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State of research of the Osteichthyes fish related to coral reefs in the Honduran Caribbean with catalogued records

Estado del conocimiento de los peces osteíctios asociados a los arrecifes de coral en el Caribe de Honduras, con registros catalogados

Anarda Isabel Salgado Ordoñez[1], *Julio Enrique Mérida Colindres*[1*] & *Gustavo Adolfo Cruz*[1]

ABSTRACT

Research on Honduran coral reef fish has been isolated and scattered. A list of fish species related to coral reefs was consolidated to establish a compiled database with updated taxonomy. The study was conducted between October 2017 and December 2018. Using primary and secondary sources, all potential species in the Western Atlantic were considered, and their actual presence was confirmed using catalogued records published in peer-reviewed journals that included Honduras. In addition, the specimens kept in the Museum of Natural History of *Universidad Nacional Autónoma de Honduras* were added. Once the list was consolidated, the taxonomic status of each species was updated based on recent literature. A total of 159 species and 76 genera were registered in 32 families. The family with the most species was Labrisomidae with 27 species (17%). Five families had more than five 5 genera registered, while four 4 were represented by more than 16 species, which is equivalent to 42% genera and 51% species. Gobiidae was represented by 10 genera (13%) and 21 species (13%), of which two 2 were endemic: *Tigrigobius rubrigenis* and *Elacatinus lobeli*. In turn, Grammatidae was represented by one endemic species *Lipogramma idabeli* (1.8%). The species *Diodon holocanthus* and *Sphoeroides testudineus* represent the first catalogued records for Honduras.

Keywords: Bleniidae, Chaenopsidae, Clinidae, fish database, Serranidae

RESUMEN

Las investigaciones en peces de arrecife en Honduras han sido aisladas y dispersas. Se consolidó una lista de especies de peces asociadas a los arrecifes de coral, con el objetivo de establecer una base compilada con su taxonomía actualizada. Este estudio se desarrolló entre octubre de 2017 y diciembre de 2018. Se consideró las especies potenciales incluidas en el Atlántico occidental, basadas en fuentes primarias y secundarias, así como se confirmó su presencia mediante registros catalogados publicados de revistas de revisión por pares que incluyeran Honduras. Además, se

1 Museo de Historia Natural, Universidad Nacional Autónoma de Honduras, Boulevard Suyapa 11101, Tegucigalpa, Francisco Morazán Honduras. anarda.salgado@unah.edu.hn, julio.merida@unah.edu.hn*

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incorporó especímenes depositados en el Museo de Historia Natural de la Universidad Nacional Autónoma de Honduras. Una vez consolidada la lista, se actualizó el estado taxonómico de cada especie, con base en la literatura reciente. En total, se registraron 159 especies y 76 géneros en 32 familias. La familia con más especies fue Labrisomidae con 27 (17%). Cinco familias registraron más de 5 géneros y cuatro estuvieron representadas por más de 16 especies, equivalentes al 42% de géneros y al 51% de especies. Gobiidae estuvo representada por 10 géneros (13%) y 21 especies (13%), de las cuales dos fueron endémicas: *Tigrigobius rubrigenis* y *Elacatinus lobeli.* A su vez, Grammatidae estuvo representada con una especie endémica *Lipogramma idabeli (*1.8%). Las especies *Diodon holocanthus* y *Sphoeroides testudineus* representan los primeros registros catalogados para Honduras.

Palabras clave: Bleniidae, Chaenopsidae, Clinidae, base de datos de peces, Serraidae

INTRODUCTION

Taxonomic inventories are used to measure site diversity (Magurran, 1988). In addition, the number and/or presence of species have been adopted to compare sites (Gotelli and Colwell, 2001). Therefore, richness is fundamental in biodiversity, biogeography, and conservation biology studies (Fourriére *et al.* 2016). Since species can shift their distribution through time due to different factors (environmental, ecological, or anthropogenic) and taxonomy changes and new species are registered, it is important to update local inventories (Fourriére *et al.* 2016; Galván-Villa *et al*. 2016). No comprehensive checklist of Honduran coral reef fish is available; in fact, only two scientific studies have been conducted on Honduran coral reef fish (Greenfield & Johnson, 1981; Clifton & Clifton, 1998). Consequently, our objective is to generate and updated a compiled list based on the current taxonomic status of fish families related to coral reefs in the Honduran Caribbean.

MATERIALS AND METHODS

The study was conducted between October 2017 and December 2018. All potential species listed for the Western Atlantic that included Honduras were considered (Floeter *et al*. 2008). This list was complemented with other primary and secondary sources, such as journals, catalogues, and databases (Acero, 1985; Carpenter, 2002a; Carpenter, 2002b; Robertson & Van Tassell, 2019; Eschmeyer *et al*. 2019; World of Register of Marine Species-WoRMS Editorial Board, 2019; Froese & Pauly, 2019). Since defining species as 'reef fish' is difficult (Bellwood & Wainwright, 2002; Rocha, 2003), the lists of reef fish families proposed by Thresher (1991) and Bellwood (1996) were the ones used as a criterion. After a basic list was prepared, articles were consulted to confirm records of occurrence of

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species in Honduras and to search for any taxonomic changes in taxa to update the list. Most species were added to the list based on reported scientific collections in peer-reviewed journals. In addition, specimens in the fish collection of the Museum of Natural History of *Universidad Nacional Autónoma de Honduras* at the University's main campus (*Ciudad Universitaria*) (UNAH-CU) were also included. Each species listed was reviewed to ensure the correct taxonomic synonym. Nelson *et al.* (2016) was followed for the suprageneric classification, while Eschmeyer *et al*. (2019) and WoRMS (2019) were followed for the species generic and current taxonomic status. WoRMS (2019) was used when there were inconsistencies on the taxonomic classification.

RESULTS

The following are the most important results. Two new families were found (Chaenopsidae and Labrisomidae), which were originally considered part of another family (Clinidae). In addition, twenty-one species had changes in their taxonomy (genera and/or species) and one family had changes in one genus. Eight species were also found to be misspelled (Tables 1 and 2). *Gramma linki* was mentioned to occur in Central America (Colin, 1974; Starck & Colin, 1978; Acero, 1985; Smith-Vaniz & Bölhke, 1991), and *Lipogramma evides, L. klayi,* and *Hypleurochilus aequipinnis* were mentioned to occur in Honduras (Acero, 1985), as well as *Clepticus parrae* (= *C. parrai*) and *Scarus isieri* (=*S. isierti*) (Clifton & Clifton, 1998); however, there was no confirmation or catalogued records in Honduras of any of them. Clifton & Clifton (1998) erroneously assigned the specific epithet *bahamensis* to the genus *Coralliozetus* and placed this genus under Labrisomidae, although Stephens (1961) originally added it to the family Chaenopsidae together with *Emblemariopsis bahamensis*. In Belize and Honduras (B-H), Greenfield & Johnson (1981) published occurrences of *Emblemariopsis leptocirris* (first record in B-H), *E. pricei* (B-H), and *E. signifera* (B-H). Nevertheless, no data for *E. bahamensis* is presented for Honduras, hence, its presence needs to be confirmed in that region. On other hand, the genus *Coralliozetus* is represented only by one species in Belize: *C. cardonae*. However, it is listed in Fishbase to be in Honduras (Froese & Pauly, 2019) based on Acero (1985), who lists only one *Coralliozetus* species (*Coralliozetus* sp.) for Colombia as part of the subfamily Chaenopsinae and the family Clinidae. Accordingly, since *E. bahamensis was* not registered for Honduras or any other species of the genus *Coralliozetus*, none of them were included on this paper. As to *Lucayablennius zingaro,* Clifton &

Clifton (1998) locate this genus as part of the family Labrisomidae. Böhlke identified *Lucaya zingaro* in 1957 and subsequently proposed changing it from *Lucaya* to *Lucayablennius* given *Lucaya* was already preoccupied (Böhlke 1958), maintaining the *zingaro* species type (*Lucaya zingaro* = *Lucayablennius zingaro*) and the original description of the species under the subfamily Chaenopsinae (Böhlke, 1957) (= Chaenopsidae). Therefore, the species is part of Chaenopsidae, rather than Labrisomidae. Kähsbauer (1972) reported *Eupomacentrus fuscus* and *E. flavilatus*, while Emery & Allen (1980) indicated that *Eupomacentrus* is a synonym of *Stegastes*, which historically precedes *Eupomacentrus* Bleeker. Consequently, the criterion followed here was Emery and Allen's for the genus synonym. For Allen (1991), *S. flaviatus* is distributed throughout the eastern Pacific. Accordingly, since the identity of these specimens reported by Kähsbauer (1972) should be reviewed, *S. flaviatus* was not included on the list. On the other hand, *Abudefduf saxatilis* was classified under the family Labridae by Kähsbauer (1972), even though it belongs to Pomacentridae. Similarly, *Stathmonotus sthali tekla* was presented as part of the family Labrisomidae by Greenfield & Johnson (1981), although in the latest revision of the genus *Stathmonotus* conducted by Springer (1955) it was classified under Chaenopsidae. Given that Nelson et al. (2016), Hastings and Springer (2009), and Patzner et al. (2009) included *Stathmonotus* as part of Chaenopsidae, this was the criterion followed. Six species listed by Randall (1996) were confirmed since it is a recognized source, which makes their identification reliable, even though these species need catalogue records.

Table 1. Genus and species for Honduras with sources and taxonomic status changed and authorities proposing the change followed in this study
Cuadro 1. Género y especies con su fuente para Honduras que han cambiado su estatus taxonómico con la referencia de autoridad que propone el cambio y que se sigue en este estudio

Reported as	Reported by	Current status	Authority reference
Adioryx coruscus	Clifton & Clifton (1998)	*Sargocentron coruscum*	Matsuura & Shimizu (1982); Randall (1996); Smith-Vaniz *et al*. (1999); Floeter *et al*. (2008)
Adioryx vexillarius	Clifton & Clifton (1998)	*Sargocentrum vexillarium*	Matsuura & Shimizu (1982); Randall (1996); Smith-Vaniz *et al*. (1999); Floeter *et al*. (2008)
Alectis crinitus	Clifton & Clifton (1998)	*Alectis ciliaris*	Nichols (1920); Floeter *et al*. (2008)

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Reported as	Reported by	Current status	Authority reference
Arcos rubiginosus	Clifton & Clifton (1998)	*Acyrtus rubiginosus*	Böhlke & Chaplin (1993); Eschmeyer *et al*. (2019); Froese & Pauly (2019); WoRMS (2019);
Chaetodon aculeatus	Clifton & Clifton (1998)	*Prognathodes aculeatus*	Burgess (1978); Fessler & Westneat (2007); Littlewood *et al*. (2004) Nelson *et al.* (2016)
Elacatinus rubrigenis	Victor (2010)	*Tigrigobius rubrigenis*	Victor (2014)
Epinephelus cruentatus	Clifton & Clifton (1998)	*Cephalopholis cruentata*	Craig *et al*. (2001); Eschmeyer *et al.* (2019); WoRMS (2019)
Epinephelus fulvus	Clifton & Clifton (1998)	*Cephalopholis fulva*	Eschmeyer *et al.* (2019); WoRMS (2019)
Gobiosoma oceanops	Clifton & Clifton (1998)	*Elecantinus oceanops*	Hoese & Reader (2001)
Gobiosoma xanthiprora	Clifton & Clifton (1998)	*Elecantinus xanthiprora*	Hoese & Reader (2001)
Halicampus crinitus	Acero (1985)	*Micrognathus crinitus*	Dawson (1982b)
Heteroconger halis	Clifton & Clifton (1998)	*Heteroconger longissimu*	Saldanha *et al*. (1986); Floeter *et al*. (2008)
Labrisomus albigenys	Greenfield & Johnson (1981); Acero (1985), and Floeter *et al. (*2008)	*Brockius albigenys*	Lin & Hastings (2013)
Lactophrys polygonia	Clifton & Clifton (1998)	*Acanthostracion polygonius*	De Astarloa & Figuero (1995); Smith-Vaniz *et al*. (1999)
Lactophrys polygonia	Clifton & Clifton (1998)	*Acanthostracion polygonius*	WoRMS (2019)
Lactophrys quadricornis	Clifton & Clifton (1998)	*Acanthostracion quadricornis*	De Astarloa & Figuero, (1995); Smith-Vaniz *et al*. (1999)
Micrognathus ensenadae	Clifton & Clifton (1998)	*Micrognathus crinitus*	Acero (1985); Dawson (1982b)
Micrognathus tectus	Dawson (1978)	*Anarchopterus tectus*	Acero (1985); Dawson (1982b)
Priacanthus cruentatus	Clifton & Clifton (1998)	*Heteropriacanthus cruentatus*	Fitch & Crooke (1984); Starnes (1988)
Rypticus brachyrhinus	Courtenay 1967	*Rypticus randalli*	Guimarães (1999), WoRMS (2019)
Stathmonotus sthali tekla	Greenfield & Johnson (1981)	*Stathmonotus tekla*	Hastigs & Springer (2009); Paztner *et al*. (2009)
Stegastes dorsopunicans	Clifton & Clifton (1998)	*Stegastes adustus*	Smith-Vaniz *et al*. (1999)

Table 2. Misspelled families, genera, and species with bibliographic source for Honduras and the authority reference followed in this study
Cuadro 2. Familias, géneros y especies, con su fuente bibliográfica para Honduras, mal escritos y la referencia de la autoridad que se sigue en este estudio

Misspelled	**Reported by**	**Current status**	**Authority reference**
Grammidae	Clifton & Clifton (1998)	Grammatidae	Sheiko (2013); Steykal (1980); Floeter *et al*. (2008); Nelson (2016)
Liopogramma	Nelson *et al.* (2016)	*Lipogramma*	Böhlke (1960)
Chromis cyaneus	Clifton & Clifton (1998)	*Chromis cyanea*	Smith-Vaniz & Emerit (1980)
Chromis insulatus	Clifton & Clifton (1998)	*Chromis insolata*	Smith-Vaniz & Emerit (1980)
Chromis multilineatus	Clifton & Clifton (1998)	*Chromis multilineata*	Smith-Vaniz & Emerit (1980)
Clepticus parrai	Clifton & Clifton (1998)	*Clepticus parrae*	Eschmeyer *et al*. (2017)
Haemulon plumieri	Clifton & Clifton (1998); Jaxion-Harm *et al*. (2012)	*Haemulon plumierii*	Jaxion-Harm *et al*. (2012)
Lipogramma regium	Carpenter (2002a)	*Lipogramma regia*	Robins & Colin (1979)
Lipogramma trilineatum	Carpenter (2002a)	*Lipogramma trilineata*	Randall (1963)
Scarus iserti	Clifton & Clifton (1998)	*Scarus iseri*	Eschmeyer *et al*. (2018)

Even though 412 species (representing 162 genera and 40 families) were initially found from different sources, the list based on catalogue records reflects 159 species (76 genera in 32 families) (Table 3). Five families registered more than five genera, of which four were represented by more than 16 species (42% genera and 51% species). Gobiidae is represented by 10 genera (13%) and 21 species (13%), while Chaenopsidae and Serranidae are represented by 6 genera each and Labrisomidae and Blenniidae by 5. Labrisomidae is the family represented by the most species (27, 17%), followed by Gobiidae (21, 13%), Serranidae (17, 10%), Apogonidae (16, 10%), and Chaenopsidae (10, 6 %). These families represent 42% of genera and 57% of species. However, according to Floeter *et al*. (2008) Gobiidae and Serranidae are the most speciose families for the entire northwestern Atlantic. Gobiidae has two endemic species: *Tigrigobius rubrigenis* and *Elacatinus lobeli*, which are shared with Belize, and Grammatidae has one endemic species, *Lipogramma idabeli,* representing 1.8% of endemics. The

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paper also presents the first records for *Sphoeroides testudineus* (UNAH-CU 0301) and *Diodon holocanthus* (UNAH-CU 0302), which were collected by G.A. Cruz in 1998 in Cayos Cochinos.

Table 3. List of fish related to coral reefs with catalogued records in the Honduran Caribbean and their current status and selected references, with plus sign the new registers of species
Cuadro 3. Lista de peces asociados a los arrecifes de coral con registros catalogados en el Caribe de Honduras, con su estatus actual y referencias selectas, con signo de más los nuevos registros de especies

No.	Order and family	Genus/species	References
1	PHYLUM CHORDATA Class OSTEICHTHYES Order ANGUILLIFORMES Muraenidae Rafinesque, 1815	*Echidna catenata* (Bloch, 1795)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Kähsbauer, 1972)
2	Order AULOPIFORMES Synodontidae Gill, 1861	*Synodus foetens* (Linnaeus, 1766)	(Frable, *et al*. 2013; Floeter *et al*. 2008; Carpenter, 2002a; Anderson *et al*. 1975)
3		*Synodus intermedius* (Spix & Agassiz, 1829)	(Frable *et al*. 2013; Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Anderson *et al*. 1975)
4	Order HOLOCENTRIFORMES Holocentridae Bonaparte, 1833	*Holocentrus adscensionis* (Osbeck, 1765)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Kähsbauer, 1972)
5		*Sargocentron vexillarium* (Poey, 1860)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Randall, 1996)
6	Order BATRACHOIDIFORMES Batrachoididae Jordan, 1896	*Porichthys bathoiketes* Gilbert, 1968	(Carpenter, 2002a; Gilbert, 1968)
7		*Porichthys porosissimus* (Cuvier, 1829)	(Gilbert, 1968)
8	Order KURTIFORMES Apogonidae Günther, 1859	*Apogon aurolineatus* (Mowbray, 1927)	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
9		*Apogon binotatus* (Poey, 1867)	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
10		*Apogon lachneri* Böhlke, 1959	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
11		*Apogon maculatus* (Poey, 1860)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)

No.	Order and family	Genus/species	References
12		*Apogon phenax* Böhlke & Randall, 1968	(Floeter *et al*. 2008; Carpenter, 2002a; Randall, 1996; Greenfield & Johnson, 1990)
13		*Apogon pillionatus* Böhlke & Randall, 1968	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)
14		*Apogon planifrons* Longley & Hildebrand, 1940	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
15		*Apogon pseudomaculatus* Longley, 1932	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)
16		*Apogon quadrisquamatus* Longley, 1934	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
17		*Apogon robbyi* Gilbert & Tyler, 1997	(Floeter *et al*. 2008; Carpenter, 2002b; Gilbert & Tyler, 1997)
18		*Apogon townsendi* (Breder, 1927)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)
19		*Astrapogon puncticulatus* (Poey, 1867)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)
20		*Astrapogon stellatus* (Cope, 1867)	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
21		*Phaeoptyx conklini* (Silvester, 1915)	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
22		*Phaeoptyx pigmentaria* (Poey, 1860)	(Floeter *et al*. 2008; Carpenter, 2002a; Greenfield & Johnson, 1990)
23		*Phaeoptyx xenus* (Böhlke & Randall, 1968)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990)
24	Order GOBIIFORMES Gobiidae Cuvier, 1816	*Bollmannia boqueronensis* Evermann & Marsh, 1899	(Van Tassell *et al.* 2012; Floeter *et al*. 2008; Gilbert, 1971)
25		*Chriolepis fisheri* Herre, 1942	(Van Tassell, 2011; Dennis *et al*. 2004)
26		*Coryphopterus dicrus* Böhlke & Robins, 1960	(Floeter *et al*. 2008; Greenfield & Johnson, 1999; Clifton & Clifton, 1998)
27		*Coryphopterus glaucofraenum* Gill, 1863	(Floeter *et al.* 2008; Greenfield & Johnson, 1999; Clifton & Clifton, 1998; Hanlon & Kaufman, 1976)
28		*Coryphopterus kuna* Victor, 2007	(Victor *et al*. 2010)
29		*Coryphopterus personatus* (Jordan & Thompson, 1905)	(Floeter *et al*. 2008; Hepburn *et al*. 2005; Greenfield & Johnson, 1999; Clifton & Clifton, 1998)

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No.	Order and family	Genus/species	References
30		*Elacatinus colini* Randall & Lobel, 2009	(Victor, 2014; Van Tassell, 2011; Randall & Lobel, 2009)
31		*Elacatinus dilepis* (Robins & Böhlke, 1964)	(Floeter *et al*. 2008; Greenfield & Johnson, 1999; Clifton & Clifton, 1998)
32		*Elacatinus evelynae* (Böhlke & Robins, 1968)	(Floeter *et al*. 2008; Greenfield & Johnson, 1999)
33		*Elacatinus lobeli* Randall & Colin, 2009	(Victor, 2014; Van Tassell, 2011; Randall & Colin, 2009)
34		*Elacatinus lori* Colin, 2002	(Floeter *et al.* 2008; Taylor & Helber, 2006; Colin, 2002; Victor, 2014)
35		*Elacatinus oceanops* (Jordan, 1904)	(Floeter *et al*. 2008; Taylor & Hellber, 2006; Clifton & Clifton, 1998)
36		*Gnatholepis thompsoni* Jordan, 1904	(Floeter *et al*. 2008; Greenfield & Johnson, 1999; Clifton & Clifton, 1998)
37		*Gobiosoma yucatanum* Dawson, 1971	(Floeter *et al*. 2008; Greenfield & Thomerson, 1997)
38		*Lythrypnus crocodilus* (Beebe & Tee-Van, 1928)	(Van Tassell, 2011; Floeter *et al*. 2008; Smith-Vaniz & Böhlke, 1991; Greenfield, 1988)
39		*Lythrypnus nesiotes* Böhlke & Robins, 1960	(Floeter *et al*. 2008; Greenfield, 1988)
40		*Psilotris alepis* Ginsburg, 1953	(Floeter *et al.* 2008; Greenfield & Johnson, 1999; Greenfield, 1993; Van Tassell, 2011)
41		*Psilotris batrachodes* Böhlke, 1963	(Floeter *et al.* 2008; Greenfield 1993; Van Tassell, 2011)
42		*Psilotris kaufmani* Greenfield Findley & Johnson, 1993	(Floeter *et al.* 2008; Greenfield 1993; Van Tassell, 2011)
43		*Pycnomma roosevelti* Ginsburg, 1939	(Floeter *et al*. 2008; Dennis *et al*. 2004; Greenfield & Johnson, 1999; Van Tassell, 2011)
44		*Tigrigobius rubrigenis* Victor, 2010	(Victor, 2014; Victor *et al*. 2010)
45	Order GOBIIFORMES Subseries Ovalentaria Pomacentridae Bonaparte, 1831	*Abudefduf saxatilis* (Linnaeus, 1758)	(Floeter *et al*. 2008; Capenter, 2002a; Jaxion-Harm *et al*. 2012; Clifton & Clifton, 1998; Kähsbauer, 1972)
46		*Chromis insolata* (Cuvier, 1830)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Randall, 1996)
47		*Stegastes partitus* (Poey, 1868)	(Floeter *et al*. 2008; Hepburn *et al*. 2009; Clifton & Clifton, 1998)
48		*Stegastes fuscus* (Cuvier, 1830)	(Kähsbauer, 1972)

No.	Order and family	Genus/species	References
49	Opistognathidae Bonaparte, 1835	*Opistognathus gilberti* Böhlke, 1967	(Floeter *et al.* 2008; Carpenter, 2002b; Randall, 1996)
50		*Opistognathus maxillosus* Poey, 1860	(Floeter *et al.* 2008; Carpenter, 2002b; Smith-Vaniz, 1997)
51		*Opistognathus whitehursti* (Longley, 1927)	(Floeter *et al*. 2008; Carpenter, 2002b; Smith-Vaniz, 1997)
52	Order BLENNIIFORMES Tripterygiidae Whitley, 1931	*Enneanectes altivelis* Rosenblatt, 1960	(Victor, 2013; Floeter *et al*. 2008; Greenfield & Johnson, 1990; Greenfield & Johnson, 1981)
53		*Enneanectes atrorus* Rosenblatt, 1960	(Floeter *et al.* 2008; Greenfield & Johnson 1981)
54		*Enneanectes boehlkei* Rosenblatt ,1960	(Victor, 2013; Floeter *et al*. 2008; Greenfield & Johnson, 1990; Greenfield & Johnson, 1981)
55		*Enneanectes jordani* (Evermann & Marsh, 1899)	(Floeter *et al*. 2008; Greenfield & Johnson, 1981)
56		*Enneanectes pectoralis* (Fowler, 1941)	(Floeter *et al*. 2008; Greenfield & Johnson, 1981)
57	Dactyloscopidae Gill, 1859	*Dactyloscopus poeyi* Gill, 1861	(Floeter *et al*. 2008; Dawson, 1982a)
58		*Dactyloscopus tridigitatus* Gill, 1859	(Floeter *et al*. 2008; Dawson, 1982a)
59		*Gillellus uranidea* Böhlke, 1968	(Dawson, 1982a)
60		*Platygillellus rubrocinctus* (Longley, 1934)	(Floeter *et al*. 2008; Dawson, 1982a)
61	Blenniidae Rafinesque, 1810	*Entomacrodus nigricans* Gill, 1859	(Floeter *et al*. 2008; Greenfield and Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
62		*Hypleurochilus aequipinnis* (Gunther, 1861)	(Acero 1985; Greenfield & Johnson, 1981)
63		*Hypleurochilus springeri* Randall, 1966	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
64		*Lupinoblennius dispar* Herre, 1942	(Greenfield & Johnson, 1981)
65		*Ophioblennius atlanticus* (Valenciennes, 1836)	(Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
66		*Scartella cristata* (Linnaeus, 1758)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
67	Labrisomidae Clark Hubbs, 1952	*Brockius albigenys* (Beebe & Tee-Van, 1928)	(Acero, 1985; Greenfield & Johnson, 1981)

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68		*Brockius nigricinctus* (Howell Rivero, 1936)	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
69		*Labrisomus bucciferus* (Poey, 1868)	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
70		*Labrisomus gobio* (Valenciennes, 1836)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Greenfield & Johnson, 1981)
71		*Labrisomus guppyi* (Norman, 1922)	(Floeter *et al*. 2008; Carpenter, 2002b; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
72		*Labrisomus haitiensis* Beebe & Tee-Van, 1928	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1981)
73		*Labrisomus kalisherae* (Jordan, 1904)	(Floeter *et al*. 2008; Carpenter, 2002b; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
74		*Labrisomus nuchipinnis* (Quoy & Gaimard, 1824)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Greenfield and Johnson, 1990; Greenfield & Johnson, 1981; Kähsbauer, 1972)
75		*Malacoctenus aurolineatus* Smith, 1957	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Greenfield and Johnson, 1990; Greenfield & Johnson, 1981)
76		*Malacoctenus boehlkei* Springer, 1959	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Acero, 1985; Greenfield & Johnson, 1981)
77		*Malacoctenus delalandii* (Valenciennes, 1836)	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1981)
78		*Malacoctenus erdmani* Smith, 1957	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1990; Greenfield & Johnson, 1981)
79		*Malacoctenus gilli* (Steindachner, 1867)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
80		*Malacoctenus macropus* (Poey, 1868)	(Floeter *et al*. 2008; Carpenter, 2002b; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
81		*Malacoctenus triangulatus* Springer, 1959	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
82		*Paraclinus cingulatus* (Evermann & Marsh, 1899)	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)

No.	Order and family	Genus/species	References
83		*Paraclinus fasciatus* (Steindachner, 1876)	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
84		*Paraclinus nigripinnis* (Steindachner, 1867)	(Floeter *et al.* 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1990; Greenfield & Johnson, 1981)
85		*Stathmonotus hemphilli* Bean, 1885	(Acero, 1985; Greenfield & Johnson, 1981)
86		*Starksia atlantica* Longley, 1934	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1981)
87		*Starksia elongata* Gilbert, 1971	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1981)
88		*Starksia hassi* Klausewitz, 1958	(Floeter *et al*. 2008; Carpenter, 2002b; Acero, 1985)
89		*Starksia lepicoelia* Böhlke & Springer, 1961	(Floeter *et al.* 2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
90		*Starksia langi* Baldwin & Castillo, 2011	(Baldwin *et al.* 2011)
91		*Starksia nanodes* Böhlke & Springer, 1961	(Floeter *et al*. 2008; Acero, 1985; Greenfield & Johnson, 1981)
92		*Starksia occidentalis* Greenfield, 1979	(Floeter *et al*.2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
93		*Starksia starcki* Gilbert, 1971	(Floeter *et al*.,2008; Carpenter, 2002b; Acero, 1985; Greenfield & Johnson, 1981)
94	Chaenopsidae Gill, 1865	*Acanthemblemaria aspera* (Longley, 1927)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Acero, 1985; Greenfield & Johnson, 1981)
95		*Acanthemblemaria spinosa* Metzelaar, 1919	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
96		*Emblemaria hyltoni* Johnson & Greenfield, 1976	(Victor, 2010; Floeter *et al*. 2008; Greenfield & Johnson, 1981; Acero, 1985; Acero, 1984; Johnson & Greenfield, 1976)
97		*Emblemariopsis leptocirris* Stephens, 1970	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Acero, 1984; Greenfield & Johnson, 1981)
98		*Emblemariopsis pricei* Greenfield, 1975	(Victor, 2010; Floeter *et al*. 2008; Clifton & Clifton, 1998; Acero, 1984; Greenfield & Johnson, 1981)

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99		*Emblemariopsis signifer* (Ginsburg, 1942)	(Floeter *et al*. 2008; Smith-Vaniz & Bölhke, 1991; Greenfield & Johnson, 1981)
100		*Hemiemblemaria simulus* Longley & Hildebrand, 1940	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Greenfield & Johnson, 1990; Acero, 1985; Greenfield & Johnson, 1981)
101		*Lucayablennius zingaro* (Böhlke, 1957)	(Floeter *et al*. 2008; Carpenter, 2002a; Acero, 1985; Acero, 1984; Greenfield & Johnson, 1981)
102		*Stathmonotus hemphillii* Bean, 1885	(Floeter *et al*. 2008; Robins & Ray, 1986; Greenfield & Johnson, 1981)
103		*Stathmonotus tekla* Nichols, 1910	(Floeter *et al*. 2008; Hardy, 2003; Greenfield & Johnson, 1981)
104	Order GOBIESOCIFORMES Gobiesocidae Bleeker, 1859	*Acyrtus rubiginosus* (Poey, 1868)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Johnson & Greenfield, 1983)
105		*Derilissus kremnobates* Fraser, 1970	(Floeter *et al*. 2008; Fraser, 1970)
106		*Gobiesox punctulatus* (Poey, 1876)	(Floeter *et al*. 2008; Johnson & Greenfield, 1983; Smith, 1997)
107		*Tomicodon rupestris* (Poey, 1860)	(Floeter *et al*. 2008; Williams & Tyler, 2003)
108	Order CARANGIFORMES Carangidae Rafinesque, 1815	*Caranx hippos* (Linnaeus, 1766)	(Floeter *et al*. 2008; Smith -Vaniz & Carpenter, 2007: Smith *et al*. 2002; Clifton & Clifton, 1998)
109		*Caranx latus* Agassiz, 1831	(Floeter *et al*. 2008; Smith *et al*. 2002; Clifton & Clifton, 1998; Kähsbauer, 1972)
110	Order PLEURONECTIFORMES Bothidae Smitt, 1892	*Monolene megalepis* Woods, 1961	(Floeter *et al*. 2008; Carpenter, 2002b; Woods, 1961)
111		*Trichopsetta melasma* Anderson& Gutherz, 1967	(Floeter *et al*. 2008; Carpenter, 2002b; Anderson & Gutherz, 1967)
112	Order SYNGNATHIFORMES Syngnathidae Bonaparte 1831	*Anarchopterus tectus* (Dawson, 1978)	(Floeter *et al*. 2008; Acero, 1985; Dawson, 1978)
113		*Micrognathus crinitus* (Jenyns, 1842)	(Clifton & Clifton, 1998; Acero, 1985; Dawson, 1982b)
114		*Syngnathus caribbaeus* Dawson, 1979	(Dawson, 1982b)

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115	Order LABRIFORMES Labridae Cuvier 1816	*Bodianus pulchellus* (Poey, 1860)	(Floeter *et al*. 2008; Carpenter, 2002b; Feddern, 1963)
116		*Halichoeres radiatus* (Linnaeus, 1758)	(Floeter *et al.* 2008; Carpenter, 2002b; Rocha & Rosa, 2001; Humann & DeLoach, 2014)
117	Scaridae Rafinesque 1810	*Sparisoma rubripinne* (Valenciennes, 1840)	(Floeter *et al*. 2008; Carpenter, 2002b; De Moura *et al*. 2001; Clifton & Clifton, 1998)
118	Order PERCIFORMES Mullidae Rafinesque 1815	*Mulloidichthys martinicus* (Cuvier, 1829)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998)
119		*Mullus auratus* Jordan & Gilbert, 1882	(Floeter *et al.* 2008; Carpenter, 2002b)
120		*Pseudupeneus maculatus* (Bloch, 1793)	(Floeter *et al.* 2008; Carpenter, 2002b; Clifton & Clifton, 1998)
121	Kuhliidae Jordan & Evermann 1896	*Kuhlia mugil* (Foster, 1801)	(Schneider, 1995)
122	Serranidae Swainson 1839	*Cephalopholis fulva* (Linnaeus, 1758)	(Floeter *et al.* 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Smith, 1971)
123		*Epinephelus guttatus* (Linnaeus, 1758)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Smith, 1971)
124		*Epinephelus morio* (Valenciennes, 1828)	(Floeter *et al*. 2008; Carpenter, 2002b; Smith, 1971)
125		*Epinephelus striatus* (Bloch, 1792)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Randall, 1996; Kähsbauer, 1972; Smith, 1971)
126		*Hypoplectrus indigo* (Poey, 1851)	(Floeter *et al.* 2008; Carpenter, 2002b; Whiteman *et al*. 2007; Humann & DeLoach, 2014; Domeier, 1994; Goodson & Weisgerber, 1985)
127		*Hypoplectrus nigricans* (Poey, 1852)	(Puebla *et al*. 2014; Holt *et al*. 2011; Floeter *et al.* 2008; Whiteman, 2007; Carpenter, 2002b)
128		*Hypoplectrus puella* (Cuvier, 1828)	(Puebla *et al*. 2014; Holt *et al*. 2011; Puebla *et al*. 2009; Floeter *et al*. 2008; Whiteman, 2007; Carpenter, 2002b)
129		*Hypoplectrus unicolor* (Walbaum, 1792)	(Puebla *et al*. 2014; Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998)
130		*Mycteroperca bonaci* (Poey, 1860)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Smith, 1971)
131		*Rypticus bornoi* Beebe & Tee-Van, 1928	(Floeter *et al*. 2008; Guimarães, 1999)

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132		*Rypticus randalli* Courtenay, 1967	(Courtenay, 1967; Guimarães, 1999)
133		*Rypticus saponaceus* (Bloch & Schneider, 1801)	(Floeter *et al*. 2008; Guimarães, 1999)
134		*Rypticus subbifrenatus* Gill, 1861	(Baldwin & Weigt, 2012; Floeter *et al*. 2008; Guimarães, 1999)
135		*Serranus chionaraia* Robins & Starck, 1961	(Robins & Starck, 1961)
136		*Serranus luciopercanus* (Poey, 1852)	(Smith, 1997; Robins & Starck, 1961)
137		*Serranus maytagi* (Robins & Starck, 1961)	(Smith, 1997; Robins & Starck, 1961)
138		*Serranus tortugarum* (Longley, 1935)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Robins & Starck, 1961)
139	Chaetodontidae Rafinesque, 1815	*Prognathodes aculeatus* (Poey, 1860)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Hubbs, 1963)
140	Haemulidae Gill, 1885	*Haemulon aurolineatum* Cuvier, 1830	(Jaxion-Harm *et al*. 2012; Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Courtenay, 1961)
141		*Haemulon bonariense* Cuvier, 1830	(Floeter *et al*. 2008; Carpenter, 2002; Courtenay, 1961)
142		*Haemulon flavolineatum* (Desmarest, 1832)	(Jaxion-Harm *et al*. 2012; Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Courtenay, 1961)
143		*Haemulon plumierii* (Lacepede, 1801)	(Jaxion-Harm *et al*. 2012; Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Kähsbauer, 1972)
144		*Haemulon sciurus* (Shaw, 1803)	(Jaxion-Harm *et al*., 2012; Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Humann & DeLoach, 2014; Courtenay, 1961)
145	Grammatidae Jordan, 1887	*Lipogramma idabeli* Tornabene, Robertson & Baldwin, 2018	(Tornabene *et al*. 2018)
146	Lutjanidae Gill, 1861	*Lutjanus apodus* (Walbaum, 1792)	(Jaxion-Harm *et al*. 2012; Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Kähsbauer, 1972)
147	Order SCORPAENIFORMES Scorpaenidae Risso, 1827	*Pontinus nematophthalmus* (Gunther, 1860)	(Floeter *et al*. 2008; Eschmeyer, 1969)
148		*Scorpaena agassizii* Goode & Bean, 1896	(Eschmeyer, 1965)

No.	Order and family	Genus/species	References
149		*Scorpaena grandicornis* Cuvier, 1829	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Eschmeyer, 1965)
150	Order ACANTHURIFORMES Acanthuridae Bonaparte, 1835	*Acanthurus chirurgus* (Bloch, 1787)	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Randall, 1996)
151		*Acanthurus coeruleus* Bloch & Schneider, 1801	(Floeter *et al*. 2008; Carpenter, 2002a; Clifton & Clifton, 1998; Randall, 1996)
152	Order TETRAODONTIFORMES Ostraciidae Rafinesque, 1810	*Acanthostracion polygonius* Poey, 1876	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Tyler, 1965a, Tyler, 1965b)
153	Monacanthidae Nardo, 1843	*Cantherhines pullus* (Ranzani, 1842)	(Floeter *et al*. 2008; Carpenter, 2002b; Clifton & Clifton, 1998; Randall, 1964)
154	Tetraodontidae Bonaparte, 1831	*Sphoeroides greeleyi* Gilbert, 1900	(Figueiredo & Menezes, 2000)
155		*Sphoeroides testudineus* (Linnaeus, 1758) (+)	Code: MHN-CU 0301, actual paper
156		*Sphoeroides yergeri* Shipp, 1972	(Shipp, 1972)
157	Diodontidae Bonaparte, 1835	*Chilomycterus antennatus* (Cuvier, 1816)	(Floeter *et al*. 2008; Clifton & Clifton, 1998; Randall, 1996)
158		*Chilomycterus reticulatus* (Linnaeus, 1758)	(Floeter *et al*. 2008; Eschmeyer *et al*. 1983)
159		*Diodon holocanthus* (+) Linnaeus, 1758	(Floeter *et al*. 2008; Clifton & Clifton, 1998). Code: MHN-CU 0302, actual paper

DISCUSSION

Only 38% of the species, 46% of the genera, and 80% of the families mentioned in the literature were confirmed. This is not surprising. Floeter *et al*. (2008) only found 40 out of 48 families reported by Thresher (1991) and Bellwood (1996). Any occurrence mentioned in secondary sources regarding Honduras is based on a possible presence, if the species is reported in reefs of neighboring countries.

CONCLUSIONS

Most of the catalogued species (17%) belong to Labrisomidae, while most of the genera (13%) belong to Gobiidae, including two endemic species: *T. rubrigenis* and *E. lobeli.*

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Results show that from the 412 species, 162 genera, and 40 families believed to inhabit the reefs of Honduras, only 159 species, 76 genera, and 32 families are actually registered. The numbers obtained from secondary sources and databases could overestimate the diversity of species in Honduras. This review could also underestimate the number of species since it is not based on systematic fieldwork. Therefore, systematic sampling focused on the collection of samples for morphological and molecular records is necessary to fully document the diversity of this group of fish in Honduras.

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