

Annotated checklist of fishes at Jiquilisco Bay, El Salvador

by

Peter C. Phillips*

(Received for publication July 4, 1980)

Abstract: Ninety-eight species of fish are reported in an annotated checklist from Jiquilisco Bay, El Salvador. The systematic survey, including basic capture data, updates two previous short-term surveys of this large mangrove embayment. Three range extensions are also reported.

Faunal surveys in the neotropics are rare in the literature. Robins (1972), reviewing the status of survey collections and systematic research in the region, noted that mangrove estuaries and embayments have been the least studied of all habitats. Along the coast of El Salvador, only short-term collections of fishes have been made (Hildebrand 1925; Hernandez Rivas and Calderon 1974). A survey of the fisheries resources of Jiquilisco Bay, El Salvador, was conducted from September 1975 to November 1976 (Phillips and Cole 1978). I herein provide a validated checklist of fishes resulting from that survey.

DESCRIPTION OF THE SURVEY AREA

Jiquilisco Bay, a mangrove embayment of 121 km² stretches along 50 km of the Salvadorean coastline and is delimited by the Río Lempa to the west and the Río Grande de San Miguel to the east (Fig. 1). The bay is a series of meandering, mudbottomed canals through the mangroves; only near the bay mouth does a sand bottom predominate. The tropical climate of the area is characterized by a rainfall of 1800 to 2000 mm from May to October and a dry season from November to April (Phillips and Cole 1978).

MATERIAL AND METHODS

Six sampling stations were selected from 3 to 22 km from the bay mouth. Except for Station 1, located near the mouth, which had a sand bottom and clear waters, Stations 2-6 were located in the mangrove over mud bottom and turbid waters.

I sampled twice monthly at each station from September 1975 to November 1976. The principal gear used was a 5 m trynet towed for 45 min. To supplement

* Department of Forestry and Wildlife Management, University of Massachusetts, Amherst, Massachusetts, U.S.A. Present address: Escuela de Ciencias Biológicas, Universidad Nacional, Heredia, Costa Rica.

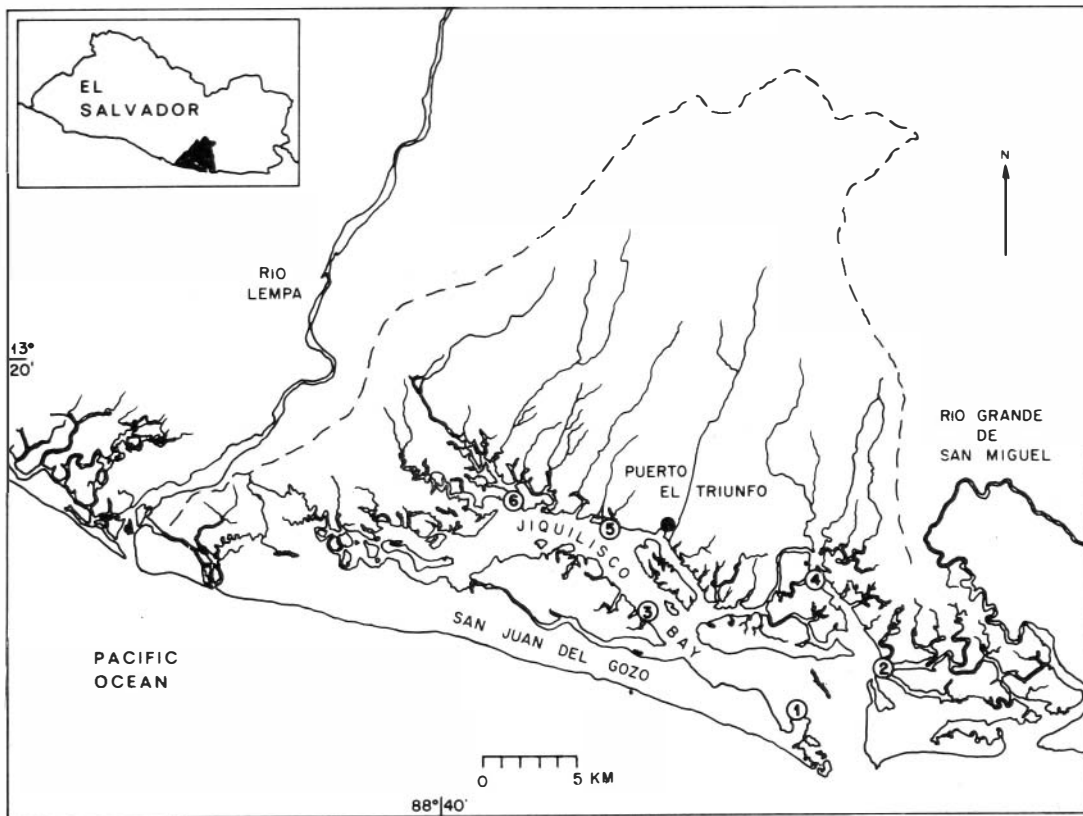


Fig. 1. Map of Jiquilisco Bay, El Salvador, with locations of six sampling stations. Area within the dotted line denotes the drainage basin.

the trynet data, a beach seine (Station 1 only), a gillnet and a castnet were occasionally used.

CHECKLIST OF FISHES

The annotated checklist of 98 species follows the phyletic order for teleosts of Greenwood *et al.* (1966). Within families, the species are arranged alphabetically. With few exceptions, vernacular names for each family are from Bailey *et al.* (1970).

Since there are no recent comprehensive keys to the fishes of the eastern tropical Pacific, references used for identification follow the species name. Many specimens, verified by various ichthyologists, have been deposited at institutions with which these specialists are affiliated.

The checklist also provides the number of specimens captured, size range, capture date, location, and gear. All measurements are total length. Remarks pertinent to some species are included.

Carcharhinidae (requiem sharks)

Carcharinus limbatus (Müller and Henle, 1841); Rosenblatt and Baldwin (1958), Kato *et al.* (1967).

1(58 cm), March 1976, Sta. 5, gillnet.

Sphyrnidae (hammerhead sharks)

Sphyrna lewini (Griffith and Smith, 1834); Fraser-Brunner (1950), Gilbert (1967).

2(49 cm), June 1976, Sta. 6, gillnet.

Dasyatidae (sting rays)

Urotrygon asterias (Jordan and Gilbert, 1882); Meek and Hildebrand (1923), Chirichigno (1974).

68(9-29 cm), October 1975, February, March, May, June, September-November 1976, Stas. 1,3,5, trynet. Sixty specimens were from Sta. 1.

Muraenidae (morays)

Gymnothorax dovii (Günther, 1870); J. E. McCosker (pers. comm. 1978).

1(60 cm), August 1976, Sta. 4, trynet.

Heterenchelyidae

Pythonichtys asodes Rosenblatt and Rubinoff, 1972; J. E. McCosker (pers. comm. 1978).

1(43 cm), January 1976, Sta. 4, trynet. *P. asodes* was first described by Rosenblatt and Rubinoff (1972) from specimens collected in Panamá Bay, the first Pacific Ocean record of a heterenchelyid eel. Its later capture in Gulf of Nicoya, Costa Rica and in Jiquilisco Bay, El Salvador represents a considerable northward range extension for *P. asodes* (McCosker and Phillips, 1979).

Ophichthidae (snake eels)

Myrichthys tigrinus Girard, 1859; J. E. McCosker (pers. comm. 1978).

1(50 cm), January 1976; 4(43 cm), October 1976; 1(39 cm), November 1976, Sta. 1; trynet.

Ophichthus zophichir (Jordan and Gilbert, 1881); J. E. McCosker (pers. comm. 1978).

1(35 cm), December 1975, Sta. 2; 1(65 cm), January 1976, Sta. 1; 2(50-56 cm), January 1976, Sta. 5; 2(25 cm), September 1976, Sta. 3; 1(31 cm), October 1976, Sta. 5; trynet.

Clupeidae (herrings)

Ilisha furthii (Steindachner, 1874); Peterson (1956).

1(31 cm), January 1976, Sta. 5; 1(31 cm), September 1976, Sta. 6; gillnet.

Lile stolidifera (Jordan and Gilbert, 1881); Peterson (1956).

385(3-15 cm), September-November 1975, January, February, June-September 1976, Stas. 1,3-6, trynet, castnet, beach seine. 369 specimens were taken in only a few beach seine hauls in January, February, September 1976 at Station 1.

Neopisthopterus tropicus (Hildebrand, 1946); Peterson (1956).

169(5-9 cm), March, July-November 1976, Stas. 3-6, trynet. Capture was principally confined to rainy season months.

Ophisthonema libertate (Günther, 1866); Peterson (1956), Berry and Barrett (1963).

74(15-23 cm), October 1975, May, July, August, November 1976, Stas. 1,5,6, trynet, gillnet. 63 specimens were gillnetted at high tide during July and August 1976 at interiormost Stations 5 and 6.

Engraulidae (anchovies)

3,183(3-15 cm), October-December 1975, January-November 1976, Stas. 1-6, trynet, castnet, beach seine. After completing field work and a re-examination of preserved specimens, P.J. Whitehead found them to be a species mix of *Anchoa panamensis* and *Anchovia rastralis*. Most were taken at Station 1. 1,951 were captured by trynet and 1,139 by beach seine. Consistent capture of very small specimens indicated continuous spawning activity.

Anchoa panamensis (Steindachner, 1875); P. J. Whitehead (pers. comm. 1979).

Anchovia rastralis (Gilbert and Pierson, 1898); P. J. Whitehead (pers. comm. 1979).

Synodontidae (lizardfishes)

Synodus scituliceps Jordan and Gilbert, 1881; Norman (1935).

19(7-31 cm), February-July, October 1976, Stas. 1,3,4,6, trynet.

Ariidae (sea catfishes)

Arius steindachneri (Gilbert and Starks, 1875); Meek and Hildebrand (1923).

40(17-27 cm), June-November 1976, Stas. 3-6, trynet, gillnet. The sea catfishes are among the most important food fishes in the bay. *A. steindachneri* was captured principally in the interiormost stations. This and the following species of sea catfish were taken only in rainy season months.

Bagre panamensis (Gill, 1863); Meek and Hildebrand (1923), Chirichigno (1974).

38(11-23 cm), May-September 1976, Stas. 1,2,4,6, trynet, gillnet. Most specimens (24) were taken in one trynet haul at high tide in August 1976 at Station 1.

Galeichthys jordani (Eigenmann and Eigenmann, 1888); Meek and Hildebrand (1923).

4,015(3-27 cm), September 1975-September, November 1976, Stas. 1-6, trynet, gillnet. *G. jordani* was the most abundant fish captured.

Batrachoididae (toadfishes)

Batrachoides sp. nov. Collette and Russo (1981) B. B. Collette (pers. comm. 1979). 235(30-37 cm), September, November, December 1975, January-July, September-November 1976, Stas. 1-6, trynet, castnet. Captured mainly at interior stations.

Porichthys greenei Gilbert and Starks, 1904; Hubbs and Schultz (1939).

102(3-9cm), September 1975-March, May-November 1976, Stas. 1-6, trynet.

Hemiramphidae (halfbeaks)

Hyporhamphus snyderi Meek and Hildebrand, 1923; B. B. Collette (pers. comm. 1978).

1(11 cm), June 1976, Sta. 1, beach seine; 10(13-17 cm), June and July 1976, Sta. 3, castnet.

Belonidae (needlefishes)

Strongylura scapularis (Jordan and Gilbert, 1881); B. B. Collette (pers. comm. 1978).

1(25 cm), June 1976, Sta. 1, beach seine. Capture of *S. scapularis* in Jiquilisco Bay represents a range extension, previous known range from Perú to Costa Rica

Tylosurus crocodilus fodiator Jordan and Gilbert, 1881; B. B. Collette (pers. comm. 1978).

2(35-41 cm), February 1976, Sta. 1, beach seine.

Poeciliidae (livebearers)

Poeciliopsis turrubarensis (Meek; 1912); R. R. Miller (pers. comm. 1978).

101(3-7 cm), October, November 1975, March, June, July 1976, Stas. 3-6, castnet. Only found in interior stations while castnetting among mangrove prop roots. All specimens were female.

Atherinidae (silversides)

1,932(3-17 cm), October-December 1975, January-March, June, July, September-November 1976, Stas. 1-6, trynet, castnet, beach seine. R. R. Miller identified a two-species mix among 63 specimens. Most (1,691) were captured by beach seine at Station 1.

Hubbsiella sardina (Jenkins and Evermann, 1888); R. R. Miller (pers. comm. 1978).

Capture in Jiquilisco Bay, El Salvador represents a significant range extension to the south.

Melaniris guatemalensis (Günther, 1869); R. R. Miller (pers. comm. 1978).

Fistulariidae (cornetfishes)

Fistularia commersoni Ruppell, 1835; Fritzsche (1976).

12(25-60 cm), November 1975-March, May-July, September 1976. Stas. 1,2,4, trynet.

Syngnathidae (seahorses)

Hippocampus ingens Girard, 1858; Ginsburg (1937).

35(5-17 cm), December 1975, February-July, September-November 1976, Stas. 1,2,3,5, trynet. Thirty specimens were taken at Station 1.

Scorpaenidae (scorpionfishes)

Scorpaena plumieri Bloch, 1789; Ginsburg (1953), Eschmeyer (1965).

15 (5 - 15 cm), March, April, July-September 1976, Stas. 1, 3,5, trynet, gillnet.

Triglidae (searobins)

Prionotus horrens Richardson, 1845; Teague (1951).

12 (3 - 13 cm), November 1975, January-March 1976, Stas. 1-3, 5,6, trynet.

Centropomidae (snooks)

Centropomus armatus Gill, 1863; T.H. Fraser (pers. comm. 1978).

9(9-23 cm), September, December 1975 - February 1976, Stas. 1-3 trynet, gillnet, castnet.

Centropomus nigrescens Günther, 1864; T.H. Fraser (pers. comm. 1978).

4(5-11 cm), October 1975, Sta. 2, trynet.

Centropomus robalito Jordan and Gilbert, 1869; T.H. Fraser (pers. comm. 1978).

1(31 cm), July 1976, Sta. 2, trynet.

Serranidae (sea basses)

Ephinephelus multiguttatus (Günther, 1866); Smith (1971).

64(3-15 cm), December 1975-May, July-October 1976, Stas. 1-6, trynet; 1(5 cm), October 1975, Sta. 6, castnet. Capture was greatest (58) in dry season months and at interior most stations.

Ephinephelus analogus Gill, 1864; Smith (1971).

27(5-23), February, March, May, July, September, October 1976, Stas. 1, 4-6, trynet. Most were captured at interior most stations.

Grammistidae (soapfishes)

Rypticus nigripinnis Gill, 1861; Chirichigno (1974).

394(5-21 cm), September 1975-November 1976, Stas. 1-5, trynet. Nearly all specimens (390) were captured at Stas. 1 and 2.

Apogonidae (cardinalfishes)

Apogon dovii Günther, 1861; G.H. Burgess (pers. comm. 1978).

2(5-7 cm), February 1976, Sta. 4, trynet.

Carangidae (jacks and pompanos)

Carangoides otrynter (Jordan and Gilbert, 1883); W. F. Smith - Vaniz (pers. comm. 1978).

1(21 cm), March 1976, Sta. 1, gillnet.

Caranx caballus Günther, 1858; W.F. Smith-Vaniz (pers. comm. 1978)

6(27-33 cm), April 1976, Sta. 3, gillnet; 2(17-23 cm), August and September 1976, Stas. 5 and 6, trynet.

Caranx hippos caninus Günther, 1869; W.F. Smith-Vaniz (pers. comm. 1978).

19(5-31 cm), October-December 1975, March-July, September, October

1976, Stas. 1-6, trynet, gillnet, castnet, W.F. Smith-Vaniz considers *C. caninus* Günther to be a subspecies of *C. hippos* (Linnaeus) from the eastern Pacific.

Chloroscombrus orqueta Jordan and Gilbert, 1882; W.F. Smith-Vaniz (pers. comm. 1978).

68(7-21 cm), April-October 1976, Stas. 1-4,6, gillnet. Most were captured at Station 1 and during the rainy season.

Nematistius pectoralis Gill, 1862; Meek and Hildebrand (1923), Chirichigno (1974). 1 (no measurement), July 1976, Sta. 2, gillnet.

Oligoplites altus (Günther, 1869); W.F. Smith-Vaniz (pers. comm. 1978).

14(3-7 cm), June and July 1976, Sta. 1, beach seine; 13 (3-17 cm). February, March, July, September 1976, Stas. 3-5, trynet, castnet.

Selene brevoortia (Gill, 1863); W.F. Smith-Vaniz (pers. comm. 1978).

77(7-18 cm), March-August 1976, Stas. 1-3, 5,6, trynet; 1(19 cm), March 1976, Sta. 1, gillnet.

Selene oerstedii Lütken, 1880; W. F. Smith-Vaniz (pers. comm. 1978).

1(15 cm), August 1976, Sta. 5, trynet; 2(15-23 cm), September 1976, Sta. 1, trynet.

Selene peruvianus (Guichenot, 1865); W.F. Smith-Vaniz (pers. comm. 1978).

20(13-21 cm), March-July, September 1976, Stas. 1-4,6, trynet, gillnet.

Trachinotus kennedyi Steindachner, 1875; W. F. Smith-Vaniz (pers. comm. 1978).

1(13 cm), August 1976, Sta. 5, trynet.

Lutjanidae (snappers)

Hoplopagrus guntheri Gill, 1862; Walford (1937).

1(5 cm), October 1975, Sta. 1, trynet.

Lutjanus argentiventris (Peters, 1869); Walford (1937).

13(11-29 cm), September 1975, January, February, July-September 1976, Stas. 1-3,6, trynet; 1(21 cm), August 1976, Sta. 2, gillnet.

Lutjanus guttatus Steindachner, 1875; Walford (1937).

9(7-19 cm), October 1975, February, March, September, October 1976, Stas. 1,2,4, trynet.

Gerreidae (mojarras)

Eucinostomus argenteus (Baird and Girard, 1854); C. L. Hubbs (pers. comm. 1977).

1,333(3-29 cm), September-December 1975, February-October 1976, Stas. 1-6, trynet, gillnet, castnet, beach seine. Capture was principally at Station 1, near the bay mouth.

Eucinostomus sp. nov. Zahuranec and Hubbs, MS; C.L. Hubbs (pers. comun. 1977).

No capture data exists for the one specimen.

Eugerres peruvianus (Cuvier and Valenciennes, 1830); C.L. Hubbs (pers. comm. 1977).

1,510 (3-31 cm), September 1975-November 1976, trynet, gillnet, castnet. Capture occurred principally (74% at Stas. 5 and 6).

Gerres cinereus (Walbaum, 1792); C.L. Hubbs (pers. comm. 1977).

9(3-29 cm), September, October 1975, September 1976, Stas. 2,5,6, trynet.

Pomadasyidae (grunts)

Anisotremus dovii (Günther, 1864); Chirichigno (1974).

19(5-17 cm), February-October 1976, Stas. 1,4-6, trynet.

- Anisotremus pacifici* (Günther, 1864); Chirichigno (1974).
64(3-19 cm), October 1975-October 1976, Stas. 1-6, trynet.
- Brachydeuterus leuciscus* (Günther, 1864); Chirichigno (1974).
133(3-29 cm), October-December 1975, February-September 1976, Stas. 1-6, trynet, gillnet.
- Brachydeuterus nitidus* (Steindachner, 1869); Chirichigno (1974).
45(5-25 cm), September 1975-March, June-October 1976, Stas. 1-6, trynet, gillnet, castnet.
- Orthopristis chalceus* (Günther, 1864); Chirichigno (1974).
2(15 cm), May 1976, Sta. 1, trynet.
- Xenichthys xanti* Gill, 1863; G.H. Burgess (pers. comm. 1978).
1(15 cm), June 1976, Sta. 1, trynet.

Sciaenidae (drums)

- Bairdiella ensifera* (Jordan and Gilbert, 1881); L. N. Chao (pers. comm. 1977).
34(3-21 cm), September, November 1975, May-August 1976, Stas. 2,4-6, trynet, gillnet.
- Cynoscion phoxocephalus* Jordan and Gilbert, 1881; L.N. Chao (pers. comm. 1977).
337(3-25 cm), November 1975-November 1976, Stas. 1-6, trynet, gillnet, castnet.
- Cynoscion squamipinnis* (Günther, 1869); McPhail (1958), Chirichigno (1974).
37(3-17 cm), June-October 1976, Stas. 3,4,6, trynet.
- Cynoscion stolzmanni* (Steindachner, 1879); L.N. Chao (pers. comm. 1977).
1(34 cm), June 1976, Sta. 6, gillnet.
- Isopisthus remifer* Jordan and Gilbert, 1881; McPhail (1958).
1(22 cm), February 1976, Sta. 2, gillnet.
- Larimus acclivis* Jordan and Bristol, 1898; L. N. Chao (pers. comm. 1977).
1(5 cm), November 1975, trynet; 1(15 cm), April 1976, trynet; 2(21 cm), February 1976, gillnet; Stas. 1,3.
- Menticirrhus nasus* (Günther, 1869); L. N. Chao (pers. comm. 1977).
20(3-23 cm), October, December 1975-March, May, June, September 1976, Stas. 1-3,5, trynet. Unlike other sciaenids in Jiquilisco Bay, *M. nasus* was usually captured (55 %) at Station 1 near the bay mouth.
- Micropogon altipinnis* Günther, 1864; L. N. Chao (pers. comm. 1977).
56(3-21 cm), November 1975, January-May 1976, Stas. 3-6, trynet, gillnet, castnet.
- Ophioscion sciara* (Jordan and Gilbert, 1884); L. N. Chao (pers. comm. 1977).
171(3-17 cm), September, December 1975, January, March-September, November 1976, Stas. 2-6, trynet.
- Ophioscion typicus* Gill, 1863; McPhail (1958).
77(3-17 cm), June-September 1976, Stas. 3-6, trynet.
- Paralonchurus dumerilii* (Bocourt, 1869); L. N. Chao (pers. comm. 1977).
1(18 cm), March 1976, Sta. 5, trynet.
- Stellifer oscitans* (Jordan and Gilbert, 1881); L. N. Chao (pers. comm. 1977).
790(3-19 cm), October, November 1975, February, May-September, November 1976, Stas. 1-4,6, trynet, gillnet, castnet. *S. oscitans* was the most abundant sciaenid.

Mullidae (goatfishes)

- Pseudupeneus grandisquamis* (Gill, 1863); Meek and Hildebrand (1923), Chirichigno (1974).

44(3-19 cm), October-December 1975, March-July, September, October 1976, Stas. 1-6, trynet.

Ephippidae (spadefishes)

Chaetodipterus zonatus (Girard, 1858); Meek and Hildebrand (1928), Chirichigno (1974).

74(3-21 cm), October 1975-November 1976, trynet; 2(13-15 cm), March 1976, gillnet; Stas. 1,2.

Parapsettus panamensis Steindachner, 1875; Meek and Hildebrand (1928), Chirichigno (1974).

1(5 cm), April 1976, Sta. 1, trynet.

Chaetodontidae (butterflyfishes)

Chaetodon humeralis Günther, 1860; Hubbs and Rehnitz (1958), Chirichigno (1974).

43(3-9 cm), February-November 1976, Stas. 1,3-6, trynet.

Cichlidae (cichlids)

Sarotherodon mossambicus (= *Tilapia mossambica*) (Peters, 1852).

1(17 cm), October 1976, Sta. 6, trynet, introduced species.

Mugilidae (mulletts)

Mugil cephalus Linnaeus, 1758; Ebeling (1961).

154(3-43 cm), September-November 1975, January-March, June, July, October 1976, Stas. 1-6, trynet, gillnet, castnet, beach seine.

Sphyraenidae (barracudas)

Sphyraena ensis Jordan and Gilbert, 1878; Meek and Hildebrand (1923), Chirichigno (1974).

1(37 cm), February 1976, 1(39 cm), June 1976, Sta. 2, trynet.

Polynemidae (threadfins)

Polydactylus approximans (Lay and Bennett, 1839); Myers (1936).

90(5-29 cm), November 1975-September 1976, Stas. 1-6; trynet, gillnet, castnet.

Gobiidae (gobies)

Dormitator latifrons (Richardson, 1844); C. E. Dawson (pers. comm. 1978).

1(9 cm), November 1975, Sta. 3; 1(24 cm), June 1976, Sta. 6; trynet.

Enypnius seminudus (Günther, 1861); R. S. Birdsong (pers. comm. 1978).

13(3-5 cm), December 1975-February, April, September and November 1976, Stas. 3-6, trynet.

Gobionellus sagittula (Günther, 1861); C. E. Dawson (pers. comm. 1978).

17(7-15 cm), December 1975, February-April, June, July 1976, Stas. 3-6, trynet.

Gobionellus microdon (Gilbert, 1891); C. E. Dawson (pers. comm. 1978).

1(no measurement), June 1976, Sta. 6, trynet.

Microgobius tabogensis Meek and Hildebrand, 1928; R. S. Birdsong (pers. comm. 1978).

34(3-7 cm), November 1975-March, June, July, September-November 1976, Stas. 1-6, trynet, castnet.

Parrella lucretiae (Eigenmann and Eigenmann, 1888); R.S. Birdsong (pers. comm. 1978).

47(3-9 cm), January, February 1976, Stas. 5,6, trynet.

Scombridae (mackerels)

Scomberomorus sierra Jordan and Starks, 1895; B. B. Collette (pers. comm. 1978).

4(43-49 cm), March, April 1976, Stas. 3,6, gillnet; 1(4 cm), July 1976, Sta. 4, castnet.

Bothidae (lefteye flounders)

Citharichthys gilberti Jenkins and Evermann, 1869; C. E. Dawson (pers. comm. 1978).

154(3-17 cm), December 1975-November 1976, Stas. 1-6, trynet, castnet, beach seine. Most were captured by trynet and at Station 1.

Cyclosetta panamensis (Steindachner, 1875); C. E. Dawson (pers. comm. 1978).

119(5-29 cm), December 1975-November 1976, Stas. 1-6, trynet, gillnet. Most were captured by trynet and at Station 1.

Etopus crossotus Jordan and Gilbert, 1881; C. E. Dawson (pers. comm. 1978).

230(3-15 cm), December 1975-November 1976, Stas. 1-6, trynet. Capture was mainly at Station 1.

Soleidae (soles)

Achirus spp., C.E. Dawson (pers. comm. 1978).

1,905(3-21 cm), September 1975-November 1976, Stas. 1-6, trynet. At least two species were captured. *Achirus* spp. were a consistent component of the bottom fauna, 1,731 specimens were taken at Station 1.

Trinectes fimbriatus (Günther, 1862); C. E. Dawson (pers. comm. 1978).

1(7 cm), October 1975, Sta. 1; 5(7-9 cm), December 1975, Sta. 1; 1(3 cm), February 1976, Sta. 3; trynet.

Cynoglossidae (tonguefishes)

Symphurus atricaudus (Jordan and Gilbert, 1880); C. E. Dawson (pers. comm. 1978).

212(5-19 cm), February-October 1976, Stas. 1-6, trynet. *S. atricaudus* was most abundant at interiormost stations.

Symphurus elongatus (Günther, 1869); C. E. Dawson (pers. comm. 1978).

343(3-21 cm), September 1975-September, November 1976, Stas. 1-6, trynet.

Balistidae (triggerfishes)

Pseudobalistes naufragium (Jordan and Starks, 1895); Berry and Baldwin (1966).

1(11 cm), November 1976, Sta. 1, trynet.

Tetraodontidae (puffers)

Sphoeroides annulatus (Jenyns, 1842); R. L. Shipp (pers. comm. 1978).

6(13-33 cm), October, November 1976, Sta. 1, trynet.

Sphoeroides lobatus (Steindachner, 1870); R. L. Shipp (pers. comm. 1978).

9(9-21 cm), March, April 1976, Sta. 1, trynet.

Sphoeroides sp. nov., R. L. Shipp (pers. comm. 1978).

339(3-31 cm), September 1975-November 1976, Stas. 1-6, trynet, castnet, beach seine.

DISCUSSION

Hildebrand (1925) collected 18 species of fish at El Triunfo, the principal port in Jiquilisco Bay, in a one day visit. Years later Hernandez Rivas and Calderon (1974) identified 56 species in a 6 month survey inventory. The present annotated checklist updates the previous listings with 98 species, the majority of whose identifications have been validated by recognized specialists.

Since the principal sampling gear used was the trynet, the relative numbers of the different species captured reflect a bias in favor of demersal fishes. It is important to mention this since species such as lutjanids, centropomids, clupeids and mugilids, which are an important component of the local artesanal fishery, were not captured in substantial numbers in the present study. Bay fishermen utilize gillnets to capture these fishes, while I only occasionally fished with a gillnet.

The single ariid species, *Galeichthys jordani*, accounted for 20% of all individuals captured in the study. This species, while comprising a substantial part of the local fishery, is not considered a choice fish and has limited commercial value. The most speciose family was the Sciaenidae, with 12 species captured in Jiquilisco Bay. The sciaenids are of great commercial value, especially those of the genus *Cynoscion*.

Of special interest are the range extensions reported for *Strongylura scapularis* northward from Perú, *Hubbsiella sardina* southward from the Gulf of California and *Pythonichthys asodes* northward from Panamá Bay. Capture of the latter led to the second published discovery of this heterenchelyid eel since its initial description (McCosker and Phillips 1979).

ACKNOWLEDGMENTS

Appreciation goes to the U. S. Peace Corps, El Salvador, and the Servicio de Recursos Pesqueros of the Ministerio de Agricultura y Ganadería, El Salvador. Materials for collection and transport of specimens were provided by L. W. Knapp, Smithsonian Oceanographic Sorting Center. J. R. Burns, George Washington University, reviewed the manuscript. The following specialists kindly took the time to identify specimens sent to them: R. S. Birdsong, Old Dominion University, G. H. Burgess, Florida State Museum, L. N. Chao, formerly of the Museum of Natural Sciences, Ottawa, B. B. Collette, NMFS Systematics Laboratory, C. E. Dawson, Gulf Coast Research Laboratory, T. H. Fraser, Environmental Quality Laboratory, Inc., Port Charlotte, Florida, the late C. L. Hubbs, Scripps Institution of Oceanography, J. E. McCosker, Steinhart Aquarium, California Academy of Sciences, R. R. Miller, University of Michigan Museum of Zoology, R. L. Shipp, University of South Alabama, W. F. Smith-Vaniz, Academy of Natural Sciences of Philadelphia and P. J. Whitehead, British Museum (Natural History).

This paper was based on the author's masters thesis submitted to the Graduate School, University of Massachusetts, Amherst, Massachusetts, USA.

RESUMEN

Se dan noventa y ocho especies de peces en una cuenta sistemática anotada de la bahía de Jiquilisco, El Salvador. Este inventario, incluyendo datos básicos sobre captura, substituye a dos inventarios preliminares de esta laguna de manglar. También se informa de tres extensiones de ámbito geográfico.

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