

S3 Table. List of non-gobiid taxa identified in the samples. List of non-gobiid taxa identified in the samples by integrative taxonomy (X: mean annual abundance in larvae m⁻², %FO: percentage of frequency of occurrence in each station). Taxa with no occurrence in the Red Sea according to an updated checklist of Red Sea fishes [1] and/or the Red Sea FishBase [2] are indicated with (*). Taxa identified based only on morphological characters are indicated with (M) and comments on species naming are indicated with superscripts.

Order	Family	Sub-Family level	Inshore		Offshore	
			X	FO%	X	FO%
Anguiliformes	Congridae	Congridae sp.	0.01	8	-	-
		<i>Uroconger</i> sp.	-	-	0.02	8
Aulopiformes	Paralepididae	<i>Lestrolepis</i> sp.	0.05	17	0.29	25
	Synodontidae	<i>Harpadon squamosus</i> *	0.01	8	0.02	8
		<i>Saurida undosquamis</i>	0.02	8	0.01	8
		<i>Synodus variegatus</i>	0.05	25	0.04	8
Beryciformes	Holocentridae	<i>Myripristis murdjan</i>	0.01	8	0.06	17
		<i>Myripristis chryseres</i>	-	-	0.02	8
		<i>Myripristis</i> sp.	0.02	8	0.02	17
		<i>Ostichthys kaianus</i> *	0.01	8	0.01	8
		Holocentridae sp.	-	-	0.02	8
		Unidentified Holocentridae	-	-	0.02	8
Clupeiformes	Clupeidae	Clupeidae sp.	-	-	0.02	8
		<i>Spratelloides gracilis</i>	1.50	75	0.91	83
	Engraulidae	Engraulidae sp.	0.08	17	0.04	8
		<i>Thryssa baelama</i>	-	-	0.02	8
Gadiformes	Bregmacerotidae	<i>Bregmaceros</i> sp.	0.03	8	0.51	75
Gobiesociformes	Gobiesocidae	Gobiesocidae sp. (M)	0.05	17	-	-
Lophiiformes	Antenarriidae	<i>Antennarius coccineus</i>	-	-	0.01	8
Myctophiformes	Myctophidae	<i>Benthoosema</i> spp.	0.73	50	2.78	92
Ophidiformes	Ophididae	<i>Brotula</i> sp. (M)	-	-	0.01	8
Perciformes	Acanthuridae	<i>Acanthurus sohal</i>	-	-	0.08	8
		<i>Ctenochaetus striatus</i>	-	-	0.02	17
		<i>Naso elegans</i>	-	-	0.02	8
		Apogonidae	<i>Apogon coccineus</i>	0.17	17	0.01
		<i>Apogon erythrinus</i> *	0.14	33	0.01	8
		<i>Apogon guamensis</i> ¹	0.07	8	-	-
		Apogonidae sp. 1	-	-	0.08	17
		Apogonidae sp. 2	0.05	17	-	-
		Apogonidae sp. 3	0.46	75	0.17	33
		Apogonidae sp. 4	0.07	25	-	-
		Apogonidae sp. 5	0.03	17	0.02	17
		Apogonidae sp. 6	0.01	8	0.04	17
		Apogonidae sp. 7	0.03	17	0.09	25
		Apogonidae sp. 8	0.05	8	0.01	8
	Apogonidae sp. 9	0.53	75	0.24	42	
	Apogonidae sp. 10	-	-	0.04	17	

S3 Table continued

Order	Family	Taxa	Inshore		Offshore	
			X	FO%	X	FO%
		Apogonidae sp. 11	0.05	25	-	-
		Apogonidae sp. 12	0.11	17	-	-
		Apogonidae sp. 13	0.01	8	-	-
		Apogonidae sp. 14	0.04	8	-	-
		Apogonidae sp. 15	0.13	17	-	-
		Apogonidae sp. 16	-	-	0.06	25
		Apogonidae sp. 17	0.26	42	0.06	17
		Apogonidae sp. 18	0.01	8	-	-
		Apogonidae sp. 19	0.03	17	0.02	8
		Apogonidae sp. 20	0.16	33	0.02	8
		Apogonidae sp. 21	0.57	67	0.35	67
		Apogonidae sp. 22	1.29	83	1.24	92
		Apogonidae sp. 23	0.05	17	-	-
		Apogonidae sp. 24	0.09	25	0.20	50
		Apogonidae sp. 25	0.11	25	0.07	33
		<i>Fowleria vaiulae</i>	0.19	25	0.10	33
		<i>Fowleria isostigma</i>	0.08	25	0.01	8
		<i>Fowleria marmorata</i>	0.10	33	0.54	83
		<i>Jaydia smithi</i>	0.08	42	-	-
		<i>Ostorhinchus apogonoides</i>	0.05	8	0.12	33
		<i>Ostorhinchus nigrofasciatus</i>	0.05	8	-	-
		<i>Pristiapogon exostigma</i>	0.11	25	0.07	25
		<i>Pristiapogon fraenatus</i>	0.01	8	-	-
		<i>Pristiapogon kallopterus</i>	0.08	25	-	-
		<i>Rhabdamia spilota</i>	0.22	25	-	-
		<i>Taeniamia</i> sp.	0.73	50	0.05	17
		Unidentified apogonids	0.27	50	-	-
	Blenniidae	<i>Blenniella periophthalmus</i>	0.07	33	0.11	33
		Blenniidae sp. 1	0.36	25	0.04	8
		Blenniidae sp. 2	0.03	8	-	-
		Blenniidae sp. 3	0.01	8	0.02	8
		<i>Cirripectes castaneus</i>	0.03	8	0.04	17
		<i>Ecsenius nalolo</i> ²	0.03	8	-	-
		<i>Meiacanthus cf. nigrolineatus</i>	0.10	25	0.01	8
		<i>Petroscirtes mitratus</i>	0.09	17	-	-
		Unidentified blennids	0.03	8	-	-
	Caesionidae	<i>Caesio lunaris</i>	0.07	8	0.05	17
		<i>Caesio cf. caerulea</i>	3.14	50	1.03	75
		<i>Gymnocaesio gymnoptera</i>	0.03	8	0.05	25
		<i>Pterocaesio</i> sp.	0.01	8	-	-
	Callionymidae	Callionymidae sp. 1	0.01	8	-	-
		Callionymidae sp. 2	-	-	0.02	8

S3 Table continued

Order	Family	Taxa	Inshore		Offshore	
			X	FO%	X	FO%
		Callionymidae sp. 3	0.06	17	0.01	8
		<i>Callionymus filamentosus</i>	0.02	8	-	-
		Unidentified callionymids	0.03	8	0.02	8
	Carangidae	<i>Atule mate</i>	-	-	0.01	8
		Carangidae sp. 1	0.03	8	0.02	17
		Carangidae sp. 2 (M)	-	-	0.01	8
		<i>Carangoides fulvoguttatus</i>	0.03	8	-	-
		<i>Alectis ciliaris</i>	0.03	8	-	-
		<i>Carangoides</i> sp.	-	-	0.02	8
		<i>Decapterus russelli</i>	0.03	8	-	-
		<i>Gnathanodon speciosus</i>	0.02	8	-	-
		<i>Megalaspis cordyla</i>	0.01	8	-	-
		<i>Selar crumenophthalmus</i>	0.07	8	-	-
		Unidentified carangids	0.01	8	-	-
	Chaetodontidae	Chaetodontidae sp.	0.01	8	-	-
	Chanidae	Chanidae sp. (M)	-	-	0.02	8
	Cirrhitidae	<i>Cirrhitus spilotoceps</i> ³	0.01	8	-	-
	Echeneidae	<i>Echeneidae</i> sp.	-	-	0.02	8
	Ephippidae	<i>Platax orbicularis</i>	-	-	0.02	8
	Gempylidae	<i>Neoepinnula orientalis</i> *	-	-	0.02	8
	Gerreidae	<i>Gerres oyena</i>	0.10	50	0.01	8
	Haemulidae	<i>Pomadasys stridens</i>	0.03	8	-	-
	Labridae	<i>Cheilinus fasciatus</i>	0.01	8	0.06	17
		<i>Cheilinus undulatus</i>	-	-	0.02	8
		<i>Chelio inermis</i>	-	-	0.03	8
		<i>Epibulus insidiator</i>	0.08	17	-	-
		<i>Gomphosus caeruleus</i>	-	-	0.09	8
		<i>Halichoeres hortulanus</i>	-	-	0.09	17
		<i>Halichoeres scapularis</i>	0.04	17	0.07	25
		<i>Hologymnosus annulatus</i>	0.03	8	-	-
		Labridae sp. 1	0.68	58	0.19	42
		Labridae sp. 2	0.01	8	-	-
		Labridae sp. 3	0.08	33	0.05	25
		Labridae sp. 4	0.04	25	-	-
		<i>Labroides dimidiatus</i>	0.01	8	-	-
		<i>Larabicus quadrilineatus</i>	0.03	17	0.04	17
		<i>Oxycheilinus digramma</i>	0.01	8	0.04	8
		<i>Paracheilinus octotaenia</i>	0.14	33	0.11	25
		<i>Pseudocheilinus hexataenia</i>	0.05	17	0.02	8
		<i>Pseudocheilinus evanidus</i>	-	-	0.21	25
		<i>Thalassoma lutescens</i> *	0.05	17	0.07	8
		<i>Wetmorella nigropinnata</i>	0.11	33	0.08	17

S3 Table continued

Order	Family	Taxa	Inshore		Offshore	
			X	FO%	X	FO%
		Unidentified labrids	0.01	8	0.05	25
	Leiognathidae	Leiognathidae sp.	-	-	0.02	8
		<i>Photopectoralis bindus</i>	0.03	8	-	-
	Lethrinidae	<i>Lethrinus harak</i>	0.02	17	0.04	8
		<i>Lethrinus lentjan</i>	0.03	17	0.05	17
		<i>Lethrinus mahsena</i>	0.03	8	0.04	8
		<i>Lethrinus obsoletus</i>	0.04	8	0.01	8
		<i>Lethrinus</i> sp. 1	0.08	17	0.03	17
		<i>Lethrinus</i> sp. 2	-	-	0.01	8
		<i>Lethrinus</i> spp.	0.12	25	0.03	17
	Lutjanidae	<i>Lutjanus ehrenbergii</i>	0.01	8	-	-
		<i>Lutjanus fulviflamma</i>	-	-	0.02	8
	Microdesmidae	<i>Gunnellichthys monostigma</i>	0.02	8	-	-
		<i>Navigobius vittatus</i> *	0.03	17	0.04	8
		<i>Ptereleotris evides</i>	0.03	8	-	-
		<i>Ptereleotris monoptera</i> *	0.15	42	0.08	25
		Microdesmidae sp.	-	-	0.02	8
	Monodactylidae	Monodactylidae sp. (M)	0.01	8	-	-
	Mullidae	<i>Upeneus luzonius</i> * ⁴	0.03	8	-	-
	Nemipteridae	<i>Nemipterus bipunctatus</i>	0.03	8	-	-
		<i>Nemipterus japonicus</i>	0.10	25	-	-
		<i>Scolopsis ghanam</i>	0.01	8	0.01	8
		<i>Nemipteridae</i> spp.	0.07	8	-	-
	Nomeidae	<i>Cubiceps</i> sp.*	-	-	0.06	17
	Pempheridae	<i>Parapriacanthus ransonneti</i>	0.07	8	-	-
	Pinguipedidae	<i>Parapercis hexophtalma</i>	-	-	0.02	8
	Pomacanthidae	<i>Centropyge multispinis</i>	-	-	0.02	8
		<i>Genicanthus caudovittatus</i>	-	-	0.02	8
		Pomacanthidae sp.	0.09	33	-	-
		<i>Pygoplites diacanthus</i>	-	-	0.05	17
	Pomacentridae	<i>Abudefduf sexfasciatus</i>	0.11	25	0.01	8
		<i>Amblyglyphidodon indicus</i>	-	-	0.05	25
		<i>Amblyglyphidodon flavilatus</i>	0.07	33	-	-
		<i>Chromis dimidiata</i>	0.25	58	0.11	17
		<i>Chromis flavaxilla</i>	0.04	25	0.06	25
		<i>Chromis viridis</i>	0.05	8	0.05	8
		<i>Chromis weberi</i>	-	-	0.01	8
		<i>Chrysiptera unimaculata</i>	0.20	42	0.03	17
		<i>Dascyllus aruanus</i>	0.02	8	-	-
		<i>Dascyllus marginatus</i>	0.03	8	-	-
		<i>Plectroglyphidodon lacrymatus</i>	0.05	17	0.04	8
		<i>Plectroglyphidodon leucozonus</i>	0.03	17	-	-

S3 Table continued

Order	Family	Taxa	Inshore		Offshore	
			X	FO%	X	FO%
		<i>Pomacentrus trichourus</i>	0.03	8	-	-
		<i>Stegastes nigricans</i>	0.27	58	0.31	50
		Pomacentridae sp. 1	0.04	8	-	-
		Pomacentridae sp. 2	0.06	25	0.10	33
		Unidentified pomacentrids	0.01	8	-	-
	Priacanthidae	<i>Priacanthus hamrur</i>	-	-	0.04	8
		Priacanthidae sp.	0.01	8	0.11	17
		Unidentified priacanthids	-	-	0.04	17
	Pseudochromidae	<i>Pseudochromis olivaceus</i>	0.33	17	-	-
		<i>Chlidichthys auratus</i>	0.21	42	0.02	8
		Pseudochromidae sp. 1	0.03	8	-	-
		Pseudochromidae sp. 2	0.20	25	-	-
		Pseudochromidae sp. 3	0.15	17	-	-
	Scaridae	<i>Calotomus viridescens</i>	0.09	17	0.05	17
		<i>Cetoscarus bicolor</i>	0.02	8	-	-
		<i>Chlorurus sordidus</i>	0.64	50	0.43	58
		<i>Hipposcarus</i> sp.	0.79	50	0.46	42
		<i>Scarus frenatus</i>	0.01	8	-	-
		<i>Scarus niger</i>	0.04	8	0.31	25
		<i>Scarus psittacus</i>	0.01	8	0.02	8
		<i>Scarus cf. ferrugineus</i>	0.33	58	0.55	58
		<i>Scarus</i> spp.	0.06	8	-	-
		Unidentified scarids	0.07	25	0.08	25
	Schindleriidae	<i>Schindleria</i> sp. (M)	0.82	58	0.62	75
	Scombridae	<i>Grammatorcynus bilineatus</i>	0.05	17	-	-
		<i>Katsuwonus pelamis</i>	0.01	8	0.02	8
		<i>Rastrelliger kanagurta</i>	0.33	33	0.06	25
		<i>Scomberomorus commerson</i>	0.03	8	0.02	8
		Scombridae sp. (M)	0.02	8	-	-
		<i>Thunnus tonggol</i>	0.01	8	-	-
	Serranidae	<i>Cephalopholis hemistiktos</i>	0.07	25	0.12	25
		<i>Liopropoma lunulatum</i>	-	-	0.02	8
		<i>Liopropoma</i> sp.	-	-	0.03	17
		<i>Pseudanthias squamipinnis</i>	0.03	8	0.19	33
		Serranidae sp. 1	0.04	8	0.06	8
		Serranidae sp. 2	-	-	0.02	8
		Serranidae sp. 3	0.03	8	0.02	8
		Unidentified serranids	-	-	0.01	8
	Siganidae	<i>Siganus luridus</i>	0.03	17	0.03	8
		Siganidae sp. (M)	-	-	0.02	8
	Sphyraenidae	<i>Sphyraena jello</i>	0.02	8	-	-
		<i>Sphyraena qenie</i>	0.03	17	0.08	25

S3 Table continued			Inshore		Offshore	
Order	Family	Taxa	X	FO%	X	FO%
		<i>Sphyraena</i> spp.	-	-	0.02	8
	Trichiuridae	<i>Tentoriceps</i> sp.	-	-	0.02	8
		<i>Trichiurus</i> sp.	0.05	8	0.04	17
	unind. Perciformes		0.07	42	0.21	25
Pleuronectiformes	Bothidae	<i>Arnoglossus</i> sp.	0.01	8	0.01	8
		Bothidae sp. 1	0.03	17	0.09	17
		Bothidae sp. 2	0.01	8	0.10	17
		Bothidae sp. 3	0.04	17	-	-
		Bothidae sp. 4	-	-	0.02	8
		Bothidae sp. 5	0.02	8	-	-
		Unidentified bothids	-	-	0.04	17
	Soleidae	<i>Pardachirus marmoratus</i>	0.01	8	-	-
		Soleidae sp.	0.01	8	-	-
Scorpaeniformes	Hoplichthyidae	<i>Hoplichthys</i> sp.*(M)	-	-	0.02	8
	Platycephalidae	Platycephalidae sp. (M)	-	-	0.02	8
	Scorpaenidae	<i>Scorpaenopsis longispina</i>	-	-	0.01	8
		Scorpaenidae sp.	0.03	8	-	-
		Unidentified scorpaenids	0.01	8	-	-
Stomiiformes	Phosichthyidae	<i>Vinciguerria</i> sp.	0.69	50	4.45	92
	Stomiidae	<i>Astronesthes</i> sp.	0.05	8	0.08	25
		Stomiidae sp. (M)	-	-	0.01	8
Syngnathiformes	Fistularidae	<i>Fistularia commensonnii</i>	-	-	0.02	8
	Syngnathidae	Syngnathidae sp. 1	0.03	8	-	-
		Syngnathidae sp. 2	-	-	0.02	8
Tetraodontiformes	Balistidae	<i>Balistoides viridescens</i>	0.01	8	-	-
		<i>Odonus niger</i>	0.03	17	-	-
		<i>Sufflamen chrysopterum</i> *	0.14	17	0.02	8
	Monacanthidae	<i>Cantherhines pardalis</i>	-	-	0.02	8
		<i>Pervagor cf. randalli</i>	0.08	17	-	-
		Monacanthidae sp. (M)	-	-	0.02	8
		Unidentified monacanthids	-	-	0.02	8
	Tetraodontidae	<i>Arothron diadematus</i>	-	-	0.01	8
		<i>Canthigaster solandri</i> *	0.05	25	0.02	8
		Tetraodontidae sp.	0.02	8	-	-
	Triacanthidae	Triacanthidae sp. (M)	-	-	0.01	8
Zeiformes	Zeidae	Zeidae sp. (M)	-	-	0.01	8
		<i>Unidentified fish larvae</i>	0.11	25	0.05	17

¹corresponds to *Nectamia fusca* according to WoRMs

² likely corresponds to *Ecsenius dentex* according to Golani and Bogorodsky (1)

³ accepted as *Cirrhitus pinnulatus* according to WoRMs

⁴ accepted as *Upeneus sundaicus* according to WoRMs

⁵ likely the endemic species *Vinciguerria mabahis*

References

1. Golani D, Bogorodsky SV. The fishes of the Red Sea - Reappraisal and updated checklist. *Zootaxa*. 2010: 1-100. PubMed PMID: WOS:000277812600001.
2. Froese R, Pauly D. FishBase. World Wide Web electronic publication. www.fishbase.org, version (06/2016). 2016.