

Supplementary Materials

Towards the Introduction of Sustainable Fishery Products: The Bid of a Major Italian Retailer

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Table S1

Table S1. Fish and seafood products sold by Carrefour Italy listed according to FAO Major Fishing Area, gear type used, and IUCN conservation status and stock status.

Species	FAO area	Gear*	IUCN status	Stock status	Source
White sturgeon <i>Acipenser transmontanus</i>	2, 5, 61, 67, 77	FIX, GEN, LX, SX, TX	Least Concern (Critically Endangered: Nechako River and Columbia River populations; Endangered: Kootenai River and Upper Fraser River populations; Vulnerable: Fraser population)	Native populations are declining due to a continue extirpation, habitat change and dam construction.	[1-4].
Queen scallop <i>Aequipecten opercularis</i>	27, 34, 37	DRX, TX	Not Evaluated	Declining in UK. However, management measures such as seasonal fishing closure has been implemented.	[5-8].
Thorny skate <i>Amblyraja radiata</i>	18, 21, 27, 31, 47	LX, SX, TX	Vulnerable	Often taken as bycatch in trawl fisheries. In the northeast Atlantic region is assessed as Least Concern. Overexploited in the North East of USA.	[9-12].
Marbled octopus <i>Amphioctopus aegina</i>	51, 57, 61, 71	FIX, LX	Not Evaluated	Apparently no stock assessment exists for this species. It is difficult to assess the sustainability of the growing commercial fishery, nor the potentially larger but undocumented subsistence catch.	[13-15].

Northern saucer scallop <i>Amusium pleuronectes</i>	57, 61, 71	DRX	Not Evaluated	Little is known about the biology and sustainable harvest level.	[16-18].
European eel <i>Anguilla anguilla</i>	1, 4, 5, 27, 31, 34, 37	FIX, FWR, FIX, LX	Critically Endangered (Endangered: north Africa)	Exploited in fresh, brackish and coastal waters in almost all of Europe, in northern Africa, Mediterranean and Asia. Indications are that eel stock remained in a critical state since 2012. Hypothesis of the reduction: intense fishing pressure in France, Portugal, Spain and UK, nematode parasite, dam construction, pollution and climate change. This species is assessed as Abundance is at an historical minimum.	[19-28].
South European toothcarp <i>Aphanius fasciatus</i>	1, 4, 5, 37, 51	FIX	Least Concern	Little is known about stock status. Low commercial value (e.g. marketed as fertilizer). Habitat destruction and eutrophication might be potential threats.	[29-31].
Meagre <i>Argyrosomus regius</i>	27, 34, 37, 51	LX, SX, TX	Least Concern	Little is known about stock status. Habitat destruction of estuarine environments and pollution are potential threats to juveniles.	[32, 33].
Giant red shrimp <i>Aristaeomorpha foliacea</i>	21, 31, 37 (GSA 9, 10, 12-16, 18), 61, 67, 71	TX, TBS	Not Evaluated	Exploited at unsustainable level in GSA 9-12, 16 and 18 mainly due to trawl fisheries. This species has been exploited since the 1950s and today the abundance is declining. Overfished in GSA 11.	[28, 34-36].

Scarlet shrimp <i>Aristaeopsis edwardsiana</i>	21, 27, 31, 34, 47, 51, 61, 71, 77, 81	OTT, PTB, TX	Not Evaluated	Potentially exploited in southern eastern Atlantic Ocean.	[37, 38].
Arabian Red Shrimp <i>Aristeus alcocki</i>	51, 57	OTT, PTB, TX	Not Evaluated	Little is known about stock status.	[39].
Deep-water red shrimp <i>Aristeus antennatus</i>	27, 34, 37, 51	OTT, PTB, TX	Not Evaluated	In Mediterranean Sea is assessed as exploited (GSA 1,5 and 9) and overexploited (GSA 6,10, 15-16) by intense fishing pressure.	[40-44].
Scaldfish <i>Arnoglossus laterna</i>	27, 34, 37, 47	TX	Least Concern	No information about stock status. It is usually discarded (e.g. northern east Mediterranean Sea).	[45-48].
Arrowtooth flounder <i>Atherestes stomias</i>	18, 61, 67, 77	TX	Not Evaluated	Exploited sustainably.	[49, 50].
Sand smelt <i>Atherina boyeri</i>	1, 4, 5, 27, 34, 37	GEN, LX	Least Concern	Little information about the current status of exploitation. It might be affected by water abstraction, drainage and pollution in freshwaters and brackish waters.	[51, 52].
Mediterranean sand smelt <i>Atherina hepsetus</i>	4, 5, 27, 34, 37	GEN, LN, SB	Not Evaluated	Little is known about the stock status.	[53, 54].
Sand smelt <i>Atherina presbyter</i>	27, 34, 37	GEN, LX	Least Concern (Data Deficient: Mediterranean Sea)	Little is known about the stock status.	[55-59].
Bullet tuna <i>Auxis rochei</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 71, 81	FIX, GEN, LX, LN, LX, SUX, TX	Least Concern	No quantitative stock assessment is currently available. This species can be caught as bycatch and discarded without poor report statistics. Overall trends in the small tuna	[60-65].

				catch may mask declining trends for individual species because annual landings are often dominated by the landings of a single species.	
Frigate tuna <i>Auxis thazard</i>	21, 31, 34, 37, 41, 47, 51, 57, 61, 71, 81	FIX, GEN, LX, LN, LX, SUX, TX	Least Concern	No quantitative stock assessment is currently available. This species can be caught as bycatch and discarded without poor report statistics. Overall trends in the small tuna catch may mask declining trends for individual species because annual landings are often dominated by the landings of a single species.	[64-67].
Broadnose skate <i>Bathyraja brachyurops</i>	41, 87	TX	Least Concern	The current stock status is unknown. It might be caught as bycatch in multi-species skate trawl fishery (e.g. Falkland Islands).	[68].
Garfish <i>Belone belone</i>	27, 34, 37	FIX, GEN, LX, SX, TX	Least Concern	There is no information about the current stock status.	[69, 70].
Purple dye murex <i>Bolinus brandaris</i>	27, 34, 37	DRX, FIX, GEN, OTM, TX	Not Evaluated	There is no information about the current stock status.	[71].
Bogue <i>Boops boops</i>	27, 34, 37, 47	SX, TX	Least Concern	The stock is subjected to overfishing in Mediterranean Sea (i.e. GSA 3, 25 and 26).	[28, 72-74].
Atlantic pomfret <i>Brama brama</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 81, 87	LX, TX	Least Concern (Data Deficient: Mediterranean Sea)	There is a little information about stock status.	[75-77].
Tusk <i>Brosme brosme</i>	21, 27	LX, SX, TX	Not Evaluated	There is a little information about the current stock status.	[78].

Smooth clam <i>Callista chione</i>	27, 34, 37	DRX, TX	Not Evaluated	Overexploited in the north west Mediterranean Sea (Maresme coast).	[79, 80].
Edible crab <i>Cancer pagurus</i>	27, 34, 37	FIX, TB	Not Evaluated	Stocks in steady state.	[81, 82].
Mediterranean green crab <i>Carcinus aestuarii</i>	34, 37, 47, 61	GEN, TB	Not Evaluated	There is a little information about stock status. It is often taken as bycatch in the trawl fisheries.	[83].
Red bandfish <i>Cepola macrophthalma</i>	27, 34, 37	GEN, PTM, SX, TB, TX	Least Concern	There is little information about stock status. It is often taken as bycatch in the trawl fisheries.	[84-86].
Striped venus <i>Chamelea gallina</i>	27, 37	DRX, TX	Not Evaluated	There is no stock assessment for this species, however it should be overexploited in the Adriatic Sea.	[87-89].
Santer seabream <i>Cheimerus nufar</i>	47, 51, 57	LX, TX	Data Deficient (Least Concern: Persian Gulf)	Stable in South Africa. Overexploited in Mozambique. Often taken as bycatch in shrimp trawl fisheries.	[74, 90-92].
Red gurnard <i>Chelidonichthys cuculus</i>	27, 34, 37	SX, TX	Least Concern	There is no real stock assessment for this species. Small-sized individuals are often taken as bycatch in trawl fisheries.	[52, 93-97].
Bluefin gurnard <i>Chelidonichthys kumu</i>	47, 51, 57, 61, 71, 77, 81	GEN, LX, TX	Least Concern	There is little information about the current stock status. It is often taken as bycatch in the red cod and flatfish trawl fisheries in parts of New Zealand.	[98, 99].
Tub gurnard <i>Chelidonichthys lucerna</i>	27, 34, 37	GEN, LX, SX, TX	Least Concern	There is little information about the stock status.	[100-102].
Longfin gurnard <i>Chelidonichthys obscurus</i>	27, 34, 37	TX	Least Concern	This species should be recorded in the IUCN Red List of Threatened Species as	[103-106].

				Endangered (EN) for Mediterranean and as Critically Endangered (CR) for Turkish Mediterranean coast.	
Thicklip grey mullet <i>Chelon labrosus</i>	4, 5, 27, 34, 37	GEN	Least Concern	There is little information about the current stock status.	[107-109].
Agassiz's thread-sail fish <i>Chlorophthalmus agassizi</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 71, 77	TX	Least Concern	There is little information about the stock status. One of the main bycatch species in the eastern Mediterranean Sea.	[110-112].
Spotted flounder <i>Citharus linguatula</i>	27, 34, 37, 47	SX, TX	Least Concern	There is little information about the stock status. It is occasionally caught as bycatch and discarded in commercial trawls.	[113-115].
Atlantic herring <i>Clupea harengus</i>	2, 5, 21, 27, 31	FIX, GEN, SX, TX	Least Concern	Current estimates suggest that only 10% of the stock is being exploited and there are no reports of over-fishing occurring.	[28, 116-119].
Conger eel <i>Conger conger</i>	27, 34, 37	FIX, GEN, LX, TX	Least Concern	There is little information about the stock status. Primarily bycatch by bottom trawls and demersal longline.	[28, 120-122].
Common dolphinfish <i>Coryphaena hippurus</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	GEN, LX, SX	Least Concern	Underexploited off southwest coast of India. It might be taken as bycatch.	[123-128].
Brown shrimp <i>Crangon crangon</i>	5, 27, 37	OTT, PTB, TX	Not Evaluated	Overfished in the North Sea. Juveniles are often discarded by trawl fisheries.	[129-131].
Pacific oyster <i>Crassostrea gigas</i>	21, 27, 31, 37, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	GEN, LX	Not Evaluated	Exploited all over its distributional range.	[132-134].
Lumpfish	21, 27, 31	GEN, LX, TX	Near Threatened	Exploited in Norway and	[135-138].

<i>Cyclopterus lumpus</i>				Iceland.
Angola dentex <i>Dentex angolensis</i>	34, 47	LX, TX	Near Threatened	May be susceptible to [139-141]. overexploitation off Mauritania.
Canary dentex <i>Dentex canariensis</i>	27, 34, 47	FIX, GEN, LX, TX	Least Concern	May be susceptible to [142-144]. overexploitation off West Africa
Common dentex <i>Dentex dentex</i>	27, 34, 37	FIX, GEN, LX, TX	Vulnerable	Overexploited in the [145, 146]. Mediterranean Sea.
Pink dentex <i>Dentex gibbosus</i>	27, 34, 37, 47	FIX, GEN, LX, TX	Least Concern (Data Deficient: Mediterranean)	Heavily exploited in Canary [147, 148]. Islands.
Large-eyed dentex <i>Dentex macrophthalmus</i>	27, 34, 37 47	GEN, LX, TX	Least Concern (Data Deficient: Mediterranean)	Fully exploited in Mauritania, [149, 150]. Senegal and Gambia.
European seabass <i>Dicentrarchus labrax</i>	27, 34, 37	GEN, LX, SX, TX	Least Concern (Near Threatened: Mediterranean)	Heavily exploited in [151, 152]. Mediterranean Sea.
Annular seabream <i>Diplodus annularis</i>	27, 34, 37	FIX, SB, TX	Least Concern	There is little information about [153, 154]. the current stock status.
Oman porgy <i>Diplodus cervinus</i>	27, 34, 37, 47	FIX, GEN, LX, TX	Least Concern (Data Deficient: Mediterranean)	May be susceptible to [155, 156]. overexploitation off Canary Islands.
Sharpsnout seabream <i>Diplodus puntazzo</i>	27, 34, 37, 47	FIX, GEN, LX, TX	Least Concern	There is little information about [145, 157]. the current stock status.
White seabream <i>Diplodus sargus</i>	27, 34, 37, 47, 51	FIX, GEN, LX, TB	Least Concern	No evidence of overexploitation. [158, 159].
Blacktail bream <i>Diplodus vulgaris</i>	27, 34, 37, 47	FIX, GEN, LX, SX, TX	Least Concern	There is little information about [160]. the current stock status.
Donax clams	27, 34, 47, 51	DRX, TX	Not Evaluated	There is little information about [161, 162]. the current stock status.

<i>Donax trunculus</i>				
Patagonian longfin squid <i>Doryteuthis gahi</i>	41, 87	TX, TB	Not Evaluated	Exploited all over its [163, 164]. distributional range.
Market squid <i>Doryteuthis opalescens</i>	67, 77	SUX, LA	Not Evaluated	Exploited along California [165-167]. coast.
Humboldt squid <i>Dosidicus gigas</i>	57, 67, 77, 87	LX, RG	Data Deficient	There is little information about [168, 169]. the current stock status.
Horned octopus <i>Eledone cirrhosa</i>	27, 34, 37	FIX, GEN, LX, TB	Not Evaluated	There is little information about [28, 170]. the current stock status. Undersized individuals are often discarded in trawl fisheries and catches are frequently mixed together with octopus or other cephalopods.
Musky octopus <i>Eledone moschata</i>	27, 34, 37	FIX, GEN, LX, TB	Not Evaluated	There is little information about [171, 172]. the current stock status. Undersized individuals are often discarded in trawl fisheries and catches are frequently mixed together with octopus or other cephalopods.
European anchovy <i>Engraulis encrasicolus</i>	27, 34, 37, 47	OTM, SUX, PTM, SB	Least Concern	Exploited in the middle east [28, 72, 173-176]. Atlantic and Mediterranean (GSA 9, 16, 22, 29) and exploited at unsustainable level in GSA 17 and 18. This species is vulnerable to environmental variability.
Razor clam <i>Ensis directus</i>	21, 27, 31, 77	DRX	Not Evaluated	There is little information about [177, 178]. the stock status.
Minor jackknife clam <i>Ensis minor</i>	27, 31, 37, 77	DRX	Not Evaluated	There is little information about [178]. the stock status.

White grouper <i>Epinephelus aeneus</i>	27, 34, 37, 47	GEN, LX, TB, TX	Near Threatened (Data Deficient: Europe)	Exploited along the west coast of Africa and in Mediterranean. This species is dramatically declining all over its geographic range.	[179-181].
Goldblotch grouper <i>Epinephelus costae</i>	27, 34, 37, 47	TX	Data Deficient	There is a severe lack of population data available to form a conclusion as to its degree of exploitation or trends in population.	[182-185].
Spinycheek grouper <i>Epinephelus diacanthus</i>	31, 34, 41, 47, 51, 57, 71, 77	FIX, GN, LN, LX, TB	Near threatened	Dramatically declining almost all over its geographic range. This it seems due to the expansion of trawl fisheries in the deep sea and the intense fishing pressure on both juveniles (mostly) and adults in shallow waters.	[186-188].
Dusky grouper <i>Epinephelus marginatus</i>	27, 34, 37, 41, 47, 51	BT, GEN, LX, RG	Endangered	Dramatically declining in Mediterranean and in Europe. This species is abundant in marine protected areas in France, Spain and Italy where fishing is forbidden.	[189-193].
Red grouper <i>Epinephelus morio</i>	31, 41	FIX, LX, TX	Near Threatened	Fully exploited for the US Gulf of Mexico. Overexploited in Mexico fisheries.	[194-199].
Red-tipped grouper <i>Epinephelus retouti</i>	51, 57, 61, 71, 77	FIX, LX	Data Deficient	There is a lack of information on its biology, ecology, threats and fisheries.	[200, 202].
Stone crab <i>Eriphia verrucosa</i>	27, 37	FIX, GEN	Not Evaluated	There is little information about stock status.	[203, 204].
Bonito <i>Euthynnus alletteratus</i>	21, 27, 31, 34, 37, 41, 47	FIX, GEN, LX, SB, SX, TX	Least Concern	Exploited all over its distributional range.	[205-207].
Grey gurnard	27, 34, 37	TX	Not Evaluated	Stocks should be at low risk of	[208-210].

<i>Eutrigla gurnardus</i>				overexploitation.	
Pacific cod <i>Gadus macrocephalus</i>	61, 67, 77	FIX, GEN, LX, SX, TX	Not Evaluated	Stocks should be sustainably exploited.	[211, 212].
Atlantic cod <i>Gadus morhua</i>	21, 27	FIX, GN, LX, TX, OTM, SUX, SDN, TBS	Vulnerable	Historically defined as one of the most overexploited species in the world. Assessed as Least Concern in Europe. In the northeast Atlantic, cod is well researched and managed. Here, all cod stocks, with exception of the Celtic Sea stock have suffered prolonged periods of decline since the 1970s extending into the mid-2000. These stocks range from fully exploited to depleted. Overall, the total biomass summed across all stocks is relatively stable and recently increasing.	[28, 213-218].
Witch flounder <i>Glyptocephalus cynoglossus</i>	21, 27	TX	Not Evaluated	Stock is overfished and overfishing is occurring in the north east Atlantic.	[219, 220].
Giant goby <i>Gobius cobitis</i>	27, 34, 37	FIX, GEN, HAR	Not Evaluated	There is little information about the current stock status.	[221, 222].
Black goby <i>Gobius niger</i>	27, 34, 37	TX	Least Concern	There is little information about the stock status.	[223-225].
Rock goby <i>Gobius paganellus</i>	27, 34, 37, 47	TX	Least Concern	There is little information about the stock status.	[226-228].
Blackbelly rosefish <i>Helicolenus dactylopterus</i>	21, 27, 31, 34, 37, 41, 47, 51	LX, TX	Least Concern	There is no stock status information.	[229-231].
Halibut	21, 27	LX, OTM, SUX	Endangered (Vulnerable:	Since the 1980s, it has been a target species in west Atlantic.	[232, 233].

<i>Hippoglossus hippoglossus</i>			Europe)	Since 1985, more than 90% of biomass decreased in Iceland. Nevertheless, there is management strategy in this area. Given the intense fishing pressure, its abundance has been recently reduced overall because individuals are harvested before ever reproducing.	
American lobster <i>Homarus americanus</i>	21, 27	FIX	Least Concern	Exploited mainly in the Southern Gulf of St. Lawrence and Newfoundland.	[234-236].
European lobster <i>Homarus gammarus</i>	27, 34, 37	DRX, FIX, LX	Least Concern	The status of the stock of lobster in the Northumberland and Durham area is low, male and female biomasses are around the minimum reference point limit. The exploitation level is very high, although it has decreased since 2012. Exploitation is significantly above the maximum reference point limit and is particularly high around the Minimum Landing Size. The status of the stock has improved slightly since the last assessment in 2012.	[234, 237, 238].
Argentine squid <i>Illex argentinus</i>	41, 58, 87	LX, TX	Least Concern	It is currently fished at, or possibly even above, its maximum sustainable level.	[239-241].
Broadtail shortfin squid <i>Illex coindetii</i>	21, 27, 31, 34, 37, 47	LX, SX, TX	Least Concern	Subjected only to low fishing pressure (mainly as bycatch) in some regions of its range.	[240, 242, 243].
Northern shortfin sSquid <i>Illex illecebrosus</i>	21, 27, 31	LX, OTM	Least Concern	There is little information about the current stock status.	[240, 244, 245].
Shortfin mako	21, 27, 31, 34,	GN, GEN, LX, RG	Vulnerable (Near	This species is often taken as a	[246-254].

<i>Isurus oxyrinchus</i>	37 (no Black Sea), 41, 47, 51, 57, 61, 71, 77, 81, 87		Threatened: northeast Pacific)	bycatch from tuna and swordfish longline fisheries worldwide. Catches are not frequently recorded, thus its global stock status might be more compromised. Unless in the Mediterranean, management strategies have been currently applied in north west Atlantic, middle west Atlantic and Pacific oceans. In Mediterranean (Ligurian Sea), several juveniles of shortfin mako are taken from the swordfish longline fishery.	
Cape rock lobster <i>Jasus lalandii</i>	47, 81	FIX	Least Concern	Stock should be stable.	[255].
Skipjack tuna <i>Katsuwonus pelamis</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	FIX, GEN, LX, SUX, SX, TX	Least Concern	It should be fully exploited all over its geographic range. Maximum Sustainable Yield has been reached in the Indian Ocean.	[28, 256-261].
Rock sole <i>Lepidopsetta bilineata</i>	61, 67, 77	TX	Not Evaluated	Stock should be stable.	[262, 263].
Silver scabbardfish <i>Lepidopus caudatus</i>	27, 34, 37, 41, 47, 51, 57, 81, 87	LX, TX	Data Deficient (Least Concern: Europe and Mediterranean)	There is little information about the stock status.	[264-267].
Fourspotted megrim <i>Lepidorhombus boscii</i>	27, 34, 37	TX	Not Evaluated	Fully exploited in Cantabrian Sea and Atlantic Iberian waters.	[268, 269].
Redwing searobin <i>Lepidotrigla microptera</i>	61, 71	TX	Not Evaluated	There is little information about the current stock status.	[270, 271].
Winter skate	21	GN, LX, TX	Endangered	Its life history characteristics increase its vulnerability to	[210, 272-274].

<i>Leucoraja ocellata</i>				exploitation, reduce its rate of recovery and increase its risk of extinction. Frequently taken as bycatch in fisheries (i.e. TBS, TX, DRX) directed at other demersal species. Since the 1970s, this species has dramatically decreased (> 90%) along its geographic range due to unsustainable fishing.	
European hake <i>Merluccius merluccius</i>	27, 37	GN, GEN, LX, TX, OTM, SDN, SX, TB	Not evaluated (Vulnerable: Mediterranean; Least Concern: Europe)	In overexploitation in GSA 1, 5, 6, 7, 10, 12-18 and still there is no fisheries management.	[28, 48, 275-277].
Flathead mullet <i>Mugil cephalus</i>	1, 2, 3, 4, 5, 6, 21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 71, 77, 81, 87	FIX, LX, SB, SUX, TX	Least Concern (Data Deficient: Persian Gulf)	It should be stable all over its geographic range.	[278-280].
Red mullet <i>Mullus barbatus</i>	27, 34, 37	FIX, GEN, HAR, LX, TX	Least concern	In the Mediterranean is considered as overexploited in GSA 7, 9, 11 and in overexploitation in GSA 3, 6, 24, 25 and also in west Africa (i.e. Mauritania, Morocco, Senegal and Gambia). Juveniles are frequently taken as bycatch by trawl fisheries.	[28, 281-284].
Striped red mullet <i>Mullus surmuletus</i>	27, 34, 37	GEN, SX, TX	Least Concern (Data Deficient: Europe)	Overfished in Mediterranean Sea (GSA 5, 9, 15 and 16). Juveniles are often taken as bycatch by trawl fisheries.	[28, 284, 285].
Black moray <i>Muraena helena</i>	27, 34, 37	FIX, LX	Least Concern	Population trend has not been quantified. Further research needs to be done to determine the population trend of this	[286-289].

				species over its entire distribution.	
Starry smoothhound <i>Mustelus asterias</i>	27, 34, 37	GEN, LX, TX	Least Concern (Near Threatened: Europe; Vulnerable: Mediterranean)	No species-specific fisheries catch data are available because landings data often refer to all <i>Mustelus</i> species combined, or even <i>Mustelus</i> species and <i>Squalus</i> species combined.	[290-294].
Mottled grouper <i>Mycteroperca rubra</i>	27, 31, 34, 37, 47	LX, TX	Least Concern	There is little information available on the stock status.	[295, 296].
Mediterranean mussel <i>Mytilus galloprovincialis</i>	18, 27, 37, 47, 57, 58, 61, 67, 71, 77, 81, 87	DRX, TX	Not Evaluated	No information about stock status. However this species has been listed as one of the World's Worst 100 Invasive Alien Species.	[297, 298].
Chilean mussel <i>Mytilus platensis</i>	31, 34	LX	Not Evaluated	Stock status is under assessment.	[299].
Norway lobster <i>Nephrops norvegicus</i>	27, 37	FIX	Least Concern	Overexploited in Mediterranean Sea (GSA 1, 6 and 9).	[28, 119, 300, 301].
Wellington flying squid <i>Nototodarus sloanii</i>	81	LX, TX	Least Concern	Although this species is subject to fishing pressure, current levels appear to be sustainable and catches are regulated through quota systems.	[302, 303].
Saddled seabream <i>Oblada melanura</i>	27, 34, 37, 47	GEN, LX, SX, TX	Least Concern	Overexploited in Eastern Mediterranean Sea (Greek coast).	[304, 305].
Big blue octopus <i>Octopus cyanea</i>	51, 57, 61, 71, 77, 81	FIX, LX	Not Evaluated	Moderate concern.	[306, 307].
Mexican four-eyed octopus <i>Octopus maya</i>	31	FIX	Not Evaluated	Moderate concern.	[308, 310].
Scuttle	21, 27, 31, 34,	FIX, TX	Not Evaluated	Moderate concern in Portuguese	[28, 311-312].

<i>Octopus vulgaris</i>	37, 41, 47, 51, 57, 61, 71, 77, 87			and Spanish coasts. High concern in Morocco and Mauritania coasts.	
Pink salmon <i>Oncorhynchus gorbuscha</i>	2, 4, 5, 18, 21, 27, 61, 67, 77	FIX, GEN, LX, SX	Not Evaluated	Stock should be stable.	[313-315].
Keta salmon <i>Oncorhynchus keta</i>	2, 3, 4, 5, 18, 27, 61, 67, 77	FIX, GEN, LX	Not Evaluated	Fully exploited in USA.	[316].
Coho salmon <i>Oncorhynchus kisutch</i>	2, 3, 4, 5, 18, 27, 61, 67, 71	FIX, GEN, LX, SX. TX	Not Evaluated	Fully exploited in USA.	[317-321].
Rainbow trout <i>Oncorhynchus mykiss</i>	1, 2, 3, 4, 5, 6, 8, 18, 21, 27, 37, 51, 57, 61, 67, 71, 77, 81	GEN, LX	Not Evaluated	Fully exploited in USA.	[322-324].
Sockeye salmon <i>Oncorhynchus nerka</i>	2, 4, 5, 6, 18, 61, 67, 77	FIX, GEN, LX, SX	Least Concern	At the species level, the population is believed to be stable; however, several subpopulations are declining.	[325].
European flat oyster <i>Ostrea edulis</i>	21, 27, 37, 67	DRX, TX	Not Evaluated	Overexploited in the North Sea.	[95, 326, 327].
Red pandora <i>Pagellus bellottii</i>	34, 37, 47	FIX, LX, TX	Least Concern	Overexploited along Ghana coast.	[328, 329].
Blackspot seabream <i>Pagellus bogaraveo</i>	27, 34, 37	LX, TX	Near Threatened (Least Concern: Mediterranean)	Overexploited all over its geographic range.	[330-333].
Common pandora <i>Pagellus erythrinus</i>	27, 34, 37	FIX, LX, SX, TX	Least Concern	Overexploited in Mediterranean Sea (GSA 9, 15 and 16). Exploited along Canary Islands.	[334-336].
African red bream <i>Pagrus africanus</i>	34, 47	LX, TX	Least Concern	There is little information about the stock status.	[337].
Red-banded sea bream	27, 34, 37, 47	GEN, LX, TX	Least Concern	There is little information about	[338].

<i>Pagrus auriga</i>			(Data Deficient: Mediterranean)	the stock status.	
Bluespotted seabream <i>Pagrus caeruleostictus</i>	27, 34, 37, 47	FIX, LX, SX, TX	Least Concern (Data Deficient: Mediterranean)	Fully exploited along West Africa (Mauritania, Senegal and Gambia).	[339, 340].
Red porgy <i>Pagrus pagrus</i>	21, 27, 31, 34, 37, 41	FIX, LX, SX, TX	Least Concern	Overexploited in the southern eastern coast of USA and Turkey. Exploited in the Gulf of Mexico.	[341-344].
Common prawn <i>Palaemon serratus</i>	5, 27, 34, 37	FIX, TX	Not Evaluated	There is little information about the current stock status.	[345, 346].
Common spiny lobster <i>Palinurus elephas</i>	27, 37, 37	FIX, LX, TX,	Vulnerable	Overexploited along the France and Portuguese coasts. Catches are often registered together with <i>P. mauritanicus</i> .	[347-349].
Northern shrimp <i>Pandalus borealis</i>	18, 21, 27, 61, 67	TBS	Not Evaluated	Intensively exploited along the coast of Greenland, Faroe Islands and Norway.	[211, 350, 351].
Royal spiny lobster <i>Panulirus regius</i>	34, 37, 47	FIX	Data Deficient	Overexploited along the coast of Cape Verde, Mauritania and Angola.	[352-354].
Kiddi shrimp <i>Parapenaeopsis stylifera</i>	51, 57, 71	OTT, PTB, TX	Not Evaluated	There is little information about the stock status.	[355, 356].
Rose shrimp <i>Parapenaeus longirostris</i>	27, 31, 34, 37, 41, 47	TX, TBS	Not evaluated	In overexploitation in the Mediterranean (GSA 10, 14-16, 18) and in west Africa (i.e. Mauritania, Senegal and Gambia).	[28, 276, 357-360].
Undulate venus <i>Paratapes undulatus</i>	51, 57, 61, 71, 81	DRX	Not Evaluated	Overexploited along Philippine islands.	[361].
Cinnabar goatfish <i>Parupeneus heptacanthus</i>	47, 51, 57, 61, 71, 77, 81	FIX, LX, TX	Least Concern	There is little information about the stock status.	[362, 363].
Pilgrim's scallop	34, 37	DRX, TX	Not Evaluated	There is little information about	[364, 365].

<i>Pecten jacobaeus</i>				the current stock status.
Scallop <i>Pecten maximus</i>	27, 34, 37	DRX, TX	Not Evaluated	Overexploited in France and [94, 95]. probably all over the geographic distribution range.
Sand sole <i>Pegusa lascaris</i>	27, 34, 37, 41, 47	SX, TX	Least Concern (Data Deficient: Mediterranean)	There is little information about [366]. the current stock status.
Kuruma prawn <i>Penaeus japonicus</i>	37, 51, 57, 61, 71	TX, TBS	Not Evaluated	There is little information about [367]. the stock status.
Caramote prawn <i>Penaeus kerathurus</i>	27, 34, 37	GEN, TX	Not Evaluated	There is little information about [43, 368, 369]. the stock status.
Giant tiger prawn <i>Penaeus monodon</i>	31, 51, 57, 61, 71, 77, 81	FIX, GEN, SX, TX	Not Evaluated	There is little information about [370, 371]. the stock status.
Whiteleg shrimp <i>Penaeus vannamei</i>	77, 87	TBS	Not Evaluated	Overexploited in the southern [372]. east of the Gulf of California.
Greater forkbeard <i>Phycis blennoides</i>	27, 34, 37	GEN, LX, TX	Not Evaluated	There is little information about [119, 373]. the stock status.
Baltic flounder <i>Platichthys flesus</i>	5, 18, 27, 34, 37	FIX, LX, TX	Least Concern (Near Threatened: Mediterranean)	There is little information on the [28, 374]. current stock status.
Argentine red shrimp <i>Pleoticus muelleri</i>	41	OTT, PTB, TX	Not Evaluated	There is little information on the [375, 376]. current stock status. However, within its catches are also often taken together with vulnerable sharks, rays and fish species.
Arrow shrimp <i>Plesionika heterocarpus</i>	34, 37	OTT, PTB, TX	Not Evaluated	There is little information on the [377, 379]. current stock status.
European plaice <i>Pleuronectes platessa</i>	21, 27, 34	FIX, GEN, LX, TX	Least Concern (Near Threatened: Mediterranean)	Exploited sustainably. [28, 380-382].

Saithe <i>Pollachius virens</i>	18, 21, 27, 31	FIX, GEN, LX, SUX, TX	Least Concern	Uncertain the current stock status. [28, 383].
Bluefish <i>Pomatomus saltatrix</i>	5, 21, 27, 31, 34, 37, 41, 47, 51, 57, 81	GEN, LX, SUX, SX, TX	Vulnerable (Near Threatened: Europe; Least Concern: Mediterranean, Gulf of Mexico)	Uncertain the current stock status. [384-388].
Blue shark <i>Prionace glauca</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	FIX, RG, LX, SX, TX	Near threatened	Assessed as Vulnerable in Mediterranean. It has been rarely considered as a commercial species. It's mainly taken as bycatch by longline and drift net fisheries. Many catches are unreported. Target species of recreational fishing. [28, 64, 249, 251, 253, 389-393].
West african goatfish <i>Pseudupeneus prayensis</i>	34, 37, 47	GEN, LX, TX	Vulnerable	Fully exploited in west Africa (Senegal and Gambia) and moderate exploited along Cape Verde coast. Often taken as bycatch in octopus fisheries in Senegal and Guinea. [394-396].
Starry skate <i>Raja asterias</i>	27, 37	FIX, GN, TX	Near threatened	Frequently taken as bycatch by Italian, Spanish and France fisheries. In the Mediterranean is assessed as Least Concern and it is considered in overexploitation in GSA 9. [397-404].
Thornback skate <i>Raja clavata</i>	27, 34, 37, 47, 51	GN, LX, SUX, RG, TX	Near threatened	Frequently taken as bycatch by trawl fisheries. Generally, catches are mixed with other relative species. All stocks are declining in terms of abundance and biomass. In Mediterranean is defined as Least Concern and there are no management [28, 404, 405].

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Brown skate <i>Raja miraletus</i>	27, 34, 37, 47, 51	GEN, LX, TX	Least Concern	There is little information on the stock status. However, this species is often taken as bycatch in trawl fisheries in Mediterranean Sea.	[406-409].
Greenland halibut <i>Reinhardtius hippoglossoides</i>	18, 21, 27, 61, 67, 77	SX, TX	Not Evaluated	Exploited but the stock identity for Greenland halibut remains uncertain.	[119, 350, 410].
Japanese littleneck clam <i>Ruditapes philippinarum</i>	27, 61, 67, 77	DRX, MIX	Not Evaluated	There is little information about the current stock status.	[411, 412].
Atlantic salmon <i>Salmo salar</i>	2, 3, 4, 5, 6, 18, 21, 27, 37, 41, 67, 81, 87	FIX, GEN, LX	Least Concern (Vulnerable: Europe)	Fully exploited almost all over its geographic distribution range.	[135, 209, 350, 413, 414].
Arctic char <i>Salvelinus alpinus</i>	2, 4, 5, 8, 18, 21, 27, 67	GEN, LX	Least Concern	There is little information about the current stock status.	[415-417].
Atlantic bonito <i>Sarda sarda</i>	21, 27, 31, 34, 37, 41, 47	FIX, GEN, LX SX	Least Concern	The stock in Turkey could be heavily exploited.	[28].
European pilchard <i>Sardina pilchardus</i>	27, 34, 37	FIX, GN, PTM, SX, TX	Least concern (Near Threatened: Europe).	Overexploited in the eastern central Atlantic (e.g. Morocco), however some conservation measures are in place. In Mediterranean is overexploited in GSA 6, 9, 16,17. Long-term changes in the environment might cause recruitment fluctuations.	[28, 418-421].

Karanteen <i>Sarpa salpa</i>	27, 34, 37, 47, 51	FIX, GEN, LX, TX	Least Concern	There is little information about the current stock status. However, this species may become threatened by continued success of siganid Lessepsian migrants.	[422-424].
Red drum <i>Sciaenops ocellatus</i>	21, 31, 37, 51, 71, 87	FIX, GEN, LX	Least Concern	The stock should be exploited sustainably.	[425-427].
Pacific chub mackerel <i>Scomber japonicus</i>	51, 57, 61, 67, 71, 77, 81, 87	FIX, GEN, LX, SUX, SX, SUX, TX	Least Concern	Heavily exploited in the North Sea. Fully exploited in the northern west coasts of Africa (Morocco, Cape Bojador and southern Senegal).	[28, 94, 428].
Atlantic mackerel <i>Scomber scombrus</i>	21, 27, 31, 34, 37	FIX, GEN, LX, SUX, SX, TX	Least Concern	Intensively exploited in the North Sea.	[28, 217, 348].
Turbot <i>Scophthalmus maximus</i>	27, 34, 37, 81	LX, TX	Vulnerable (Near Threatened: Mediterranean Sea).	Overexploited in Mediterranean Sea (GSA 29) and along Ukraine coast.	[28, 429].
Kite <i>Scophthalmus rhombus</i>	27, 34, 37	LX, TX	Least Concern	It should be exploited sustainably.	[430, 431].
Slender rockfish <i>Scorpaena elongata</i>	27, 34, 37, 47	LX, TX	Least Concern	There is no information about the stock status.	[432, 433].
Black scorpionfish <i>Scorpaena porcus</i>	27, 34, 37	GEN	Least Concern	There is little information about the stock status.	[434-436].
Red scorpionfish <i>Scorpaena scrofa</i>	27, 34, 37, 47, 51	LX, TX	Least Concern	There is little information about the stock status.	[437, 438].
Spotted fin scorpionfish <i>Scorpaena stephanica</i>	34, 37, 47	LX, TX	Least Concern	There is little information about the stock status. Often taken as bycatch in trawl and longline fisheries. Often confused with <i>Scorpaena scrofa</i> .	[439].

Small spotted catshark <i>Scyliorhinus canicula</i>	27, 34, 37	GEN, LX, SX, TX	Least Concern	Overfished in Mediterranean Sea (GSA 9). Often taken as bycatch in demersal fisheries in Mediterranean Sea.	[276, 404, 440, 441].
Pacific ocean perch <i>Sebastes alutus</i>	61, 67, 77	LX, TX	Not Evaluated	There is little information about the stock status.	[442].
Rose fish <i>Sebastes norvegicus</i>	21, 27	LX, SX	Not Evaluated	Presently the stock level is historically low and in very poor condition. However, the status of the stock cannot be fully evaluated.	[443-445].
Needle cuttlefish <i>Sepia aculeata</i>	51, 57, 61, 71	FIX, GEN, SX, TX	Data Deficient	The stock is overexploited in the Gul of Thailand.	[446, 447].
Elegant cuttlefish <i>Sepia elegans</i>	27, 31, 34, 37, 47	TX	Data Deficient	Intensively exploited in the Sicilian Channel. Often taken as bycatch in Mediterranean and West African trawl fisheries.	[448, 449].
Golden cuttlefish <i>Sepia esculenta</i>	61, 71	TX	Data Deficient	Intensively exploited in eastern China.	[450].
Common cuttlefish <i>Sepia officinalis</i>	27, 34, 37, 47, 51	FIX, TX	Least Concern	Potentially overexploited in Mediterranean Sea but data are uncertain.	[28, 451].
Pharaoh cuttlefish <i>Sepia pharaonis</i>	37, 51, 57, 61, 71	FIX, HAR, TX, SX, TB, TX	Data Deficient	Intensively exploited off Yemen, Hong Kong and Thailand.	[452, 453].
Spineless cuttlefish <i>Sepiella inermis</i>	51, 57, 61, 71	SX	Data Deficient	Intensively exploited in Thailand, Sri Lanka and India.	[454, 455]
Japanese spineless cuttlefish <i>Sepiella japonica</i>	61, 71	TB	Data Deficient	It is recovering from overfishing in in the East China Sea.	[456].
Dwarf bobtail squid <i>Sepioloa rondeletii</i>	27, 34, 37	SUX	Data Deficient	There is little information about the stock status.	[457].

Greater amberjack <i>Seriola dumerili</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 71, 77, 81	FIX, GEN, LX, TX	Least Concern	Overexploited in Mediterranean and Black Seas. Both juveniles and adults are taken in a number of multi-species fisheries mainly in Mediterranean Sea.	[284, 458-460].
Yellowtail amberjack <i>Seriola lalandi</i>	31, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	SX, TX	Least Concern	The status of kingfish stocks is poorly understood.	[461, 462].
Japanese amberjack <i>Seriola quinqueradiata</i>	61, 77	LX	Least Concern	There is little information about the stock status.	[463, 464].
Senegalese sole <i>Solea senegalensis</i>	27, 34, 37, 47	TX	Data Deficient	There is little information about the stock status.	[465, 466].
Dover sole <i>Solea solea</i>	27, 34, 37	GEN, SX, TX	Data Deficient	Overexploited in Mediterranean Sea.	[28, 467, 468].
Grooved razor clam <i>Solen vagina</i>	27, 34, 37	DRX, MIS	Not Evaluated	There is no information about the stock status.	-
Razor mud shrimp <i>Solenocera melantho</i>	61, 71	OTT, PTB, TX	Not Evaluated	There is no information about the stock status.	[469, 470].
Gilt-head seabream <i>Sparus aurata</i>	27, 34, 37, 5	FIX, GEN, LX, SX, TX	Least Concern	There is little information about the stock status.	[471-473].
European barracuda <i>Sphyraena sphyraena</i>	27, 34, 37, 47	GEN, LX, SX, TX	Least Concern (Data Deficient: Europe)	There is little information about the stock status.	[474-4776].
Black seabream <i>Spondyliosoma cantharus</i>	27, 34, 37, 47	FIX, GEN, LX, SX, TX	Least Concern	Heavily exploited in Portuguese waters and off the Canary Islands.	[292, 477].
Spiny dog fish <i>Squalus acanthias</i>	21, 27, 31, 34, 37, 41, 47, 51, 67,87	FIX, GEN, GN, LX, TX, SX, TB	Vulnerable (Critically Endangered: Mediterranean Sea).	One of the most vulnerable shark species to overexploitation because of its life history characteristics. In the northeast Atlantic there is high discard	[28, 251, 478-480].

mortality in trawl and gillnet fisheries. In the Black Sea is assessed as in overfishing and it is often taken as bycatch in trawl and purse seine operations. Its abundance is generally high, however the reduction of several stocks might be due to a wrong management plans. Generally, very few management strategies are really applied.

Sea grasshopper <i>Squilla mantis</i>	34, 37, 47	DRX, SX	Not Evaluated	There is little information about the stock status.	[481-483].
Alaska pollack <i>Theragra chalcogramma</i>	18, 61, 67, 77	GEN, LX, PTB, SX, TX	Not Evaluated	There is little information about the current stock status.	[484, 485].
Albacore <i>Thunnus alalunga</i>	21, 27, 31, 34, 37, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	LX, SUX	Near threatened (Least Concern: Mediterranean Sea, Europe and in the Gulf of Mexico.	This is a very important commercial species for canned tuna fish market. In the north Atlantic, immature albacore are taken by longline and other fisheries. However, a quota system has been applied in the north and south Atlantic. There are no management strategies in the Pacific and Indian oceans. However, a reduction of fishing effort is strongly suggested.	[28, 486-489].
Yellowfin tuna <i>Thunnus albacares</i>	21, 27, 31, 34, 41, 47, 51, 57, 61, 71, 77, 81, 87	GEN, GN, LN, LX, SUX, SX FADs***	Near threatened	Yellowfin tuna is the second most important species of tuna for canning. Dolphins and tuna-like species can be taken as bycatch by yellowfin tuna fisheries. Overall, all stocks are declining and the Atlantic one is considered as overfished.	[28, 65, 256, 489-492].

					Fishing is regulated in the Atlantic and Pacific oceans by fishing closure and reduction of fishing effort. In the Indian ocean it might be in overfishing due to Somali-based piracy.	
Southern bluefin tuna <i>Thunnus maccoyii</i>	41, 47, 48, 51, 57, 58, 81, 87	GEN, GN, LX, SX, TB	GEN,	Critically endangered	Since the 1950s, this species has been severely exploited mainly due to canning until the early 1980s. Biomass has declined more than 80% over the past 40 years and still there is no sign of rebuilding. This is a very important commercial species in Australia, Japan, New Zealand and the Republic of Korea. Particularly in Australia , mostly immature fish are removed from the wild and fattened in farms. There is also an high mortality rate of fish during transport. The meat is highly prized for sashimi market in Japan. However, southern bluefin tuna is managed with an annual quota system.	[486, 493-495].
Bigeye <i>Thunnus obesus</i>	21, 27, 31, 34, 41, 47, 51, 57, 61, 67, 71, 77, 81, 87	FIX, GEN, GN, GEN, LX, LN, LX, SUX, SX FADs		Vulnerable	Small bigeye are caught mainly for canning, while larger fish are caught for sashimi market. Environmental conditions are believe to significantly influence recruitment level over time. Frequently taken as bycatch in yellowfin tuna fisheries. In the Atlantic and western central Pacific oceans, the stock is in an overfished state. In these	[28, 486, 496-498].

				regions, management measures have been currently applied such as reduction of fishing effort, fishing fleet and catches.	
Japanese flying squid <i>Todarodes pacificus</i>	61, 67, 71	SX, TX	Least concern	Although the stock is relatively well managed within Japanese maritime limits through TAC quotas; reliable estimates of status of the stock are not available in Chinese and Korean waters hence status of the stock cannot be determined.	[499-501].
Oceanic squid <i>Todarodes sagittatus</i>	18, 21, 27, 31, 34, 37, 41, 47	TX	Least concern	There is little information about the stock status.	[502].
Mediterranean horse mackerel <i>Trachurus mediterraneus</i>	27, 34, 37	GEN, LX, SX, TX	Least concern	Stock should be relatively stable.	[503].
Atlantic horse mackerel <i>Trachurus trachurus</i>	27, 34, 37, 47, 51, 61, 71	GEN, LX, TX	Vulnerable (Least concern: Mediterranean, Europe)	Overexploited in Mediterranean Sea (GSA) and West Africa.	[28, 504-507].
Capelin <i>Trisopterus capellanus</i>	37	SUX, TX	Least concern	Potentially overexploited in the Mediterranean Sea but data are uncertain.	[508, 509].
Sea snail <i>Tritia mutabilis</i>	37	FIX, TX	Not Evaluated	There is little information about the stock status.	[510, 511].
Shi drum <i>Umbrina cirrosa</i>	27, 34, 37	GEN, SX, TX	Vulnerable	Fully exploited all over its geographic distribution.	[512, 513].
Warty venus <i>Venus verrucosa</i>	27, 34, 37, 47	TX	Not Evaluated	Intensively exploited along Greek, Normandy and Bretagne coasts.	[514, 515].
Swordfish	21, 27, 31, 34, 37, 41, 47, 51,	GEN, LX, TX	Least Concern (Near Threatened:	Overexploited in Mediterranean Sea. Fully exploited in South	[516-520].

<i>Xiphias gladius</i>	57, 61, 67, 71, 77, 81, 87		Mediterranean)	Atlantic.
Atlantic john dory	18, 27, 34, 37, LX, SX, TX		Data Deficient	Heavily exploited off [521-524].
<i>Zeus faber</i>	47, 51, 57, 61, 71, 81			Mauritania. Often taken as bycatch in trawl fisheries.
Grass goby	37	FIX, LX, MIS	Least Concern	There is little information about [525]. the stock status.
<i>Zosterisessor ophiocephalus</i>				

* Gear type acronyms adapted and defined according to FAO code list: DRX = dredges; FG= falling gear; FIX = traps; GEN= gillnets; HAR= harpoons; HMX= harvesting machines; LN= lift nets; LX= hooks and lines; MIS= miscellaneous; RG= recreational fishing gear; SUX= surrounding nets; SX= seine nets; TX= trawls.

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