

XIII.—*Notes on the Family Hetrodidæ, with a List of the described Species.* By W. F. KIRBY, F.L.S., F.E.S., &c.

THE family Hetrodidæ includes a number of rather large spiny apterous Orthoptera, a synopsis of which was published by Dr. Karsch in 1887 in the 'Berliner entomologische Zeitschrift,' vol. xxxi. Several additional species have been described since. I have just completed the rearrangement of the specimens in the Natural History Museum, and have made several notes on synonymy &c., which I thought it would be useful to publish at once, and I prefix a list of all the species hitherto described.

With the exception of one or two species which are said to occur in Asia Minor, the family is wholly African, and the species appear to be more numerous in Eastern and, perhaps, Southern Africa than on the West Coast. The Spanish and North-African genus *Pycnogaster*, Graells, is now referred by Brunner von Wattenwyl to the family Ephippigeridæ instead of to the Hetrodidæ.

The synonymy of the true Hetrodidæ is given by Karsch in the paper just quoted, and I have therefore only given full references where additions or corrections were required.

Species marked † are wanting in the Museum collection; ||, as usual, denotes a preoccupied name; * denotes type of genus.

List of described Species of Hetrodidæ.

Family Hetrodidæ.

Subfamily HETRODINÆ.

HETRODES, Fischer de Waldheim (1833).

- *1. *Hetrodes pupus*, Linn.—Africa, Cape Verde Islands, Asia Minor.

[Typ. fig., Roesel, Insectenbelust. ii. Heuschrecken, tab. vi. fig. 3.]

Hetrodes pupa et *spinulosus*, F. de W. Orth. Ross. pp. 368, 369, pl. xxxiv. figs. 1, 2 (1846).

2. *Hetrodes productus*, Walker, Cat. Derm. Salt. ii. p. 227. n. 4 (1869).—Congo.

3. *Hetrodes macrurus*, Walker, *l. c.* p. 228. n. 6 (1869).—?

4. *Hetrodes marginatus*, Walker, *l. c.* p. 226. n. 3 (1869).—Cape.

5. *Hetrodes abbreviatus*, Walker, *l. c.* p. 227. n. 5 (1869).—S. Africa.

†6. *Hetrodes Bachmanni*, Karsch.—Troe Troe, W. Cape Colony.

†7. *Hetrodes variolosus*, Fieber.—?

Hetrodes variolosus, Fieber, *Lotos*, iii. p. 259 (1853).

ACANTHOPLUS, Stål (1873).

§ Femora spined beneath.

*1. *Acanthoplus longipes*, Charpentier.—Benguela, Congo.

§§ Femora not spined; no spines on front margin of pronotum.

2. *Acanthoplus pallidus*, Walker.—E. Africa.

Hetrodes pallidus, Walk. Cat. Derm. Salt. ii. p. 231. n. 20 (1869).

3. *Acanthoplus discoidalis*, Walker.—S. Africa.

Hetrodes discoidalis, Walk. *l. c.* p. 230. n. 18 (1869).

†4. *Acanthoplus Speiseri*, Brancsik, *Trencs. Várm. Term. Egylet*, 1894–5, p. 258, pl. viii. fig. 9 *a-d* (1896).—Zambesi.

5. *Acanthoplus desertorum*, Kirby (*vide infrà*).—Kalahari Desert.

6. *Acanthoplus serratus*, Kirby (*vide infrà*).—King William's Town, S. Africa.

7. *Acanthoplus germanus*, Kirby (*vide infrà*).—King William's Town.

†8. *Acanthoplus stratiotes*, Brancsik, *l. c.* p. 259, pl. viii. fig. 10 *a-d* (1896).—Zambesi.

§§§ Femora not spined; two central spines on front margin of pronotum.

†9. *Acanthoplus Jallæ*, Griffini, *Boll. Mus. Zool. Torino*, xii. no. 290, p. 3 (1897).—Zambesi.

CLOANTHELLA, Bolivar (1890).

Cloanthella, Bol. *Jorn. Sci. Lisboa*, (2) i. p. 226 (1890).

*†1. *Cloanthella clypeata*, Bol. *l. c.*—Braganza.

COSMODERUS, Lucas (1868).

- *1. *Cosmoderus erinaceus*, Fairmaire.—Gaboon, Cameroons, French Congo.

Ephippiger erinaceus, Fairmaire, Thomson, Archives Ent. ii. p. 260, pl. ix. fig. 1 (1858).

2. *Cosmoderus Kingsleyæ*, Kirby, Ann. & Mag. Nat. Hist. (6) xviii. p. 260, pl. xii. fig. 7 (1896).—Ogové.

APROPHANTIA, Kirby (1896).

[Kirby, Ann. & Mag. Nat. Hist. (6) xviii. p. 261, note (1896).]

- *1. *Aprophantia maculata*, Kirby, l. c. pl. xii. fig. 8 (1896).—Cameroons.

ENYALIOPSIS, Karsch (1887).

Types *E. ephippiatus* and *E. Petersii*.

1. *Enyaliopsis ephippiatus*, Gerstaecker.—Zanzibar.

Eugaster ephippiatus, Gerstaecker, Arch. f. Nat. xxxv. p. 213 (1869); Von der Decken's Reisen, iii. (2) p. 27, Taf. ii. fig. 2 (1873).

2. *Enyaliopsis Petersii*, Schaum.—E. Africa.

- †3. *Enyaliopsis Bloyeti*, Lucas.—Kondoa, E. Africa.

4. *Enyaliopsis Durandi*, Lucas.—Zambesi.

- †5. *Enyaliopsis obuncus*, Bolivar.—Angola.

Enyalus obuncus, Bol. Jorn. Sci. Math. Lisboa, viii. p. 119 (1881).

GYMNOPROCTUS, Karsch (1887).

- †1. *Gymnoproctus abortivus*, Serville.—Senegal, Soudan.

Eugaster Maurelii, Lucas (sec. Karsch).

Subfamily EUGASTRINÆ.

ANEPISCEPTUS, Fieber (1853).

Pornotrips, Karsch (1887).

- †1. *Anepisceptus horridus*, Burmeister (type of both the above generic names).—Syria, Arabia, Egypt.

||*Hetrodes spinulosus*, Charpentier.

2. *Anepisceptus Servillei*, Reiche and Fairmaire.—Abyssinia, Somali.

Hetrodes Servillei, R. & F., Ferret and Galinier, Voy. Abyss. iii. p. 426, pl. xxviii. fig. 1 (1847).

†3. *Anepisceptus Revoilii*, Lucas.—Somali.

†4. *Anepisceptus hippolyti*, Kirby (*vide infra*).—Abyssinia.

|| *Eugaster Servillei*, Lucas, Ann. Soc. Ent. France, (4) ix. p. 83, pl. iii. figs. 1-6 (1869).

5. *Anepisceptus Ruspolii*, Schulthess-Rechberg.—Somali.

Pornotrips Ruspolii, S.-R. Zool. Jahrb. Syst. viii. p. 81, pl. iv. fig. 4 (1894).

6. *Anepisceptus suakimensis*, Kirby.—Suakim.

Eugaster suakimensis, Kirby, Ann. & Mag. Nat. Hist. (6) xvii. p. 122 (1896).

†7. *Anepisceptus Robecchii*, Schulthess-Rechberg.—Somali.

Pornotrips Robecchii, S.-R. Ann. Mus. Genov. (2) xix. p. 209, pl. ii. figs. 15, 15 a (1898).

EUGASTER, Serville (1839).

1. *Eugaster spinulosus*, Linné.—Morocco.

[Typ. fig. Edwards, Gleanings Nat. Hist. ii. p. 161, pl. cclxxxv. figs. 3-5 (1760).]

Eugaster spinulosus, Kirby, Ent. M. Mag. xxvii. pp. 210, 295 (1891).

2. *Eugaster frater*, Kirby, Ann. & Mag. Nat. Hist. (6) xvii. p. 123 (1896).—Mombasa.

3. *Eugaster Woodii*, Kirby, Ent. Monthly Mag. xxvii. p. 211 (1891).—Somali.

4. *Eugaster loricatus*, Gerstaecker, Arch. f. Nat. xxxv. p. 213 (1869); Von der Decken's Reisen, iii. (2) p. 26, pl. ii. fig. 1 (1873); Karsch, Berl. ent. Zeitsch. xxxi. p. 65 (1887), xxxii. p. 463 (1888).—Zanzibar.

5. *Eugaster Powysi*, Kirby, *l. c.* p. 294 (1891).—Morocco.

*6. *Eugaster Guyoni*, Serville.—Algeria.

Eugaster Guyoni, Kirby, *l. c.* p. 295 (1891); Vosseler, Jahreshefte Ver. Württemb. xlix. p. xciii (1893); Finot, Ann. Soc. Ent. France, lxxv. p. 558 (1897).

|| *Eugaster spinulosus*, pt., Karsch (excl. syn.), *l. c.* xxxi. p. 65 (1887).

7. *Eugaster Lucasi*, Kirby, *l. c.* p. 295 (1891).—Tunis.

Hetrodes Guyoni, var., Lucas, Bull. Soc. Ent. France, (2) ix. p. 4 (1851).

Eugaster Guyoni, Lucas, Ann. Soc. Ent. France, (4) i. p. 217 (1861);

White, Proc. Ent. Soc. Lond. 1888, p. xxv.

Eugaster Guyoni, var. *Lucasi*, Krauss, Jahreshefte Ver. Württemb. xlix. p. xevi (1892); Zool. Jahrb. Syst. ix. p. 552 (1897).

†8. *Eugaster inornata*, Krauss.—Oran.

Eugaster Guyoni, var. *inornata*, Krauss, *ll. cc.* (1892, 1897).

|| *Eugaster Guyoni*, Karsch, *l. c.* xxxii. p. 462 (1888).

ACANTHOPROCTUS, Karsch (1887).

†1. *Acanthoproctus* (?) *capreolus*, Pictet, Mém. Soc. Genève, xxx. (6) p. 69, pl. iii. figs. 33, 33 a (1889).—S. Africa.

*2. *Acanthoproctus cervinus*, De Haan.—Cape.

Hetrodes fortis, Walker, Cat. Derm. Salt. ii. p. 229. n. 11 (1869).

3. *Acanthoproctus militaris*, White, Methuen, Life in Wilderness, p. 316, pl. i. fig. 4 (1846).—S. Africa.

4. *Acanthoproctus Howarthæ*, Kirby (*vide infra*).—E. Karoo, Cape Colony; Brak Kloof, near Grahamstown.

HEMIHETRODES, Pictet (1889).

Hemihetrodes, Pictet, Mém. Soc. Genève, xxx. (6) p. 74 (1889).

1. *Hemihetrodes vittatus*, Walker.—S. Africa.

Hetrodes vittatus, Walker, Cat. Derm. Salt. ii. p. 229. n. 12 (1869).

Hemihetrodes Peringueyi, pt., Pictet, *l. c.* pl. iii. figs. 30, 30 a (1889).

2. *Hemihetrodes Peringueyi*, Pictet, *l. c.*—S. Africa.

APHRACTIA, Kirby (*vide infra*).

|| *Enyalus*, Stål, Öfv. Vet.-Akad. Förh. xxxiii. (3) p. 58 (1876).

Eugaster, div. a, Stål, Rec. Orth. ii. p. 22 (1874).

1. *Aphractia diademata*, Stål (1858).—S. Africa.

Hetrodes crassipes, Walker, Cat. Derm. Salt. ii. p. 231. n. 19 (1869).

Acanthoproctus ibex, Pictet, Mém. Soc. Genève, xxx. (6) p. 72, pl. iii. figs. 31, 31 b (1889).

MADIGA, Kirby (1896).

Madiga, Kirby, Ann. & Mag. Nat. Hist. (6) xvii. p. 124 (1896).

|| *Prionocnemis*, Karsch.



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