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### An updated Checklist of the Marine fishes from Syria with emphasis on alien species

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Supplementary Material

An updated Checklist of the Marine fishes from Syria with emphasis on alien species

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**Table 1.** Number of recorded species from Syrian Marin water, and the native range of alien species.

Category	Species	Families	Orders	Alien	Alien species		
					Red Sea	Indian Ocean	Indo-Pacific
Elasmobranchii	40	23	9	2	-	-	2
Holocephali	2	1	1	-	-	-	-
Actinopterygii	256	87	26	54	7	15	32
Total	298	111	36	56	7	15	34

**Table 2.** Updated list of recorded species in Syrian marine water. The status, frequency, fishing gear, the first record (N= native; AL= alien; REX= range expanding).

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Elasmobranchii</b>					
<b>Hexanchiformes</b>					
<b>Hexanchidae</b>					
<i>Heptranchias perlo</i> (Bonnaterre, 1788)	N	frequent		hook & line	Ali & Saad, 2003
<i>Hexanchus griseus</i> (Bonnaterre, 1788)	N	common	yes	hook & line	Ali & Saad, 2003
<b>Lamniformes</b>					
<b>Lamnidae</b>					
<i>Isurus oxyrinchus</i> Rafinesque, 1810	N	frequent		trammel	Ali & Saad, 2003
<b>Cetorhinidae</b>					
<i>Cetorhinus maximus</i> (Gunnerus, 1765)	N	single record		trammel	Ali <i>et al.</i> , 2012
<b>Alopiidae</b>					
<i>Alopias superciliosus</i> Lowe, 1841	N	rare		longline	Ali & Saad, 2003
<b>Carcharhiniformes</b>					
<b>Scyliorhinidae</b>					
<i>Galeus melastomus</i> Rafinesque, 1810	N	frequent		trawl	Ali & Saad, 2003
<i>Scyliorhinus canicula</i> (Linnaeus, 1758)	N	frequent		trawl	Gruvel, 1931
<b>Triakidae</b>					

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Mustelus mustelus</i> (Linnaeus, 1758)	N	frequent		trammel	Gruvel, 1931
<b>Carcharhinidae</b>					
<i>Carcharhinus obscurus</i> (Lesueur, 1818)	N	frequent		trammel	Ali & Saad, 2003
<i>Carcharhinus plumbeus</i> (Nardo, 1827)	N	common	yes	trammel	Ali & Saad, 2003
<b>Squaliformes</b>					
<b>Dalatiidae</b>					
<i>Dalatias licha</i> (Bonnaterre, 1788)	N	frequent		trawl	Ali & Saad, 2003
<b>Somniosidae</b>					
<i>Somniosus rostratus</i> (Risso, 1827)	N	frequent		trawl	Ali & Saad, 2003
<b>Etmopteridae</b>					
<i>Etmopterus spinax</i> (Linnaeus, 1758)	N	frequent		trawl	Capape & Ali, 2017
<b>Oxynotidae</b>					
<i>Oxynotus centrina</i> (Linnaeus, 1758)	N	frequent		trawl	Ali, 2003
<b>Centrophoridae</b>					
<i>Centrophorus granulosus</i> (Bloch & Schneider, 1801)	N	rare		hook & line	Gruvel, 1931
<i>Centrophorus moluccensis</i> Bleeker 1860	N	rare		hook & line	Ali, 2003
<i>Centrophorus uyato</i> (Rafinesque, 1810)	N	frequent		hook & line	Ali & Saad, 2003
<b>Squalidae</b>					
<i>Squalus blainville</i> (Risso, 1827)	N	frequent		hook & line	Ali & Saad, 2003
<i>Squalus megalops</i> (Macleay, 1881)	REX	Single record 15/6/2002		hook & line	Ali, 2003
<b>Squatiniiformes</b>					
<b>Squatinaidae</b>					
<i>Squatina aculeata</i> Cuvier, 1829	N	rare		trawl	Ali, 2003
<i>Squatina oculata</i> Bonaparte, 1840	N	rare		trawl	Ali & Saad, 2003
<i>Squatina squatina</i> (Linnaeus, 1758)	N	rare		trawl	Gruvel, 1931
<b>Torpediniiformes</b>					
<b>Torpedinidae</b>					
<i>Torpedo marmorata</i> Risso, 1810	N	rare		trawl	Gruvel, 1931
<i>Tetronarce nobiliana</i> (Bonaparte, 1835)	N	rare		trawl	Ali, 2003
<i>Torpedo sinuspersici</i> Olfers, 1831	AL	casual		trawl	Ali, 2003
<b>Rhinopristiformes</b>					
<b>Rhinobatidae</b>					
<i>Rhinobatos rhinobatos</i> (Linnaeus, 1758)	N	frequent		trawl	Ali & Saad, 2003
<b>Glaucostegidae</b>					
<i>Glaucostegus cemiculus</i> (Geoffroy Saint-Hilaire, 1817)	N	frequent		trawl	Ali & Saad, 2003

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Rajiformes</b>					
<b>Rajidae</b>					
<i>Dipturus oxyrinchus</i> (Linnaeus, 1758)	N	frequent		trawl	Ali & Saad, 2003
<i>Raja clavata</i> Linnaeus, 1758	N	common		trawl	Gruvel, 1931
<i>Raja miraletus</i> Linnaeus, 1758	N	rare		trawl	Gruvel, 1931
<i>Raja radula</i> Delaroche, 1809	N	rare		trawl	Ali, 2003
<b>Myliobatiformes</b>					
<b>Dasyatidae</b>					
<i>Dasyatis pastinaca</i> (Linnaeus, 1758)	N	frequent		hook & line	Gruvel, 1931
<i>Dasyatis</i> sp. cf. <i>tortonesei</i> Capapé, 1975	N	rare		hook & line	Ali & Saad, 2003
<i>Himantura uarnak</i> (Gmelin 1789)	AL	Rare		beach sweeping	Ali <i>et al.</i> , 2010
<i>Pteroplatytrygon violacea</i> (Bonaparte, 1832)	N	frequent		hook & line	Ali, 2003
<i>Taeniurops grabata</i> (Geoffroy Saint-Hilaire 1817)	N	frequent		beach sweeping	Ali <i>et al.</i> , 2013b
<b>Gymnuridae</b>					
<i>Gymnura altavela</i> (Linnaeus, 1758)	N	frequent		beach sweeping	Ali & Saad, 2003
<b>Myliobatidae</b>					
<i>Aetomylaeus bovinus</i> (Geoffroy Saint- Hilaire, 1817)	N	rare		hook & line	Ali & Saad, 2003
<b>Rhinopteridae</b>					
<i>Rhinoptera marginata</i> (Geof. St. Hilaire, 1817)	N	rare		hook & line	Ali, 2003
<b>Mobulidae</b>					
<i>Mobula mobular</i> (Bonnaterre, 1788)	N	rare		hook & line	Ali & Saad, 2003
<b>Holocephali</b>					
<b>Chimaeriformes</b>					
<b>Chimaeridae</b>					
<i>Chimaera monstrosa</i> Linnaeus, 1758	N	frequent Casual		trawl	Gruvel, 1931
<i>Hydrolagus mirabilis</i> (Collett, 1904)	REX	December, 2011		trawl	Hassan, 2013
<b>Actinopterygii</b>					
<b>Anguilliformes</b>					
<b>Heterenchelyidae</b>					
<i>Panturichthys fowleri</i> (Ben-Tuvia, 1953)	N	rare		trawl	Sbaihi, 1994
<b>Muraenidae</b>					
<i>Enchelycore anatina</i> (Lowe, 1838)	REX	frequent		hook & line	Saad, 2005
<i>Gymnothorax unicolor</i> (Delaroche, 1809)	N	rare		hook & line	Saad, 2005
<i>Muraena helena</i> Linnaeus, 1758	N	frequent		hook & line	Saad, 2005

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Nettastomatidae</b>					
<i>Nettastoma melanurum</i> Rafinesque, 1810	N	frequent		trawl	This study
<b>Congridae</b>					
<i>Ariosoma balearicum</i> (Delaroche, 1809)	N	rare		trawl	Saad, 2005
<i>Conger conger</i> (Linnaeus, 1758)	N	frequent		trawl	Gruvel, 1931
<b>Anguillidae</b>					
<i>Anguilla anguilla</i> (Linnaeus, 1758)	N	common	yes	trawl	Gruvel, 1931
<b>Clupeiformes</b>					
<b>Clupeidae</b>					
<i>Alosa fallax</i> (Lacepède, 1803)	N	common	yes	purse seine	Gruvel, 1931
<i>Herklotsichthys punctatus</i> (Rüppell, 1837)	AL	Frequent		purse seine	Saad, 2005
<i>Sardina pilchardus</i> (Walbaum, 1792)	N	common	yes	purse seine	Saad, 2005
<i>Sardinella aurita</i> Valenciennes, 1847	N	common	yes	purse seine	Gruvel, 1931
<i>Sardinella maderensis</i> (Lowe, 1838)	N	common	yes	purse seine	Gruvel, 1931
<i>Sprattus sprattus</i> (Linnaeus, 1758)	N	common	yes	purse seine	Gruvel, 1931
<b>Dussumieriidae</b>					
<i>Dussumieria elopsoides</i> Bleeker, 1849	AL	common		purse seine	Saad, 2002 Saad, 2002
<i>Etrumeus golanii</i> DiBattista, Randall & Bowen, 2012	AL	frequent		purse seine	Reported as <i>Etrumeus sadina</i> (Mitchill, 1814)
<b>Engraulidae</b>					
<i>Engraulis encrasicolus</i> (Linnaeus, 1758)	N	common	yes	purse seine	Gruvel, 1931
<b>Siluriformes</b>					
<b>Plotosidae</b>					
<i>Plotosus lineatus</i> (Thunberg, 1787)	AL	Frequent		fixed gillnet	Ali <i>et al.</i> , 2015c
<b>Osmeriformes</b>					
<b>Argentinidae</b>					
<i>Argentina sphyraena</i> Linnaeus, 1758	N	common	yes	trawl	Sbaihi, 1994
<i>Glossanodon leioglossus</i> (Valenciennes, 1848)	N	common	yes	trawl	Sbaihi, 1994
<b>Stomiiformes</b>					
<b>Stomiidae</b>					
<i>Stomias boa boa</i> (Risso, 1810)	N	frequent		trawl	This study
<b>Aulopiformes</b>					
<b>Aulopidae</b>					
<i>Aulopus filamentosus</i> (Bloch, 1792)	N	frequent		trawl	Saad, 2005

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Chlorophthalmidae</b>					
<i>Chlorophthalmus agassizi</i> Bonaparte, 1840	N	common	yes	trawl	Ghanem <i>et al.</i> , 2012
<b>Paralepididae</b>					
<i>Sudis hyalina</i> Rafinesque, 1810	N	frequent		trawl	Ali <i>et al.</i> , 2014
<b>Synodontidae</b>					
<i>Saurida lessepsianus</i> Russell, Golani & Tikochinski, 2015	AL	FR	yes	trawl	Anon, 1976 reported as <i>S. undosquamis</i>
<i>Synodus saurus</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<b>Myctophiformes</b>					
<b>Myctophidae</b>					
<i>Myctophum punctatum</i> Rafinesque, 1810	N	rare		trawl	Saad, 2005
<b>Zeiformes</b>					
<b>Zeidae</b>					
<i>Zeus faber</i> Linnaeus, 1758	N	rare		fixed gillnet	Gruvel, 1931
<b>Gadiformes</b>					
<b>Macrouridae</b>					
<i>Coelorinchus caelorhincus</i> (Risso, 1810)	N	frequent		trawl	Ali <i>et al.</i> , 2016b
<i>Hymenocephalus italicus</i> Giglioli, 1884	N	frequent		trawl	This study
<b>Gadidae</b>					
<i>Gadiculus argenteus</i> Guichenot, 1850	N	frequent		hook & line	Sbahi, 1994
<i>Micromesistius poutassou</i> (Risso, 1827)	N	rare		hook & line	Sbahi, 1994
<b>Phycidae</b>					
<i>Phycis phycis</i> (Linnaeus, 1766)	N	frequent		trawl	Sbahi, 1994
<b>Merlucciidae</b>					
<i>Merluccius merluccius</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<b>Beryciformes</b>					
<b>Holocentridae</b>					
<i>Sargocentron rubrum</i> (Forsskål, 1775)	AL	common	yes	fixed gillnet	Anon, 1976
<b>Trachichthyidae</b>					
<i>Hoplostethus mediterraneus</i> Cuvier, 1829	N	frequent		trawl	Gruvel, 1931
<b>Ophidiiformes</b>					
<b>Ophidiidae</b>					
<i>Ophidion barbatum</i> Linnaeus, 1758	N	rare		trawl	Sbahi, 1994
<b>Scombriformes</b>					
<b>Trichiuridae</b>					
<i>Trichiurus lepturus</i> Linnaeus, 1758	N	frequent		trawl	Gruvel, 1931

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Scombridae</b>					
<i>Auxis rochei rochei</i> (Risso, 1810)	N	Common	yes	trolling	Gruvel, 1931
<i>Euthynnus alletteratus</i> (Rafinesque, 1810)	N	Common	yes	trolling	Gruvel, 1931
<i>Katsuwonus pelamis</i> (Linnaeus, 1758)	N	Common	yes	trolling	Sbaihi, 1994
<i>Orcynopsis unicolor</i> (Geoffroy Saint- Hilaire, 1817)	N	frequent		hook & line	Saad, 2005
<i>Sarda sarda</i> (Bloch, 1793)	N	common	yes	trolling	Sbaihi, 1994
<i>Scomber colias</i> Gmelin, 1789	N	common	yes	trolling	Gruvel, 1931 reported as <i>Scomber japonicus</i> Houttuyn, 1782
<i>Scomber scombrus</i> Linnaeus, 1758	N	Common	yes	trolling	Gruvel, 1931
<i>Scomberomorus commerson</i> (Lacepède, 1800)	AL	Common	yes	trolling	Anon, 1976
<b>Syngnathiformes</b>					
<b>Fistulariidae</b>					
<i>Fistularia commersonii</i> Rüppell, 1838	AL	common		fixed gillnet	Saad, 2002
<b>Centriscidae</b>					
<i>Macroramphosus scolopax</i> (Linnaeus, 1758)	N	frequent		trawl	Gruvel, 1931
<b>Syngnathidae</b>					
<i>Hippocampus guttulatus</i> Cuvier, 1829	N	rare		fixed gillnet	Saad, 2005
<i>Hippocampus hippocampus</i> (Linnaeus, 1758)	N	rare		trawl	Sbaihi, 1994
<i>Syngnathus abaster</i> Risso, 1827	N	rare		rod	Saad, 2005
<i>Syngnathus acus</i> Linnaeus, 1758	N	frequent		beach sweeping	Saad, 2005
<b>Gobiiformes</b>					
<b>Gobiidae</b>					
<i>Aphia minuta</i> (Risso, 1810)	N	rare		beach seine	Saad, 2005
<i>Chromogobius quadrivittatus</i> (Steindachner, 1863)	N	rare		trawl	Saad, 2005
<i>Deltentosteus quadrimaculatus</i> (Valenciennes, 1837)	N	rare		trawl	Saad, 2005
<i>Gobius cobitis</i> Pallas, 1811	N	rare		speargun	Gruvel, 1931
<i>Gobius cruentatus</i> Gmelin, 1789	N	rare		trawl	Saad, 2005
<i>Gobius niger</i> Linnaeus, 1758	N	rare		beach sweeping	Gruvel, 1931
<i>Gobius paganellus</i> Linnaeus, 1758	N	rare		beach sweeping	Saad, 2005
<i>Lesueurigobius friesii</i> (Malm, 1874)	N	rare		fixed gillnet	Saad, 2005
<i>Oxyurichthys petersii</i> (Valenciennes, 1837)	AL	rare		fixed gillnet	Saad & Sbaihi, 1992 (in Saad, 2005)
<i>Silhouettea aegyptia</i> (Chabanaud, 1933)	AL	rare		trawl	Sbaihi, 1994

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Zebrus zebrus</i> (Risso, 1827)	N	rare		fixed gillnet	Saad, 2005
<b>Istiophoriformes</b>					
<b>Xiphiidae</b>					
<i>Xiphias gladius</i> Linnaeus, 1758	N	common	yes	hook & line	Gruvel, 1931
<b>Pleuronectiformes</b>					
<b>Citharidae</b>					
<i>Citharus linguatula</i> (Linnaeus, 1758)	N	frequent		trawl	Sbahi, 1994
<b>Scophthalmidae</b>					
<i>Lepidorhombus boscii</i> (Risso, 1810)	N	frequent		beach sweeping	Saad, 2005
<i>Lepidorhombus whiffiagonis</i> (Walbaum, 1792)	N	frequent		fixed gillnet	Saad, 2005
<i>Scophthalmus rhombus</i> (Linnaeus, 1758)	N	rare		fixed gillnet	Sbahi, 1994
<b>Bothidae</b>					
<i>Arnoglossus kessleri</i> Schmidt, 1915	N	rare		trawl	Saad, 2005
<i>Arnoglossus laterna</i> (Walbaum, 1792)	N	frequent		trawl	Saad, 2005
<i>Bothus podas</i> (Delaroche, 1809)	N	rare		trawl	Sbahi, 1994
<b>Soleidae</b>					
<i>Dicologlossa cuneata</i> (Moreau, 1881)	N	rare		trawl	Ali <i>et al.</i> , 2015a
<i>Microchirus ocellatus</i> (Linnaeus, 1758)	N	rare		trawl	Saad, 2005
<i>Pegusa impar</i> (Bennett, 1831)	N	Single record		trawl	Ali <i>et al.</i> , 2018
<i>Pegusa lascaris</i> (Risso, 1810)	N	common	yes	trawl	Sbahi, 1994
<i>Solea solea</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<i>Synapturichthys kleinii</i> (Risso, 1827)	N	frequent		trawl	Ali <i>et al.</i> , 2015b
<b>Cynoglossidae</b>					
<i>Cynoglossus sinusarabici</i> (Chabanaud, 1931)	AL	rare		bottom cage	Saad & Sbahi, 1992 (in Saad, 2005)
<i>Symphurus nigrescens</i> Rafinesque, 1810	N	rare		speargun	Saad, 2005
<b>Atheriniformes</b>					
<b>Atherinidae</b>					
<i>Atherina boyeri</i> Risso, 1810	N	rare		trawl	Saad, 2005 Saad <i>et al.</i> , 2002
<i>Atherinomorus forskalii</i> (Rüppell, 1838)	AL	rare		trawl	Reported as <i>Atherinomorus pinguis</i> (Lacepède, 1803)

(continued)



Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Cyprinodontiformes</b>					
<b>Cyprinodontidae</b>					
<i>Aphanius dispar dispar</i> (Rüppell, 1829)	N	rare		trawl	Saad, 2005
<b>Beloniformes</b>					
<b>Belonidae</b>					
<i>Belone belone</i> (Linnaeus, 1760)	N	common	yes	hook & line	Gruvel, 1931
<i>Tylosurus choram</i> (Rüppell, 1837)	AL	rare		floating net	Saad <i>et al.</i> , 2002
<b>Hemiramphidae</b>					
<i>Hemiramphus far</i> (Forsskål, 1775)	AL	common	yes	purse seine	Gruvel, 1931
<i>Hyporamphus affinis</i> (Günther, 1866)	AL	rare		fixed gillnet	Saad, 2005
<b>Exocoetidae</b>					
<i>Cheilopogon heterurus</i> (Rafinesque, 1810)	N	common	yes	fixed gillnet	Saad, 2005
<i>Hirundichthys rondeletii</i> (Valenciennes, 1847)	N	frequent		floating net	Sbaihi, 1994
<i>Parexocoetus mento</i> (Valenciennes, 1847)	AL	frequent		floating net	Saad <i>et al.</i> , 2002
<b>Mugiliformes</b>					
<b>Mugilidae</b>					
<i>Chelon auratus</i> (Risso, 1810)	N	common	yes	trammel	Gruvel, 1931 as <i>Liza aurata</i> (Risso, 1810)
<i>Chelon labrosus</i> (Risso, 1827)	N	common	yes	trammel	Gruvel, 1931
<i>Chelon ramada</i> (Risso, 1827)	N	common	yes	trammel	Saad, 2005 as <i>Liza ramada</i> (Risso, 1810)]
<i>Chelon saliens</i> (Risso, 1810)	N	common	yes	trammel	Gruvel, 1931
<i>Liza carinata</i> (Valenciennes, 1836)	AL	frequent		trammel	Saad, 1995 (in Saad, 2005)
<i>Mugil cephalus</i> Linnaeus, 1758	N	common	yes	trammel	Saad, 2005
<i>Oedalechilus labeo</i> (Cuvier, 1829)	N	common	yes	trammel	Gruvel, 1931
<b>Gobiesociformes</b>					
<b>Gobiesocidae</b>					
<i>Lepadogaster candolii</i> Risso 1810	N	rare		landing net	Sbaihi, 1994
<i>Lepadogaster lepadogaster</i> (Bonnaterre, 1788)	N	rare		trawl	Sbaihi, 1994
<b>Blenniiformes</b>					
<b>Tripterygiidae</b>					
<i>Tripterygion delaisi</i> Cadenat & Blanche, 1970	N	rare		landing net	Sbaihi, 1994
<i>Tripterygion melanurum</i> Guichenot, 1850	N	rare		trawl	Sbaihi, 1994
<i>Tripterygion tripteronotum</i> (Risso, 1810)	N	rare		fixed gillnet	Saad, 2005

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<b>Clinidae</b>					
<i>Clinitrachus argentatus</i> (Risso, 1810)	N	rare		landing net	Sbahihi, 1994
<b>Blenniidae</b>					
<i>Aidablennius sphyinx</i> (Valenciennes, 1836)	N	rare		trawl	Hallome <i>et al.</i> , 2014
<i>Blennius ocellaris</i> Linnaeus, 1758	N	rare		fixed gillnet	Saad, 2005
<i>Coryphoblennius galerita</i> (Linnaeus, 1758)	N	rare		trawl	Saad, 2005
<i>Lipophrys trigloides</i> (Valenciennes, 1836)	N	rare		fixed gillnet	Saad, 2005
<i>Microlipophrys canevas</i> (Vinciguerra, 1880)	N	rare		fixed gillnet	Saad, 2005
<i>Microlipophrys nigriceps</i> (Vinciguerra, 1883)	N	rare		fixed gillnet	Saad, 2005
<i>Parablennius incognitus</i> (Bath, 1968)	N	rare		fixed gillnet	Saad, 2005
<i>Parablennius rouxi</i> (Cocco, 1833)	N	rare		fixed gillnet	Saad, 2005
<i>Parablennius tentacularis</i> (Brunnich, 1768)	N	rare		fixed gillnet	Saad, 2005
<i>Paralennius gattorugine</i> Linnaeus, 1758)	N	rare		fixed gillnet	Saad, 2005
<i>Paralennius sanguinolentus</i> (Pallas, 1814)	N			cast net	Saad, 2005
<i>Petroscirtes ancylodon</i> Rüppell, 1835	AL	frequent		trawl	Saad, 2002
<i>Salaria pavo</i> (Risso, 1810)	N	frequent		landing net	Gruvel, 1931
<i>Scartella cristata</i> (Linnaeus, 1758)	N	frequent		landing net	Sbahihi, 1994
<i>Brama brama</i> (Bonnaterre, 1788)	N	frequent		hook & line	Sbahihi, 1994
<b>Lophiiformes</b>					
<b>Lophiidae</b>					
<i>Lophius budegassa</i> Spinola, 1807	N	frequent		trawl	Saad, 2005
<i>Lophius piscatorius</i> Linnaeus, 1758	N	frequent		trawl	Saad, 2005
<b>Tetraodontiformes</b>					
<b>Molidae</b>					
<i>Mola mola</i> (Linnaeus, 1758)	N	rare		fixed gillnet	Saad, 2005
<b>Tetraodontidae</b>					
<i>Lagocephalus sceleratus</i> (Gmelin, 1789)	AL	frequent		fixed gillnet	Khalaf <i>et al.</i> , 2014
<i>Lagocephalus guentheri</i> (Miranda Ribeiro, 1915)	AL	frequent		hook & line	Anon, 1976 as <i>L. spadiceus</i>
<i>Lagocephalus suezensis</i> Clark & Gohar, 1953	AL	frequent		trawl	Saad <i>et al.</i> , 2002
<i>Sphoeroides pachygaster</i> (Müller & Troschel, 1848)	REX	frequent		trawl	Rahman <i>et al.</i> , 2014
<i>Torquigener flavimaculosus</i> Hardy & Randall, 1983	AL	frequent		speargun	Sabour <i>et al.</i> , 2014
<b>Ostraciidae</b>					
<i>Tetrosomus gibbosus</i> (Linnaeus, 1758)	AL	rare		hook & line	Saad, 2002
<b>Monacanthidae</b>					

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Stephanolepis diaspros</i> Fraser-Brunner, 1940	AL	common	yes	trammel	Gruvel, 1929
<b>Balistidae</b>					
<i>Balistes capriscus</i> Gmelin, 1789	N	common	yes	trammel	Gruvel, 1931
<b>Scorpaeniformes</b>					
<b>Sebastidae</b>					
<i>Helicolenus dactylopterus</i> (Delaroche, 1809)	N	frequent		hook & line	Saad, 2005
<b>Scorpaenidae</b>					
<i>Pterois miles</i> (Bennet, 1828)	AL	frequent		trawl	Ali <i>et al.</i> , 2016a
<i>Scorpaena elongata</i> Cadenat, 1943	N	common	yes	fixed gillnet	Saad, 2005
<i>Scorpaena maderensis</i> Valenciennes, 1833	N	frequent		fixed gillnet	Saad, 2005
<i>Scorpaena notata</i> Rafinesque, 1810	N	frequent		hook & line	Saad, 2005
<i>Scorpaena porcus</i> Linnaeus, 1758	N	frequent		trawl	Sbaihi, 1994
<i>Scorpaena scrofa</i> Linnaeus, 1758	N	common	yes	fixed gillnet	Gruvel, 1931
<b>Dactylopteridae</b>					
<i>Dactylopterus volitans</i> (Linnaeus, 1758)	N	frequent		hook & line	Gruvel, 1931
<b>Triglidae</b>					
<i>Chelidonichthys cuculus</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<i>Chelidonichthys lastoviza</i> (Bonnaterre, 1788)	N	common	yes	trawl	Sbaihi, 1994
<i>Chelidonichthys lucerna</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<i>Eutrigla gurnardus</i> (Linnaeus, 1758)	N	frequent		trawl	Saad, 2005
<i>Lepidotrigla cavillone</i> (Lacepede, 1801)	N	Common	yes	trawl	Anon, 1976
<i>Lepidotrigla dieuzeidei</i> Blanc & Hureau, 1973	N	frequent		fixed gillnet	Saad, 2005
<i>Trigla lyra</i> Linnaeus, 1758	N	common	yes	fixed gillnet	Gruvel, 1931
<b>Peristediidae</b>					
<i>Peristedion cataphractum</i> (Linnaeus, 1758)	N	frequent		trawl	Saad, 2005
<b>Platycephalidae</b>					
<i>Platycephalus indicus</i> (Linnaeus, 1758)	AL	rare		trawl	Saad <i>et al.</i> , 2002
<b>Perciformes</b>					
<b>Moronidae</b>					
<i>Dicentrarchus labrax</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Sbaihi, 1994
<i>Dicentrarchus punctatus</i> (Bloch, 1792)	N	common	yes	trolling	Sbaihi, 1994
<b>Serranidae</b>					
<i>Anthias anthias</i> (Linnaeus, 1758)	N	frequent		fixed net	Sbaihi, 1994
<i>Epinephelus aeneus</i> (Geoffroy Saint-Hilaire, 1817)	N	common	yes	hook & line	Sbaihi, 1994
<i>Epinephelus costae</i> (Steindachner, 1878)	N	common	yes	hook & line	Gruvel, 1931

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Epinephelus fasciatus</i> (Forsskål, 1775)	AL	frequent		hook & line	Foulquie & Dupuy dela Grandrive, 2003
<i>Epinephelus marginatus</i> (Lowe, 1834)	N	common	yes	hook & line	Gruvel, 1931
<i>Hyporthodus haifensis</i> (Ben-Tuvia, 1953)	N	common	yes	hook & line	Gruvel, 1931
<i>Mycteroperca rubra</i> (Bloch, 1793)	N	frequent		fixed gillnet	Saad, 2005
<i>Serranus cabrilla</i> (Linnaeus, 1758)	N	common	yes	trawl	Sbahi, 1994
<i>Serranus hepatus</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<i>Serranus scriba</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Gruvel, 1931
<b>Callanthiidae</b>					
<i>Callanthias ruber</i> (Rafinesque, 1810)	N	frequent		fixed gillnet	Saad, 2005
<b>Terapontidae</b>					
<i>Pelates quadrilineatus</i> (Bloch, 1790)	AL	frequent		fixed gillnet	Saad, 2005
<i>Terapon puta</i> (Cuvier, 1829)	AL	rare		fixed gillnet	Saad, 2005
<b>Apogonidae</b>					
<i>Apogon imberbis</i> (Linnaeus, 1758)	N	frequent		trawl	Sbahi, 1994
<i>Apogonichthyoides pharaonis</i> (Bellotti, 1874)	AL	rare		fixed gillnet	Sbahi & Saad, 1992 (in Saad, 2005)
<i>Cheilodipterus novemstriatus</i> (Rüppell, 1838)	AL	frequent		landing net	Ali <i>et al.</i> , in press
<i>Epigonus constanciae</i> (Giglioli, 1880)	N	frequent		trawl	Sbahi, 1994
<i>Jaydia smithi</i> Kotthaus, 1970	AL	Single record		fixed gillnet	Alshawy <i>et al.</i> , 2017
<b>Pomatomidae</b>					
<i>Pomatomus saltatrix</i> (Linnaeus, 1766)	N	common	yes	trammel	Gruvel, 1931
<b>Echeneidae</b>					
<i>Echeneis naucrates</i> Linnaeus, 1758	N	rare		trawl	Gruvel 1931
<b>Carangidae</b>					
<i>Alectis alexandrina</i> (Geoffroy Saint-Hilaire, 1817)	N	frequent		trawl	Gruvel, 1931
<i>Alepes djedaba</i> (Forsskål, 1775)	AL	frequent		fixed gillnet	Bauchot, 1987
<i>Caranx crysos</i> (Mitchill, 1815)	N	common	yes	beach sweeping	Sbahi, 1994
<i>Caranx rhonchus</i> Geoffroy saint-Hilaire, 1817	N	common	yes	trawl	Anon, 1976
<i>Lichia amia</i> (Linnaeus, 1758)	N	common	yes	beach sweeping	Gruvel, 1931
<i>Pseudocaranx dentex</i> (Bloch & Schneider, 1801)	N	frequen		fixed gillnet	Saad, 2005
<i>Seriola dumerili</i> (Risso, 1810)	N	common	yes	trolling	Gruvel, 1931
<i>Seriola fasciata</i> (Bloch, 1793)	N	frequen		purse seining	Jawad <i>et al.</i> , 2015
<i>Trachinotus ovatus</i> (Linnaeus, 1758)	N	common	yes	beach sweeping	Gruvel, 1931

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Trachurus mediterraneus</i> (Steindachner, 1868)	N	common	yes	trawl	Sbaihi, 1994
<i>Trachurus picturatus</i> (Bowdich, 1825)	N	frequent		trawl	Saad, 2005
<i>Trachurus trachurus</i> (Linnaeus, 1758)	N	common	yes	trawl	Anon, 1976
<b>Coryphaenidae</b>					
<i>Coryphaena hippurus</i> Linnaeus, 1758	N	common	yes	trolling	Gruvel, 1931
<b>Leiognathidae</b>					
<i>Equulites klunzingeri</i> (Steindachner, 1898)	AL	frequent		beach sweeping	Gruvel, 1931
<i>Leiognathus berbis</i> (Valenciennes, 1835)	AL	frequent		fixed gillnet	Alshawy <i>et al.</i> , 2016
<b>Lobotidae</b>					
<i>Lobotes surinamensis</i> (Bloch, 1790)	N	frequent		fixed gillnet	Gruvel, 1931
<b>Haemulidae</b>					
<i>Pomadasys incisus</i> (Bowdich, 1825)	N	common	yes	trammel	Sbaihi, 1994
<i>Pomadasys stridens</i> (Forsskål, 1775)	AL	frequent		fixed gillnet	Saad, 2005
<b>Sparidae</b>					
<i>Boops boops</i> (Linnaeus, 1758)	N	frequent		trammel	Gruvel, 1931
<i>Centracanthus cirrus</i> Rafinesque, 1810	N	common	yes	trammel	Sbaihi, 1994
<i>Crenidens crenidens</i> (Forsskal, 1775)	AL	frequent		hook & line	Saad <i>et al.</i> , 2002
<i>Dentex dentex</i> (Linnaeus, 1758)	N	Common	yes	trawl	Anon, 1976
<i>Dentex gibbosus</i> (Rafinesque, 1810)	N	Common	yes	trawl	Anon, 1976
<i>Dentex macrophthalmus</i> (Bloch, 1791)	N	Common	yes	hook & line	Gruvel, 1931
<i>Dentex maroccanus</i> Valenciennes, 1830	N	Common	yes	trawl	Gruvel, 1931
<i>Diplodus annularis</i> (Linnaeus, 1758)	N	Common	yes	hook & line	Gruvel, 1931
<i>Diplodus cervinus</i> (Lowe, 1838)	N	Common	yes	beach sweeping	Gruvel, 1931
<i>Diplodus puntazzo</i> (Walbaum, 1792)	N	Common	yes	fixed gillnet	Sbaihi, 1994
<i>Diplodus sargus</i> (Linnaeus, 1758)	N	Common	yes	fixed gillnet	Gruvel, 1931
<i>Diplodus vulgaris</i> (Geoffroy Saint-Hilaire, 1817)	N	Common	yes	fixed gillnet	Gruvel, 1931
<i>Evynnis ehrenbergii</i> (Valenciennes, 1830)	N	frequent		fixed gillnet	Saad, 2005
<i>Lithognathus mormyrus</i> (Linnaeus, 1758)	N	Common	yes	beach sweeping	Gruvel, 1931
<i>Oblada melanura</i> (Linnaeus, 1758)	N	Common	yes	beach sweeping	Gruvel, 1931
<i>Pagellus acarne</i> (Risso, 1827)	N	Common	yes	fixed gillnet	Gruvel, 1931
<i>Pagellus bellottii</i> Steindachner, 1882	N	Common	yes	trawl	Sbaihi, 1994
<i>Pagellus erythrinus</i> (Linnaeus, 1758)	N	Common	yes	trawl	Gruvel, 1931
<i>Pagrus auriga</i> Valenciennes, 1843	N	Common	yes	fixed gillnet	Gruvel, 1931
<i>Pagrus caeruleostictus</i> (Valenciennes, 1830)	N	Common	yes	hook & line	Gruvel, 1931
<i>Pagrus pagrus</i> (Linnaeus, 1758)	N	common	yes	trawl	Gruvel, 1931

(continued)

**Table 2** continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Rhabdosargus haffara</i> (Forsskål, 1775)	AL	frequent		fixed gillnet	Saad, 2005
<i>Sarpa salpa</i> (Linnaeus, 1758)	N	frequent		fixed gillnet	Gruvel, 1931
<i>Sparus aurata</i> Linnaeus, 1758	N	Common	yes	fixed gillnet	Gruvel, 1931
<i>Pagrus caeruleostictus</i> (Valenciennes, 1830)	N	frequent		hook & line	Saad, 2005
<i>Spicara maena</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Sbaihi, 1994
<i>Spicara smaris</i> (Linnaeus, 1758)	N	common	yes	trawl	Gruvel, 1931
<i>Spondyliosoma cantharus</i> (Linnaeus, 1758)	N	Common	yes	trawl	Gruvel, 1931
<b>Nemipteridae</b>					
<i>Nemipterus randalli</i> Russell, 1986	AL	frequent		fixed gillnet	Ali <i>et al.</i> , 2013a
<b>Mullidae</b>					
<i>Mullus barbatus barbatus</i> Linnaeus, 1758	N	Common	yes	trammel	Gruvel, 1931
<i>Mullus surmuletus</i> Linnaeus, 1758	N	Common	yes	bottom cage	Anon, 1976
<i>Parupeneus forsskali</i> (Fourmanoir & Guèzè, 1976)	AL	common		trammel	Ali <i>et al.</i> , 2016c.
<i>Upeneus moluccensis</i> (Bleeker, 1855)	AL	Common	yes	trammel	Gruvel, 1931
<i>Upeneus pori</i> Ben-Tuvia & Golani, 1989	AL	frequent		trammel	Sbaihi & Saad, 1992 (in Saad, 2005)
<b>Pempheridae</b>					
<i>Pempheris rhomboidea</i> Kossmann & Räuber, 1877	AL	common	yes	speargun	Sbaihi & Saad, 1992 (in Saad, 2005) Reported as <i>Pempheris vanicolensis</i> Cuvier, 1831
<b>Chaetodontidae</b>					
<i>Chaetodon larvatus</i> Cuvier, 1831	AL	single record		speargun	Ali <i>et al.</i> , 2017c
<i>Champsodon nudivittis</i> (Ogilby, 1895)	AL	rare		trawl	Ali <i>et al.</i> , 2017d
<b>Pomacanthidae</b>					
<i>Pomacanthus imperator</i> (Bloch, 1787)	AL	single record		speargun	Capape <i>et al.</i> , 2018
<i>Chromis chromis</i> (Linnaeus, 1758)	N	frequent		fixed gillnet	Sbaihi, 1994
<b>Cepolidae</b>					
<i>Cepola macrophthalmma</i> (Linnaeus, 1758)	N	frequent		trawl	Sbaihi, 1994
<b>Labridae</b>					
<i>Acantholabrus palloni</i> (Risso, 1810)	N	frequent		fixed gillnet	Saad, 2005
<i>Coris julis</i> (Linnaeus, 1758)	N	rare		trammel	Gruvel, 1931
<i>Labrus merula</i> Linnaeus, 1758	N	frequent		fixed gillnet	Foulquie & Dupuy de la Grandrive, 2003

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Labrus mixtus</i> Linnaeus, 1758	N	frequent		fixed gillnet	Foulquie & Dupuy de la Grandrive, 2003
<i>Pteragogus trispilus</i> Randall, 2013	AL	rare		fixed gillnet	Soliman <i>et al.</i> , 2014 as <i>P. pelycus</i>
<i>Symphodus cinereus</i> (Bonnaterre, 1788)	N	frequent		fixed gillnet	Saad, 2005
<i>Symphodus mediterraneus</i> (Linnaeus, 1758)	N	rare		fixed gillnet	Saad, 2005
<i>Symphodus roissali</i> (Risso, 1810)	N	rare		fixed gillnet	Saad, 2005
<i>Symphodus tinca</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Sbaihi, 1994
<i>Thalassoma pavo</i> (Linnaeus, 1758)	N	rare		fixed gillnet	Sbaihi, 1994
<i>Xyrichtys novacula</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Anon, 1976
<b>Scaridae</b>					
<i>Scarus ghobban</i> Forsskål, 1775	AL	frequent		bottom cage	This study
<i>Sparisoma cretense</i> (Linnaeus 1758)	N	common	yes	trammel	Gruvel, 1931
<i>Argyrosomus regius</i> (Asso, 1801)	N	frequent		trawl	Saad, 2005
<b>Sciaenidae</b>					
<i>Sciaena umbra</i> Linnaeus, 1758	N	common	yes	fixed gillnet	Gruvel, 1931
<i>Umbrina cirrosa</i> (Linnaeus, 1758)	N	common	yes	fixed gillnet	Gruvel, 1931
<b>Trachinidae</b>					
<i>Echiichthys vipera</i> (Cuvier, 1829)	N	frequent		fixed gillnet	Saad, 2005
<i>Trachinus araneus</i> Cuvier, 1829	N	rare		fixed gillnet	Gruvel, 1931
<i>Trachinus draco</i> Linnaeus, 1758	N	rare		trawl	Gruvel, 1931
<i>Trachinus radiatus</i> Cuvier, 1829	N	rare		fixed gillnet	Saad, 2005
<b>Trichiuridae</b>					
<i>Lepidopus caudatus</i> (Euphrasen, 1788)	N	frequent		fixed gillnet	Saad, 2005
<b>Uranoscopidae</b>					
<i>Uranoscopus scaber</i> Linnaeus, 1758	N	frequent		trawl	Gruvel, 1931
<b>Callionymidae</b>					
<i>Callionymus filamentosus</i> Valenciennes, 1837	AL	frequent		trawl	Saad & Sbaihi, 1992 (in Saad, 2005)
<b>Siganidae</b>					
<i>Siganus javus</i> (Linnaeus, 1766)	AL	single record		trammel	Ibrahim <i>et al.</i> , 2010
<i>Siganus luridus</i> (Rüppel, 1829)	AL	common	yes	trammel	Gruvel, 1931
<i>Siganus rivulatus</i> Forsskål & Niebuhr, 1775	AL	common	yes	trammel	Gruvel, 1931
<b>Sphyraenidae</b>					
<i>Sphyraena chrysotaenia</i> Klunzinger, 1884	AL	frequent		bottom cage	Saad, 2002
<i>Sphyraena flavicauda</i> Rüppel, 1838	AL	frequent		fixed gillnet	Saad <i>et al.</i> , 2002

(continued)

Table 2 continued

Species	Status	Frequency	Commercial	Fishing gear	First record
<i>Sphyaena sphyaena</i> (Linnaeus, 1758)	N	Common	yes	trammel	Gruvel, 1931
<i>Sphyaena viridensis</i> Cuvier, 1829	N	Common	yes	trammel	Gruvel, 1931
<b>Caproidae</b>					
<i>Capros aper</i> (Linnaeus, 1758)	N	rare		trawl	Sbaihi, 1994

Table 3. Alien species in Syrian marine water, Category, native rang, first detection, first location area(s), and first records. Species in alphabetic order within each class. Est= established, sin= single record, cas= casual.

Species	category	Native range	First detection & first location area(s)	First record
<b>Elasmobranchii</b>				
<i>Himantura uarnak</i>	est	Indo-Pacific	South west Tartous; 34.88333333 N, 35.88333333 E; 24/4/2008	Ali <i>et al.</i> , 2010
<i>Torpedo sinuspersici</i>	cas	Indo-Pacific	Jableh; 19/5/2002	Ali, 2003
<b>Actinopterygii</b>				
<i>Alepes djedaba</i>	est	Indo-Pacific	Syrian Coast; 1987	Bauchot, 1987
<i>Apogonichthyoides pharaonis</i>	est	Indo-Pacific	Syrian Coast; 1991	Sbaihi & Saad, 1992 (in Saad, 2005)
<i>Atherinomorus forskalii</i>	est	Indo-Pacific	Syrian Coast; 1999	Saad <i>et al.</i> , 2002
<i>Callionymus filamentosus</i>	est	Indo-Pacific	Syrian Coast; 1991	Saad & Sbaihi, 1992 (in Saad, 2005)
<i>Chaetodon larvatus</i>	sin	Indian	Tartous 34.83333333 N; 35.85000000 E ; 27 /11/ 2016	Ali <i>et al.</i> , 2017c
<i>Champsodon nudivittis</i>	est	Indo-Pacific	Jableh 35.36666667 N; 35.86666667 E; 22 /5/ 2015	Ali <i>et al.</i> , 2017d
<i>Cheilodipterus novemstriatus</i>	est	Indian	35.48333334 N; 35.76666667 E; 2 / 10/ 2016	Ali <i>et al.</i> , in press
<i>Crenidens crenidens</i>	est	Indo-Pacific	Syrian Coast; 2001	Saad <i>et al.</i> , 2002
<i>Cynoglossus sinuarabici</i>	est	Indo-Pacific	Syrian Coast; 1991	Saad & Sbaihi, 1992 (in Saad, 2005)
<i>Dussumieria elopsoides</i>	est	Indo-Pacific	Syrian Coast; 2001	Saad, 2002
<i>Epinephelus fasciatus</i>	sin	Red Sea	Jebel Akra'a & Borg Islam; November 2002	Foulquie & Dupuy de la Grandrive, 2003
<i>Equulites klunzingeri</i>	est	Indo Pacific	Syrian Coast; 1930	Gruvel, 1931
<i>Etrumeus golanii</i>	est	Indian	Syrian coast, 2001	Saad, 2002 Reported as <i>Etrumeus sadina</i>
<i>Fistularia commersonii</i>	est	Indo-Pacific	Syrian Coast; 2001	Saad, 2002
<i>Hemiramphus far</i>	est	Indo-Pacific	Syrian Coast; 1929	Gruvel, 1931

(continued)



Table 3 continued

Species	category	Native range	First detection & first location area(s)	First record
<i>Herklotsichthys punctatus</i>	est	Indo-Pacific	Syrian Coast; 2004	Saad, 2005
<i>Hyporamphus affinis</i>	est	Indo-Pacific	Syrian Coast; 1996	Saad, 2005
<i>Jaydia smithi</i>	sin	Red Sea	Ibn Hani 35.58333333 N, 35.71666667 E; 2 May 2016	Alshawy <i>et al.</i> , 2017
<i>Lagocephalus sceleratus</i>	est	Indo-Pacific	Lattakia; 2012	Khalaf <i>et al.</i> , 2014
<i>Lagocephalus suezensis</i>	est	Red Sea	Lattakia; 2001	Saad <i>et al.</i> , 2002
<i>Lagocephalus guentheri</i>	est			Anon, 1976 as <i>L. spadiceus</i>
<i>Leiognathus berbis</i>	est	Indo-Pacific	Lattakia 35.98333333 N, 35.71666667 E; 5/5/2016	Alshawy <i>et al.</i> , 2016
<i>Liza carinata</i>	est	Indian	Syrian Coast; 1995	Saad, 1995
<i>Nemipterus randalli</i>	est	Indian	Rass Eben Hani 35.60000000 N; 35.66666667 E; 21 /11/2013	Ali <i>et al.</i> , 2013a
<i>Oxyurichthys petersii</i>	est	Red Sea	Syrian Coast; 1991	Saad & Sbaihi, 1992 (in Saad, 2005)
<i>Parexocoetus mento</i>	est	Indo-Pacific	Syrian Coast; 1997-1998	Saad <i>et al.</i> , 2002
<i>Parupeneus forsskali</i>	est	Indian	Northern Jableh 35.36666667 N; 35.83333333 E; 29/5/2015	Ali <i>et al.</i> , 2016c.
<i>Pelates quadrilineatus</i>	est	Indo-Pacific	Syrian Coast; 2004	Saad, 2005
<i>Pempheris rhomboidea</i>	est	Indo-Pacific	Syrian Coast; 1991	Sbaihi & Saad, 1992 (in Saad, 2005) reported as <i>Pempheris vanicolensis</i>
<i>Petroscirtes ancylodon</i>	est	Indian	Syrian Coast; 2002	Saad, 2002
<i>Platycephalus indicus</i>	est	Indo-Pacific	Syrian Coast; 2001	Saad <i>et al.</i> , 2002
<i>Plotosus lineatus</i>	est	Indo-Pacific	Tartous; 34.85000000 N; 35.86666667 E; 29 /10 /2014	Ali <i>et al.</i> , 2015c
<i>Pomacanthus imperator</i>	sin	Indo-Pacific	Jableh 35.31666667 N ; 35.91666667 E; 13/7/2017	Capape <i>et al.</i> , 2018
<i>Pomadasys stridens</i>	est	Indian	Syrian Coast; 2004	Saad, 2005
<i>Pteragogus trispilus</i>	est	Indian	Tartous 34.85000000 N; 35.80000000 E; 15 /2 /2014	Soliman <i>et al.</i> , 2014
<i>Pterois miles</i>	est	Indian	Lattakia to Jableh 35.40000000 N, 35.90000000 E & 35.31666667 N, 35.85000000 E; 28 /9/ 2015	Ali <i>et al.</i> , 2016a
<i>Rhabdosargus haffara</i>	est	Red Sea	Borg Islam; 2002	Saad, 2005
<i>Sargocentron rubrum</i>	est	Indo-Pacific	Syrian Coast; 1975	Anon, 1976
<i>Saurida lessepsianus</i>	est	Indo-Pacific	Syrian Coast; 1975	Anon, 1976 as <i>Saurida undosquamis</i>
<i>Scarus ghobban</i>	est	Indo-Pacific	Tartous; 1/10/2013	This study

(continued)

**Table 3** continued

Species	category	Native range	First detection & first location area(s)	First record
<i>Scomberomorus commerson</i>	est	Indo-Pacific	Syrian Coast; 1975	Anon, 1976
<i>Siganus luridus</i>	est	Indian	Syrian Coast; 1930	Gruvel, 1931
<i>Siganus rivulatus</i>	est	Red Sea	Syrian Coast; 1929	Gruvel, 1931
<i>Siganus javus</i>	sin	Indo-Pacific	Lattakia 35.51666667 N; 35.73333333 E; 10 /10/ 2009	Ibrahim <i>et al.</i> , 2010
<i>Silhouettea aegyptia</i>	est	Indian	Syrian Coast; 1992	Sbahi, 1994
<i>Sphyaena chrysotaenia</i>	est	Indo-Pacific	Syrian Coast; 1997	Saad, 2002
<i>Sphyaena flavicauda</i>	est	Indo-Pacific	Syrian Coast; 1999	Saad <i>et al.</i> , 2002
<i>Stephanolepis diaspros</i>	est	Indian	Syrian Coast; 1929	Gruvel, 1929
<i>Terapon puta</i>	est	Indo-Pacific	Syrian Coast; 2003	Saad, 2005
<i>Tetrosomus gibbosus</i>	est	Indo-Pacific	Syrian Coast; 2002	Saad, 2002
<i>Torquigener flavimaculosus</i>	est	Indian	Trawling from Rass Albassit-Tartous; 2009	Sabour <i>et al.</i> , 2014
<i>Tylosurus choram</i>	est	Indian	Syrian Coast; 2001	Saad <i>et al.</i> , 2002
<i>Upeneus moluccensis</i>	est	Indo-Pacific	Syrian Coast; 1930	Gruvel, 1931
<i>Upeneus pori</i>	est	Red Sea	Syrian Coast; 1991	Sbahi & Saad, 1992 (in Saad, 2005)

**Table 4.** List of fish species, reported by Foulquie & Dupuy de la Grandrive (2003), (N= native; AL= alien), that were disregarded in the present work because the records were not documented by photos or voucher material.

Species	Family	status	Native Range
<b>Elasmobranchii</b>			
<i>Alopias vulpinus</i> (Bonnaterre, 1788)	Alopiidae	N	
<i>Carcharhinus melanopterus</i> (Quoy & Gaimard, 1824)	Charcharhinidae	REX	Red Sea
<i>Mobula birostris</i> (Walbaum, 1792)		N	
<i>Prionace glauca</i> (Linnaeus, 1758)	Charcharhinidae	N	
<i>Scyliorhinus stellaris</i> (Linnaeus, 1758)	Scyliorhinidae	N	
<i>Squalus acanthias</i> Linnaeus, 1758	Squalidae	N	
<b>Actinopterygii</b>			
<i>Chelidonichthys obscurus</i> (Walbaum, 1792)	Triglidae	N	
<i>Cylichthys spilostylus</i> (Leis & Randall, 1982)	Diodontidae	AL	Red Sea
<i>Dalophis imberbis</i> (Delaroche, 1809)	Ophichthidae	N	
<i>Dagetichthys lusitanicus</i> (de Brito Capello, 1868)	Soleidae	N	
<i>Epinephelus caninus</i> (Valenciennes, 1843)	Serranidae	N	
<i>Epinephelus coioides</i> (Hamilton, 1822)	Serranidae	AL	Red Sea

(continued)

**Table 4** continued

<b>Species</b>	<b>Family</b>	<b>status</b>	<b>Native Range</b>
<i>Epinephelus malabaricus</i> (Bloch & Schneider, 1801)	Serrenidae	AL	Red Sea
<i>Labrus viridis</i> Linnaeus, 1758	Labridae	N	
<i>Naucrates ductor</i> (Linnaeus, 1758)	Carangidae	AL	Indian
<i>Muraenesox cinereus</i> (Forsskål, 1775)	Muraenesocidae	AL	Red Sea
<i>Polyprion americanus</i> (Bloch & Schneider, 1801)	Polyprionidae	N	
<i>Phycis blennoides</i> (Brünnich, 1768)	Phycidae	N	
<i>Rastrelliger kanagurta</i> (Cuvier, 1816)	Scombridae	AL	Red Sea
<i>Sargocentron hastatus</i> (Cuvier, 1829)	Holocentridae	AL	Red Sea
<i>Scophthalmus maximus</i> (Linnaeus, 1758)	Scophthalmidae	N	
<i>Syngnathus typhle</i> Linnaeus, 1758)	Syngnathidae	N	
<i>Thunnus thynnus</i> (Linnaeus, 1758)	Scombridae	N	
<i>Thunnus alalunga</i> (Bonnaterre, 1788)	Scombridae	N	