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Catalogue of Neotropical Diptera. Pelecorhynchidae

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Introduction

Pelecorhynchus Macquart, 1850, the only genus of Pelecorhynchidae, occurs in Australia (31 spp. reported by Daniels, 1989) and Chile (6 spp.). Zloty, Sinclair & Pritchard (2005: 263, fig. 12), in their cladogram, place *Pelecorhynchus* as the sister-group of *Glutops*, and both as the sister-group of *Oreoleptis*, *Atherix*, *Dasyomma*, *Pangonius*, *Hybomitra* and *Haematopota*.

Nothing (except by two remarks by Philippi, 1865, see below) is known about the biology of the Chilean representatives. Daniels (1989: 277) says about the Australian forms: "Adult pelecorhynchids are most often found either feeding from, or hovering around blossoms of *Leptosternum* (Myrtaceae). In areas where suitable larval sites exist but which lack *Leptosternum*, adults can often be found hovering around *Eucryphia moorei* (Eucryphiaceae) blossoms, and much less often around blackberry blossoms, *Rubus vulgaris* (Rosaceae). Males of several species are known to frequent hilltops, where they defend small territories".

Mackerras & Fuller (1942) described the immature stages.

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Family Pelecorhynchidae Enderlein, 1922

- Coenurinae; Handlirsch, 1908: 1270. Type-genus, *Coenura* Bigot, 1826 = *Pelecorhynchus* Macquart, 1850. Ref. – Sabrosky, 1999: 95 (“The priority of Coenurinae 1908 seems to have been recognized only by Brues & Melander (1932: 288), who accepted Coenurinae in preference to Pelecorhynchinae 1922, and by Hendel (1937: 1994), who recognized the two genera (1936: 1914, 1915) but did not mention Pelecorhynchinae. Brues *et al.* (1954: 328) changed to Pelecorhynchinae after the synonymy of *Coenura* under *Pelecorhynchus*. This change of family group names before 1961 because of the synonymy of the type genus is acceptable if ‘the replacement name has won general acceptance’ (Code, Art. 40b), which is certainly true for Pelecorhynchidae”).
- Pelecorhynchinae Enderlein, 1922: 336. Type-genus, *Pelecorhynchus* Macquart, 1850.
- Pelecorhynchidae; Mackerras & Fuller, 1942: 43.
- Pelecorhynchidae; Hennig, 1954.
- Pelecorhynchidae; McAlpine, 1987: 1305.

Genus Pelecorhynchus Macquart, 1850

- Pelecorhynchus** Macquart, 1850: 332 (1850: 28). Type-species: *Pelecorhynchus maculipennis* Macquart (mon.) = *Pelecorhynchus personatus* (Walker, 1848) [Australia].
- Coenura* Bigot, 1857: 286. Type-species: *Coenura longicauda* Bigot, 1857 (mon.).
- Caenopygna* Thomson, 1869: 449. Type-species, *Caenopygna maculipennis* Thomson, 1869 (mon.) = *Pelecorhynchus personatus* (Walker, 1848) [Australia].
- Caenopygna*, error.
- elegans** (Philippi), 1865: 449 (*Coenura*) [F. W. Edwards in Kröber, 1930b: 116, footnote, translated the following comment of Philippi: “We obtained numerous specimens of each sex of this species in early morning (7-9 a. m.) at flowers of a Saxifragaceous tree (*Escallonia pulverulenta*), in company with *Oscia lata* and *O. rufa*”.] Type-locality: Chile, Maule, near Llico. Distr. – Chile (Colchagua, Concepción, Malleco, Maule). Refs. – Roeder, 1889: 10 (*Coenura*); Hunter, 1900: 133 (cat.; *Coenura*); Kertész, 1908: 148 (cat.; *Coenura*); Enderlein, 1925: 262; Kröber, 1930a: 156 (*Coenura*), 1930b: 116, pl. 4, fig. 1 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 73, fig. 76 (male terminalia); Philip, 1968a: 15 (Philippi’s type), 1968b: 2 (cat.). [Fig. 1].
- biguttata** Philippi, 1865: 726 (*Coenura*) [Philippi commented about this species (transl. by Mackerras & Fuller, 1942: 73): “On the forest road between San Domingo and Futa these beautiful flies hovered two or three feet over the ground without settling; if I approached they darted away like an arrow and then came back again to the same spot”]. Type-locality: Chile, Valdivia. Refs. – Roeder, 1889: 10 (cat.; *Coenura*); Hunter, 1900: 133 (cat.; *Coenura*); Kertész, 1908: 148 (cat.; *Coenura*); Surcouf, 1921a: 222, 1921b: 111; Enderlein, 1925: 262; Kröber, 1930a: 155 (*Coenura*), fig. 14, 1930b: 115 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 73, fig. 75 (male terminalia); Philip, 1968a: 15 (Philippi’s type).
- albopunctata** Schiner, 1868: 77 (*Coenura*). Type-locality: “Chile”. Refs. – Roeder, 1889: 10 (cat.; *Coenura*); Hunter, 1900: 133 (cat.; *Coenura*); Kertész, 1908: 148 (cat.; *Coenura*); Kröber, 1930a: 153 (*Coenura*), 1930b: 116 (*Coenura*), 1934: 232 (cat.; *Coenura*).
- darwini** Ricardo, 1900: 102, pl. 1, fig. 1. Type-locality: Chile, Chiloé. Ref. – Ricardo, 1910: 408.
- kroeberi** (Lindner), 1925: 23 (*Coenura*). Type-locality: Chile, Magallanes, Punta Arenas. Distr. – Chile (Magallanes). Refs. – Kröber, 1930a: 154 (*Coenura*), 1930b: 115 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 74; Philip, 1968: 2 (cat.).
- longicauda** (Bigot), 1857: 287 (*Coenura*). Type-locality: “Chile”. Distr. – Chile (Angol, Bío Bío, Nahuelbuta, Arauco, Colchagua). [Fig. 2]. Refs. Philippi, 1865: 726 (*Coenura*); Roeder, 1889: 10 (*Coenura*); Hunter, 1900: 133 (cat.; *Coenura*); Kertész, 1908: 148 (cat.; *Coenura*); Enderlein, 1922: 336, 1925: 262; Kröber, 1930a: 153, fig. 13 (*Coenura*), 1930b: 114 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 70, figs. 74, 77-78 (male terminalia), pl. 1, fig. 2 (habitus); Philip, 1968: 2 (cat.). [Fig. 2].
- penai** Pechuman, 1967: 554 (as *peñai*). Type-locality: Chile, Arauco, 3600-4600 ft. Distr. – Chile (Arauco, Chiloé). Ref. – Philip, 1968: 2 (cat.).
- peña** Pechuman, 1967: 555, error.
- vulpes** (Macquart), 1850: 327 (1850: 23) (*Pangonia*). Type-locality: “Chile”. Distr. – Chile (Concepción, Valdivia, Coquimbo, Angol). [Fig. 3]. Refs. – Blanchard, 1852: 291 (*Pangonia*); Philippi, 1865: 708 (*Pangonia*); Ricardo, 1900: 103;

Hunter, 1900: 135 (cat.; *Coenura*); Kertész, 1908: 172 (*Coenura*); Surcouf, 1921a: 222, 1921b: 111; Enderlein, 1925: 262; Kröber, 1930a: 152 (*Coenura*), 1930b: 114 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 72; Philip, 1960: 99, 1968: 2 (cat.). [Fig. 3].

aurantiacus Ricardo, 1900: 103, pl. 1, fig. 2. Type-locality: "Chile".

xanthopleura (Philippi), 1865: 726 (*Coenura*). Type-locality: Chile, Valdivia. Distr. – Chile (Valdivia, Chiloé, Cautín, Ñuble). Refs. – Roeder, 1889: 10 (*Coenura*); Hunter, 1900: 133 (cat.; *Coenura*); Kertész, 1908: 149 (cat.; *Coenura*); Enderlein, 1925: 262; Kröber, 1930a: 154 (*Coenura*), 1930b: 115 (*Coenura*), 1934: 232 (cat.; *Coenura*); Mackerras & Fuller, 1942: 73; Philip, 1960: 99, 1968a: 14 (Philippi's type), 1968b: 2 (cat.).

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Figure 1. *Pelecorhynchus elegans* (Philippi, 1865), dorsal view.



Figure 2. *Pelecorhynchus elegans* (Philippi, 1865), lateral.



Figure 3. *Pelecorhynchus vulpes* (Macquart, 1850) (3), lateral view.



Figure 4. *Pelecorhynchus vulpes* (Macquart, 1850), dorsal view.

