

- Heterogaster notatipes*, Walk. loc. cit. p. 73. n. 9, = *Heterogaster urticae*, Fabr.
 — *atriclava*, Walk. loc. cit. n. 10, = *Nysius contiguus*, Walk.
Rhyparochromus armatipes, Walk. loc. cit. p. 91. n. 116, = *Dieuches armipes*, Fabr.
 — *luscinus*, Walk. loc. cit. p. 93. n. 120, = *Dieuches luscus*, Fabr.
 — *concinulus*, Walk.* loc. cit. n. 121, = *Tropistethus seminitens*, Puton.
 — *testaceipes*, Walk. loc. cit. p. 101. n. 160, = *Dieuches punctipes*, Dohrn.
 — *delineatus*, Walk. loc. cit. p. 103. n. 169, = *Pamera pallicornis*, Dall.
 — *terminalis*, Walk. loc. cit. p. 105. n. 173, = *Narbo biplagiatus*, Walk.
 — *alienus*, Walk. loc. cit. n. 175, = *Lethæus descriptus*, Walk.
 — *inornatus*, Walk. loc. cit. p. 112. n. 196, = *Pamera nigriceps*, Dall., var.
Gastrodes terminalis, Walk. loc. cit. p. 122. n. 3, = *Clerada apicicornis*, Sign.
Ischnodemus multilinea, Walk. loc. cit. p. 131. n. 29, = *Aphanus albofasciatus*, Stål.
 — *centralis*, Walk. loc. cit. p. 132. n. 31, = *Macropes spinimanus*, Motsch.
Ophthalmicus cinerascens, Walk. loc. cit. n. 138, n. 31, = *Geocoris tricolor*, Fabr.
Cymus truncatulus, Walk. loc. cit. p. 142. n. 15, = *Ischnorhynchus geminatus*, Fabr.
Thaumastopus? alacer, Walk. loc. cit. p. 147. n. 2, = *Noualhiera quadri-punctata*, Brull.
 — ? *alacris*, Walk. loc. cit. n. 2 (duplicated), = *Cnemodus mavortius*, Say.
Anthocoris suberuciatus, Walk. loc. cit. p. 151. n. 15, = *Oxycarenus maculatus*, Stål.

To be treated as non-existent.

Species the types of which are not now to be found in the British Museum.

Rhyparochromus serripes, Walk. Cat. Het. v. p. 92. n. 117 (1872).

— *collaris*, Walk. loc. cit. p. 111. n. 195.

Ischnodemus longus, Walk. loc. cit. p. 127. n. 8.

Anisocoris punctifer, Walk. loc. cit. p. 148. n. 1.

Rhyparochromus circumcinctus, Walk. Cat. Het. v. p. 97. n. 147 (1872), = an immature form of a Lygæid.

Ischnodemus strigatus, Walk. loc. cit. p. 130. n. 27. Type in very bad condition.

LXII.—*List of the Fishes of the Characinid Genus Distichodus, Müll. & Trosch., with a Key to their Identification.*
 By G. A. BOULENGER, F.R.S.

I. Sq. 37-57 $\frac{7-9}{10-12}$.

A. Snout not compressed.

1. D. 16-18, separated from the adipose by a space equal to its base.

A. 15-16; Sq. 38-41 $\frac{7}{8-9}$; 6 or 7 scales

between lateral line and ventral; caudal

lobes pointed 1. *D. notospilus*, Gthr.

* The species standing under Walker's name, though not agreeing with description (*Horvath*).

- A. 19-21; Sq. 37-39 $\frac{7}{10}$; 7 scales between lateral line and ventral; caudal lobes rounded 2. *D. affinis*, Gthr.
- A. 21-22; Sq. 40-42 $\frac{9}{11-12}$; 9 scales between lateral line and ventral; caudal lobes rounded 3. *D. altus*, Blgr.
2. D. 20, separated from the adipose by a space equal to $\frac{2}{3}$ its base.
- A. 16; Sq. 45 $\frac{9}{10}$; 8 scales between lateral line and ventral 4. *D. noboli*, Blgr.
- B. Snout a little compressed; D. 18-19, separated from the adipose by a space equal to its base.
- A. 12-13; Sq. 53-57 $\frac{8}{10-11}$; 6 scales between lateral line and ventral 5. *D. hypostomatus*, [Pellegr]
- II. Sq. 60-110 $\frac{10-20}{13-25}$.
- A. Snout deeper than long, broad or feebly compressed.
1. Sq. 60-78 $\frac{10-15}{13-17}$.
- a. D. 19, separated from the adipose by a space nearly equal to its base.
- A. 11; Sq. 70-75 $\frac{9-10}{10-12}$; 7 or 8 scales between lateral line and ventral 6. *D. maculatus*, Blgr.
- b. D. 22-27, separated from the adipose by a space much shorter than its base.
- a. Interorbital width nearly twice length of snout.
- D. 22; A. 16; Sq. 68 $\frac{13}{15}$ 7. *D. Petersii*, Pfeff.
- β . Interorbital width not more than $1\frac{1}{2}$ length of snout.
- D. 22-25; A. 13-15; Sq. 60-66 $\frac{10-12}{12-13}$ 8. *D. Antonii*, Schilth.
- D. 22-24; A. 13-15; Sq. 68-77 $\frac{13-14}{14-15}$ 9. *D. atrovventralis*, Blgr.
- D. 25-27; A. 14-16; Sq. 68-78 $\frac{13-15}{14-16}$; interorbital width not greater than length of snout 10. *D. fasciolatus*, Blgr.
- D. 26-27; A. 14-16; Sq. 67-69 $\frac{13-14}{13-14}$; interorbital width $1\frac{1}{2}$ length of snout 11. *D. mossambicus*, Ptrs.
2. Sq. 80-110 $\frac{15-20}{16-25}$.
- D. 20-21; A. 13-15; Sq. 80-90 $\frac{17-20}{23-25}$ 12. *D. brevipinnis*, Gthr.
- D. 23-25; A. 14-16; Sq. 85-98 $\frac{15-16}{16-20}$ 13. *D. rostratus*, Gthr.
- D. 23-26; A. 13-15; Sq. 95-110 $\frac{18-20}{20-25}$ 14. *D. niloticus*, L.
- B. Snout deeper than long, strongly compressed.
- D. 23-24; A. 13; Sq. 80-82 $\frac{14-15}{16-17}$ 15. *D. engycephalus*, Gthr.

- D. 24-25; A. 12-14; Sq. 60-68 $\frac{14-16}{14-16}$ 16. *D. sexfasciatus*, Blgr.
 C. Snout longer than deep, not compressed.
 D. 24-26; A. 13-14; Sq. 70-85 $\frac{15-18}{15-18}$ 17. *D. lusosso*, Schilth.

1. *Distichodus notospilus*.

Günth. Ann. & Mag. N. H. (3) xx. 1867, p. 114; Bouleng. Poiss. Congo, p. 186 (1901).

Gaboon, Ogowé, Congo.

2. *D. affinis*.

Günth. Ann. & Mag. N. H. (4) xii. 1873, p. 144; Bouleng. l. c. p. 187. *D. abbreviatus*, Peters, Mon. Berl. Ac. 1876, p. 845.

Congo.

3. *D. altus*.

Bouleng. Ann. Mus. Congo, Zool. i. p. 80, pl. xxxv. fig. 1 (1899), and l. c. p. 188.

Congo.

4. *D. noboli*.

Bouleng. Ann. Mus. Congo, Zool. i. p. 81, pl. xxxv. fig. 2 (1899), and l. c. p. 189.

Congo.

5. *D. hypostomatus*.

Pellegrin, Bull. Mus. Paris, 1900, p. 351.

Ogowé.

6. *D. maculatus*.

Bouleng. Ann. Mus. Congo, Zool. i. p. 27, pl. xiii. fig. 1 (1898), and l. c. p. 190.

Congo.

7. *D. Petersii*.

Pfeffer, Thierw. O.-Afr., Fische, p. 41 (1896).

Kingani R., German East Africa.

8. *D. Antonii*.

Schilthuis, Tijdschr. Nederl. Dierk. Ver. (2) iii. 1891, p. 89; Bouleng. l. c. p. 191.

Congo.

9. *D. atroventralis*.

Bouleng. Ann. Mus. Congo, Zool. i. p. 28, pl. xiii. fig. 2 (1898), and l. c. p. 192.

Congo.

10. *D. fasciolatus*.

Bouleng. Ann. Mus. Congo, Zool. i. p. 27, pl. xiv. (1898), and *l. c.* p. 193.
Congo.

11. *D. mossambicus*.

Peters, Mon. Berl. Ac. 1852, p. 275, and Reise n. Mossamb. iv. p. 71,
pl. xiii. fig. 1 (1868).

D. schenga, Peters, *ll. cc.* pp. 276, 74, pl. xiii. fig. 2.

D. macrolepis, Günth. Cat. Fish. v. p. 362 (1864).

Zambesi and Shiré River.

12. *D. brevipinnis*.

Günth. Cat. Fish. v. p. 361 (1864), and in Petherick's Trav. ii. p. 247,
pl. iii. fig. C (1869); Steind. Sitzb. Ak. Wien, lxi. i. 1870, p. 547,
pl. iii. fig. 1.

White Nile, Senegal.

13. *D. rostratus*.

Günth. Cat. Fish. v. p. 360 (1864), and in Petherick's Trav. ii. p. 246,
pl. iii. fig. B (1869).

D. Martini, Steind. Sitzb. Ak. Wien, lxi. i. 1870, p. 549, pl. iii. fig. 2.

Nile, Senegal, Niger.

14. *D. niloticus*.

Salmo niloticus, Linn. in Hasselq. Iter, p. 378 (1757).

Salmo ægyptiacus, Gmel. S. N. i. p. 1386 (1788).

Characinus nefasch, Lacép. Hist. Poiss. v. p. 274 (1803); Geoffr.
Descr. Egypte, p. 44, pl. v. fig. 1 (1809).

Distichodus niloticus, Müll. & Trosch. Hor. Ichth. i. p. 12, pl. i. fig. 3
(1845); Günth. Cat. Fish. v. p. 360 (1864).

Distichodus nefasch, Cuv. & Val. Hist. Poiss. xxii. p. 175 (1849).

Distichodus rudolphi, Günth. P. Z. S. 1896, p. 223; Vinciguerra, Ann.
Mus. Genova, (2) xix. 1898, p. 258.

Nile, L. Rudolf.

15. *D. engycephalus*.

Günth. Cat. Fish. v. p. 361 (1864), and in Petherick's Trav. ii. p. 247
(1869).

White Nile.

16. *D. sexfasciatus*.

Bouleng. Ann. & Mag. N. H. (6) xx. 1897, p. 425, and *l. c.* p. 194.

Congo.

17. *D. lusosso*.

Schilthuis, Tijdschr. Nederl. Dierk. Ver. (2) iii. 1891, p. 90; Bouleng.
l. c. p. 195.

D. leptorhynchus, Bouleng. Ann. & Mag. N. H. (6) xx. 1897, p. 425.

Congo.

Distichodus Marnoi, Steind. Sitzb. Ak. Wien, lxxxiii.
i. 1881, p. 200, is founded on a specimen of *Citharinus*
Geoffroyi.

Ann. & Mag. N. Hist. Ser. 7. Vol. viii.



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