

MINISTERIE VAN ONDERWIJS, KUNSTEN EN WETENSCHAPPEN
ZOOLOGISCHE MEDEDELINGEN

UITGEGEVEN DOOR HET

RIJKSMUSEUM VAN NATUURLIJKE HISTORIE TE LEIDEN

DEEL XXXI, No. 17

11 Februari 1952

**A PRELIMINARY LIST OF SURINAM FISHES NOT
INCLUDED IN EIGENMANN'S ENUMERATION OF 1912**

by

Dr. M. BOESEMAN

Rijksmuseum van Natuurlijke Historie, Leiden

In his valuable report on the freshwater fishes of British Guiana, Eigenmann (1912, pp. 64-73) gave a list of the species, together with comparable lists on the freshwater fishes of the adjacent regions. In sharp contrast with the number of 266 species reported from the Essequibo area only, the total amount of Surinam species proved to be but 118!

Although since Eigenmann compiled these lists some more species have been reported from Surinam, the general situation has remained essentially the same, clearly showing the backward state of ichthyological research in this area.

A possibility to improve our knowledge of this subject came when during the last four years the Rijksmuseum van Natuurlijke Historie received several more or less extensive collections of fishes from various parts of Surinam, on a small part of which two short reports have already been published (Boeseman, 1948a, b). However, as it was thought advisable to include all Surinam material available, the investigations thereof and the subsequent preparation of a comprehensive report would obviously take several years.

On account of this, it was considered useful to published some preliminary results of the investigations on the first part of our still rapidly growing collection of Surinam material. As this publication is meant to be principally of faunistic importance, all species already mentioned in Eigenmann's list (l.c.) have been omitted.

Potamotrygon hystrix (Müller & Henle).

1 ex., embryonic, in creek, Coppenam River Trail to Table Mountain (line III), 1st

camp at km 5.7, Emma Range of Mountains, November, 1944, Dr. D. C. Geijskes, total length 23 cm.

1 ex., ♀, Right Coppenam River, Cremer Falls, October, 1944, Dr. D. C. Geijskes, total length 54.5 cm (tail mutilated), length to anus 26 cm.

1 ex., ♂, Surinam River, near Joden savanne, March, 1946, Dr. D. C. Geijskes, total length 80 cm (tail mutilated), length to anus 45 cm, to end of claspers 60 cm.

In a letter Dr. Geijskes gives the following data on the first specimen: "total length of mother 100 cm; tail 40 cm; spine 10.5 cm; width of disc 57 cm; distance between eyes 10 cm; coloration: grey-brown marbled, ventral surface white, borders spotted; contained 10 embryonal young specimens. Caught in a small creek in the woods, 2 m wide, 1 foot deep, bottom gravel and sand. Probably so far up the creek to cast young, otherwise only in rivers and big creeks".

This species has already been reported from Surinam.

Vernacular name: *liba spari*.

Selenaspis passany (Cuvier & Valenciennes).

1 ex., Coppenam Point, January, 1943, Dr. D. C. Geijskes, total length 340 mm.

1 ex., Nickerie, salt water swamp, February, 1943, Dr. D. C. Geijskes, total length 600 mm.

According to Eigenmann's list (1912) this species was known already from Demerara and French Guiana, consequently it was expected to occur in Surinam. The present record seems to be the first report from that area.

Vernacular name: *pani* or *pani pani*.

Notarius grandicassis (Cuvier & Valenciennes).

1 ex., Coppenam Point, December, 1942, Dr. D. C. Geijskes, total length 36.8 cm.

1 ex., 25 miles off the coast, before outlet of Saramacca and Surinam Rivers, April, 1946, Dr. D. C. Geijskes, total length 34.5 cm.

Although this species seems to be essentially marine, it is noted here because it was included in Eigenmann's list. According to Puyo (1949, pp. 60-64), this species, *Notarius parmocassis* (C. V.), and *N. stricticassis* (C. V.), all have about the same habits, are generally found in and before the great estuaries, and seldom, if ever, venture upstreams.

This species is new for Surinam.

Notarius parmocassis (Cuvier & Valenciennes).

1 ex., 25 miles off the coast, before outlet of Saramacca and Surinam Rivers, April, 1946, Dr. D. C. Geijskes, total length 49 cm.

A principally marine species (see *N. grandicassis*), hitherto well known from Brazil, French Guiana, and British Guiana. New for Surinam.

Hexanematchthys rugispinis (Cuvier & Valenciennes).

2 ex., Surinam River, Paramaribo, April 2, 1943, Dr. D. C. Geijskes, total length 175, 197 mm.

Already known to occur in Surinam waters (Van der Stigchel, 1946, p. 33).
Vernacular name: kupila(?).

Rhamdia quelen (Quoy & Gaimard).

1 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 173 mm.

1 ex., Nanni creek, Doksen savanna, October 3, 1941, Dr. D. C. Geijskes, total length 305 mm.

1 ex., Surinam River, Paramaribo, April 2, 1943, Dr. D. C. Geijskes, total length 220 cm.

In accordance with Van der Stigchel's (1946, pp. 51, 52) views, I provisionally regard *quelen* and *sebae* as synonyms.

This species has already been reported from Surinam by several authors (cf. Van der Stigchel, 1946, pp. 48-50).

Vernacular name: djaki.

Hemisorubim platyrhynchos (Cuvier & Valenciennes).

1 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 390 mm.

This species had not yet been reported from Surinam.

Trachycorystes galeatus (Linnaeus).

3 ex., Nanni creek, Doksen savanna, October 3, 1941, Dr. D. C. Geijskes, total length 156-162 mm.

1 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 93 mm.

Already reported from Surinam by several authors (cf. Van der Stigchel, 1946, p. 100).

Vernacular name: noja, tinganoli.

Auchenipterus demerarae Eigenmann.

4 ex., Surinam River, near Joden savanna, January, 1946, Dr. D. C. Geijskes, total length 119-136 mm.

One of the specimens has rather thick maxillary barbels, reaching beyond pectoral base, possibly a sexual character?

Hitherto not reported from Surinam.

Vernacular name: botro mantji.

Helogenes marmoratus Günther.

1 ex., Section O, Bush creek, November 4, 1942, Dr. D. C. Geijskes, total length 37 mm.

9 ex., Coppenam River, Krutu Mountain Creek, November, 1943, Dr. D. C. Geijskes, total length 32-55 mm.

New for Surinam.

Pygidium guianense Eigenmann.

1 ex., Wilhelmina Mountains, Trail II km 17, Sand creek, September 24, 1943, Dr. D. C. Geijskes, total length 20 mm.

Reported by Eigenmann from the Upper Potaro River only. I have found no previous report for Surinam.

Pygidium conradi Eigenmann.

1 ex., Makambi creek, September 27, 1938, Dr. D. C. Geijskes, total length 18.5 mm.

New for the Surinam fauna.

Plecostomus watwata (Hancock).

1 ex., sea coast near Surinam River outlet, August, 1944, Dr. D. C. Geijskes, total length 323 mm.

2 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 105, 110 mm.

According to Eigenmann (1912) and Puyo (1949, p. 104), this species was well known from Brazil, French Guiana, and British Guiana, but had not yet been reported from Surinam.

Vernacular name: zee kwikwi (sea kwikwi).

Hemiancistrus schomburgkii (Günther).

1 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 83 mm.

Van der Stigchel (1946, p. 151) already mentioned a specimen from the Surinam River, collected by the same expedition.

Hartia loricariformis Steindachner.

1 ex., Coropina, Nanni creek, near Paramaribo,? October, 1946, Dr. D. C. Geijskes, total length 156 mm.

A single specimen collected by the Coppenam Expedition was already mentioned by Van der Stigchel (1946, p. 180; this author accidentally interchanged the descriptions of *H. loricariformis* Steind. and *H. platystoma* (Günther), pp. 180-182).

Bivibranchia protractila Eigenmann.

1 ex., Lucie River, December, 1910, Corantyne Expedition, K. M. Hulk, total length 30 mm.

The most important character of this species is the protractile mouth. It had not yet been reported from Surinam.

Curimatopsis macrolepis Steindachner.

3 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 32-37 mm.

Characterized by the short lateral line; the species was not yet reported from Surinam.

Curimatella alburna (Müller & Troschel).

1 ex., Coropina, Nanni creek, near Paramaribo,? October 3, 1941, Dr. D. C. Geijskes, length 70 mm (tail without caudal fin).

1 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 79 mm.

This genus has been distinguished from *Curimatus* principally on account of the scaly caudal fin. This character lacking, the identification of the first specimen is not completely certain.

The present is the first definite record for Surinam.

Curimatus spilurus Günther.

2 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 48-57 mm.

1 ex., (Upper?) Saramacca River, 1902, Saramacca Expedition, P. J. de Kock, total length 103 mm.

4 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 51-63 mm.

2 ex., Surinam, (Upper Corantyne River?), Corantyne Expedition, 1910-'11, K. M. Hulk, total length 45-46 mm.

6 ex., Kentufu, Tapanahoni, August 18, 1904, Tapanahoni Expedition, G. M. Versteeg, total length 40-59 mm.

A rather common species, already mentioned for Surinam by Popta (1914-1917, p. 258, 259).

Vernacular name: maka fisi.

Curimatus microcephalus Eigenmann & Eigenmann.

11 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 102-140 mm.

1 ex., Coropina, Nanni creek, near Paramaribo,? October, 1946, Dr. D. C. Geijskes, total length 118 mm.

Although not included in his list, this species was mentioned from Surinam in Eigenmann's text (1912, p. 265); even the type came from that area.

Prochilodus rubrotaeniatus (Schomburgk).

2 ex., Coppenam River, Langa Sula, December, 1944, Dr. D. C. Geijskes, total length 235-330 mm.

1 ex., Lucie River, November 30, 1910, Corantyne Expedition, K. M. Hulk, total length 220 mm.

This is the first record for Surinam.

Vernacular name: alumasse?

Hemiodus semitaeniatus Kner.

1 ex., Lucie River, November, 1910, Corantyne Expedition, K. M. Hulk, total length 91 mm.

Identification not completely certain, comparison with further material is necessary. Scales 11-56-6.

This species is new for Surinam.

Hemiodus quadrimaculatus Pellegrin.

1 ex., Corantyne River, about 3° 29' N., December 22, 1910, Corantyne Expedition, K. M. Hulk, total length 59 mm.

Eigenmann (l.c.) and Puyo (1949, p. 121) both mention this species from French and British Guiana only. It must be new for Surinam.

Copeina arnoldi Regan.

3 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 33-42 mm.

This species hitherto has probably been mistaken for *Pyrrhulina filamentosa* C.V., although it can easily be distinguished by its single row of premaxillary teeth. It is new for the Surinam fauna.

Nannostomus marginatus Eigenmann.

1 ex., Zanderij I, Bush creek, May 27, 1941, Dr. D. C. Geijskes, total length 26 mm.

4 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length about 25 mm.

I have not been able to find a report of this species from Surinam, so it must be regarded as new for that area.

Nannostomus anomalus Steindachner.

1 ex., Coropina creek, Republiek, March 9, 1947, Dr. D. C. Geijskes, total length 29 mm.

1 ex., Makambi creek, Surinam, September 27, 1938, Dr. D. C. Geijskes, total length 25 mm.

Numerous ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length about 20-30 mm.

Since the synonymy of *N. simplex* Eigenmann with *N. anomalus* Steindachner has practically been proved, the occurrence of this species in

Surinam was to be expected. The present record seems to be the first from that area.

Anostomus anostomus (Linnaeus).

2 ex., Tugumutu, Upper Saramacca, February 9 and 15, 1903, Saramacca Expedition, P. J. de Kock, total length 98-100 mm.

New for Surinam.

Schizodon fasciatus (Spix).

1 ex., Marowini River, Albina, May 16, 1945, Dr. D. C. Geijskes, total length 200 mm.

This species has been reported from Surinam by Popta in the *Encyclopaedie van Nederlandsch West-Indië* (1914-1917, p. 622), a publication generally overlooked as a source for ichthyological information.

Vernacular name: njamsi fisi, kulumata.

Leporinus maculatus Müller & Troschel.

1 ex., Surinam (Upper Saramacca?), Saramacca Expedition 1902-'03, P. J. de Kock, total length 97 mm.

2 ex., Lucie River and Corantyne River (about 3° 39' N.), December 1 and 22, 1910, Corantyne Expedition, K. M. Hulk, total length 52, 41 mm.

According to Eigenmann (1912) and Puyo (1949, p. 125) this species has been reported from French and British Guiana only; it is consequently new for the Surinam fauna.

Leporinus granti Eigenmann.

1 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 87 mm.

Known from the Rio Branco Basin; new for Surinam.

Leporinus alternus Eigenmann.

1 ex., Coropina, Nanni creek, near Paramaribo, (? October 1946), Dr. D. C. Geijskes, total length 160 mm.

1 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 87 mm.

Reported by Eigenmann from the lower Essequibo and from the Lower Potaro River; new for Surinam.

Crenuchus spilurus Günther.

Several ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length about 35-50 mm.

New for Surinam.

Piabucus dentatus (Koelreuter).

9 ex., Joden savanna, January 19, 1946, Dr. D. C. Geijskes, total length 116-137 mm.
1 ex., Paramaribo, March 2, 1939, H. W. C. Cossee, total length 145 mm.

Eigenmann reported this species from Demerara, while, according to aquarium literature, it was known to inhabit "the Guiana countries". The present record seems, however, to be the first accurate report from Surinam.

Vernacular name: kreekee adjenu.

Moenkhausia oligolepis (Günther).

10 ex., Coppenam River, Langa Sula, July 27, 1943, Dr. D. C. Geijskes, total length 38-59 mm.

4 ex., Saramacca, about 27° N., 47' W., January 5, 1903, Saramacca Expedition, P. J. de Kock, total length 55-71 mm.

3 ex., Tugumutu River, March 1, 1903, Saramacca Expedition, P. J. de Kock, total length 70-84 mm.

7 ex., Lucie River, November and December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 39-65 mm.

This species was known to occur in British Guiana (Potaro River, cf. Eigenmann), Brazil, Bolivia, and Peru (Fowler, 1948, p.153); it is new for Surinam.

Vernacular name: bōkōjō.

Moenkhausia bondi (Fowler).

1 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 99 mm.

A very remarkable aspect of the capture of this specimen is that it was caught together with 11 specimens of *Ephippicharax orbicularis* (C. V.), a species distinguished from *bondi* practically only by the possession of a procumbent predorsal spine. This species is new for Surinam.

Vernacular name: wetifisi, wetibere sreeba.

Moenkhausia grandisquamis (Müller & Troschel).

24 ex., Surinam River, near Joden savanna, November, 1945, Dr. D. C. Geijskes, total length 46-80 mm.

1 ex., Tracé Fallawatra, Coppenam River, August-September, 1901, Coppenam Expedition, H. A. Boon, total length 70 mm.

1 ex., Surinam, (Saramacca?), ?August 29, 1902, Saramacca Expedition, P. J. de Kock, total length 49 mm.

5 ex., Lucie River, November and December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 52-65 mm.

This species should have been included by Eigenmann in his list, as the type locality is Surinam (Fowler, 1948, p. 147).

Vernacular name: as previous species.

Moenkhausia chrysargyrea (Günther).

3 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 75-83 mm.

1 ex., Marowini Basin, autumn 1951, don. E. C. Stol, length 68 mm (caudal fin missing).

This species was hitherto known from the Amazon area and British Guiana only; it is consequently new for Surinam.

Moenkhausia megalops (Eigenmann).

1 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 41 mm.

Known from the Lower Amazon and from British Guiana; new for Surinam.

Moenkhausia colletti (Steindachner).

1 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 31 mm.

Known from the Amazon Basin and from British Guiana; new for Surinam.

Pristella riddlei (Meek).

1 ex., Paramaribo, in ditch, June, 1938, Dr. D. C. Geijskes, total length 34 mm.

30 ex., Paramaribo, Plantation Kwatta (Paramaribo), Post Groningen (Samamacca), August and September, 1911, Jhr. W. C. van Heurn, total length 15-32 mm.

The present record seems to be the first official report of the species from Surinam, although its occurrence in that region has been suggested in aquarium literature.

Hemigrammus unilineatus Gill.

2 ex., Section O, Bush creek, November 4, 1942, Dr. D. C. Geijskes, total length 23-37 mm.

37 ex., Surinam River, Plantation Kwatta, Gold Placer, Paramaribo, August-October, 1911, Jhr. W. C. van Heurn, total length 21-45 mm.

4 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 33-42 mm.

The species was already known from French and British Guiana; it is new for Surinam.

Hemigrammus ocellifer (Steindachner).

A few ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length about 25-35 mm.

A few specimens of this species have been kept for some time in an aquarium. As the known distribution included British and French Guiana,

the occurrence in Surinam waters, as already suggested in aquarium literature, was to be expected. The present record, however, seems to be the first official report from that area.

Hemigrammus rodwayi Durbin.

9 ex., Paramaribo, 1911, Jhr. W. C. Van Heurn, total length 29-43 mm.

Already known from Demerara and French Guiana; it is new for the Surinam fauna.

Hemigrammus micropterus Meek.

20 ex., Coropina creek, near Republiek, March 9, 1947, Dr. D. C. Geijskes, total length 25-34 mm.

7 ex., Paramaribo and Plantation Kwatta, (August), 1911, Jhr. W. C. van Heurn, total length 25-37 mm.

A short report on the first 20 specimens has already been published (Boeseman, 1948a).

Hyphessobrycon heterorhabdus (Ulrey).

Several ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length about 20-30 mm.

Known from the Lower Amazon; new for Surinam.

Creotochanes affinis (Günther).

1 ex., Surinam River, near Joden savanna, January, 1946, Dr. D. C. Geijskes, total length 41 mm.

2 ex., Lucie River, December (1), 1910, Corantyne Expedition, K. M. Hulk, total length 37.5-42 mm.

I have also seen some specimens from the Marowini River. Although an occurrence in the Surinam waters has been presumed in aquarium literature, this seems to be the first report.

Vernacular name: peegel, njanga njanga.

Creotochanes caudomaculatus (Günther).

1 ex., Surinam River, near Joden savanna, January, 1946, Dr. D. C. Geijskes, total length 81 mm.

Distribution (cf. Fowler, 1948, p. 87): Amazonas, Guiana, Colombia. The present is the first record from Surinam.

Vernacular name: peegel, njanga njanga.

Poecilurichthys polylepis (Günther).

15 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 35-51 mm.

1 ex., Tracé Fallawatra, Coppenam River, August-September, 1901, Coppenam Expedition, H. A. Boon, total length 54 mm.

3 ex., Saramacca River, about 27° N., 47' W., January 5, 1903, Surinam, (Upper Saramacca?), without date, Saramacca Expedition, P. J. de Kock, total length 54-62 mm.

12 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 32-55 mm.

Has already been reported from Surinam by Popta (1914-'17, p. 575).

Poecilurichthys abramoides (Eigenmann).

1 ex., Surinam, (Upper Saramacca?), ?August 29, 1902, Saramacca Expedition, P. J. de Kock, total length 46 mm.

New for Surinam.

Deuterodon pinnatus Eigenmann.

38 ex., Gran Rio, August, 1910, Corantyne Expedition, K. M. Hulk, total length 21-34 mm.

According to Eigenmann known from the Lower Potaro and the Lower Essequibo; the species is now for the first time reported from Surinam.

Chalceus macrolepidotus (Cuvier).

2 ex., Surinam (Corantyne area ?), Corantyne Expedition, 1910-'11, K. M. Hulk, total length 230-250 mm.

3 ex., Lucie River, November, November 10, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 92-215 mm.

1 ex., Kentufu, Tapanahoni, about 3° 30' N., 55° 18' W., August 18, 1904, Tapanahoni Expedition, G. M. Versteeg, total length 68 mm.

Reported from Surinam by Popta (1914-'17, p. 201).

Vernacular name: morokò.

Ephippicharax orbicularis (Cuvier & Valenciennes).

4 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 56-69 mm.

99 ex., Surinam River, near Joden savanna, November (29), December, 1945, Dr. D. C. Geijskes, total length 41-109 mm.

1 ex., (Upper?) Saramacca River, 1902, Saramacca Expedition, P. J. de Kock, total length 73 mm.

Two of the specimens captured near Joden savanna (November 29?, 1945, Dr. D. C. Geijskes) show a differently shaped predorsal spine: leaf-shaped, not hastate. Eleven specimens from that locality (Dec. 1945) were captured together with a single specimen of the almost identical species *Moenkhausia bondi* (Fowler).

This species has already been reported from Surinam (*Tetragonopterus compressus* Günther, 1864, p. 319).

Vernacular name: weti-fisi, wetibere sreeba.

Triportheus rotundatus (Günther).

10 ex., Surinam River, near Joden savanna, January, 1946, Dr. D. C. Geijskes, total length 95-157 mm.

1 ex., Surinam, without further data, length 165 mm (caudal fin damaged).

New for the Surinam fauna, but was already supposed to inhabit that region according to aquarium literature.

Vernacular name: saa-dian, prosignon.

Carnegiella strigata (Günther).

8 ex., Coropina creek, Republiek, March 9, 1947, Dr. D. C. Geijskes, total length 30-37 mm.

Numerous ex., Marowini Basin, summer 1951, don. E. C. Stol, various sizes.

All specimens seem to belong to the variety *vesca* Fraser-Brunner (1951, pp. 41, 42). The present record is the first from Surinam.

Brachyhalcinus (copei) Steindachner?).

1 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 32 mm.

Of the two species of this genus, *retrospina* Boulenger has been found in the Paraguay Basin only, while the probably synonymous *Br. copei* Steind. has been reported from Tabatinga and the Beni Basin. As of both these species I have seen the descriptions given by Eigenmann & Myers (1929, pp. 508 & 509) only, our specimen may still prove to be a new species. However this may be, it is new for Surinam.

Serrasalmo gymnogenys Günther.

5 ex., (Upper?) Saramacca River, 1902 and November 15, 1902, Saramacca Expedition, P. J. de Kock, total length 114-145 mm.

1 ex., Mindrineti creek, November 5, 1902, Saramacca Expedition, P. J. de Kock, total length 120 mm.

1 ex., Surinam, December, 1896, Van der Hoek, total length 102 mm.

Already known from British and French Guiana; new for Surinam.

Vernacular name: peering, marjanna peering.

Pygocentrus piraya (Cuvier).

1 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 350 mm.

This species has already been reported from Brazil, French Guiana, and Demerara, and from Surinam by Popta (1914-'17, p. 593). Although Puyo (1949, p. 146) uses the name *P. piraya* for the Guiana specimens, they pos-

sibly will prove to belong to the closely related species *Rooseveltiella nattereri* (Kner).

Vernacular name: peering.

Pygopristis denticulatus (Cuvier).

2 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 120-122 mm.

1 ex., Marowini Basin, summer 1951, don. E. C. Stol, total length 85 mm.

Reported from Demerara by Eigenmann. New for Surinam.

Myleus pacu (Schomburgk).

1 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 98 mm.

This species has been reported from Surinam by Popta (1914-'17, p. 499).

Myloplus rubripinnis (Müller & Troschel).

2 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 88-225 mm.

2 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 45-59 mm.

New for Surinam.

Vernacular name: mambé, bé aba.

Cynodon gibbus Spix.

7 ex., Surinam River, near Joden savanna, November 29, 1945, Dr. D. C. Geijskes, total length 267-300 mm (all with caudal fin damaged).

I have found no previous record for Surinam.

Vernacular name: agenu, kokotiaba, prosignon.

Cynopotamus essequibensis Eigenmann.

1 ex., Surinam River, near Joden savanna, January, 1946, Dr. D. C. Geijskes, total length 170 mm.

New for Surinam.

Vernacular names: kodò, kodjàh, wetibere sreeba.

Acestrorhynchus microlepis (Schomburgk).

2 ex., Surinam River, near Joden savanna, December, 1945, Dr. D. C. Geijskes, total length 168-205 mm.

Known from Brazil, French and British Guiana. New for Surinam.

Vernacular name: dagu fisi, zadu.

Hoplias macrophthalmus (Pellegrin).

1 ex., Gran Rio, September 9, 1910, Corantyne Expedition, K. M. Hulk, total length 325 mm.

This species has been reported from Surinam by Popta (1914-'17, p. 365). According to a short note by Hulk, it "lives near the cataracts".

Vernacular name: anjumara.

Hypopomus brevirostris (Steindachner).

2 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 130-132 mm.

New for Surinam.

Hypopomus artedi (Kaup).

5 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 130-220 mm.

New for Surinam.

Steatogenys elegans (Steindachner).

3 ex., Marowini Basin, autumn 1951, don. E. C. Stol, total length 60-75 mm.

Known from the Lower Amazon and from British Guiana (Demerara).
New for Surinam.

Gymnorhamphichthys hypostomus Ellis.

1 ex., Makambi creek, Surinam, September 27, 1938, Dr. D. C. Geijskes, total length 86 mm.

Reported by Eigenmann from the Lower Potaro River. New for Surinam.

Tarpon atlanticus (Cuvier & Valenciennes).

1 ex., sea coast near Surinam River outlet, Pondopan, August 9, 1944, Dr. D. C. Geijskes, total length 290 mm.

1 ex., Paramaribo, March 2, 1939, H. W. C. Cossee, total length 184 mm.
34 scales, 10 from lateral line, Surinam, 1911, Jhr. W. C. van Heurn.

Reported from Surinam by Popta (1914-'17, p. 676).

Vernacular name: trapun.

Odontognathus mucronatus Lacépède.

32 ex., Surinam River, near plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 55-128 mm.

Known from Demerara, seems hitherto not to have been reported from Surinam.

Stolephorus spinifer (Cuvier & Valenciennes).

4 ex., Surinam River, near plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 51-64 mm.

1 ex., Paramaribo, Surinam River, August, 1944, Dr. D. C. Geijskes, total length 188 mm.

Well known from French and British Guiana, hitherto not reported from Surinam.

Vernacular name: krafana.

Pterengraulis atherinoides (Linnaeus).

1 ex., Surinam, Dr. J. Th. Noordijk, received August, 1887, total length 120 mm.

I wonder why Eigenmann did not include this species in his list of Surinam fishes, as Linnaeus's type came from that area.

Lycengraulis grossidens (Agassiz).

4 ex., Surinam River, near plantation Peperpot, August 12, 1944, Dr. D. C. Geijskes, total length 208-280 mm.

New for Surinam.

Vernacular name: krafana.

Rivulus urophthalmus Günther.

1 ex., Coppenam River, Langa Sula, July 25, 1943, Dr. D. C. Geijskes, total length 48 mm ("in bush in small pool").

3 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 30-40 mm.

1 ex., Surinam, December, 1896, Van der Hoek, total length 38 mm.

2 ex., Lucie River, November, 30, 1910, Corantyne Expedition, K. M. Hulk, total length 33, 37 mm.

5 ex., Paramaribo and neighbourhood, 1911, July-August, 1911, Jhr. W. C. van Heurn, total length 28-46 mm.

13 ex., Post Groningen, Saramacca River, September, 1911, Jhr. W. C. van Heurn, total length 17-36 mm.

All specimens show the following characters: D 6-8; A 11-14; sc. 37-43; predorsal sc. 28-32. This species was known to occur in British and French Guiana; in aquarium literature it has been presumed that it occurs in Surinam waters. The present record, however, is the first from that area.

Rivulus breviceps Eigenmann.

7 ex., Gold Placer, October, 1911, Jhr. W. C. van Heurn, total length 16.5-29 mm (♀), 22.5-35 mm (♂).

D 8-9; A 11; sc. 33-35; predorsal sc. about 23.

Known from British Guiana (Lower Potaro River). New for Surinam.

Rivulus holmiae Eigenmann.

11 ex., Table Mountain, 1st creek, November 6, 1943, Dr. D. C. Geijskes, total length 23-65 mm (♀), 28-46 mm (♂).

11 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 44-73 mm.

2 ex., Gold Placer, October, 1910, Jhr. W. C. van Heurn, total length 51 (♀), 56 (♂) mm.

D 10-11; A 15-18; sc. about 50; predorsal sc. about 38.

Known from the Upper Potaro River. New for Surinam.

Rivulus waimacui Eigenmann.

6 ex., Table Mountain, 1st creek, November 6, 1943, Dr. D. C. Geijskes, total length 16-50 mm.

D. 9; A 15-16; sc. more than 50; predorsal sc. 35.

Known from the Lower Potaro River. New for Surinam.

Rivulus frenatus Eigenmann.

1 ex., Section O, Bush Creek, November 4, 1942, Dr. D. C. Geijskes, total length 23 mm.

D 7; A 11; sc. 40; predorsal sc. 23.

Known from the Lower Essequibo. New for Surinam.

Rivulus harti (Boulenger).

3 ex., Paramaribo, June, 1911, Jhr. W. C. van Heurn, total length 23-35 mm.

D 8-9; A 15; sc. 39-40; predorsal sc. about 33.

This species hitherto has been reported from Eastern Colombia, the coastal area of Venezuela, and the neighbouring islands only, but even the few characters given above seem to leave no other possibility (Regan, 1912, pp. 495, 496). Nevertheless it remains strange that this species hitherto never has been reported from British Guiana. It is, of course, new for Surinam.

Anableps microlepis Müller & Troschel.

1 ex., Coppenam Point, January, 1942, Dr. D. C. Geijskes, total length 290 mm.

1 ex., Surinam, 1860, without further data, total length 315 mm.

1 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 62 mm.

Reported from Surinam by Popta (1914-'17, p. 44).

Vernacular name: kutai.

Lebistes reticulatus (Peters).

24 ex., Paramaribo, in ditches, June, 1938, Dr. D. C. Geijskes, total length 17-40 mm. (1 ♂, 20 mm).

20 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 15-27 mm (13 ♂♂).
247 ex., Post Groningen, Saramacca River, September, 1911, Jhr. W. C. van Heurn,
total length 7-34 mm (23 ♂♂).

Reported from Surinam by Popta (1914-'17, p. 575).

Micropoecilia branneri (Eigenmann)?

2 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 32-33 mm (♀♀).

These specimens in general, and especially in coloration, very much agree with the literature on this species, except in the number of anal rays (10), which makes the identification slightly dubious. *Micropoecilia branneri* has not yet been reported from Surinam.

Micropoecilia picta (Regan).

2 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 25-27 mm (♂♂).

This species has not yet been reported from Surinam.

Tomeurus gracilis Eigenmann.

44 ex., Post Groningen, Saramacca River, September, 1911, Jhr. W. C. van Heurn,
total length 15-30 mm (♀♀), 28-33 mm (♂♂).

New for Surinam.

Mugil brasiliensis Agassiz.

1 ex., outlet Surinam River, August, 1944, Dr. D. C. Geijskes, total length 530 mm.

Reported from Surinam by Popta (1914-'17, p. 483).

Mugil incilis Hancock.

1 ex., Coppenam River, Tonckens Falls, December, 1944, Dr. D. C. Geijskes, total
length 295 mm.

1 ex., sea coast near Surinam River, Pondopan, August 9, 1944, Dr. D. C. Geijskes,
total length 295 mm.

81 ex., Paramaribo, Surinam River, (Aug.), 1911, Jhr. W. C. van Heurn, total
length 43-110 mm.

This species was already known to occur in Surinam waters (cf. Puyo,
1949, p. 185).

Vernacular name: aarder.

Cynoscion steindachneri (Jordan & Eigenmann).

1 ex., sea coast near Surinam River outlet, Pondopan, August 9, 1944, Dr. D. C.
Geijskes, total length 310 mm.

1 ex., Paramaribo, market, June, 1942, Dr. D. C. Geijskes, total length 280 mm.

1 ex., Surinam, Dr. J. Th. Noordijk, received August, 1887, total length 84 mm.

4 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 18-153 mm.

Well known from French and British Guiana. New for Surinam.

Vernacular name: witee witee.

Stellifer rastrifer Jordan & Eigenmann.

8 ex., Surinam River, near plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 58-107 mm.

6 ex., 25 miles off the coast near Saramacca and Surinam River outlet, April, 1946, Dr. D. C. Geijskes, total length 144-192 mm.

2 ex., Marowini coast, Wia-wia bank, May, 1945, Dr. D. C. Geijskes, total length 166-185 mm.

2 ex., Paramaribo, Surinam River near plantation Peperpot, August 12, 1944, Dr. D. C. Geijskes, total length 160-170 mm.

1 ex., Coronie sea coast, Bokelbere Creek, March 14, 1945, Dr. D. C. Geijskes, total length 154 mm.

1 ex., Surinam, sea coast, Dr. D. C. Geijskes, total length 155 mm.

This species hitherto never seems to have been reported from Surinam.

Vernacular name: zoutuwatra kubi (salt water kubi), kroro sororo.

Stellifer microps (Steindachner).

1 ex., Paramaribo, Surinam River near plantation Peperpot, August 12, 1944, Dr. D. C. Geijskes, total length 115 mm.

This is the first accurate record of this species from Surinam.

Vernacular name: stonkubi.

Stellifer stellifer Bloch.

14 ex., Surinam River near plantation Peperpot, December 22, 1942, Dr. D. C. Geijskes, total length 65-98 mm.

First accurate report from Surinam.

Centropomus undecimalis (Bloch).

1 ex., sea coast near Surinam River outlet, Pondopan, August 9, 1944, Dr. D. C. Geijskes, total length 295 mm (to tip lower jaw).

1 ex., salt water swamp, plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 385 mm.

1 ex., Coppenam Point, January, 1942, Dr. D. C. Geijskes, total length 412 mm.

1 ex., Surinam, Dr. J. Th. Noordijk, received August, 1887, total length 56 mm.

1 ex., Paramaribo, March 2, 1939, H. W. C. Cossee, total length 115 mm.

1 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 168 mm.

Eigenmann ought to have included this species in his list, as it was already known to occur in Surinam.

Centropomus ensiferus Poey.

1 ex., Marowini coast, Wia-wia bank, May, 1945, Dr. D. C. Geijskes, total length 205 mm.

1 ex., Coronie sea coast, Bokelbere creek, March 14, 1945, Dr. D. C. Geijskes, total length 170 mm.

2 ex., salt water swamp, plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 223, 245 mm.

1 ex., Paramaribo, 1911, Jhr. W. C. van Heurn, total length 152 mm.

New for the Surinam fauna, known from French and British Guiana.

Vernacular name: kartasnookoo.

Centropomus parallelus Poey.

1 ex., Coppenam Point, January, 1943, Dr. D. C. Geijskes, total length 395 mm.

This species has already been reported from Surinam by Fowler (1906, p. 425: *C. heringi* Fowler).

Vernacular name: snook.

Chaetobranchius flavescens (Heckel).

4 ex., Nanni creek, Doksen savanna, October, 1941, Dr. D. C. Geijskes, total length 196-235 mm.

2 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 120-132 mm.

1 ex., Upper(?) Saramacca River, 1902, Saramacca Expedition, P. J. de Kock, total length 132 mm.

Hitherto not reported from Surinam.

Vernacular name: kunapari, kamara paru, ouwi weifi.

Nannacara anomala Regan.

3 ex., Zanderij I, savanna streamlet, September 2, 1942, Dr. D. C. Geijskes, total length 20-25 mm.

1 ex., Makambi creek, September 27, 1938, Dr. D. C. Geijskes, total length 23.5 mm.

1 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 77 mm.

1 ex., Paramaribo, in ditch, June, 1938, Dr. D. C. Geijskes, total length 48 mm.

3 ex., plantation Kwatta, Paramaribo, August, 1911, Jhr. W. C. van Heurn, total length 22-36 mm.

New for Surinam.

Aequidens vittatus (Heckel).

1 ex., Coropina creek, Republiek, October, 1946, Dr. D. C. Geijskes, total length 162 mm.

2 ex., Zanderij I, upper part Coropina creek, April 28, 1943, Dr. D. C. Geijskes, total length 43-49 mm.

6 ex., Zanderij I, savanna streamlet, September 2, 1942, Dr. D. C. Geijskes, total length 38-53 mm.

1 ex., Upper Saramacca River, 1902, Saramacca Expedition, P. J. de Kock, total length 142 mm.

2 ex., Surinam, (Upper Saramacca?), Saramacca Expedition, 1902-'03, P. J. de Kock, total length 47-73 mm.

New for Surinam.

Vernacular name: krobia, ouwe wefi (old wife).

Aequidens tetramerus (Heckel).

2 ex., Nanni creek, Doksen savanna, October 3, 1941, Dr. D. C. Geijskes, total length 118-190 mm.

Hitherto not reported from Surinam.

Vernacular name: kunapari, kamara paru.

Aequidens geayi (Pellegrin).

5 ex., Surinam, (Upper Saramacca?), Saramacca Expedition, 1902-'03, P. J. de Kock, total length 54-68 mm.

10 ex., Jan-basi-gado (about 4° N.), December, 1902, Saramacca Expedition, P. J. de Kock, total length 50-64 mm.

16 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 18-105 mm.

2 ex., Surinam, (Upper Corantyne River?), Corantyne Expedition, 1910-'11, K. M. Hulk, total length 30-33 mm.

This species has been reported from Surinam by Popta (1914-'17, p. 31).

Vernacular name: ouru mujè, ouru wefee.

Geophagus jurupari Heckel.

5 ex., Lucie River, November 12, 1910, Corantyne Expedition, K. M. Hulk, total length 9-10 mm.

This species has been reported from French and British Guiana, but up to now never from Surinam.

Apistogramma steindachneri Regan (non Eigenmann).

1 ex., Lucie River, December 1, 1910, Corantyne Expedition, K. M. Hulk, total length 55 mm.

1 ex., Surinam, (Upper Corantyne River?), Corantyne Expedition, 1910-'11, K. M. Hulk, total length 42.5 mm.

New for Surinam.

Crenicichla alta Eigenmann.

1 ex., Surinam, (Upper Saramacca River?), Saramacca Expedition, 1910-'11, P. J. de Kock, total length 114 mm.

Reported from Surinam by Popta (1914-'17, p. 244).

Vernacular name: djonkodjo mantuari, donfò.

Polycentrus schomburgkii Müller & Troschel.

1 ex., Nickerie, Nanni creek, irrigation dyke, February 12, 1942, Dr. D. C. Geijskes, total length 45 mm.

1 ex., Kabelstation, Surinam River, September 21-28, 1938, Dr. D. C. Geijskes, total length 29 mm.

7 ex., Paramaribo, in ditches, June, 1938, Dr. D. C. Geijskes, total length 22-37 mm.

5 ex., Paramaribo and plantation Kwatta, August, 1911, Jhr. W. C. van Heurn, total length 22-42 mm.

The present record seems to be the first for Surinam, although an occurrence in that area has been suggested in aquarium literature.

Dormitator maculatus (Bloch).

1 ex., Surinam, Dr. J. Th. Noordijk, received August, 1887, total length 150 mm.

1 ex., Paramaribo, March 2, 1939, H. W. C. Cossee, total length 110 mm.

First report from Surinam.

Eleotris amblyopsis (Cope).

2 ex., Nickerie, Nanni creek, irrigation dyke, February 12, 1942, Dr. D. C. Geijskes, total length 22-23 mm.

7 ex., Paramaribo, in ditches, June, 1938, Dr. D. C. Geijskes, total length 35-55 mm.

1 ex., swamps behind Cultuurtuin, District Beneden Suriname, March 10, 1939, H. W. C. Cossee, total length 78 mm.

7 ex., Paramaribo, (June), 1911, Jhr. W. C. van Heurn, total length 30 (caudal fin mutilated) - 53 mm.

The type came from Surinam.

Colomesus psittacus (Bloch; Schneider).

7 ex., Commewyne River, near Zoelen, November 18, 1940, Dr. D. C. Geijskes, total length 57-76 mm.

3 ex., Surinam River, near plantation Resolutie, December 22, 1942, Dr. D. C. Geijskes, total length 29-40 mm.

18 ex., Paramaribo, (June), 1911, Jhr. W. C. van Heurn, total length 21-47 mm.

1 ex., Post Groningen, Saramacca River, September, 1911, Jhr. W. C. van Heurn, total length 59 mm.

This species has already been reported from Surinam by Popta (1914-'17, p. 210).

REFERENCES

- BOESEMANN, M. 1948a. On new, little known, or otherwise interesting species of Surinam fishes. Proc. Kon. Ned. Akad. Wet., Amsterdam, vol. 51, no. 3, pp. 3-11, 1 fig.
- , 1948b. Some preliminary notes on Surinam stingrays, including the description of a new species. Zool. Meded. Mus. Leiden, vol. 30, no. 2, pp. 31-47, 2 figs.
- EIGENMANN, C. H., 1912. The freshwater fishes of British Guiana, including a study of the ecological grouping of species, and the relation of the fauna of the plateau to that of the lowlands. Mem. Carnegie Mus., vol. 5, 578 pp., 103 pls., 39 figs.
- EIGENMANN, C. H. & G. S. MYERS, 1929. The American Characidae. Part 5. Mem. Mus. Comp. Zool. Harvard, vol. 43, pp. 429-558, 11 pls.
- FOWLER, H. W., 1906. Description of two new species of *Centropomus*. Proc. Acad. Nat. Sci. Philadelphia, vol. 58, pp. 423-428, 2 figs.

- FOWLER, H. W., 1948. Os peixes de agua doce do Brasil. Arq. Zool. Sao Paulo, vol. 6, 204 pp., 237 figs.
- FRAZER-BRUNNER, A., 1951. The hatchet-fishes (Family Gasteropelecidae). The Aquarium, Philadelphia, vol. 20, no. 2, pp. 39-44, 10 figs.
- GÜNTHER, A., 1864. Catalogue of the Fishes in the British Museum, vol. 5. London, xxii, 455 pp.
- HOLLY, M., H. MEINKEN, & A. RACHOW, 1934- . Die Aquarienfische in Wort und Bild. Stuttgart.
- POPTA, C., 1914-1917. Encyclopaedie van Nederlandsch West-Indië (Fishes). 's-Gravenhage & Leiden, xi, 782 pp., 3 charts.
- PUYO, J., 1949. Poissons de la Guyane Française. Faune de l'Empire Française, Paris, vol. 12, 280 pp., 139 figs.
- STIGCHEL, J. W. B. VAN DER, 1946. South American Nematognathi. Dissertation, Leiden, 204 pp., 3 tables, 2 figs. (Reprinted in Zool. Meded. Mus. Leiden, vol. 27, 1947).