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Catalogue of Neotropical Diptera. Apioceridae¹

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Two subgenera of *Apiocera* Westwood, 1835 occur in the region covered by this catalogue: *Anypenus* Philippi, 1865, restricted to Chile (with 4 species) and *Pyrocera* Yeates & Irwin, 1996, Nearctic, penetrating into Mexico (with 14 species).

Acronyms and abbreviations used in the text are the following:

AMNH – American Museum of Natural History, New York, New York, U. S. A.
BMNH – National Museum of Natural History, London, England
CAS – California Academy of Sciences, San Francisco, California, U. S. A.
DZUC – Departamento de Zoologia, Universidad de Concepción, Concepción, Chile
HT – holotype
LT – lectotype
MNHNS – Museo Nacional de Historia Natural, Santiago, Chile
NT – neotype
UK – University of Kansas, Lawrence, Kansas, U. S. A.
USNM – National Museum of Natural History, Washington, D. C., U. S. A.

Family Apioceridae Bigot, 1857

Pomaceritae Macquart, 1847: 47. Type-genus, *Pomacera* Macquart, 1847 = *Apiocera* Westwood, 1835.

Apomeridi Bigot, 1852: 481. Type-genus, *Apomera* Bigot, 1852 = *Apiocera* Westwood, 1835.

Apioceridae Bigot, 1857: 536. Type-genus, *Apiocera* Westwood, 1835.

Apomeridae Pandellé, 1894: 4.

Apioceratidae Brues & Melander, 1953: 451.

Pomaceridae Paramonov, 1953: 451. [Sabrosky, 1999: 253: “Pomaceridae is older than Apioceridae, but *Pomacera* was synonymized under *Apiocera* and the family name changed at least by 1883, and Apioceridae can be maintained (Code, Art. 40b)”].

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Genus **Apiocera** Westwood, 1835

- Apiocera** Westwood, 1835: 448. Type-species, *Apiocera fuscicollis* Westwood, 1835 (subs. des., Coquillett, 1910: 508) = *Apiocera brevicornis* (Wiedemann, 1830).
Tapinocera Macquart, 1838: 78 (1839: 194), pl. 6, fig. 5 (head of type-specimen). Type-species, *Laphria brevicornis* Wiedemann, 1830 (orig. des.).
Pomacera Macquart, 1847: 63 (1847: 47), pl. 2, fig. 1 (male, habitus), 1a (head), 1b-c (antenna), 1d (palpus). Type-species, *Pomacera bigotii* Macquart, 1847 (orig. des.) = *Apiocera brevicornis* (Wiedemann, 1830).
Apomera Bigot, 1852: 481 (apparently a lapsus; there is no evidence of emendation. Cf. Sabrosky, 1999: 50).

Ref. - Artigas, 1970: 102 (key to spp.).

Subgenus **Anypenus** Philippi, 1865

- Anypenus** Philippi, 1865: 702 (as genus). Type-species, *Anypenus brevicornis* Philippi, 1865 (sub. des., Brèthes, 1924: 28) = *Apiocera philippii* (Brèthes, 1924).

Ref. - Artigas, 1970: 102 (key to spp.).

- aurelia** Artigas, 1970: 102, figs. 16 (abdomen), 26, 28, 30 (male terminalia), 38 (distr.). Type-locality: Chile, Coquimbo, La Serena, Lomas de Peñuelas. Distr. - Chile (Coquimbo). Ref. - Bernardi, 1975: 2 (cat.). HT male, DZUC.
monticola Artigas, 1970: 104, figs. 19 (abdomen), 27, 29, 31 (male terminalia), 38 (distr.). Type-locality: Chile, Santiago, El Melocotón, río Maipo, orilla del río, 1024 m. Distr. - Chile (Santiago). Ref. - Bernardi, 1975: 2 (cat.). HT male, DZUC.
obscura (Philippi), 1865: 703 (*Anypenus*). Type-locality: unknown ["Chile"]. Distr. - Chile (Concepción, O'Higgins, Talca). Refs. - Kertész, 1909: 48 (cat.); Painter, 1932: 350; Cazier, 1941: 592; Rapp & Snow, 1945: 159 (cat.); Stuardo Ortiz, 1946: 87 (cat.); Artigas, 1970: 105, figs. 11 (spermatheca), 17 (abdomen), 20-25 (male terminalia), 38 (distr.); Bernardi, 1975: 2 (cat.). LT male, MNHNS [des. by Artigas, 1970: 106].
philippii (Brèthes), 1924: 28 (*Anypenus*; *nom. nov.* for *brevicornis* Philippi, 1865). Type-locality: Chile, Santiago Prov. Neotype-locality: Chile, Santiago, Lampa. Distr. - Chile (Coquimbo, Linares, Ñuble, O'Higgins, Santiago, Valparaíso). Refs. - Painter, 1932: 350; Rapp Jr. & Snow, 1945: 159 (cat.); Stuardo Ortiz, 1946: 87 (cat.); Artigas, 1970: 107, figs. 1-3 (male terminalia), 4 (thorax), 5 (spermatheca), 6 (wing), 7-8 (male terminalia), 12, 15 (head), 18 (abdomen), 38 (distr.); Bernardi, 1975: 2 (cat.); Yeates & Irwin, 1996: 272, fig. 33 (dorsal view of hypandrium), 273, figs. 38-39 (male genitalia). NT male, DZUC [des. by Artigas, 1970: 108].
brevicornis Philippi, 1865: 702, pl. 25, figs. 26 (male), 26a (head) (*Anypenus*; preocc. Wiedemann, 1830). Type-locality: Chile, Santiago Prov. Refs. - Macquart, 1838: 79, pl. 6, fig. 5 (*Tapinocera*); Walker, 1855: 573 (*Tapinocera*); Schiner, 1866: 694 (*Tapinocera*); Osten Sacken, 1883: 294, 1891: 421; Kertész, 1909: 48 (cat.); Cazier, 1941: 592. TP lost.

Subgenus **Pyrocera** Yeates & Irwin, 1996

- Apiocera*, subg. **Pyrocera** Yeates & Irwin, 1996: 286, figs. 2, 4, 14, 20, 23, 28-31. Type-species, *Apiocera haruspex* Osten Sacken, 1877 (orig. des.).

Ref. - Cazier, 1982 (rev.).

- aldrichi** Painter, 1938: 193, pl. 8 (male terminalia). Type-locality: U. S. A., Arizona, Yuma Co., Yuma. Distr. - U. S. A. (California, Arizona), Mexico (Sonora). Ref. - Cazier, 1941: 601, 602 (in key), 605, pl. 3, fig. 1 (male), 1965: 356 (cat.), 1982: 400, figs. 6-7, 16, 36, 87, map 9. HT male, USNM.
arnaudi Cazier, 1982: 403, map 9. Type-locality: Mexico, Baja California Norte, Sierra San Pedro Mártir, 2 miles east of Socorro, 5000 ft. Distr. - Mexico (Baja California Norte). HT male, CAS.
augur Osten Sacken, 1887: 212. Type-locality: "Mexico, Presidio (Forrer)" = Mexico, Sinaloa, Mazatlán (cf. Selander & Vaurie, 1962: 47). Distr. - U. S. A. (New Mexico, Texas), Mexico (Chihuahua, Sinaloa). Refs. - Aldrich, 1905: 153 (cat.); Kertész, 1909: 48 (cat.); Painter, 1932: 354, figs. 1 (male), 2 (female); 1938: 192, pl. 8 (male terminalia); Cazier, 1941: 602 (in key), 615, pl. 3, fig. 5 (male), pl. 4, fig. 12 (male terminalia); Rapp Jr. & Snow, 1945: 157 (cat.); Cazier,

- 1963: 229, 1965: 356 (cat.); Bernardi, 1975: 2 (cat.); Lavigne, 1975: 673 (redescr., behavior); Cazier, 1982: 389, figs. 46, 63, map 8. HT male, BMNH.
- auger* Painter, 1938: 192, error.
- bibula** Cazier, 1982: 334, figs. 75, 99, map 10. Type-locality: Mexico, Baja California Sur, San Juan. Distr. – Mexico (Baja California Sur). HT male, AMNH.
- bigelowi** Cazier, 1982: 384, figs. 15, 65, 83, map 7. Type-locality: Mexico, Coahuila, 1 mile southwest of Cuatro Ciénegas, Cuatro Ciénegas basin. Distr. – Mexico (Coahuila). HT male, AMNH.
- bilineata** Painter, 1932: 351, figs. 3 (male), 4 (female). Type-locality: U. S. A., New Mexico, Otero Co., White Sands. Distr. – U. S. A. (Arizona, New Mexico, Texas), Mexico (Chihuahua). Refs. – Painter, 1938: 191, pl. 8 (male terminalia); Cazier, 1941: 602 (in key), 613, pl. 4, fig. 13 (male terminalia); Rapp Jr. & Snow, 1945: 157 (cat.); Cazier, 1963: 228, 1965: 357 (cat.); Bernardi, 1975: 2 (cat.). TP male UK.
- caboae** Cazier, 1982: 409, fig. 96, map 10. Type-locality: Mexico, Baja California Sur, San José del Cabo. Distr. – Mexico (Baja California Sur). HT male, CAS.
- chrysolasia** Cazier, 1982: 324, fig. 79, map 1. Type-locality: U. S. A., California, Riverside Co., Temecula. Distr. – U. S. A. (California), Mexico (Baja California Norte). HT male, CAS.
- clavator** Painter, 1938: 196, pl. 8 (male terminalia). Type-locality: Mexico, Colima. Distr. – Mexico (Colima-Jalisco border). Refs. – Cazier, 1941: 601 (in key), 609, pl. 4, fig. 9 (male terminalia); Rapp Jr. & Snow, 1945: 158 (cat.); Lavigne, 1975: 673; Cazier, 1982: 399, figs. 17, 37, map 8. HT male, USNM.
- davidsonorum** Cazier, 1982: 442, figs. 92, 100, map 7. Type-locality: Mexico, Baja California Sur, San Juan. Distr. – Mexico (Baja California Sur). HT male, AMNH.
- femoralis** Cazier, 1982: 387, figs. 84, 104, map 7. Type-locality: U. S. A., Texas, Brewster Co., Big Bend National Park, Rio Grande Village. Distr. – U. S. A. (Texas), Mexico (Chihuahua). HT male, AMNH.
- fisheri** Cazier, 1982: 390, fig. 47, map 1. Type-locality: Mexico, Baja California Norte, Santa María, 24 miles south of San Felipe. Distr. – Mexico (Baja California Norte). HT male, CAS.
- horticolis** Cazier, 1982: 322, figs. 56, 78, map 6. Type-locality: Mexico, Baja California Norte, Santa Ana. Distr. – Mexico (Baja California Norte, Baja California Sur). HT male, AMNH.
- linsleyi** Cazier, 1982: 395, figs. 26, 48, 85, 106, map 10. Type-locality: Mexico, Baja California Sur, La Paz. Distr. – Mexico (Baja California Sur). HT male, AMNH.
- ssp. **obliqua** Cazier, 1982: 398, fig. 107, map 10. Type-locality: Mexico, Baja California Sur, Santa Rita. Distr. – Mexico (Baja California Sur). HT male, AMNH.
- mexicana** Cazier, 1954: 8. Type-locality: Mexico, Veracruz, Veracruz. Distr. – U. S. A. (Texas), Mexico (Guerrero, Veracruz). Refs. – Cazier, 1963: 226, 1965: 357 (cat.); Bernardi, 1975: 2 (cat.); Cazier, 1982: 367, figs. 28, 115, map 8. HT male, AMNH.
- minckleyi** Cazier, 1982: 382, fig. 80, map 7. Type-locality: Mexico, Coahuila, 5.6 miles southwest of Cuatro Ciénegas, Cuatro Ciénegas basin. Distr. – Mexico (Coahuila). HT male, AMNH.
- notata** Painter, 1938: 199, text-fig. 1 (male terminalia), pl. 8 (male terminalia). Type-locality: U. S. A., California, San Diego Co., Campo. Distr. – U. S. A. (California), Mexico (Baja California). Refs. – Cazier, 1941: 602 (in key), 614, pl. 4, fig. 11 (male terminalia); Rapp Jr. & Snow, 1945: 159 (cat.); Cazier, 1963: 233, 1965: 357 (cat.); Bernardi, 1975: 2 (cat.). TP male UK.
- painteri** Cazier, 1963: 206, figs. 1-6 (male and female, habitat, eggs, first instar larva; bionomics). Type-locality: U. S. A., Arizona, Cochise Co., 2 miles northeast of Portal. Distr. – U. S. A. (Arizona), Mexico (Sonora). HT male, USNM.
- powelli** Cazier, 1982: 407, figs. 20, 88, map 13. Type-locality: Mexico, Baja California Norte, Sierra San Pedro Mártir, 2 miles west of Socorro, 3000 ft. Distr. – Mexico (Baja California Norte). HT male, CAS.
- rockefelleri** Cazier, 1982: 428, fig. 105, map 7. Type-locality: Mexico, Chihuahua, Samalayuca. Distr. – Mexico (Chihuahua). HT male, AMNH.
- rubrifasciata** Cazier, 1982: 364, figs. 30, 69, map 6. Type-locality: Mexico, Baja California Norte, Santa María, 24 miles south of Bahía San Felipe. Distr. – Mexico (Baja California Norte). HT male, CAS.
- sonorae** Cazier, 1954: 7. Type-locality: Mexico, Sonora, 20 miles southwest of Sonoyta. Distr. – U. S. A. (California), Mexico (Sonora). Refs. – Cazier, 1963: 209; Bernardi, 1975: 2 (cat.); Cazier, 1982: 363, figs. 34, 40, 68, map 3. HT male, AMNH.
- spectabilis** Cazier, 1982: 430, figs. 10-14, 39, 66, map 10. Type-locality: Mexico, Baja California Norte, Las Arrastras. Distr. – U. S. A. (California), Mexico (Baja California Norte). HT male, AMNH.
- volucra** Cazier, 1982: 336, figs. 76, 100, map 3. Type-locality: Mexico, Baja California Norte, Las Arrastras. Distr. – Mexico (Baja California Norte). HT male, AMNH.

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