaeus, 1758)		NHMR	Natural History Museum Rijeka (2020)	5
POLYNEMIDAE				

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TABLE 1. (Continued)

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Galeoides decadactylus (Bloch, 1795)		SMNHTAU, HUJ	Golani (2002)	1
RACHYCENTRIDAE				
Rachycentron canadum (Linnaeus, 1766)		HUJ	Golani & Ben-Tuvia (1986)	1
SCOPHTHALMIDAE				
Lepidorhombus boscii (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	MNHN, Chagnoux (2020)	5
Lepidorhombus whiffiagonis (Walbaum, 1792)		MNHN	MNHN, Chagnoux (2020)	5
Scophthalmus maximus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Scophthalmus rhombus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Zeugopterus regius (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
SOLEIDAE				
Bathysolea profundicola (Vaillant, 1888)		MNHN	MNHN, Chagnoux (2020)	5
Buglossidium luteum (Risso, 1810)		Described in Mediterranean, neotype in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Dagetichthys lusitanicus (de Brito Capello, 1868)		MNHN	MNHN, Chagnoux (2020) as *Dagetichthys lusitanica* (Capello, 1868)	5
Dicologlossa cuneata (Moreau, 1881)		MNHN	MNHN, Chagnoux (2020)	5
Microchirus azevia (de Brito Capello, 1867)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	de Brito Capello (1867)	1

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Microchirus boscanion (Chabanaud, 1926)		IIPB	Massutti *et al.* (2002)	1
Microchirus hexophthalmus (Bennet, 1831)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Li Greci *et al.* (1985-87)	3
Microchirus ocellatus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Microchirus variegatus (Donovan, 1808)		Described in Mediterranean, the placement of holotype unknown, MNHN.	Donovan (1808) and MNHN, Chagnoux (2020)	2
Monochirus hispidus Rafinesque, 1814		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1814) and MNHN, Chagnoux (2020)	2
Pegusa impar (Bennett, 1831)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Pegusa lascaris (Risso, 1810)		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Solea aegyptiaca Chabanaud, 1927		Described in Mediterranean, neotype in MNHN, according to Fricke *et al.* (2020).	Chabanaud (1927)	1
Solea senegalensis Kaup, 1858		MNHN	MNHN, Chagnoux (2020)	5
Solea solea (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Synapturichthys kleinii (Risso, 1827)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	Risso (1927)	1
SPHYRAENIDAE				
Sphyraena flavicauda Rüppell, 1838		HUJ	Golani (1992)	1

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Sphyraena obtusata Cuvier, 1829		MNHN, SMNHTAU, HUJ	Ben-Tuvia (1953)	1
Sphyraena pinguis Günther, 1874		IOF	Pallaoro & Dulčić (2001) as *Sphyraena chrysotaenia* Klunzinger, 1884	1
Sphyraena sphyraena (Linnaeus,1758)		Mediterranean syntypes in NRM, according to Fricke *et al.* (2020).	Linnaeus (1758)	1
Sphyraena viridensis Cuvier, 1829		MNHN	MNHN, Chagnoux (2020)	5
XIPHIIDAE				
Xiphias gladius Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Order ATHERINIFORMES				
ATHERINIDAE				
Atherina boyeri Risso, 1810		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Atherina hepsetus Linnaeus, 1758		Mediterranean type material in BMNH	Linneaus (1758)	1
Atherina presbyter Cuvier, 1829		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Atherinomorus forskalii (Rüppel, 1938)	Psomadakis *et al.* (2012) as *Atherinomorus lacunosus* Forster, 1801	HUJ	Kimura *et al.* (2007)	1
Order ARGENTINIFORMES				
MICROSTOMATIDAE				
Microstoma microstoma (Risso, 1810)		Mediterranean holotype in MNHN, according to MNHN, Chagnoux (2020)	Risso (1810)	1
Nansenia iberica Matallanas, 1985		Mediterranean holotype and paratypes in UAB	Matallanas (1985b)	1

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Nansenia oblita (Facciolà, 1887)		MNHN	Iglésias (2020)	1
Order CYPRINODONTIFORMES				
APHANIIDAE				
Aphaniop dispar (Rüppell, 1829)		SMNHTAU	Mendelssohn (1947)	1
Aphanius fasciatus (Valenciennes, 1821)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Valenciennes (1821)	1
Apricaphanius iberus (Valenciennes, 1846)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Valenciennes (1846)	1
Order BELONIFORMES				
BELONIDAE				
Ablennes hians (Valenciennes, 1846)	Alshawy *et al.* (2019a)	FBL-HIMR	Alshawy *et al.* (2019a)	1
Belone belone (Linnaeus, 1760)		MNHN	Chagnoux (2020)	5
Belone svetovidovi Collette & Parin, 1970		Mediterranean paratypes in FMNH, according to Fricke *et al.* (2020).	Collette & Parin (1970)	1
Tylosurus choram (Rüppell, 1837)		HUJ	Golani & Levy (2005)	1
Tylosurus crocodilus (Péron & Lesueur, 1821)	Sinis (2005)	Museum of the Laboratory of Ichthyology, Aristotle University of Thessaloniki, Greece	Sinis (2005)	1
Tylosurus imperialis (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
EXOCOETIDAE				

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TABLE 1. (Continued)

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Cheilopogon exsiliens (Linnaeus, 1771)		MNHN	MNHN, Chagnoux (2020)	5
Cheilopogon furcatus (Mitchill, 1815)		INAT	Ben-Souissi *et al.* (2005)	1
Cheilopogon heterurus (Rafinesque, 1810)		MNHN	MNHN, Chagnoux (2020)	5
Exocoetus obtusirostris Günther, 1866		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Tortonese (1937)	4
Exocoetus volitans Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Hirundichthys rondeletii (Valenciennes, 1847)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Valenciennes (1847)	1
Parexocoetus mento (Valenciennes, 1847)		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Bruun (1935)	4
HEMIRAMPHIDAE				
*Hemiramphus far (*Fabricius, 1775)		HUJ, SMNHTAU	Steinitz (1927)	1
Hyporhamphus affinis (Günther, 1866)		HUJ	Mouneimne (1977)	1
Hyporhamphus picarti (Valenciennes, 1847)		MNHN	MNHN, Chagnoux (2020)	5
SCOMBERESOCIDAE				

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Scomberesox saurus (Walbaum, 1792)		MNHN	MNHN, Chagnoux (2020)	5
Order MUGILIFORMES				
MUGILIDAE				
Chelon auratus (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020) as *Liza aurata* (Risso, 1810).	2
Chelon carinatus (Valenciennes, 1836)		SMNHTAU	Ben-Tuvia *et al.* (1986) as *Liza carinata*	1
Chelon labrosus (Risso, 1827)		Mediterranean type material in MNHN, according to MNHN, Chagnoux (2020).	Risso (1827)	1
Chelon ramada (Risso, 1827)		Mediterranean type material in MNHN, according to MNHN, Chagnoux (2020).	Risso (1827)	1
Chelon saliens (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020) as *Liza saliens* (Risso, 1810).	2
Mugil cephalus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Oedalechilus labeo (Cuvier, 1829)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Planiliza haematocheilus (Temmick & Schlegel, 1845)		FRIK	Koutrakis & Economidis (2000) as *Mugil soiuy* Basilewsky, 1855.	1
Order GOBIESOCIFORMES				
GOBIESOCIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Apletodon dentatus (Facciolà, 1887)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNS.	Fricke (2007)	1
Apletodon incognitus Hofrichter & Patzner, 1997		Mediterranean type material in NMW.	Hofrichter & Patzner (1997)	1
Diplecogaster bimaculata (Bonnaterre, 1788)		ZMUC	Briggs (1955)	1
Gouania adriatica Wagner, Kovačić & Koblmüller, 2020	Wagner *et al.* (2020)	Mediterranean type material in NHMR.	Wagner *et al.* (2020)	1
Gouania hofrichteri Wagner, Kovačić & Koblmüller, 2020	Wagner *et al.* (2020)	Mediterranean type material in NHMR.	Wagner *et al.* (2020)	1
Gouania orientalis Wagner, Kovačić & Koblmüller, 2020	Wagner *et al.* (2020)	Mediterranean type material in NHMR.	Wagner *et al.* (2020)	1
Gouania pigra (Nardo, 1827)	Wagner *et al.* (2020)	Described in Mediterranean, Mediterranean neotype designated by Wagner *et al.* (2020), NHMR.	Wagner *et al.* (2020)	1
Gouania willdenowi (Risso, 1810)		Described in Mediterranean, Mediterranean neotype designated by Wagner *et al.* (2020), NHMR.	Wagner *et al.* (2020)	1
Lepadogaster candolii Risso, 1810		Mediterranean type material in MZUF, according to Fricke *et al.* (2020).	Risso (1810)	1
Lepadogaster lepadogaster (Bonnaterre, 1788)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: BMNH.	Briggs (1955)	1

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TABLE 1. (Continued)

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Lepadogaster purpurea (Bonnaterre, 1788)		NHMR	Wagner *et al.* (2017)	1
Opeatogenys gracilis (Canestrini, 1864)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NHMR.	Kovačić & Schembri (2019)	1
Order BLENNIIFORMES				
BLENNIIDAE				
Aidablennius sphynx (Valenciennes, 1836)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1836)	1
Blennius ocellaris Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Coryphoblennius galerita (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Hypleurochilus bananensis (Poll, 1959)		SMF	Bath (1965)	1
Istiblennius meleagris (Valenciennes, 1836)	Rothman *et al.* (2020)	SMNHTAU	Rothman *et al.* (2020)	1
Lipophrys pholis (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Lipophrys trigloides (Valenciennes, 1836)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1836)	1
Microlipophrys adriaticus (Steindachner & Kolombatović, 1883)		Mediterranean type material in NMW, according to Fricke *et al.* (2020).	Steindachner & Kolombatović (1883)	1
Microlipophrys canevae (Vinciguerra, 1880)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Vinciguerra (1880)	1

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TABLE 1. (Continued)

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Microlipophrys dalmatinus (Steindachner & Kolombatović, 1883)		Mediterranean type material in NMW, , according to Fricke *et al.* (2020).	Steindachner & Kolombatović (1883)	1
Microlipophrys nigriceps (Vinciguerra, 1883)		Mediterranean type material in MSNG, , according to Fricke *et al.* (2020).	Vinciguerra (1883)	1
Omobranchus punctatus (Valenciennes, 1836)		HUJ	Golani (2004)	1
Parablennius gattorugine (Linnaeus,1758)		MNHN	MNHN, Chagnoux (2020)	5
Parablennius incognitus (Bath, 1968)		Mediterranean type material in SMF.	Bath (1968)	1
Parablennius pilicornis (Cuvier, 1829)		HBPC	Bath (1977)	1
Parablennius rouxi (Cocco, 1833)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Cocco (1833) and MNHN, Chagnoux (2020)	2
Parablennius sanguinolentus (Pallas, 1814)		MNHN	MNHN, Chagnoux (2020)	5
Parablennius tentacularis (Brünnich, 1768)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Brünnich (1768) and MNHN, Chagnoux (2020)	2
Parablennius thysanius (Jordan & Seale, 1907)		AMM	Özbek *et al.* (2014)	1
Parablennius zvonimiri (Kolombatović, 1892)		Mediterranean type material in NMW, according to Fricke *et al.* (2020).	Kolombatović (1892)	1

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Petroscirtes ancylodon Rüppell, 1835		SMNHTAU	Goren & Galil (1989)	1
Salaria basilisca (Valenciennes, 1836)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1836)	1
Salaria pavo (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MKPC.	Kottelat (2004)	1
Scartella cristata (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
CLINIDAE				
Clinitrachus argentatus (Risso, 1810)		MNHN	MNHN, Chagnoux (2020)	5
TRIPTERYGIIDAE				
Tripterygion delaisi Cadenat & Blache, 1970		MNHN	Zander & Heymer (1970)	1
Tripterygion melanurum Guichenot, 1850		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Guichenot (1850)	1
Tripterygion tartessicum Carreras-Carbonell, Pascual & Macpherson, 2007		Mediterranean type material in IIPB.	Carreras-Carbonell *et al*. (2007)	1
Tripterygion tripteronotum (Risso, 1810)		IIPB	Carreras-Carbonell *et al*. (2007)	1
Order ACANTHURIFORMES				
ACANTHURIDAE				
Acanthurus chirurgus (Bloch, 1787)	Evans *et al.* (2017)	DBUM	Evans *et al.* (2017)	1
Acanthurus coeruleus Bloch & Schneider 1801	Golani *et al.* (2015b)	HUJ	Golani *et al.* (2015b)	1

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Acanthurus monroviae Steindachner, 1876		INAT	Ben-Souissi *et al.* (2011)	1
Acanthurus sohal (Forsskål, 1775)	Giovos *et al.* (2018)	No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Giovos *et al.* (2018)	4
Paracanthurus hepatus (Linnaeus, 1766)	Marcelli *et al.* (2017)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Marcelli *et al.* (2017)	3
Zebrasoma flavescens (Bennett, 1828)	Weitzmann *et al.* (2015)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Weitzmann *et al.* (2015)	3
Zebrasoma xanthurum (Blyth, 1852)	Guidetti *et al.* (2016)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Guidetti *et al.* (2016)	3
CHAETODONTIDAE				
Capros aper (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linneaus (1758) and MNHN, Chagnoux (2020)	2
Chaetodon auriga Forsskål, 1775	Tiralongo & Mancini (2018)	ZCEFMM	Tiralongo & Mancini (2018)	1

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TABLE 1. (Continued)

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Chaetodon austriacus Rüppell, 1836	Goren *et al.* (2011a)	SMNHTAU	Goren *et al.* (2011a)	1
Chaetodon larvatus Cuvier, 1831	Salameh *et al.* (2011)	HUJ	Salameh *et al.* (2011)	1
Heniochus intermedius Steindachner, 1893		FFAU	Gökoðlu *et al.* (2003)	1
EPHIPPIDAE				
Chaetodipterus faber (Broussonet, 1782)	Giovos *et al.* (2020)	No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Giovos *et al.* (2020)	3 and 4
Platax teira (Forsskål, 1775)		HUJ	Golani *et al.* (2011a)	1
LEIOGNATHIDAE				
Equuilites popei (Whitley, 1932)	Golani *et al.* (2011b)	HUJ	Golani *et al.* (2011b) as *E. elongatus*.	1
Equulites klunzingeri (Steindachner, 1898)		SMNH, HUJ	Dulčić & Pallaoro (2002)	1
LOBOTIDAE				
Lobotes surinamensis (Bloch, 1790)		ESFM, SMNH, HUJ	Akyol *et al.* (2012)	1
LUVARIDAE				
Luvarus imperialis Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque, 1810	2
POMACANTHIDAE				

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TABLE 1. (Continued)

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Holacanthus africanus Cadenat, 1951	Deidun *et al.* (2017)	No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Deidun *et al.* (2017)	4
Holacanthus ciliaris (Linnaeus, 1758)	Dulčić & Dragičević (2013a)	IOF	Dulčić & Dragičević (2013a)	1
Pomacanthus imperator (Bloch, 1795)		HUJ	Golani *et al.* (2010)	1
Pomacanthus maculosus (Forsskål, 1775)		No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Bariche (2010a)	3 and 4
SCATOPHAGIDAE				
Scatophagus argus (Linnaeus, 1766)	Zammit & Schembri (2011)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Zammit & Schembri (2011)	3
SIGANIDAE				
Siganus fuscescens (Houttuyn, 1782)	Azzuro & Tiralongo (2020)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Azzuro & Tiralongo (2020)	3
Siganus luridus (Rüppell, 1829)		IOF	Poloniato *et al.* (2010)	1
Siganus rivulatus Forsskål & Niebuhr, 1775		IOF	Dulčić & Palloro (2004)	1
Order LOPHIIFORMES				

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TABLE 1. (Continued)

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CHAUNACIDAE				
Chaunax suttkusi (Caruso, 1989)		IRMA-CNR	Ragonese *et al.* (2000)	1
LOPHIIDAE				
Lophius budegassa Spinola, 1807		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Spinola (1807) and MNHN, Chagnoux (2020)	2
Lophius piscatorius Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Order TETRAODONTIFORMES				
BALISTIDAE				
Balistes capriscus Gmelin, 1789		MNHN	MNHN, Chagnoux (2020)	5
Balistoides conspicillium (Bloch & Schneider, 1801)	Weitzmann *et al.* (2015)		Weitzmann *et al.* (2015)	3
DIODONTIDAE				
Chilomycterus reticulatus (Linnaeus, 1758)		DBAE	Follesa *et al.* (2009)	1
Cyclichthys spilostylus (Leis & Randall, 1982)		HUJ	Golani *et al.* (2010)	1
Diodon hystrix Linnaeus, 1758		MISTT	Torchio (1963)	1
MOLIDAE				
Mola alexandrini (Ranzani, 1839)		Mediterranean holotype in NRM, according to Sawai *et al.* (2017).	Sawai *et al.* (2017)	1
Mola mola (Linnaeus, 1758)		Described in Mediterranean, Mediterranean neotype designated by Sawai *et al.* (2017), MZUB.	Sawai *et al.* (2017)	1
Ranzania laevis (Pennant 1776)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
MONACANTHIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Aluterus monoceros (Linnaeus, 1758)		MNCN	Guallart & Vincent (2009)	1
Stephanolepis diaspros Fraser-Brunner, 1940		SMNHTAU, HUJ	Golani *et al.* (2006b)	1
OSTRACIIDAE				
Ostracion cubicum Linnaeus, 1758	Bariche (2011)	AUBM	Bariche (2011)	1
Tetrosomus gibbosus (Linnaeus, 1758)		SMNHTAU	Spanier & Goren (1988)	1
TETRAODONTIDAE				
Ephippion guttifer (Bennett, 1831)		INSTOP	Hachaichi (1981)	1
Lagocephalus guentheri Miranda Ribeiro, 1915	Psomadakis *et al.* (2012) as *Lagocephalus spadiceus* (Richardson, 1845).	MFMST	Ergüden *et al.* (2017)	1
Lagocephalus lagocephalus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Lagocephalus sceleratus (Gmelin, 1789)		SMNHTAU, HUJ	Golani & Levi (2005)	1
Lagocephalus suezensis Clark & Gohar, 1953		SMNHTAU, HUJ	Golani (1996)	5
Sphoeroides marmoratus (Lowe, 1838)		MBMPP	Vacchi *et al.* (2007)	1
Sphoeroides pachygaster (Müller & Troschel, 1848)		SMNHTAU, HUJ	Golani (1996)	5
Torquigener flavimaculosus Hardy & Randall, 1983		HUJ	Golani (1987)	1
Tylerius spinosissimus (Regan, 1908)		HUJ	Golani *et al.* (2011a)	1
Order CENTRARCHIFORMES				
KYPHOSIDAE				
Kyphosus sectatrix (Linnaeus, 1758)		MOM	Francour & Mouine (2008)	1

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TABLE 1. (Continued)

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Kyphosus vaigiensis (Quoy & Gaimard, 1825)	Psomadakis *et al.* (2012) as *Kyphosus incisor* (Cuvier, 1831).	CFM IEO	Azzuro *et al.* (2013)	1
OPLEGNATHIDAE				
Oplegnathus fasciatus (Temminck & Schlegel, 1844)		IOF	Dulčić *et al.* (2016)	1
TERAPONTIDAE				
Pelates quadrilineatus (Bloch, 1790)		SFRS	Lourie & Ben-Tuvia (1970)	1
Terapon jarbua (Fabricius, 1775)		HUJ	Golani & Appelbaum-Golani (2010)	1
Terapon puta Cuvier, 1829		HUJ	Ben-Tuvia (1977) as *Autisthes puta* Cuvier	1
Terapon theraps Cuvier, 1829		MBSP	Lipej *et al.*(2008)	1
Order ACROPOMATIFORMES				
ACROMATIDAE				
Synagrops japonicus (Döderlein, 1883)		No stored specimens. The species can be positively identified just from the morphological data that were included in the published record.	Orsi-Relini (1990)	4
CHAMPSODONTIDAE				
Champsodon nudivittis (Ogilby, 1895)		SMNHTAU	Goren *et al.* (2011b)	1
EPIGONIDAE				
Epigonus constanciae (Giglioli, 1880)		Mediterranean holotype in MZUF, according to Fricke *et al.* (2020).	Giglioli (1880)	1

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TABLE 1. (Continued)

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Epigonus denticulatus Dieuzeide, 1950		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Dieuzeide (1950) and MNHN, Chagnoux (2020)	2
Epigonus telescopus (Risso, 1810)		Mediterranean lectotype in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Microichthys coccoi Rüppell, 1852		Mediterranean holotype in SMF, according to Fricke *et al.* (2020).	Rüppell (1852)	1
Microichthys sanzoi Spartà, 1950		The species was described on the Mediterranean, holotype lost.	Spartà (1950)	4
PEMPHERIDAE				
Pempheris rhomboidea Kossmann & Räuber, 1877	Azzurro *et al.* (2015) and Iglésias & Frotté (2015)	SMNHTAU, MNHN	Azzurro *et al.* (2015) and Iglésias & Frotté (2015)	1
POLYPRIONIDAE				
Polyprion americanus (Bloch & Schneider, 1801)		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Bloch & Schneider (1801)	1
Order PERCIFORMES				
AMMODYTIDAE				
Gymnammodytes cicerelus (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
Gymnammodytes semisquamatus (Jourdain, 1879)		MNHN	MNHN, Chagnoux (2020)	5

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TABLE 1. (Continued)

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ANARHICHADIDAE				
Anarhichas lupus Linnaeus, 1758		No stored specimens. The species can be positively identified from the provided morphology from the Mediterranean Sea locality that were included in the published record.	Tortonese (1958b)	4
APOGONIDAE				
Apogon imberbis (Linnaeus, 1758)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	Linnaeus (1758)	1
Apogonichthyoides pharaonis (Bellotti, 1874)		HUJ	Gon & Randall (2003)	1
Cheilodipterus novemstriatus (Rüppell, 1838)		SMNHTAU	Goren *et al.* (2010a)	1
Jaydia queketti Gilchrist, 1903		HMIU	Eryilmaz & Dalyan (2006) as *Apogon queketti* Gilchrist	1
Jaydia smithi Kotthaus, 1970		HUJ	Golani *et al.* (2008) as *Apogon smithi* (Kotthaus, 1970).	1
Ostorhinchus fasciatus (Shaw, 1790)		SMNHTAU	Goren *et al.* (2009) as *Apogon fasciatus* (Shaw, 1790)	1
CAESIONIDAE				
Caesio varilineata Carpenter, 1987		No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Bos & Ogwang (2018)	3 and 4
Dipterygonotus balteatus (Valenciennes, 1830)		AUBM	Bariche & Fricke (2018)	1
CALLANTHIIDAE				

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TABLE 1. (Continued)

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Callanthias ruber (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinesque (1810) and MNHN, Chagnoux (2020)	2
CALLIONYMIDAE				
Callionymus fasciatus Valenciennes, 1837		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1837)	1
Callionymus filamentosus Valenciennes, 1837		ANSP	Fowler & Steinitz (1956)	1
Callionymus lyra Linnaeus, 1758		MNHN	Cuvier & Valenciennes (1837)	1
Callionymus maculatus Rafinesque, 1810		SMNS	Fricke (1999)	5
Callionymus pusillus Delaroche, 1809		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
Callionymus reticulatus Valenciennes, 1837		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier & Valenciennes (1837)	1
Callionymus risso Lesueur, 1814		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Lesueur (1814)	1
Diplogrammus randalli Fricke, 1983	Seyhan *et al.* (2017)	IKC	Seyhan *et al.* (2017)	1
Synchirops sechellensis Regan, 1908	Gökoğlu *et al.* (2014)	Museum of the Fisheries Faculty of Akdeniz University, Antalya	Gökoğlu *et al.* (2014)	1
Synchiropus phaeton (Günther, 1861)		Mediterranean type material in NMW, according to Fricke *et al.* (2020).	Günther (1861)	1

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
CARANGIDAE				
Chloroscombrus chrysurus (Linnaues, 1766)	Peña Rivas *et al.* (2013)	CFM IEO	Peña Rivas *et al.* (2013)	1
CEPOLIDAE				
Cepola macrophthalma (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
COTTIDAE				
Taurulus bubalis (Euphrasen, 1786)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Euprahsen (1786) and MNHN, Chagnoux (2020)	2
CYCLOPTERIDAE				
Cyclopterus lumpus Linnaeus, 1758		IOF	Dulčić & Golani (2006)	1
HAEMULIDAE				
Orthopristis chrysoptera (Linnaeus, 1766)	Tiralongo *et al.* (2020)	No stored specimens. The species was identified from the provided photo that was included in the published record.	Tiralongo *et al.* (2020)	3
Parapristipoma octolineatum (Valenciennes, 1833)		MNHN	MNHN, Chagnoux (2020)	5
Plectorhinchus gaterinus (Fabricius 1775)	Corsini-Foka & Sarlis (2016)	HSR	Corsini-Foka & Sarlis (2016)	1
Plectorhinchus mediterraneus (Guichenot, 1850)		Mediterranean holotype in MNHN, according to Fricke *et al.* (2020).	Guichenot (1850)	1
Pomadasys incisus (Bowdich, 1825)		MNHN	MNHN, Chagnoux (2020)	5

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Pomadasys stridens (Forsskål, 1775)		ESFM	Akyol & Ünal (2016)	1
LABRIDAE				
Acantholabrus palloni (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020)	2
Centrolabrus exoletus (Linnaeus, 1758)			Tortonese (1975)	4
Coris julis (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Ctenolabrus rupestris (Linnaeus, 1758)		MNHN, IIPB	Tortonese (1975)	4
Iniistius pavo (Valenciennes, 1840)			Corsini *et al.* (2006)	3 and 4
Labrus bergylta Ascanius, 1767		MNHN	MNHN, Chagnoux (2020)	5
Labrus merula Linnaeus, 1758		HUJ, MNHN	Tortonese (1975)	4
Labrus mixtus Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NRM.	Linnaeus (1758) and Kullander (2021)	2
Labrus viridis Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NRM.	Linnaeus (1758) and Kullander (2021)	2

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Lappanella fasciata (Cocco, 1833)		IIPB	Sartoretto *et al.* (1997)	3
Pteragogus trispilus Randall, 2013	Psomadakis *et al.* (2012) as *Pteragogus pelycus* Randall, 1981, see Randall (2013) for the change.	MNHN	Iglésias & Frotté (2015)	1
Symphodus cinereus (Bonnaterre, 1788)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Bonnaterre (1788) and MNHN, Chagnoux (2020)	2
Symphodus doderleini Jordan, 1890		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: NRM.	Jordan (1890) and Kullander (2021)	2
Symphodus mediterraneus (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758)	2
Symphodus melanocercus (Risso, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Risso (1810) and MNHN, Chagnoux (2020)	2

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Symphodus melops (Linnaeus, 1758)		Mediterranean holotype in NRM, according to Fricke *et al.* (2020).	Linnaeus (1758)	1
Symphodus ocellatus (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Symphodus roissali (Risso, 1810)		Mediterranean syntypes in MNHN, according to Fricke *et al.* (2020).	Risso (1810)	1
Symphodus rostratus (Bloch, 1791)		NRM	Kullander (2021)	5
Symphodus tinca (Linnaeus, 1758)		NRM	Kullander (2021)	5
Thalassoma pavo (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Xyrichthys novacula (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
LETHRINIDAE				
Monotaxis grandoculis (Forsskål 1775)	Bilecenoglu (2007)		Bilecenoglu (2007)	3
LIPARIDAE				
Eutelichthys leptochirus Tortonese, 1959		MNHN	Iglésias *et al.* (2019) and Iglésias (2020)	1
Paraliparis murieli Matallanas, 1984		Mediterranean holotype in UAB	Matallanas (1984)	1

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LUTJANIDAE				
Lutjanus argentimaculatus (Forsskål, 1775)		HUJ	Sonin *et al.* (2019)	1
Lutjanus fulviflamma (Forsskål 1775)	Vella *et al.* (2015a)	No stored specimens. The species can be positively identified from the provided morphological and genetic data from the Mediterranean Sea locality that were included in the published record.	Vella *et al.* (2015a)	4
Lutjanus jocu (Bloch & Schneider, 1801)		MSNG	Vacchi *et al.* (2010)	1
Lutjanus sebae (Cuvier, 1816)	Zenetos *et al.* (2016)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Zenetos *et al.* (2016)	3
MORONIDAE				
Dicentrarchus labrax (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Dicentrarchus punctatus (Bloch, 1792)		MNHN	MNHN, Chagnoux (2020)	5
MULLIDAE				
Mullus barbatus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Mullus surmuletus Linnaeus, 1759		MNHN	MNHN, Chagnoux (2020)	5
Parupeneus forsskali (Fourmanoir & Guézé, 1976)	Bariche *et al.* (2013)	AUBM	Bariche *et al.* (2013)	1
Pseudupeneus prayensis (Cuvier, 1829)		FSB	Azzouz *et al.* (2011)	1
Upeneus moluccensis (Bleeker, 1855)		HUJ	Artüz & Fricke (2019)	1
Upeneus pori Ben-Tuvia & Golani, 1989		Mediterranean type material in HUJ.	Ben-Tuvia & Golani (1989)	1

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NEMIPTERIDAE				
Nemipterus randalli Russell, 1986		MNHN	Iglésias & Frotté (2015)	1
PERISTEDIIDAE				
Peristedion cataphractum (Linnaeus, 1758)		Mediterranean holotype in NRM, according to Fricke *et al.* (2020).	Linnaeus (1758)	1
PINGUIPEDIDAE				
Pinguipes brasilianus Cuvier, 1829		CSIM	Orsi Relini (2002)	1
PLATYCEPHALIDAE				
Elates ransonnettii (Steindachner, 1876)		IOF	Dulčić *et al.* (2010)	1
Papilloculiceps longiceps (Cuvier, 1829)		HUJ	Golani & Ben-Tuvia (1990)	1
Platycephalus indicus (Linnaeus, 1758)		SMNHTAU, HUJ	Ben-Tuvia (1953)	1
Sorsogona prionota (Sauvage, 1873)		HUJ	Golani & Ben-Tuvia (1990)	1
POMACENTRIDAE				
Abudefduf hoefleri (Steindachner, 1881)	Vella *et al.* (2016b)	Not clear if there is stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Vella *et al.* (2016b)	1
Abudefduf saxatilis (Linnaeus, 1758)	Tsadok *et al.* (2015)	UHI	Tsadok *et al.* (2015)	1

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Abudefduf sexfasciatus (Lacepède, 1801)	Giovos *et al.*(2018)	No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Giovos *et al.* (2018)	1
Abudefduf vaigiensis (Quoy & Gaimard, 1825)		SMNHTAU	Goren & Galil, (1998) and Vella *et al.* (2016c)	1
Chromis chromis (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Chrysiptera cyanea (Quoi & Gaimard, 1825)	Lipej *et al.* (2014)	MBSP	Lipej *et al.* (2014)	1
Chrysiptera hemicyanea (Weber, 1913)	Deidun *et al.* (2018)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Deidun *et al.* (2018)	3
Stegastes variabilis (Castelnau, 1855)	Vella *et al.* (2015b)	No stored specimens. The species can be positively identified from the provided genetics from the Mediterranean Sea locality that were included in the published record.	Vella *et al.* (2015b)	4
PRIACANTHIDAE				
Priacanthus sagittarius Starnes, 1988		SMNHTAU	Goren *et al.* (2010b)	1
SCARIDAE				
Scarus ghobban Forsskål, 1775		SMNHTAU	Goren & Aronov (2002)	1

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Sparisoma cretense (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
SCIAENIDAE				
Argyrosomus regius (Asso y del Rio, 1801)		MNHN	MNHN, Chagnoux (2020)	5
Sciaena umbra Linnaeus, 1758		Described in Mediterranean, neotype in BMNH, according to Trewavas (1966).	Linnaeus (1758)	1
Sciaenops ocellatus (Linnaeus, 1766)		No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Golani *et al.* (2015a)	3
Umbrina canariensis Valenciennes, 1843		MNHN	MNHN, Chagnoux (2020)	5
Umbrina cirrosa (Linnaeus, 1758)		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Linnaeus (1758)	1
Umbrina ronchus Valenciennes, 1843		No stored specimens. The species can be positively identified from the provided morphological data from the Mediterranean Sea locality that were included in the published record.	Crespo & Garcia (1986)	4
SCORPAENIDAE				

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Helicolenus dactylopterus (Delaroche, 1809)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Delaroche (1809)	1
Pontinus kuhlii (Bowdich, 1825)		MNHN	Sauvage (1878) as *Sebastes bibroni* Sauvage, 1878	1
Pterois miles (Bennett, 1828)		HUJ, SMNH	Golani & Sonin (1999)	1
Scorpaena elongata Cadenat, 1943		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Scorpaena loppei Cadenat, 1943		MNHN	MNHN, Chagnoux (2020)	5
Scorpaena maderensis Valenciennes, 1833		MNHN	MNHN, Chagnoux (2020)	5
Scorpaena notata Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Rafinsque (1810) and MNHN, Chagnoux (2020)	2
Scorpaena porcus Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
Scorpaena scrofa Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Linnaeus (1758) and MNHN, Chagnoux (2020)	2
Scorpaena stephanica Cadenat, 1943		IIPB	Allué *et al.* (1981)	1
Scorpaenodes arenai Torchio, 1962		ISPRA	Battaglia *et al.* (2015)	1
Trachyscorpia cristulata (Goode & Bean, 1896)		ITPP-CNR	Ragonese & Giusto (1999)	1
SERRANIDAE				

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Anthias anthias (Linnaeus, 1758)		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Linnaeus (1758)	1
Cephalopholis taeniops (Valenciennes, 1828)		MBCRT	Ben Abdallah *et al.* (2017)	1
Epinephelus aeneus (Geoffroy Saint-Hilaire, 1817)		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Geoffroy Saint-Hilaire (1817)	1
Epinephelus areolatus Forsskål, 1775	Rothman *et al.* (2016)	SMNHTAU	Rothman *et al.* (2016)	1
Epinephelus caninus (Valenciennes, 1843)		HUJ	Tortonese (1976)	4
Epinephelus coioides (Hamilton, 1822)		HUJ	Heemstra & Golani (1993)	1
Epinephelus costae (Steindachner, 1878)		SMNHTAU, HUJ	Tortonese (1976)	4
Epinephelus fasciatus Forsskål, 1775	Bariche & Heemstra (2012)	No stored specimens. The species can be positively identified just from the provided photo that was included in the published record.	Bariche & Heemstra (2012)	3
Epinephelus geoffroyi (Klunzinger, 1870)	Golani *et al.* (2015c)	HUJ	Golani *et al.* (2015c)	1
Epinephelus malabaricus (Bloch & Schneider, 1801)		HUJ	Heemstra & Golani 1993)	1
Epinephelus marginatus (Lowe, 1834)		SMNHTAU, HUJ	Tortonese (1975)	1
Epinephelus merra Bloch, 1793	Lelong (2005)		Lelong (2005)	3
Hyporthodus haifensis (Ben-Tuvia, 1953)		SMNHTAU, HUJ	Ben -Tuvia (1953)	1
Mycteroperca fusca (Lowe, 1838)		SMNHTAU	Heemstra *et al.* (2010)	1
Mycteroperca rubra (Bloch, 1793)		SMNHTAU, HUJ	Tortonese (1975)	1

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Paranthias furcifer (Valenciennes, 1828)	Dulčić & Dragičević (2013b)	IOF	Dulčić & Dragičević (2013b)	1
Serranus atricauda Günther, 1874		No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Dieuzeide *et al.* (1954)	3 and 4
Serranus cabrilla (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Serranus hepatus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Serranus scriba (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Variola louti (Fabricius, 1775)	Kousteni *et al.* (2019).	No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Kousteni *et al.* (2019)	3 and 4
SILLAGINIDAE				
Sillago suezensis Golani, Fricke & Tikochinski, 2013	Psomadakis *et al.* (2012) as *Sillago sihama* (Forsskål, 1775)	Mediterranean type material in HUJ.	Golani *et al*. (2013)	1
SPARIDAE				
Acanthopagrus bifasciatus (Forsskål 1775)	Ben Soussi *et al.* (2014)	INAT	Ben Soussi *et al.* (2014)	1
Boops boops (Linnaeus, 1758)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5

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Centracanthus cirrus Rafinesque, 1810		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Rafinesque (1810) and the Steinhardt Museum of Natural History (2020)	2
Crenidens crenidens (Forsskål, 1775)		SFRS	Lourie & Ben-Tuvia (1970)	1
Dentex dentex (Linnaeus, 1758)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Dentex gibbosus (Rafinesque, 1810)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Rafinesque (1810) and the Steinhardt Museum of Natural History (2020)	2
Dentex macrophthalmus (Bloch, 1791)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Dentex maroccanus Valenciennes, 1830		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Diplodus annularis (Linnaeus, 1758)		HUJ	Fricke *et al.* (2016)	1
Diplodus bellottii (Steindachner, 1882)		SMNS	Fricke *et al.* (2016)	1
Diplodus cervinus (Lowe, 1838)		HUJ	Fricke *et al.* (2016)	1
Diplodus levantinus Fricke, Golani & Appelbaum-Golani 2016		HUJ	Fricke *et al.* (2016)	1
Diplodus puntazzo (Walbaum, 1792)		HUJ	Fricke *et al.* (2016)	1
Diplodus sargus (Linnaeus, 1758)		HUJ	Fricke *et al.* (2016)	1
Diplodus vulgaris (Geoffroy Saint-Hilaire, 1817)		HUJ	Fricke *et al.* (2016)	1

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Lithognathus mormyrus (Linnaeus, 1758)		Described in Mediterranean, no positive type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Oblada melanurus (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Pagellus acarne (Risso, 1827)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Risso (1827) and the Steinhardt Museum of Natural History (2020)	2
Pagellus bellottii Steindachner, 1882		HUJ	Fricke *et al.* (2014)	1
Pagellus bogaraveo (Brünnich, 1768)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Brünnich (1768) and the Steinhardt Museum of Natural History (2020)	2
Pagellus erythrinus (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Pagrus auriga Valenciennes, 1843		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5

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Pagrus caeruleostictus (Valenciennes, 1830)		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5
Pagrus major (Temminck & Schlegel, 1843)		IOF	Dulčić & Kraljević (2007)	1
Pagrus pagrus (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Rhabdosargus haffara (Fabricius, 1775)		HUJ	Golani (1992)	1
Sarpa salpa (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Sparus aurata Linnaeus, 1758		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Spicara flexuosa Rafinesque 1810	Imsiridou *et al.* (2011)	No stored types. The species validity was questioned despite morphological and coloration differences from congeneric *S. maena*. Imsiridou *et al.* (2011) proved genetic discrimination of two species using material from the Mediterranean Sea locality.	Imsiridou *et al.* (2011)	4

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Spicara maena (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Spicara smaris (Linnaeus, 1758)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: SMNHTAU.	Linnaeus (1758) and the Steinhardt Museum of Natural History (2020)	2
Spondyliosoma cantharus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020) as *Pomatomus saltator* (Linnaeus, 1766).	5
SYNANCEIIDAE				
Synanceia verrucosa Bloch & Schneider, 1801	Edelist *et al.* (2011)	No stored specimens. The species can be positively identified just from the photo and morphological data that were included in the published record.	Edelist *et al.* (2011)	3 and 4
TRACHINIDAE				
Echiichthys vipera (Cuvier, 1829)		Mediterranean syntypes in MNHN, according to MNHN, Chagnoux (2020).	Cuvier (1829)	1
Trachinus araneus Cuvier, 1829		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
Trachinus draco Linnaeus, 1758		SMNHTAU	The Steinhardt Museum of Natural History (2020)	5

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Trachinus radiatus Cuvier, 1829		Mediterranean type material in MNHN, according to Fricke *et al.* (2020).	Cuvier (1829)	1
TRIGLIDAE				
Chelidonichthys lastoviza (Bonnaterre, 1788)		MNHN	MNHN, Chagnoux (2020)	5
Chelidonichthys cuculus (Linnaeus, 1758)		Possible Mediterranean types in NRM according to Fernholm & Wheeler (1983).	Linnaeus (1758)	1
Chelidonichthys lucerna (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Chelidonichthys obscurus (Walbaum, 1792)		Described in Mediterranean, no type material known. The example of Mediterranean specimen(s) stored: MNHN.	Walbaum (1792) and MNHN, Chagnoux (2020)	2
Eutrigla gurnardus (Linnaeus, 1758)		MNHN	MNHN, Chagnoux (2020)	5
Lepidotrigla cavillone (Lacepède, 1801)		Mediterranean syntypes in MNHN according to MNHN, Chagnoux (2020).	Lacepède (1801)	1
Lepidotrigla dieuzeidei Blanc & Hureau, 1973		Described in Mediterranean, Mediterranean type material not mentioned in Blanc & Hureau (1973). The example of Mediterranean specimen(s) stored: MNHN.	Blanc & Hureau (1973) and MNHN, Chagnoux (2020)	2
Trigla lyra Linnaeus, 1758		MNHN	MNHN, Chagnoux (2020)	5
URANOSCOPIDAE				

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TABLE 1. (Continued)

Taxon	Reference of species presence if not in Psomadakis *et al.* (2012)	Example of public collection hosting the Mediterranean specimen(s) or explanation of the evidence if not the criterion of stored specimen	The reference of published data as evidence for the species presence (including the species descriptions from Mediterranean) and/or the reference of example of public collection hosting the Mediterranean specimen(s).	Criterion
Uranoscopus scaber Linnaeus, 1758		Mediterranean syntypes in NRM according to Fernholm & Wheeler (1983).	Linnaeus (1758)	1
ZOARCIDAE				
Melanostigma atlanticum Koefoed, 1952		No stored specimens. The species can be positively identified just from morphological data that were included in the published record.	Ungaro *et al.* (2002)	4

TABLE 2. The criteria for the confirmed presence of a fish species in the Mediterranean Sea.

Criteria	Source	Explanation
1	Publication with evidence from morphological or genetic data and the related specimen(s) stored in a collection.	At least one specimen from the Mediterranean Sea is stored in a collection with published reference that includes the described morphology and/or provides genetics for positive identification. This also includes original species description in the Mediterranean with stored types and the species with the description in the Mediterranean with no types known but with an independent published record that includes stored specimen(s) and the described morphology and/or provides genetics for positive identification.
2	Publication with evidence from morphological data and the independent specimen(s) stored in a collection.	The original species description in the Mediterranean with no types known, with independently at least one specimen from the Mediterranean Sea stored in a collection with no published data for identification with the published collection database or the online collection database. Applied to common species described from the Mediterranean with no recent published morphological work in the Mediterranean.
3	Publication with evidence from photo or video.	No stored specimens with related published reference that includes the described morphology and/or provides genetics for positive identification. The species can be positively identified only from the provided photo or video from the Mediterranean Sea locality that are included in the published record.
4	Publication with evidence from morphological or genetic data.	No stored specimens with related published reference that includes the described morphology and/or provides genetics for positive identification. The species can be positively identified only from the described morphology and/or provided genetics from the Mediterranean Sea locality that are included in the published record.

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TABLE 2. (Continued)

Criteria	Source	Explanation
5	Publication with the specimen(s) stored in a collection and no published data for identification.	At least one specimen from the Mediterranean Sea is stored in a collection with a reference to a published collection database or online collection database with no published data for identification. Applied to common species with an historical presence but no recent published morphological work or published extension of geographic distribution in the Mediterranean.

TABLE 3. The list of fish species excluded from the Mediterranean Sea checklist that had been previously reported from the Mediterranean.

Family (in alphabetic order)	**Species**	**Explanation**
ALEPOSAURIDAE	*Alepisaurus ferox* Lowe, 1833	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to the first and only original mentioning in Bonaparte (1846). Without any published evidence or stored specimens, Bonaparte (1846) provided just the species name and the geographic distribution ("Oc. Mader. Med. Sic."), which was later interpreted as Sicilian record of this species (Relini & Lanteri 2010).
AMMODYTIDAE	*Ammodytes tobianus* Linnaeus, 1758	*A. tobianus* was listed in Psomadakis *et al.* (2012) as questionable for Mediterranean. In Reay (1986) only one record at the Balearic Islands was marked on species minimap for entire Mediterranean. The Mediterranean citation can be traced back to the single Mediterranean record of three juvenile specimens from the Balearic Islands by Riehl (1978). In Riehl (1978) the species is listed without any evidence except that it was identified by dr. W. Klausewitz. Having no evidence in the record publication, this record has to be rejected.
APOGONIDAE	*Apogon atradorsatus* Heller & Snodgrass, 1903	Alshawy *et al.* (2019b) reported the finding of this species in Syria, but we suggest that it is a case of misidentification of *Apogon imberbis* (Linnaeus, 1758).
CARANGIDAE	*Caranx hippos* (Linnaeus, 1766)	*C. hippos* was listed in Psomadakis *et al.* (2012) as questionable for the Mediterranean. According to Smith-Vaniz & Carpenter (2007) all historical records of *C. hippos* in the Mediterranean belonged to new described species *C. fischeri* Smith-Vaniz & Carpenter, 2007.
CARANGIDAE	*Decapterus macarellus* (Cuvier, 1833)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to the first mentioning in Giglioli (1880) as *Caranx jacobaeus* C. et V. Giglioli (1880) listed the species without any published evidence or stored specimens.

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TABLE 3. (Continued)

Family (in alphabetic order)	Species	Explanation
CARANGIDAE	*Decapterus punctatus* (Cuvier, 1829)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to Carus (1893). Carus (1893) cited Sassi (1846) and Doderlein (1878-1879), as two records of this species. Both authors included the species, as *Caranx suareus*, Ris., in their lists of species, without any published evidence for species identification.
CARANGIDAE	*Elagatis bipinnulata* (Quoy & Gaimard, 1825)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to the first mentioning of this species in the Mediterranean in Sassi (1846). Sassi (1846) provided just the species name as *Micropterix bipinnulatus*, Agas in his list of species, without any published evidence or stored specimens.
CHAMPSODONTIDAE	*Champsodon vorax* Günther, 1867	The species was cited in Psomadakis *et al.* (2012), based on the Mediterranean record by Bariche (2010b). Stern *et al.* (2020) proved that only *Champsodon* species present in the Mediterranean is *C. nudivittis*.
CHIMAERIDAE	*Hydrolagus mirabilis* (Collett, 1904)	The species was first recorded by Hassan (2013) on the basis of a single specimen. The identification was mainly based on the absence of anal fin, a diagnostic character for *Hydrolagus* (whereas the anal fin is present for *Chimaera*). The published photo clearely shows a specimen of *Chimaera monstrosa*, not *Hydrolagus mirabilis*. It seems that the presence or absence of an anal fin is not a reliable character as it is occasional to find *Chimaera* individuals without an anal fin (*e.g*. Finucci *et al.* 2018).
CHIROCENTRIDAE	*Chirocentrus dorab* (Fabricius, 1775)	*C. dorab* was listed in Psomadakis *et al.* (2012) with doubts considering its presence in Mediterranean was based on report of eggs and yolk-sac larvae in the northeast Levant (Orek, 2008). It was considered questionable also by Zenetos *et al.* (2011) and therefore excluded from the list.
DUSSUMIERIIDAE	*Etrumeus teres* (DeKay, 1842)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The misidentification was exposed by DiBattista *et al.* (2012) showing that Mediterranean *Etrumeus* specimens belongs to new described species *Etrumeus golanii* DiBattista, Randall & Bowen, 2012.
ECHENEIDAE	*Remora brachyptera* (Lowe, 1839)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to the only Mediterranean citation in Lachner (1973) of Fowler (1936) having geographic range of *R. brachyptera* as *R. remora* that included also Mediterranean. There is no evidences that *R. remora* examples described in Fowler (1936) from Madeira, open Atlantic and Mediterranean were misidentified *R. brachyptera* and not *R. remora*. Furthermore, Fowler (1936) reported *R. brachyptera* independently of *R. remora* and with historical records only from Madeira, Atlantic and Gorée.

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TABLE 3. (Continued)

Family (in alphabetic order)	Species	Explanation
ENGRAULIDAE	*Encrasicholina punctifer* Fowler, 1938	The species was reported by Çiftçi *et al*. (2016), which were then probably not aware of Hata & Motomura (2016) work. The stored Mediterrranean material labeled as *E. punctifer* was rechecked by one of the present authors (MG) which showed that it was in fact *E. gloria*.
EXOCOETIDAE	*Hirundichthys speculiger* (Valenciennes, 1847)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012) without any evidence or reference of species presence in the Mediterranean. The presence in the Mediterranean was questioned already by Tortonese (1937) having no confirmed Mediterranean record. The species distribution excluded Mediterranean i.e. having no Mediterranean record in Parin (1986) and again in Shakhovskoy & Parin (2013).
GOBIIDAE	*Bathygobius cyclopterus* (Cuvier & Valenciennes, 1837)	*Bathygobius cyclopterus* (Cuvier & Valenciennes, 1837) was reported by Akel (2017). *B. cyclopterus* has been rejected as recorded in the Mediterranean by Kovačić (2020) because its identity and provenance could not be verified from the published data and from the photo in Akel (2017).
GOBIIDAE	*Bathygobius soporator* (Valenciennes, 1837)	The species was cited in Psomadakis *et al.* (2012), following Quignard & Tomasini (2000), despite not being in the Mediterranean Gobiidae lists in Kovačić & Patzner (2011) and in Kovačić (2020). The Mediterranean citation can be traced back to Quignard & Tomasini (2000) where the species was included in the list without explanation and without any supporting reference.
GOBIIDAE	*Benthophilus stellatus* (Sauvage, 1874)	The species was cited in Psomadakis *et al.* (2012), following Quignard & Tomasini (2000), despite not being in the Mediterranean Gobiidae lists in Kovačić & Patzner (2011) and in Kovačić (2020). This endemic Ponto-Caspian species was excluded for the Mediterranean already by Ahnelt & Dorda (2004).
GOBIIDAE	*Buenia jeffreysii* Günther, 1867	The species was cited in Psomadakis *et al.* (2012), following Quignard & Tomasini (2000), despite not being in the Mediterranean Gobiidae lists in Kovačić & Patzner (2011) and in Kovačić (2020). The Mediterranean specimens were correctly reidentifed as *B. affinis* by Kovačić & Patzner (2009).
KYPHOSIDAE	*Kyphosus incisor* (Cuvier, 1831)	Consider as a synonym of *Kyphosus vaigiensis* (Quoy & Gaimard, 1825), according to Knudsen & Clements (2013).

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TABLE 3. (Continued)

Family (in alphabetic order)	Species	Explanation
LABRIDAE	*Symphodus bailloni* (Valenciennes, 1839)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). It was reported for the southeast Spain coast and for the Balearic Islands by Bauchot & Quignard (1973) and by Quignard & Pras (1986). However, the review of references in Bauchot & Quignard (1973) and of all available literature showed no confirmed original record for the Mediterranean. The check of available online photos of fishes from Mediterranean localities, as well as interviews with colleagues ichthyologists and divers in the areas confirmed the lack of observations of this species for the Mediterranean.
LABRIDAE	*Symphodus trutta* (Lowe, 1834)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012), based on the three specimens collected near Banyuls and reported by Quignard & Pras (1986) as *Cetrolabrus trutta* (Lowe, 1834), without any morphological data of the collected specimes. Azevedo (1999) examined the three specimens and concluded that they were misidentified and not belonging to *S. trutta*.
LEIOGNATHIDAE	*Equulites elongatus* (Günther, 1874)	The reports on the presence of *Equulites elongates* in the Mediterranean are based on wrong identification of *Equuilites popei* (Whitley, 1932) as shown by Suzuki and Kimura (2017).
MURAENIDAE	*Anarchias euryurus* (Lea, 1913)	Synonymized to east Atlantic *Anarchias longicauda* (Peters, 1877) by Smith (2012). The species was cited as *Anarchias euryurus* (Lea, 1913) in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). Single Mediterranean record at Nice can be track back to Bauchot (1986a) where the locality was not explained. In Blache *et al.* (1973a) it was listed as *Anarchias grassii* (Roule 1916), with Mediterranean included in the geographic distribution with no explanation. No Mediterranean record and references exist before 1986 that can be related to Nice locality in Bauchot (1986a).
MYCTOPHIDAE	*Diogenichthys atlanticus* (Tåning, 1928)	The single record in the Mediterranean of this species is the postlarva reported by Goodyear *et al.* (1972). However, in Goodyear *et al.* (1972) there is no any morphological data on the collected specimen, so this single original source for the presence of this species in the Mediterranean is without any evidence to support the identification.

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TABLE 3. (Continued)

Family (in alphabetic order)	Species	Explanation
OPHICHTHIDAE	*Ophichthus ophis* (Linnaeus, 1758)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). Single Mediterranean record at Nice can be track back to Bauchot (1986b), considered doubtful by the author. The species was not mentioned for Mediteranean in Blache *et al.* (1973b) and no Mediterranean record and references exist before 1986 that can be related to Nice locality in Bauchot (1986b).
PARALEPIDIDAE	*Lestidiops jayakari* (Boulenger, 1889)	Post (1973a) listed subspecies *Lestidiops jayakari pseudosphyraenoides* (Ege, 1918), while explicitly stating that subspecies *Lestidiops jayakari jayakari* (Boulenger, 1889) is not in the Mediterranean. Post (1984) and Quignard & Tomasini (2000) reported just species *L. jayakari*as present in the Mediterranean, not entering into subspecies details. *Psomadakis et al.* (2012) included in the Mediterranean checklist, in addition to *L. jayakari pseudosphyraenoides* (Ege, 1918), also *L. jayakari jayakari* (Boulenger, 1889) without any evidence, explantion or reference. The subspecies were errected to the species level (Fricke *et al.* 2020), so consequently *L. pseudosphyraenoides* is the species present in the Mediterranean based on earlier records. Until the evidences would be provided showing differently, we expect that only one taxon of former *L. jayakari* species exists in the Mediterranean, and that the fomer records of *L. jayakari* with no subspecies details belong to *L. jayakari pseudosphyraenoides*.
PEMPHERIDAE	*Pempheris vanicolensis* Cuvier, 1831	The species was cited in Psomadakis *et al.* (2012) based on various earlier citations for the Mediteranean. Azzuro *et al.* (2015) confirmed previous misidentifications of the Mediterranean sweepers as *P. vanicolensis* which are now correctly recognized as *P. rhomboidea* Kossmann & Räuber, 1877.
PLEURONECTIDAE	*Pleuronectes platessa* Linnaeus, 1758	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). Lleonart & Farrugio (2012) found no evidence of positive record of this species in the Mediterranean, so the citation for Mediterranean are results of misidentifications in the Mediterranean of *P. platessa* Linnaeus, 1758 with flounder *Platichthys flesus*, of the recorded presence of *P. platessa* on the Mediterranean fish market but of Atlantic specimens of *P. platessa*, and of the wrong assignment to *P. platessa* of various synonyms used by earlier authors.

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TABLE 3. (Continued)

Family (in alphabetic order)	Species	Explanation
PRIACANTHIDAE	*Heteropriacanthus cruentatus* (Lacepède, 1801)	Reported in the Mediteranean from the photo by Badreddine & Bitar (2019). However, the photo clearly shows a black spot af the base of the pelvic fin. This spot is tipical to *Priacanthus sagittarius* and does not exist in *Heteropriacanthus cruentatus* (the pictures of both species in: https://www.fishbase.se/photos/ThumbnailsSummary.php?Genus=Heteropriacanthus&Species=cruentatus; https://www.fishbase.se/photos/ThumbnailsSummary.php?Genus=Heteropriacanthus&Species=cruentatushttps://www.fishbase.se/photos/ThumbnailsSummary.php?Genus=Heteropriacanthus&Species=cruentatus).
SCOMBRIDAE	*Scomberomorus tritor* (Cuvier, 1832)	The species was cited in the last Mediterranean checklists of Quignard & Tomasini (2000) and Psomadakis *et al.* (2012). The tracing back through literature led to the mentioning of three Mediterranean specimens from 1880s, two from Nice and one from Palermo, by Collette (1986). In Post (1973b) species is reported just for the warm tropical Atlantic and not for Mediterranean. Collette (1986) didn't provide any data, evidence or reference to support the findings from the 1880s. We checked the ichthyological literature for the area from the end of 19th century and were not able to find mentioning of this species at those localities and in the Mediterranean in general.
SCORPAENIDAE	*Pterois volitans* (Linnaeus, 1785)	Gürlek *et al.* (2016) reported the finding of this species in north-eastern Mediterranean (Iskenderun Bay). Their diagnosis based on a longer pectoral fin than in *P. miles*. However, from pictures of *P. miles* from the Red Sea and checking the specimens in SMNHTAU it is clear that small specimens of *P. miles* have long pectoral fin reaching the caudal fin.
SERRIVOMERIDAE	*Serrivomer lanceolatoides* (Schmidt, 1916)	According to Bauchot (1986c) species is not present in the Mediterranean. The species was cited in Psomadakis *et al.* (2012), following Quignard & Tomasini (2000), as *Serrivomer brevidentatus* Roule & Bertin, 1929. The origin of citation is Fredj & Maurin (1987) where species is just listed as larva found in the Alboran Sea among Atlantic immigrants (Table 4 in Fredj & Maurin, 1987) with no provided evidence of the species presence in the Mediterranean.

TABLE 4. Abbreviations in alphabetic order and the full name of the institutions with the fish collection noted in this survey.

Abbreviations	Institution
AMM	The Antalya Metropolitan Municipal Marine Biology Museum, Antalya, Turkey
ANSP	Academy of Natural Sciences, Philadelphia, USA
AUBM	American University of Beirut, Beirut, Lebanon
BMNH	Natural History Museum, London, UK
CBRG	The Ichthyological collection of the Conservation Biology Research Group laboratory at the University of Malta, Msida, Malta
CFM IEO	The Marine Fauna collection of the Instituto Español de Oceanografía of Málaga, Málaga, Spain
CNHM	The Croatian Natural History Museum, Zagreb, Croatia
CSIM	Civica Stazione Idrobiologica Milano, Milano, Italy
DBAE	The ichthyological collection of the Department of Animal Biology and Ecology of the University of Cagliari, Cagliari, Italy
DBAEM	Department of Animal Biology and Marine Ecology, University of Messina, Messina, Italy
DBUM	The Department of Biology at the University of Malta, Msida, Malta
DSZ	Department of Animal Science, University of Sassari, Sassari, Italy
ESFM	Fish collection, Fisheries Faculty, Ege University, Izmir, Turkey
FBL-HIMR	Fish Biological Laboratory of the High Institute of Marine Research –HIMR, Tishreen University, Lattakia, Syria
FFAU	Fisheries Faculty of Akdeniz University, Antalya, Turkey
FMNH	Division of Fishes, Department of Zoology, Field Museum of Natural History, Chicago, Illinois, USA
FRIK	The Fish Collection of Fisheries Research Institute of Kavala, Kavala, Greece
FSB	The Ichthyological Collection at the Laboratoire d'Hydrobiologie Littorale et Limnique of the Faculté des Sciences of Bizerte, Bizerte, Tunisia
FST	Ichthyological Collection, Faculté des Sciences de Tunis, Tunis, Tunisia
GRPC	Gianfranco della Rovere private collection, Italy
HBPC	Hans Bath private collection, Germany
HMIU	Hydrobiological Museum of the Department of Biology, Faculty of Science, Istanbul University, Turkey
HSR	the Hydrobiological Station of Rhodes (HSR) of the Hellenic Center for Marine Research, Rhodes, Greece
HUJ	Hebrew University of Jerusalem, Jerusalem, Israel
ICSBHN	The Ichthyological Collection of the Societat Balear d'Història Natural, Palma, Spain
IIPB	Instituto de Ciencias del Mar, Departament de Biologia Marina i Oceanografia, Barcelona, Spain
INAT	The Ichthyological Collection of the Institut National Agronomique de Tunisie, Tunisia, Tunisia
INSTOP	Institut national scientifique et technique d'océanographie et de pêche, Salammbô, Tunisia
IKC	Izmir Katip Celebi University, Izmir, Turkey
IOF	Institute of Oceanography and Fisheries Split, Split, Croatia
IRMA-CNR	Laboratory of Marine Biology IRMA-CNR, Castellammare del Golfo, Italy
ISPRA	Laboratory of Milazzo, Institute for Environmental Protection and Research, Milazzo, Italy
ITPP-CNR	Institute of Fisheries and Fisheries Technology, Mazara, Italy
IZUP	Istituto di Zoologia dell'Uuiversita di Palermo, Palermo, Italy
LEE	Ichthyological Collection of the 'Laboratoire d'Ecologie et Environnement, Equipe Halieutique, Université Houari Boumedienne' of Algiers, Algeria
MBCN	Museu Balear de Ciències Naturals, Sóller, Balearic Islands, Spain
MBLA	Marine Bioresources Laboratory, Annaba University, Annaba, Algeria

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TABLE 4. (Continued)

Abbreviations	Institution
MBMPP	Museo di Biologia Marina Pietro Parenzan, Porto Cesareo, Italy
MBRC	Marine Biology Research Center Museum, Tajura, Libya
MBSP	Marine Biological Station Piran, Piran, Slovenia
MCZ	Museum of Comparative Zoology, Cambridge, UK
MEUFC	Museum of Systematic, Faculty of Fisheries, Mersin University, Mersin, Turkey
MFF	Museum of Faculty of Fisheries, Mustafa Kemal University, Antakya, Turkey
MFMST	Museum of the Faculty of Marine Sciences and Technology, Iskenderun Technical University, Iskenderun, Turkey
MISTT	Museo dell' Istituto Sperimentale Tallasografico di Taranto, Taranto, Italy
MKPC	Maurice Kottelat private collection, Switzerland
MNCN	Museo Nacional de Ciencias Naturales, Madrid, Spain
MNHN	Muséum national d'Histoire naturelle, Paris, France
MOM	Monaco Oceanographic Museum, Principality of Monaco
MSL	Ichthyological Collection of the Marine Sciences Laboratory, Agriculture Faculty at Tishreen University, Syria
MSNC	Museo Civico di Storia Naturale of Comiso (Ragusa), Sicily, Italy
MSNF	Museo di Storia Naturale di Firenze, Firenze, Italy
MSNG	Museo Civico di Storia Naturale di Genova 'Giacomo Doria', Genova, Italy
MVHN	Museu Valencià d'Història Natural, Valencia, Spain
MZSN	Museo di Zoologia di Napoli, Napoli, Italy
MZUB	Museo di Zoologia dell'Università di Bologna, Bologna, Italy
MZUF	Università di Firenze, Museo Zoologico e Historia Naturale di la Specola, Firenze, Italy
MZUT	Università di Torino, Dipartimento di Biologia Animale e dell'Uomo, Museo Zoologico, Torino, Italy
NHMD	Natural History Museum Dubrovnik, Dubrovnik, Croatia
NHMR	Natural History Museum Rijeka, Rijeka, Croatia
NIB	National Institute of Biology, Ljubljana, Slovenia
NMW	Natural History Museum Wien, Wien, Austria
NRM	Naturhistoriska Riksmuseet, Department of Vertebrate Zoology, Ichthyology Section, Stockholm, Sweden
SFRS	Sea Fisheries Research Station, Haifa, Israel
SMNS	Staatliches Museum für Naturkunde in Stuttgart, Stuttgart, Baden-Württemberg, Germany
SMF	Senckenberg Forschungsinstitut und Naturmuseum, Frankfurt am Main, Hessen, Germany
SMNHTAU	The Steinhardt Museum of Natural History at Tel Aviv University, Tel Aviv, Israel
SU	Stanford University. The collection now resides at California Academy of Sciences, San Francisco, California, USA
SZN	Stazione Zoologica "Anton Dohrn", Napoli, Italy
UAB	Facultad de Biociències, Departamento de Biología, Zoología, Universidad Autónoma de Barcelona, Bellaterra, Spain
UHI	University of Haifa, Haifa, Israel
USNM	National Museum of Natural History, Smithsonian Institution, Washington, D.C., USA
ZCEFMM	Zoological Collection of Ente Fauna Marina Mediterranea, Siracusa, Italy
ZCUP	Zoological Collection of the University of Patras, Patras, Greece
ZDEU	Zoological Museum of Ege University, Izmir, Turkey
ZMADU	Zoology Museum of Adnan Menderes University, Aydin, Turkey

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TABLE 4. (Continued)

Abbreviations	Institution
ZMB	Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitätsforschung, Berlin, Germany
ZMH	Universität Hamburg, Biozentrum Grindel und Zoologisches Museum, Ichthyology, Hamburg, Germany
ZMUB	Zoological Museum of the University of Bari, Bari, Italy
ZMUC	Københavns Universitet, Zoologisk Museum, Vertebrater, Fiskesamlingen, Copenhagen, Denmark
ZMUN	Zoological Museum, University of Naples „Federico II“, Naples, Italy
ZSM	SNSB-Bavarian State Collection of Zoology, Munich, Germany

TABLE 5. Counts of the taxa of Mediterranean fish species.

Class	Orded	Family	Species
Actinopteri	36	152	668
Elasmobranchii	10	29	87
Holocephali	1	1	1
Myxini	1	1	1
Petromyzonti	1	1	2
Total	**49**	**184**	**759**

TABLE 6. Family richness of Mediterranean fish species.

Class	Number of species	Families
Actinopteri	74	Gobiidae
	32	Sparidae
	24	Blenniidae
	22	Labridae
	21	Carangidae, Serranidae
	18	Myctophidae
	16	Soleidae
	15	Syngnathidae
	13	Scombridae
	12	Gobiesocidae, Scorpaenidae
	10	Callionymidae
	9	Tetraodontidae
	8	Clupeidae, Macrouridae, Moridae, Mugilidae, Pomacentridae, Triglidae
	7	Acanthuridae, Bothidae, Exocoetidae, Ophichthidae
	6	Apogonidae, Belonidae, Gadidae, Haemulidae, Lotidae, Mullidae, Paralepididae, Sciaenidae
	5	Engraulidae, Epigonidae, Gonostomatidae, Istiophoridae, Scophthalmidae, Sphyraenidae
	4	Acipenseridae, Atherinidae, Bythitidae, Centrolophidae, Chaetodontidae, Congridae, Echeneidae, Lutjanidae, Muraenidae, Ophidiidae, Platycephalidae, Pomacanthidae, Stomiidae, Terapontidae, Trachinidae, Tripterygiidae
	3	Aphaniidae, Cynoglossidae, Diodontidae, Hemiramphidae, Microstomatidae, Molidae, Nomeidae, Phosichthyidae, Siganidae, Sternoptychidae, Synodontidae
	2	Ammodytidae, Argentinidae, Aulopidae, Balistidae, Berycidae, Bramidae, Caesionidae, Carapidae, Coryphaenidae, Dussumieriidae, Ephippidae, Fistulariidae, Holocentridae, Kyphosidae, Leiognathidae, Liparidae, Lophiidae, Monacanthidae, Moronidae, Muraenesocidae, Nemichthyidae, Nettastomatidae, Notacanthidae, Ostraciidae, Phycidae, Scaridae, Stromateidae, Trachichthyidae, Trachipteridae, Zeidae
	1	Acropomatidae, Alepocephalidae, Anarhichadidae, Anguillidae, Ariidae, Batrachoididae, Bregmacerotidae, Callanthiidae, Caproidae, Centriscidae , Cepolidae, Champsodontidae, Chanidae, Chaunacidae, Chlopsidae, Chlorophthalmidae, Citharidae, Clinidae, Cottidae, Cyclopteridae, Dactylopteridae, Evermannellidae, Gempylidae, Halosauridae, Heterenchelyidae, Ipnopidae, Lampridae, Lethrinidae, Lobotidae, Lophotidae, Luvaridae, Merlucciidae, Nemipteridae, Oplegnathidae, Paralichthyidae, Pempheridae, Peristediidae, Pinguipedidae, Pleuronectidae, Plotosidae, Polynemidae, Polyprionidae, Pomatomidae, Priacanthidae, Rachycentridae, Regalecidae, Scatophagidae, Scomberesocidae, Sillaginidae, Spratelloididae, Synanceiidae, Synaphobranchidae, Tetragonuridae, Trichiuridae, Trichiuridae, Uranoscopidae, Xiphiidae, Zoarcidae

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TABLE 6. (continued)

Class	Number of species	Families
Elasmobranchii	19	Rajidae
	11	Carcharhinidae
	7	Dasyatidae
	4	Lamnidae, Sphyrnidae, Triakidae
	3	Hexanchidae, Scyliorhinidae, Squalidae, Squatinidae, Torpedinidae
	2	Alopiidae, Myliobatidae, Pentanchidae, Pristidae, Somniosidae
	1	Carchariidae, Centrophoridae, Cetorhinidae, Dalatiidae, Echinorhinidae, Etmopteridae, Glaucostegidae, Gymnuridae, Mobulidae, Odontaspididae, Oxynotidae, Rhinobatidae, Rhinopteridae
Holocephali	1	Chimaeridae
Myxini	1	Myxinidae
Petromyzonti	2	Petromyzontidae

TABLE 7. Time series of the number of non-indigenous fish species in the Mediterranean. Data obtained from the last update of Golani *et al.* (2002) and from more recent articles.

Year of update	Cumulative
2002	88
2004	94
2009	114
2013	134
2017	155
2020	168

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