An annotated catalogue of the type material of Elateroidea Leach, 1815 (Coleoptera) deposited in the Coleoptera collection of the Museum of Zoology of the University of São Paulo, Brazil

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This is a postprint of an article that originally appeared in [Zootaxa](#) on March 25, 2015 and the final version can be found here <https://doi.org/10.11646/zootaxa.3937.2.3>.

Ferreira, Vinicius S. (2015). An annotated catalogue of the type material of Elateroidea Leach, 1815 (Coleoptera) deposited in the Coleoptera collection of the Museum of Zoology of the University of São Paulo, Brazil. *Zootaxa*, 3937(2), 263-310. doi:10.11646/zootaxa.3937.2.3

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An annotated catalogue of the type material of Elateroidea Leach, 1815 (Coleoptera) deposited in the Coleoptera collection of the Museum of Zoology of the University of São Paulo, Brazil

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Abstract

The Museum of Zoology of the University of São Paulo (MZSP) houses one of the most important Coleoptera collections of Brazil and Neotropical Region with nearly 900,000 adult mounted material and about 1,500,000 specimens to be mounted. The superfamily Elateroidea Leach, 1815 (including Cantharoidea) comprises about 24,077 described species in 17 families. The MZSP owns type material of Brachypsectridae LeConte & Horn, 1883, Cantharidae, 1856 (1815), Cerophytidae Latreille, 1834, Elateridae Leach 1815, Eucnemidae Eschscholtz, 1829, Lampyridae Rafinesque, 1815, Lycidae Laporte, 1836, Phengodidae LeConte, 1861 and Rhinorhipidae Lawrence, 1988. This catalogue includes type material of 166 species distributed in 69 genera. Among 1,223 type specimens, are 86 holotypes, 1,133 paratypes, 2 allotypes, 1 lectotype and 1 paralectotype.

Key words: Elateridae, Lycidae, Phengodidae, Cantharidae, Eucnemidae

Resumo

A coleção de Coleoptera do Museu de Zoologia da Universidade de São Paulo (MZSP) abriga uma das mais importantes coleções do Brasil e da região Neotropical com aproximadamente 900,000 adultos montados e cerca de 1.500.000 espécimens a serem montados. A superfamília Elateroidea Leach, 1815 (incluindo Cantharoidea) compreende cerca de 24.077 espécies descritas em 17 famílias. O MZSP possui material-tipo de Brachypsectridae LeConte & Horn, 1883, Cantharidae, 1856 (1815), Cerophytidae Latreille, 1834, Elateridae Leach 1815, Eucnemidae Eschscholtz, 1829, Lampyridae Rafinesque, 1815, Lycidae Laporte, 1836, Phengodidae LeConte, 1861 e Rhinorhipidae Lawrence, 1988. Este catálogo inclui material-tipo de 166 espécies distribuídas em 69 gêneros. Dentre 1223 tipos, há 86 holótipos, 1133 parátipos, 2 alótipos, 1 lectótipo e 1 paralectótipo.

Palavras chave: Elateridae, Lycidae, Phengodidae, Cantharidae, Eucnemidae

Introduction

The Museum of Zoology of the University of São Paulo (MZSP) is considered one of the most traditional institutions in Brazil and its collections have been very useful to a more complete and broad understanding of the animal evolution and diversity studies in Brazil and in Neotropical region (Taddei *et al.*, 1999; Marinoni & Marinoni, 2012).

With one of the most important collections of Brazil and Neotropical Region the Coleoptera Collection of the Museum of Zoology houses nearly 900,000 adults of beetles mounted and about 1,500,000 specimens to be mounted (Costa 1999; Costa *et al.* 2000) and most of the unidentified material in the former collection of Richard Von Diringshofen (Costa *et al.* 2000; Ferreira *et al.* in prep). The MZSP also owns a very important immature collection, the Immature Coleoptera Collection (CIC–MZSP), with about 51,000 species maintained on 70% ethyl alcohol (Costa 2010; Barbosa *et al.* 2013). Up to now no list of type material of Elateroidea deposited in the MZSP has been published.

The superfamily Elateroidea Leach, 1815 (including Cantharoidea) comprises about 24,077 described species in 17 families (Bouchard *et al.* 2011; Slipinski *et al.* 2011). Cantharoidea was included in Elateroidea by Lawrence (1988) and thereafter this classification has been accepted and corroborated by many other authors (*e.g.* Branham & Wenzel 2000; Hunt *et al.* 2007; Bocakova *et al.* 2007; Lawrence *et al.* 2010; Kundera & Bocak 2011; Lawrence *et al.* 2011; Kundera *et al.* 2014).

The currently accepted Elateroidea families (*sensu* Bouchard *et al.* 2011) in MZSP collections are: Armatopodidae Lacordaire, 1857, Brachypsectridae LeConte & Horn, 1883, Cantharidae, 1856 (1815) Cerophytidae Latreille, 1834, Drilidae Blanchard 1845, Elateridae Leach 1815, Eucnemidae Eschscholtz, 1829, Lampyridae Rafinesque, 1815, Lycidae Laporte, 1836, Omalisidae Lacordaire, 1857, Omethidae LeConte, 1861, Phengodidae LeConte, 1861, Plastoceridae Crowson, 1972, Rhagophthalmidae Olivier, 1907, Rhinorhipidae Lawrence, 1988, Teleugesidae Leng, 1920 and Throscidae Laporte, 1840. The MZSP owns type material of Brachypsectridae, Cerophytidae, Cantharidae, Elateridae, Eucnemidae, Lampyridae, Lycidae, Phengodidae and Rhinorhipidae. Most (55 species) of the Elateroidea type specimens deposited in MZSP were described by Cleide Costa. This catalogue aims to list the type material of Elateroidea beetles deposited in the MZSP and to provide label information and preservation status of each specimen.

Material and methods

All drawers of the families previously cited were examined and information about labels and the condition of type material are portrayed. The conservation status and other pertinent comments are given after the label description. Specimens considered in good condition are those in suitable status for taxonomic and morphological study with none or few parts of the body broken.

Information in this catalogue is given in the following order: family, genus and author; subgenus and author; species name (as well as subspecies), authorship, publication year, page numbers, type category, number of specimens followed by sex (♂ male, ♀ female, unknown sex). Label information of each specimen is given as written on the label itself, with each label separated by a semicolon. Additional data on labels are presented between brackets. Detailed data for conservation status is given with comments after labels information. Additional notes are given when necessary after conservation status. The nomenclature of families follows Bouchard *et al.* (2011). All taxa are presented alphabetically by family, then also by genus and species.

Results

This catalogue includes type material of 166 species distributed in 69 genera. Among 1,223 type specimens, are 86 holotypes, 1,133 paratypes, 2 allotypes, 1 lectotype and 1 paralectotype.

Brachypsectridae LeConte & Horn, 1883

Genus *Brachypsectra* LeConte, 1874

Brachypsectra vivafosile Woodruff, 2002: 161

Paratypes: 1 ♂. DOMINICAN REPUBLIC: Prov. of Pedernales, Cabo, Rojo, Alcoa, 20–24-VI-1999, blacklight trap, R.M. Baranowski, R.E. Woodruff; [on yellow] Paratype, *Brachypsectra vivafosile*, R. E. Woodruff 2004.

Conservation status: Good condition, genitalia in microvial with glycerin under specimen.

Cantharidae Imhoff, 1856 (1815)

Genus *Discodon* Gorham, 1881

Discodon dureti Wittmer, 1945: 314

Paratype: 1 ♂. Cotype [on red]; Cotype [on red]; El Naranjo, R. de La F. Salta, Argentina, I-44, Duret—Martínez; *Discodon dureti* Wittmer det W. Wittmer.

Conservation status: Good condition; specimen glued on card.

***Discodon saltense* Wittmer 1945: 316**

Paratype: 1 ♂. [on red] Cotype; [on red] Cotype; El Naranjo, R. de La F. Salta, Argentina, I-44, Duret—Martínez; *Discodon saltensis* Wittmer det W. Wittmer.

Conservation status: Good condition; specimen glued on card.

***Discodon martinezi* Wittmer, 1945: 317**

Paratype: 1 ♂. [on red] Cotype; [on red] Cotype; El Naranjo, R. de La F. Salta, Argentina, I-44, Duret—Martínez; *Discodon martinezi* Wittmer det W. Wittmer.

Conservation status: Good condition; specimen glued on card.

Genus *Oontelus* Solier, 1849

***Oontelus reichardti* Wittmer, 1967: 427**

Holotype: 1 ♂. [on red] Holotypus; São Paulo, (Ipiranga) SP, 5.VIII.1907, H. Lüderwaldt col.; 9205; *Oontelus reichardti* Wittmer det W. Wittmer.

Conservation status: Good condition; specimen glued on triangle with its abdomen.

***Oontelus nodulicornis* Wittmer, 1966: 416**

Paratypes: 2 ♂. Paratypus; Brasilien, Nova Teutônia, 27°11'8 52°23 [the last number is illegible] Fritz Plaumann, 3.500m, 9/8/1948; *Oontelus nodulicornis* Wittmer det. W. Wittmer.

Conservation status: Good condition; both specimens glued on cards, one with abdomen and genitalia glued on second card under the specimen.

Genus *Paramonius* Wittmer, 1963

***Paramonius campbelli* Brancucci, 1983: 362**

Holotype: 1 ♂. Brazil, DF, Parque Nacional, 1.000m, 9.III.1970, J.M & B.A. Campbell.

Conservation status: Good condition.

Genus *Silis* Charpentier, 1825

Subgenus *Peltariosilis* Wittmer, 1952

***Peltariosilis amapaensis* Wittmer, 1966: 414**

Holotype: 1 ♂ [on red] Holotypus; Ex.—Coleção M. Alvarenga; Oiapoque, Amapá—Brasil, V.1959, M. Alvarenga col.; *Peltariosilis amapaensis* Wittmer det. W. Wittmer.

Conservation status: Bad condition; both antennae missing. Specimen glued on triangle by right elytra.

Paratypes: 4 ♂. [on red] Paratypus; Ex.—Coleção M. Alvarenga; Oiapoque, Amapá— Brasil, V.1959, M. Alvarenga col.; *Peltariosilis amapaensis* Wittmer det. W. Wittmer.

Conservation status: Bad condition; all specimens with both antennae missing. All specimens glued on triangle by right elytra.

Additional notes: the species was described in the subgenus *Peltariosilis* by Wittmer (1952). Constantin (2010) considered *Peltariosilis* a distinct genus.

Cerophytidae Latreille, 1834

Genus *Phytocerus* Costa, Vanin, Lawrence & Ide, 2003

***Phytocerus allenum* Costa, Vanin, Lawrence & Ide, 2003: 390**

Paratype: 1 ♂. Nicaragua: 50 km. E. of Matagalpa, El Coyobar, 15 May 1991; S. Hue, en trampa luminies 6V, para Lutzomyia; *Phytocerus alleni* Costa et al. 2003, Paratype F, C. Costa det. 2003; [on red] Parátipo; Retido SDSU.

Conservation status: Good condition, abdomen glued on a card under specimen. Genitalia in microvial with glycerin.

***Phytocerus belloi* Costa, Vanin, Lawrence & Ide, 2003: 391**

Holotype: 1 ♂. Águas Vermelhas, MG—Brasil, XII –1997, Col. A. Bello; *Phytocerus belloi* Costa et al. 2003, Holotype M. C. Costa det. 2003; [on red] Holotype.

Conservation status: Good condition, genitalia in microvial with glycerin under specimen.

Paratype: 1 ♀. Brasil: BA: MARACAS, Faz. M. Inácia—Mata Cipó, noite –luz XI 1990, S.T.P. AMARANTE COL; *Phytocerus belloi* Costa et al, 2003, Paratype F, C. Costa det. 2003; [on red] Paratipo.

Conservation status: Good condition.

Paratype: 1 ♀. *Idem*, 25.XI.1990.

Conservation status: *Idem*, right antenna glued on a card under specimen.

***Phytocerus birai* Costa, Vanin, Lawrence & Ide, 2003: 392**

Paratype: 1 ♂. Brazil, Goiás, Jataí, XI.1972, F. M. Oliveira; *Phytocerus birai* Costa et al. 2003, Paratype M, C. Costa det. 2003; [on red] Paratype; Retido CNCI.

Conservation status: Good condition, specimen glued on a card, genitalia in microvial with glycerin under specimen.

***Phytocerus boliviense* (Golbach, 1983c): 393**

Paratype: 1 ♂. Bolivia, Dpto Santa Cruz, Est, Exp. Gral. Saavedra, 6–12.VII.1972, C. Porter L. Stange; ♂; [on yellow] Parátipo; *Phytocerus boliviense* (Golbach, 1983), C. Costa det. 2003; *Cerophytum boliviensis* n. sp. R., Golbach det.; Doação Golbach; [on red] Paratype.

Conservation status: Good condition, abdomen glued on a card under specimen, genitalia in microvial with glycerin under specimen.

***Phytocerus distinguendum* (Soares & Peracchi, 1964): 130**

Holotype: 1 [unknown sex]. Est. Minas Gerais, Água Suja, Muschow 1918; M; Types; *Phytocerus distinguendum* (Soares & Peracchi, 1964), C. Costa det. 2003; *Cerophytum distinguendum* B.A.M. Soares & A. Peracchi det. 1962; [on red] Holótipo.

Conservation status: Good condition, part of right antenna glued on a transparent card under specimen.

***Phytocerus golbachii* Costa, Vanin, Lawrence & Ide, 2003: 396**

Paratypes: 3 [unknown sex] Argentina: Salta Rosario de Lerma, XII-21/23-1983, Malaise Trap, M. Wasbauer coll.; [on red] Parátipo; *Phytocerus golbachii*; Retido CDAE.

Conservation status: Two specimens in good condition, one with genitalia in microvial with glycerin under specimen; one in bad condition, specimen and genitalia, each one on a microvial.

Paratype: 1 [unknown sex] *Idem*, 26/27-1983.

Conservation status: Good condition, right antenna broken.

***Phytocerus ingens* Costa, Vanin, Lawrence & Ide, 2003: 397**

Holotype: 1 ♂. Corrego Itá, E. Santo. Br., X. 1954, W. Zikan; M; *Phytocerus ingens* Costa *et al.*, 2003, Holotype M, C. Costa det. 2003; *Cerophytum cayenense* Bonvoulour, B. A. M. Soares & A. Peracchi det. 1962; [on red] Holótipo.

Conservation status: Good condition, genitalia on a microvial with glycerin under specimen, right antenna glued on a triangle under specimen.

Paratypes: 1 ♂, 1 ♀, *Idem*

Conservation status: Good condition, genitalia and abdomen in microvial with glycerin under specimen.

***Phytocerus zikani* (Soares & Peracchi, 1964): 128**

Holotype: 1 ♂. Mar de Hespanha, R, Minas–Brazil, 25-10-1910, J. F. Zikán; M; N° 12.056, I. O. C. Coleoptera; Typus; *Phytocerus zikani* (Soares & Golbach, 1964), C. Costa det. 2003; *Cerophytum zikani* B. A. M. Soares & A. Peracchi det. 1962; [on red] Holótipo.

Conservation status: Good condition, both antennae missing, left mesoleg lost. Genitalia in microvial with glycerin under specimen.

Elateridae Leach, 1815

Genus *Agriotes* Eschscholtz, 1829

***Agriotes sagittus* Becker, 1956: 79**

Paratype: 1 ♀. Humboldt co., cal. V.[1]911; Coll. D. by F.W. Nunenm Acher. Van Dyke Collection; [on yellow] Paratype, *Agriotes sagittus* Becker ♀, No. 6520.

Conservation status: Good condition; specimen glued on white triangle by mesoventrite.

***Agriotes vandykei* Becker 1956: 90**

Paratype: 1 ♂. Berkeley, Cal., 4-12-1930; H. E. Collector; [on yellow] Paratype, *Agriotes vandykei* ♂, No. 6524 Becker.

Conservation status: Good condition, genitalia glued on a triangle under specimen.

Paratype: 1 ♀. Hills back of Berkeley Cal., 16-22-1919; H.W. Wenzel Collection; [on yellow] Paratype, *Agriotes vandykei* ♀, No. 6524 Becker.

Conservation status: Good condition; left antenna missing. Specimen glued on white triangle by mesoventrite.

Genus *Alampoides* Schwarz, 1906

***Alampoides badius* Costa, 1975a: 63**

Paratypes: 1 [unknown sex], 1 ♂. Pérou, Movobamba, M. de Mathan, 1888; Museum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Alampoides badius* parátipo, C. Costa det. 1975.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen. One specimen with two legs and part of an antenna glued on cards under specimen.

***Alampoides fulvus* Costa, 1975a:63**

Paratype: 1 ♂. Pérou, Movobamba, M. de Mathan, 1888; Museum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Alampoides fulvus* parátipo, C. Costa det. 1975.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Pérou, Taranoto, Mai à Aout 1886, M. de Mathan; Museum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Alampoides fulvus* parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Genus *Alaus* Eschscholtz, 1829

***Alaus veracruzanus* Casari, 1996: 263**

Holotype: 1 ♂. [on red] Holotypus; *Calcolepis lucaoti* Cand. M; *Alaus veracruzanus* sp. n., Holotype, S. A. Casari det. 1996; USNM; USNM 93.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

***Alaus latipennis* Casari, 2003: 322**

Paratype: 1 ♂. Dominican Rep: Prov., Barahona, nr Filipinas, Larimae Mine: 26-VI–7-VII-1992: R. E. Woodruff, P. E. Skelley, at light; retained FSCA; [on red] paratype; *Alaus latipennis* Casari, 2003; [on red] Paratype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

***Alaus thoracopunctatus* Casari, 2003: 325**

Paratype: 1 ♂. Guatemala: Zacapa, 5km S la Unión, 4600, May 5–11.1987, E. Giesbert col.; *Alaus plebeus*, Candeze, det E. Giesbert; retained FSCA; [on red] paratype; *Alaus thoracopunctatus* Casari, 2003.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Genus *Ampedus* Dejean, 1833

***Ampedus varipilis columbianus* Brown, 1933: 136**

Paratype: 1 [unknown sex]. Paratype labels: Creston, B. C. 20.VI.1931, G. Stace Smith; [on yellow] Paratype, 3466, *Ampedus varipilis columbianus* Brown.

Conservation status: Good condition.

Genus *Anchastus* LeConte, 1853

***Anchastus knulli* Becker, 1972:121**

Paratypes: 1 [unknown sex]. Madera Cyn., Ariz. Pima, Co. ix.8.1963; V.L.Vesterby Collector; [on yellow] Paratype, *Anchastus knulli* Becker, CNC No. 12.685.

Conservation status: Good condition. Right antenna missing.

Genus *Anoplischius* Candéze, 1859

***Anoplischius boraceiensis* Casari–Chen & Costa, 1992: 47**

Holotype: 1 ♂. Est. Biol. Boracéia, Salesópolis, SP, 20–22.IV.1988, Exp. MZSP col.; [on red] Holótipo; *Anoplischius boraceiensis* Casari–Chen & Costa, 1991; larval exuvia in alcohol.

Conservation status: Good condition.

Paratypes: 2 ♂. *Idem*.

Conservation status: *Idem*.

Genus *Aptopus* Eschscholtz, 1829

***Aptopus luridus* Aranda, 1996: 435**

Paratype: 1 [unknown sex]. Argentina, Tucuman, Farallón Blanco, Dpto. Burruyacu, 7–8-II-1961, Col. R. Golbach; [on yellow] Paratipo; *Aptopus luridus* Aranda; [on red] *Aptopus luridus* Aranda.

Conservation status: Good condition; right antenna broken.

***Aptopus maculatus* Aranda, 1996: 437**

Paratype: 1 [unknown sex]. Chilecito, 15–30/I/69, La Rioja; [on yellow] Paratipo; *Aptopus maculatus* Aranda; [on red] *Aptopus maculatus* Aranda.

Conservation status: Good condition; left antenna missing.

***Aptopus golbachii* Aranda, 1996: 438**

Paratype: 1 [unknown sex]. *Aptopus golbachii* Aranda; *Aptopus golbachii* det. Aranda'90; Salta Yacocmuya, Capayate, 1950 mts; [on yellow] Paratipo; [on red] *Aptopus maculatus* Aranda, Paratype.

Conservation status: Good condition; both antennae missing.

Genus *Arcanelater* Costa, 1975

***Arcanelater spurius* (Germar, 1841): 56**

Lectotype: 1 [unknown sex]. [on red] Lectotipo; [on green] Porto Alegre, fe220; 17169; *spurius* Germ.; *Arcanelater spurius* (Germar, 1841) C. Costa det. 1975; BM.

Conservation status: Good condition.

Paralectotype: 1 [unknown sex]. [on red] Paralectotipo; 41; [on green] Porto Alegre, Jan 220; Nr. 17169; *Arcanelater spurius* (Germar, 1841) C. Costa det. 1975; BM.

Conservation status: Good condition.

Additional notes: Originally described in *Pyrophorus* Billberg, 1820.

Genus *Atractosomus* Lacordaire, 1857

***Atractosomus amazonicus* Casari, 2012: 419**

Holotype: 1 ♂. Belém, Pará, Brasil, IX.1964, E. Dente; *Atractosomus amazonicus* Casari, 2012; [on red] Holótipo.

Conservation status: Good condition.

Paratype: 1 ♂. Coleção J. Lane; Oter—Amapá, Serranavio, H Bicelli col.; *Atractosomus amazonicus* Casari, 2012; [on red] Parátipo.

Conservation status: *Idem*.

Paratype: 1 ♂. Sta. Isabel do Pará, PA, Brasil, 30.II.1962, J. Bechyné col.; Convênio DZSP–Goeldi; *Atractosomus amazonicus* Casari, 2012; [on red] Parátipo.

Conservation status: *Idem*; genitalia into a microvial with glycerin.

Genus *Athous* Eschscholtz, 1829

***Athous fueguensis* Golbach & Aranda, 1991: 85**

Paratype: 1 [unknown sex]. *Athous fueguensis* n. sp., Golbach, Aranda; Ensenada, Parque Nac. Ushuaia, Tierra del Fuego—ARG, 83–XI–5, LEG. APS; [on yellow] Parátipo.

Conservation status: Good condition; mounted on a card.

Paratype: 1 [unknown sex]. *Athous fueguensis* n. sp., Golbach, Aranda; Pq. Garibaldi, R. Nac. 3, Tierra del Fuego—ARG, 83-X-23. LEG. APS; [on yellow] Parátipo.

Conservation status: Good condition.

***Athous orvus* Becker, 1974: 742**

Paratype: 1 [unknown sex]. Ste-Foy 23.vii.62, Québec Co.; J.-C. Aubé; [on yellow] Paratype, *Athous orvus* Becker, CNC No. 5660.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Ste-Foy 19.vii.62, Québec Co.; G. Chantal; [on yellow] Paratype, *Athous orvus* Becker, CNC No. 5660.

Conservation status: Good condition.

Genus *Buckelater* Costa, 1973

***Buckelater argutus* Costa, 1973: 35**

Holotype: 1 ♂. [on red] Holótipo; S. Caraça (Engenho), 800m—Minas—XI [1]961, Kloss, Lenko, Martins & Silva col.; [on red] *Buckelater argutus* C. Costa det. 1973, Holótipo.

Conservation status: Good condition; specimen glued on triangle by its abdomen.

Paratype: 1 [unknown sex]. S. Caraça (Engenho), 800m—Minas—XI [1]961, Kloss, Lenko, Martins & Silva col.; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: Good condition; specimen glued on triangle by right elytra.

Paratype: 2 [unknown sex]. S. Caraça (Engenho), 1380m—Minas—XI [1]961, Kloss, Lenko, Martins & Silva col.; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: Bad condition. Both specimens glued on triangle: one with several appendixes glued on the same triangle; the other with one leg and part of the abdomen glued on the triangle.

Paratype: 2 [unknown sex]. Ponta Grossa, XII-1938, Camargo col.; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: Bad condition: one totally dissected, glued on triangle under specimen, and 2 slides with mouthparts and genitalia; other glued on triangle with several appendix missing.

Paratype: 3 [unknown sex]. Barueri, SP, Brasil, 21.1955, K. Lenko col., 7270; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: One slide with one wing; a slide with genitalia; microvial with glycerin with one specimen dissected in bad condition.

Paratype: 2 [unknown sex]. Paraná, Guaraúna, I-1938, J. Pinh. Machado coll.; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: Both in good condition; glued on triangle by abdome.

Paratype: 2 [unknown sex]. São Paulo, Cantareira, 6181; [on red] *Buckelater argutus* C. Costa det. 1973, Parátipo.

Conservation status: *Idem*.

Genus *Cardiophorus* Eschscholtz, 1829

***Cardiophorus insularis* Cobos, 1959: 468**

Holotype: 1 ♀. Coleção M. Alvarenga; [on red] Holótipo; ♀; Ilha Fernando de Noronha, Brasil, V.1954, M. Alvarenga; *Cardiophorus insularis* nov. sp., Holótipo, A. Cobos det. 1958.

Conservation status: Good condition; genitalia glued on white card under specimen.

Paratype: 1 [unknown sex]. [on red] Paratipo; I. Fernando de Noronha, Brasil, V.1954; *Cardiophorus insularis* nov. sp., Parátipo, A. Cobos det. 1958.

Conservation status: Good condition.

Genus *Cardiorhinus* Eschscholtz, 1829

***Cardiorhinus coralinus* Golbach, 1983b: 161**

Holotype: 1 [unknown sex]. Mury, Nova Friburgo, Rio de Janeiro—Br., 1–31.Jan.1965, Gred & Guimarães col.; *Cardiorhinus coralinus* n. sp. det. R. Golbach 1981; [on red] Holótipo.

Conservation status: Good condition. Genitalia and last abdominal segment glued on card under specimen.

***Cardiorhinus costae* Golbach 1983b: 162**

Holotype: 1 ♂. Brasil—Paraná, Ponta Grossa, Camargo col., II.39; ♂; [on red] Holótipo; C; *Cardiorhinus costae* n. sp., det. R. Golbach, 1981, Holótipo.

Conservation status: Good condition.

Allotype: 1 ♀. Brasil—Paraná, Ponta Grossa, Camargo col., XII.38; ♀; [on red] Alótipo; C; *Cardiorhinus costae* n. sp., det. R. Golbach, 1981, Alótipo.

Conservation status: Good condition.

Paratype: 1 ♂. Paraná, Guararaúna, I–1938; J. Pinha Machado coll.; ♂; *Cardiorhinus costae* n. sp., det. R. Golbach, 1981; [yellow] Parátipo.

Conservation status: Good condition.

***Cardiorhinus parapullatus* Golbach, 1983b: 165**

Holotype: 1 ♂. Coleção J. Lane; São Paulo, Pres. Epitácio, J. Lane col., x.54; Pto. Albano, Rio Paraná; C; ♂; [on red] Holótipo; *Cardiorhinus parapullatus* n. sp., det. R. Golbach, 1981.

Conservation status: Good condition; specimen glued on triangle by left elytra.

Paratype: 1 ♂. Castilho, Marg. esq., R. Paraná, SP, X.1964. Exp. Depto. Zool.; [on yellow]; *Cardiorhinus parapullatus* n. sp., det. R. Golbach, 1981.

Conservation status: Good condition.

Paratypes: 2 ♂. São Paulo, P. Epitácio Rabello, 10.x.1954; ♂; *Cardiorhinus parapullatus* n. sp., det. R. Golbach, 1981. [on yellow] Parátipo.

Conservation status: Good condition.

***Cardiorhinus schwarzi* Golbach, 1983a: 47**

Paratype: 1 ♀. 18.505, São Paulo, Ypiranga; ♀; [on yellow] PARÁTIPO; *Cardiorhinus schwarzi* n. sp., det. R. Golbach 1979.

Conservation status: Good condition; left antenna broken.

***Cardiorhinus saulensis* Chassain, 2011: 209**

Paratypes: 1 [unknown sex]. Guyane Française, RN2 PK65 5.10.08, piège vitre SEAG; Doação J. Chassain; [on red] *Cardiorhinus saulensis* Chassain; [on red] Parátipo.

Conservation status: Good condition; specimen glued by elytra on white card; left antenna glued on the same card.

Paratypes: 1 [unknown sex]. Mgte d. Chevaux, RN2 PK22 Roura; Piège Vitre, 1.xi.2009 SEAG; Doação J. Chassain; [on red] *Cardiorhinus saulensis* Chassain; [on red] Parátipo.

Conservation status: Good condition, specimen glued on white card. Genitalia glued along in the same card.

***Cardiorhinus ypirangus* Golbach, 1983b: 168**

Holotype: 1 [unknown sex]. Ypiranga; *Cardiorhinus ypirangus* n. sp., det. R. Golbach 1981; [on red] Holótipo.

Conservation status: Good condition; left antenna missing. Genitalia glued on transparent card under specimen.

Genus *Chalcolepis* Candèze, 1857

***Chalcolepis austerus* Casari, 1999: 205**

Paratype: 1 [unknown sex]. Costa Rica, San José; Museum Paris, ex Coll., R. Oberthur; *Chalcolepis austerus* Casari, 1999, S. A. Casari det. 1999; [on red] Paratype.

Conservation status: Good condition.

Paratype: 1 ♀. ♀; Purula, Vera Paz, Champion; B.C.A Col. III (1). *Chalcolepis* [illegible] Cand; *Chalcolepis austerus* Casari, 1999, S. A. Casari det. 1999; [on red] Paratype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen; left proleg glued on triangle under specimen.

Genus *Chalcolepidius* Eschscholtz, 1829

***Chalcolepidius albiventris* Casari, 2002: 276**

Holotype: 1 ♂. México, Soterpan (Veracruz) 300m, X.1985 T. Porion; SRGI; Retained SRGI; *Chalcolepidius albiventris* S. A. Casari, 2002; [on red] Holotype.

Conservation status: Good condition; some antenomers missing on both antennae.

***Chalcolepidius serricornis* Casari, 2002: 329**

Paratype: 1 ♂. México, Veracruz, Los Turtlas, 6-IV-87, C. Mayoiga; Coleccion del Instituto de Biologia, UNAM, México, D.F.; Retained UNAM; *Chalcolepidius serricornis* S. A. Casari, 2002; [on red] Paratype; [on red] Paratype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Paratype: 1 ♂. Mexico, Soteapon (Veracruz) 500m, out 1989, T. Porion cedit; Retained SRGI; SRGI; *Chalcolepidius serricornis* S. A. Casari, 2002; [on red] Paratype; [on red] Paratype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

***Chalcolepidius truncuvittatus* Casari, 2002: 336**

Holotype: 1 ♂. MEX Tamaulipas, Bocotoma area 7 km SSE Gomez Farias, June 1–4 1982, J. E. Wappes; *Chalcolepidius eschscholtzi* Cherr. det. E. C. Becker 1988; Retained JEW; *Chalcolepidius truncatipennis* S. A. Casari, 2002; [on red] Holotype.

Conservation status: Good condition.

***Chalcolepidius virgatipennis* Casari, 2002: 341**

Paratype: 1 [unknown sex]. Paratype labels: Mex; Museum Paris, Coll. E. FLEUTIAUX; Retained MNHN; *Chalcolepidius virgatipennis* S. A. Casari, 2002; [on red] Paratype; [on red] Paratype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Genus *Cleidecosta* Johnson, 2002

***Cleidecosta obscurus* (Costa, 1975b): 74**

Holotype: 1 ♂. Pernambuco, Tapera, 1–932; 468; [on red] Holótipo; *Heligmus obscurus* C. Costa det. 1975, holótipo.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Additional notes: The species was originally described in the genus *Heligmus* Candèze, 1857, a preoccupied name, replaced by *Cleidecosta* Johnson (2002).

Paratype: 1 [unknown sex]. Bolivia, Pcia. Ienillo, Buenavista II.1950, A. Martinez leg.; [on red] Holótipo; *Heligmus obscurus* C. Costa det. 1975, parátipo.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Xingu, M. Grosso, BR. IX. 1955, O. VILLA BOAS; MNRJ; [on red] Holótipo; *Heligmus obscurus* C. Costa det. 1975, parátipo.

Conservation status: Good condition.

Paratype: 1 ♀. Guaira (Sete Quedas)—PR—Brasil, 9–XII.1969, G.R. Kless col.; [on red] Holótipo; *Heligmus obscurus* C. Costa det. 1975, parátipo.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Genus *Coctilelater* Costa, 1975

***Coctilelater minimus* Rosa, 2009: 36**

Paratype: 1 [unknown sex]. Brasil, Pará, Serra Norte, N1. Floresta, 31.X a 2. XI.1985; Brasil, Pará, F. F. Ramos; Armadilha Malayse; [on red] *Coctilelater minimus* Rosa, Paratype; Retido.

Conservation status: Good condition; glued on triangle by mesoventrite.

***Coctilelater rosae* Chassain, 2009: 55**

Paratypes: 1 ♂, 4[unknown sex]. Guyane française, Belize; Piège intercept, Novembre 2006[3 specimens] Novembre 2005 [2 specimens], JL Giuglaris; [on red] Paratype; *Coctilelater rosae* n. sp., J. Chassain, 2007.

Conservation status: Good condition; all specimens mounted on white cards; genitalia of one male glued on the same card.

Paratype: 1 [unknown sex]. Guyane française, JL Giuglaris leg.; Regina, RN2, pk125, 21.X.2007; [on red] Paratype; *Coctilelater rosae* n. sp., J. Chassain, 2008.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Guyane française, Mtgne des Chevauxm RN2 PK22, Roura 27.10.2008 SEAG; Piège intercept. à vitre; [on red] Paratype; *Coctilelater rosae* n. sp., J. Chassain, 2009.

Conservation status: Good condition.

Genus *Ctenicera* Latreille, 1829

***Ctenicera comes* (Brown, 1939): 48**

Paratypes: 1 [unknown sex]. Vancouver, B.C., 31.V.1931, H.B. Leech; [on yellow] Paratype, *Ludius comes* No. 04421 Brown.

Conservation status: Good condition.

Genus *Cyathodera* Blanchard, 1846

***Cyathodera auripilosus* Costa, 1968: 161**

Holotype: 1 ♂. Unaí (Faz. Bolívia), MG, Brasil, 22–24.X.1964, Exp. Dep. Zoologia; [on red] Holótipo; [on red] *Anoplischius* (*Cyathodera*) *auripilosus* Costa det. 1968, holótipo.

Conservation status: Good condition; one posterior leg and genitalia glued on transparent cards under specimen.

Additional notes: The species was described in the genus *Anoplischius* when *Cyathodera* was then a subgenus. Johnson (2002) elevated *Cyathodera* to genus level.

Paratypes: 2 ♂. *Idem*, parátipo.

Conservation status: Good condition.

Paratype: 1 ♂. Morro da Garça, MG—Brasil, 18–20.X.1964, Exp. Dep. Zoologia; [on red] *Anoplischius* (*Cyathodera*) *auripilosus* Costa det. 1968, parátipo.

Conservation status: *Idem*.

Paratype: 1 ♂. Dianópolis, GO, Brasil, 11–14.I.1962, J. Bechyné col.; [on red] *Anoplischius* (*Cyathodera*) *auripilosus* Costa det. 1968, parátipo.

Conservation status: *Idem*.

Genus *Dalopius* Eschscholtz, 1829

***Dalopius cognatus* Brown, 1934a: 38**

Paratype: 1 ♂. Gravenhuset July, 1932, Ont., G. M. Stirret; [on yellow] Paratype, *D. cognatus* Brown, No. 3544; *Dalopius cognatus*.

Conservation status: Good condition; left antenna missing. Specimen glued on white triangle by mesoventrite.

Paratype: 1 ♀. Knowlton, Que, 14.6.1928, W.J. Brown; ♀, 1 ½; [on yellow] Paratype, *D. cognatus* Brown, No. 3544.

Conservation status: *Idem*.

***Dalopius fucatus* Brown, 1934d: 104**

Paratype: 1 ♀. Nest Pass., Alta, 9.vi.1930, J. H. Pepper; ♀; [on yellow] Paratype, *D. fucatus* Brown, No. 3576.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius gentilis* Brown, 1934b: 71**

Paratype: 1 ♀. Go Home Bay, Ont. 6-vii-1932, G.S. Walley; Flat Rock Falls, Go Home R.; ♀; [on yellow] Paratype, *D. gentilis* Brown, No. 3552.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius gartrelli* Brown, 1934c: 89**

Paratype: 1 ♀. Summerland, B.O. 29–vi–1932; [on yellow] Paratype, *D. gartrelli* Brown, No. 3555.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

Paratype: 1 [unknown sex]. Summerland, B.O. 9-vi-1932; [on yellow] Paratype, *D. gartrelli* Brown, No. 3555.

Conservation status: Good condition. Glued on white triangle by mesoventrite.

***Dalopius gracilis* Brown, 1934c: 92**

Paratype: 1 ♀. Berkeley, Calif, April, 1932, H.W. Saylor; [on yellow] Paratype, *D. gracilis* Brown, No. 3562.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius pallidus* Brown, 1934c: 87**

Paratype: 1 [unknown sex]. Aylmer, Que., 19-vi-1932, W.J. Brown; [on yellow] Paratype, *D. pallidus* Brown, No. 3554.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

Paratype: 1 ♀. Aylmer, Que., 30-vi-1932, W. J. Brown; [on yellow] Paratype, *D. pallidus* Brown, No. 3554.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius ignobilis* Brown, 1934d: 107**

Paratype: 1 ♀. Fallen Leaf; Lake, vi.24.30; Lake Tahoe, Calif.; A.T. McClay collector; [on yellow] Paratype, *D. ignobilis* Brown, No. 3579.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius tristis* Brown, 1934d: 105**

Paratype: 1 ♀. Creston, B.C., 28.iv.1931; G. Stace Smith; ♀; [on yellow] Paratype *D. tristis* Brown, No. 3577.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

***Dalopius vagus* Brown, 1934b: 66**

Paratype : 1 ♀. Aylmer, Que., 17.VI.1932, W.J. Brown; [on yellow] *D. vagus* Brown, No. 3545.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

Paratype: 1 [unknown sex] Aylmer, Que., 30.vi.1932, W.J. Brown; [on yellow] *D. vagus* Brown, No. 3545.

Conservation status: Good condition. Specimen glued on white triangle by mesoventrite.

Genus *Dicrepidius* Eschscholtz, 1829

***Dicrepidius brasiliensis* Casari, 2009: 55**

Holotype: 1 ♂. Brasil, Mato Grosso, Nova Mutum, Faz. Buriti, 04/14-II-2002, H.F. Mendes; Elateridae, Coleoptera; *Dicrepidius brasiliensis* SA Casari, 2009 Holotype.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Genus *Fulgeochlizus* Costa, 1975

***Fulgeochlizus noctivagus* Costa, 1991: 567**

Holotype: 1 ♂. Argentina, Peia San Juan, Marayes 13.X.1964, A. Martinez leg.; [on red] *Fulgeochlizus noctivagus* holótipo, C. Costa det. 1990.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratypes: 7 [unknown sex], 1 ♂. Argentina, Peia San Juan, Marayes 13.X.1964, A. Martinez leg.; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990.

Conservation status: Good condition; one specimen with one antenna glued on transparent card under specimen; 1 male with genitalia glued on transparent card under specimens; and 2 specimens with abdomen glued on cards under specimen.

Paratype: 1 ♂. Argentina, La Rioja, Mascasin I-959; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Argentina, La Rioja, Mascasin II-957; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990; CDA.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Argentina, La Rioja, Capital, 6.III-970, Porter-Stange; Entomofauna Subandina; Inst. M. Lillo; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990; CDA.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Argentine, La Rioja Prov., Patquia. K.J. Hayward. B.M. 1933-333 Inst.; BM; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990; CDA.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Argentina, Catamarca, El Rodeo, 8.28. I. 1959, Col. R. Golbach; Inst. M. Lillo; [on red] *Fulgeochlizus noctivagus* parátipo, C. Costa det. 1990; CDA.

Conservation status: Good condition.

***Fulgeochlius pullatus* Costa, 1991: 571**

Paratype: 1 [unknown sex]. Paratype labels: Filadelfia, Fer. Col. Chaco, Parag. XI-15-55; Light; J. L. Nickel Collector; Coll. MZSP, São Paulo BR, Ex. Coll. EMEC; [on red] *Fulgeochlius pullatus* sp n., parátipo, C. Costa det. 1990.

Conservation status: Good condition.

Genus *Lygelater* Costa, 1975

***Lygelater succinum* Costa, 1980a: 303**

Holotype: 1 ♂. Bugaba, 800–1500 ft., Champion; B. C. A. Coll. III (1), *Pyrophorus fulgidus* Ger.; BM; [on red] *Lygelater succirous* holótipo, C. Costa det. 1979; [on red] holótipo.

Conservation status: Good condition; genitalia and abdomen glued on transparent card under specimen.

Paratype: 1 ♀. Bugaba, 800–1500 ft., Champion; B. C. A. Coll. III (1), *Pyrophorus fulgidus* Ger.; BM; [on red] *Lygelater succirous* parátipo, C. Costa det. 1979; ♀.

Conservation status: Good condition.

***Lygelater torridus* Costa, 1980a: 304**

Holotype: 1 ♂. Canindé (Rio Gurupi), Pará, Brasil, XII.1964, B. Malkin col.; [on red] Holótipo; [on red] *Lygelater torridus* holótipo, C. Costa det. 1979.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 ♂. Canindé, Rio Gurupi, Pará, Brasil, VI.1963, B. Malkin col.; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 ♀. Borba, Amazonas, 7.943; Coll. J. Guérin, S. Paulo Brasil, 15968; ♀; IB; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 ♀.: Lago Acará, Mb Borba, m/d Rio Madeira, 20.VIII.10.IX.1943, A. Parteo; CS; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratypes: 1 ♀, 1 ♂. Coleção Campos Seabra; Mangabeira Mocajuba, Para Brasil, II–1953, Orlando M. Rego; 112; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; female with abdomen and genitalia glued on card under specimen; male with genitalia into microvial with glycerin.

Paratype: 1 [unknown sex]. Coll. Janson; Ega, Amazons, Bates; BM; 99; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brazil; E.Y. Western Coll., B. M. 1924–176.; BM; 122; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Janson coll., ex. Schaum., 1903–130; Bq.; ignitus, F., Cayenne; BM; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Parintins, Amazonas, 1.1940; Coll. J. Guérin, S. Paulo Brasil, 9199; IB; ♀; 100; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 [unknown sex]. Brazil. Coll. Janson; BM; 121; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cayenne; Coll. Janson., Ex Dejean; 113; *Pyrophorus ignitus* Fab., Candeze det.; P. ignitus Fab, Cayenne; BM; 95; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Guyane; Collection E. Candèze; *Pyrophorus ignitus* Fab., Candèze det.; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979; Coll. MZSP, São Paulo BR, Ex Coll ISNB.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cayenne, Coll. Madon; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979; Coll. MZSP, São Paulo BR, Ex Coll ISNB.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Mangabeira Mocajuba, Para Brasil, II–1953; CS; Pa; 107; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 ♂. Obidos, Amazonas, 5.1929, B. Pohl; Elat. 115; P. ignitus; IB; 115; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; female with abdomen and genitalia glued on card under specimen.

Paratype: 1 ♀. Coleção Campos Seabra; Óbidos, Pará, Brasil, IV–1955, J. Braziline; CS; 114; [on red] *Lygelater torridus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; genitalia glued on card under specimen.

Genus *Globothorax* Fleutiaux, 1891

***Globothorax latidens* Rosa, 2011: 13**

Holotype: 1 ♂. Cuiabá–MT, Faz. Mutuca, vale do R. Mutuca 4–11.X.2008, interceptação, J. R. M. Rocha, A. L. Silva & F. H. Gava col.; [on red] Holótipo; [on red] *Globothorax latidens* Rosa, 2011, Holótipo.

Conservation status: Good condition; glued on triangle by mesosternum.

Paratypes: 261 ♂. 200 *idem* holotype; 52 *idem* holotype, collected on 25.X.2008; 9 *idem* holotype, collected on 29.XI–6.XII.2008.

Conservation status: *Idem*.

Genus *Hapsodrilus* Costa, 1975

***Hapsodrilus amydrus* Casari–Chen, 1986: 221**

Holotype: 1 ♂. Holotype labels: Costa Rica—MS, 21–25.X.[19]84, Exp. MZSP e IQUSP col.; [on red] Holótipo; [on red] *Hapsodrilus amydrus* S. A. C–Chen, 1985.

Conservation status: Good condition, genitalia into microvial with glycerin under specimen.

Paratype: 1 ♂. *Idem*, [on red] Parátipo.

Conservation status: *Idem*.

Genus *Horistonotus* Candèze, 1860

***Horistonotus angustifrons* Casari, 2011: 3**

Holotype: 1 ♂. Canindé do S. Fco (SE), (Faz. Brejo), 22.IV.2000 am 1, Tannuzi, L. col. (Malaise); Proj. Xingó, Biodiversidade, Área 5; [on red] Holótipo; *Horistonotus angustifrons* Casari, 2011.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. *Idem*; [on red] Parátipo; *Horistonotus angustifrons* Casari, 2011.

Conservation status: *Idem*.

Paratype: 2 [unknown sex]. Canindé do S. Fco (SE), (Faz. Brejo), 15.IV.2000 am 1, Tannuzi, L. col. (Malaise); Proj. Xingó, Biodiversidade, Área 5; [on red] Parátipo; *Horistonotus angustifrons* Casari, 2011.

Conservation status: One in good condition; other totally dissected, glued on triangle, with genitalia dissected under specimen into microvial with glycerin.

Paratype: 1 [unknown sex]. Canindé do S. Fco. (SE), (Faz. Poço Verde), 18.III.2000 (am 1), Ianuzzi, L. col., (Malaise); [on red] Parátipo; *Horistonotus angustifrons* Casari, 2011.

Conservation status: Good condition.

***Horistonotus caatinguensis* Casari, 2011: 5**

Holotype: 1 ♂. Canindé do S. Fco (SE), (Faz. Poço Verde), 11.III.2000 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó, Biodiversidade Area 3; [on red] Holotype; *Horistonotus caatinguensis* Casari, 2011.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Reserva Chesf), 14.IX.2000 am 3, Ianuzzi, L. col., (Malaise); Projeto Xingó, Biodiversidade Area 1; [on red] Paratype; *Horistonotus caatinguensis* Casari, 2011.

Conservation status: Good condition; specimen glued on triangle by mesoventrite.

Paratype: 1 [unknown sex]. Olho d'água do Casado (AL), (Faz. Talhado), 7.XII.2000 am 4, Ianuzzi, L. col., (Malaise); Projeto Xingó, Biodiversidade Area 6; [on red] Paratype; *Horistonotus caatinguensis* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 4.III.2000, Ianuzzi, L. col., (Malaise); Projeto Xingó, Biodiversidade Area 4; [on red] Paratype; *Horistonotus caatinguensis* Casari, 2011.

Conservation status: Good condition. The material was metal coated for SEM and is to the side of the labels. Genitalia are in a microvial with glycerin.

***Horistonotus delicatus* Casari, 2011: 7**

Holotype: 1 ♂. Piranhas (AL), (Faz. Mecejana), 15.IV.2000 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 7; [on red] Holotype; *Horistonotus delicatus* Casari, 2011.

Conservation status: Good condition; specimen glued on triangle by mesoventrite.

Paratype: 1 [unknown sex]. Canindé do S. Fco. (SE), (Faz. Brejo), 15.IV.2000 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 6; 321; *Horistonotus* sp., S. Rosa det. 2002; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco. (SE), (Faz. Poço Verde), 22.III.2001 am 5, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Canindé do S. Fco. (SE), (Faz. Poço Verde), 25.III.2001 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 22.IV.2000 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Reserva da CHESF), 17.VIII.2000 am 3, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 8; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Olho d'água do Casado (AL), (Faz. Capelinha), 1.VII.2000 am 2, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'água do Casado (AL), (Faz. Vera Cruz), 8.VI.2000 am 2, Ianuzzi, L. col., (Malaise); 319; *Horistonotus* sp., S. Rosa det. 2002 ; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Piranhas (AL), (Faz. Mecejana), 18.III.2000 am 1, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 7; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Reserva da CHESF), 22.III.2001 am 5, Ianuzzi, L. col., (Malaise); Projeto Xingó Biodiversidade, Área 8; [on red] Paratype; *Horistonotus delicatus* Casari, 2011.

Conservation status: Bad condition; prothorax missing; head glued on triangle; genitalia into microvial with glycerin under specimen.

Additional notes: along with the specimen there is a tube with metal piece with a label 2.

***Horistonotus jaburiensis* Casari, 2011: 9**

Holotype: 1 ♂. Canindé do S. Francisco (SE), (Faz. Jaburú), 24.VIII.2000 am 3, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Holotype; *Horistonotus jaburiensis* Casari, 2011.

Conservation status: Good condition. Along with the specimen there is a tube with bodypart metalized with a label 7.

***Horistonotus sergipinus* Casari, 2011: 14**

Holotype: 1 ♂. Canindé do S. Francisco (SE), (Faz. Jaburú), 25.III.2000 (am 1), Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 5; [on red] Holotype; *Horistonotus sergipinus* Casari, 2011.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

***Horistonotus tricarinatipennis* Casari, 2011: 14**

Holotype: 1 ♂. Canindé do S. Francisco (SE), (Faz. Poço Verde), 4.III.2000 (am 1), Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; *Horistonotus* sp., S. Rosa det. 2002; [on red] Holotype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: Good condition.

Paratypes: 5 [unknown sex]. Canindé do S. Francisco (SE), (Faz. Poço Verde), 4.III.2000 (am 1), Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. *Idem*; *Horistonotus* sp., S. Rosa det. 2002.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. Canindé do S. Francisco (SE), (Faz. Poço Verde), 18.III.2000 (am 1), Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. *Idem*, except 25.III.2000.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. *Idem*, except 08.IV.2000.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. *Idem*, except 22.IV.2000.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'Água do Casado (AL), (Faz. Talhado), 7.XII.2000 am 4, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 6; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'Água do Casado (AL), (São José), 16.XI.2000 am 4, Ianuzzi, L. col. (Solo); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Francisco (SE), (Faz. Poço Verde), 15.IV.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: Bad condition; material dissected. Several parts into microvial with glycerin under specimen.

Paratype: 1 [unknown sex]. Canindé do S. Francisco (SE), (Faz. Poço Verde), 18.III.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus tricarinatipennis* Casari, 2011.

Conservation status: Bad condition; abdomen dissected; genitalia into microvial with glycerin under specimen on a glycerin tube.

Additional notes: Two microvials: one with a metalized specimen (labeled as number 4); another with an unmounted material (labeled as number 11) and with the additional information of locality: Canindé, Faz. Poço Verde, 11.III.200, Area 1.

***Horistonotus xingoensis* Casari, 2011: 16**

Holotype: 1 ♂. Canindé do S. Francisco (SE), (Faz. Poço Verde), 25.III.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; *Horistonotus* sp., S. Rosa det. 2002; [on red] Paratype; *Horistonotus xingoensis* Casari, 2011.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Paratype: 1 [unknown sex]. Canindé do S. Francisco (SE), (Faz. Poço Verde), 15.IV.2000 am 1, Ianuzzi, L. col. (Malaise); *Horistonotus* sp., S. Rosa det. 2002; [on red] Paratype; *Horistonotus xingoensis* Casari, 2011.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Olho d'Água do Casado (AL), (Faz. Talhado), 30.XI.2000 am 4; Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 6; [on red] Paratype; *Horistonotus xingoensis* Casari, 2011.

Conservation status: Good condition.

***Horistonotus nordestinus* Casari, 2011: 9**

Holotype: 1 ♂. Canindé do S. Fco (SE), (Faz. Poço Verde), 15.IV.2000 am1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Holotype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: Good condition.

Paratypes: 4 [unknown sex]. Canindé do S. Fco (SE), (Res. Chesf) 17.VIII.2000 am3, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: Good condition; specimens glued on triangles by mesoventrite.

Paratypes: 3 [unknown sex]. Canindé do S. Fco (SE), (Faz. Jaburú) 17.VIII.2000 am3, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 6 [unknown sex]. *Idem*, except for the date of collection 14.IX.2000.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Canindé do S. Fco (SE), (Res. Chesf) 1.VI.2000 am2, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 8; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: Good condition; specimens glued on triangles by mesoventrite.

Paratypes: 2 [unknown sex]. Canindé do S. Fco (SE), (Res. Chesf) 1.III.2000 am5, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 8; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Olho d'Água do Casado (SE), (Faz. Capelinha) 11.V.2000 am2, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: Good condition; specimens glued on triangles by mesoventrite.

Paratypes: 3 [unknown sex]. Olho d'Água do Casado (SE), (Faz. São José) 23.XI.2000 am4, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 4; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Olho d'Água do Casado (SE), (Faz. Talhado) 30.XI.2000 am4, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 6; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. *Idem*, 26.X.2000, Área 5.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Piranhas (AL), (Faz. Mecejana), 18.III.2000 (am 1), Ianuzzi, L. col. (Malaise.); Projeto Xingó Biodiversidade, Área 7; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: Good condition; specimens glued on triangles by mesoventrite.

Paratype: 1 [unknown sex]. *Idem*, except for the date of collection 25.III.2000.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Olho d'Água do Casado (SE), (Faz. Talhado) 7.XI.2000 am4, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 6; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Piranhas (AL), (Faz. Mecejana), 08.IV.2000 am1, Ianuzzi, L. col. (Malaise). Projeto Xingó Biodiversidade, Área 7; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 5 [unknown sex]. *Idem*, except 15.IV.2000.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'água do Casado (AL), (Faz. Capelinha), 25.V.2000 am 2, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'água do Casado (AL), (Faz. São José, 31.IX.2000 am 42, Ianuzzi, L. col. (Solo); Projeto Xingó Biodiversidade, Área 4; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011. *Horistonotus* sp. S. Rosa det. 2002.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Canindé do S. Fco (SE), (Faz. Brejo), 4.III.2000 am 1, Ianuzzi, L. col. (Malaise) Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco. (SE), (Reserva CHESF), 28.IX.2000 am 3, Ianuzzi, L. col. (solo); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Piranhas (AL), (Faz. Mecejana), 22.IV.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 7; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Canindé do S. Fco (SE), (Faz. Jaburú), 21.IX.2000 am 3, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. Canindé do S. Fco (SE), (Faz. Miramar), 08.II.2001 am 5, Ianuzzi, L. col. (3 Malaise, 1 solo); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 6 [unknown sex]. Canindé do S. Fco (SE), (Faz. Miramar), 01.III.2001 am 5, Ianuzzi, L. col. (3 Malaise, 3 solo); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 04.III.200 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Canindé do S. Fco (SE), (Faz. Esplanada), 28.IX.200 am 3, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Canindé do S. Fco (SE), (Faz. Miramar), 15.III.2001 am 5, Ianuzzi, L. col. (solo); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Olho d'água do Cassado (AL), (Faz. Vera Cruz), 29.VI.2000 am 2, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 11.III.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 1; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. *Idem*, except 4.III.2000.

Conservation status: *Idem*.

Paratypes: 4 [unknown sex]. Canindé do S. Fco (SE), (Faz. Miramar), 22.II.2001 am 5, Ianuzzi, L. col. (3 Malaise, 1 Solo); Projeto Xingó Biodiversidade, Área 5; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 18.II.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. *Idem*, 11.III.2000.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 25.III.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. *Idem*, (Faz. Porto Belo), 17.VII.2000, am 3.

Conservation status: *Idem*.

Paratypes: 3 [unknown sex]. *Idem*, (Faz. Poço Verde), 22.IV.2000, am 1.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. Canindé do S. Fco (SE), (Faz. Poço Verde), 08.IV.2000 am 1, Ianuzzi, L. col. (Malaise); Projeto Xingó Biodiversidade, Área 3; [on red] Paratype; *Horistonotus nordestinus* Casari, 2011.

Conservation status: *Idem*.

Genus *Hypnoidus* Stephens, 1830

***Hypnoidus beckeri* Stibick, 1980: 254**

Paratypes: 1 [unknown sex]. [on a yellow circle] Paratype; India: Bengal, Darjeeling Hills, Sandakphu, 12.000 ft. 5.v.1934, H.G. Champion; Paratype, *Hypnoidus beckeri* Stibick.

Conservation status: Good condition; glued on card.

Genus *Hypolithus* Eschscholtz, 1829

***Hypolithus nepalensis* Ohira & Becker, 1973: 74**

Paratype: 1 [unknown sex]. 27°58'N. 85°00'E.; Nepal, 11, 100 ft., 12. May, 1967, Can. Nepal. Exped.; [on yellow] Paratype, CNC No. 13770, *Hypolithus nepalensis* Ohira & Becker.

Conservation status: Good condition.

Genus *Hypsiophthalmus* Latreille, 1834

***Hypsiophthalmus charops* Costa, 1978: 267**

Paratype: 1 ♂. Petrop. Bras.; F. Sabliberg; 1208; Mus. Zool. Helsinki n.o., 1578; [on red] paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Petrópolis, Feb. 1857, H. Clark; Coll. Janson; BM; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition; glued on card.

Paratype: 1 [unknown sex]. Fry. Riorani; Fry. Coll. 1905.100; BM; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Candéze; 58; Pyrearinus Esch.; Mus. Zool. Helsinki N.o 15579; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Petrop. Brs.; F. Sahlb.; 279.; Mus. Zool. Helsinki N.o 15380; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 ♂. Monterides; Collection, E. Candéze; *Pyrophorus rariesche* [ilegible] det. E. Candéze; Coll. MZSP, Sao Paulo BR, Ex. Coll. ISNB; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Brasilia; F. Sahlberg; 1207; Mus. Zool. Helsinki N.o 15581; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brasilia; CNHM, 1955, Karl Branesik Colln.; ex. Eduard Knirsch; CNHM; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen.

Paratype: 1 [unknown sex]. Specimen orig. without labels in colla but associated with specimen bearing attached data; Brasilia; CNHM, 1955, Karl Breansik Colln., ex. Eduard Knirsch; CNHM; [on red] Paratipo; [on red] *Hypsiophthalmus charops* C. Costa det. 1978.

Conservation status: Good condition.

***Hypsiophthalmus luscus* Costa, 1979: 271**

Holotype: 1 ♂. V. Caraguatá P. Bristal, S. Paulo—Capital, 10.X.1965, Brasil, B.M. Dias—col.; [on red] *Hypsiophthalmus luscus* sp. nov., holótipo, C. Costa det. 1979; [on red] Holótipo.

Conservation status: Good condition; right antenna missing; abdomen glued on card under specimen; genitalia and last abdominal ventrites glued on transparent card under specimen.

Paratypes: 2 [unknown sex]. 46 ol; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979; [on red] Parátipo; F.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Ypiranga; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979.

Conservation status: Good condition. Abdomen glued on card under specimen.

Paratype: 1 [unknown sex]. 1969, Jundiahy, E. S. Paulo; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. 49. São Paulo, Capital; F; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979.

Conservation status: Good condition; right antenna missing.

Paratype: 1 ♂. Casa Grande, S. Paulo, 3.937; Coll. J. Guérin, S. Paulo, Brasil, 9172; *Pyrophorus ranimus* Esch., J. Guérin. det. 1942; IB; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979.

Conservation status: Good condition; genitalia and left antenna glued on transparent card under specimen.

Paratype: 1 ♂. *Pyrophorus*; *Hypsiophthalmus microspilus* (Germar, 1841), C. Costa det. 1972; [on red] *Hypsiophthalmus luscus* sp. nov., parátipo, C. Costa det. 1979; IB.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Genus *Ignelater* Costa, 1975

***Ignelater glaesum* Costa, 1980b: 159**

Paratypes: 1 ♂, 2 [unknown sex]. 17.iv–26.viii, 1938. Oxf. Un. Cayman Is, Biol. Exped., coll; by C. B. Lewis, G. H. Thompson; 20. V.1929, Cayman Brac, West end of, Cotton-tree, Land. Light trap B.; Pres. Hope, Dept. Oxford, B. M. 1967–147.; BM; [on red] *Ignelater glaesum* parátipo, C. Costa det. 1979.

Conservation status: Good condition; one specimen with abdomen glued on card under specimen; one specimen with genitalia glued on transparent card.

***Ignelater brunneus* Costa, 1980b: 158**

Paratype: 1 [unknown sex]. Cuba, 1936, Darlington Collector; Mts. N. of Imias eastern Oriente, July 25–28-1936, 8000–4000 ft.; MCZ; [on red] *Ignelater brunneus* parátipo, C. Costa det. 1979.

Conservation status: Good condition.

Paratype: 1 ♀. Cuba, 1936, Darlington Collector; Mts. N. of Imias eastern Oriente, July 25–28-1936, 8000–4000 ft.; MCZ; [on red] *Ignelater brunneus* parátipo, C. Costa det. 1979.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

***Ignelater inaguensis* Rosa, 2010: 445**

Paratype: 1 ♂. Blacklight trap in mature mangrove forest; Bahamas: Great Inagua north coast road N21.10813, W73.60196 13-VII-2007; Thomas, Turnbow & Smith; [on red] *Ignelater inaguensis* paratype, Rosa, 2010.

Conservation status: Good condition; genitalia in microvial with glycerin under specimen.

Genus *Megapenthes* Kiesenwetter, 1858

***Megapenthes ibitiensis* Navajas, 1944: 71**

Holotype: 1 ♂. [on red] Holótipo; Monte Alegre, Fazenda Sta. Maria, Alt. 1.100 mts., 24–30.XI.1942, F. Lane col.; *Megapenthes ibitiensis* Navajas, 1944, Nav. det. 19; L45; L117; 105.752.

Conservation status: Good condition.

***Megapenthes apacheorum* Becker, 1971: 157**

Paratype: 1 [unknown sex]. Madera Cn., Sta. Rita, Mts. Ariz. Jul 7, 1961. P. H. Johnson, U.V. lt. trp; [on yellow] Paratype, *Megapenthes apacheorum* Becker, CNC No. 10899.

Conservation status: Good condition; specimen glued on triangle by right elytra.

***Megapenthes texanus* Becker, 1971: 160**

Paratype: 1 [unknown sex]. TEXAS, Chino Mts., Juniper Canyon, VII–24–1923, 266, F.M. Gaige; [on yellow] Paratype CNC No. 10900, *Megapenthes texanus* Becker.

Conservation status: Good condition.

Subgenus *Xanthopenthes* Fleutiaux, 1929

***Megapenthes (Xanthopenthes) almeidai* Navajas, 1946: 14**

Holotype: 1 [unknown sex]. [on red] Holótipo; Instituto Oswaldo Cruz, Zona da N.O.B, Salobra, 18–29.x. [19]38; *Megapenthes (Xanthopenthes) almeidai* Navajas, 1945; 105.755; L46; L115; L114.

Conservation status: Good condition.

Genus *Meroplinthus* Candèze, 1891

***Meroplintus ambrosius* Costa, 1975b: 75**

Holotype: 1 ♂. [on red] Holótipo; Piracicaba, S.P., Ex. col. Ent., E. S. Agu, L. Queiroz, Col. I. Biológico; XL; [on red] *Meroplintus ambrosia* C. Costa det. 1975, holótipo.

Conservation status: Good condition; left antenna glued on card under specimen.

Paratype: 1 ♀. Jatahy, Etat de Goyaz, Ch Pujol 1895–96; Muséum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Meroplintus ambrosia* C. Costa det. 1975, paratipo.

Conservation status: Good condition. Mouthparts and genitalia glued on transparent cards under specimen.

Paratype: 1 ♂. Brésil, Prov. Matto Grosso, P. Germáin, 1886; Muséum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Meroplintus ambrosia* C. Costa det. 1975, paratipo.

Conservation status: Good condition. Genitalia glued on transparent cards under specimen.

***Meroplinthus decorus* Costa, 1975b: 76**

Holotype: 1 ♂. [on red] Holótipo; Sayago, Montevideo, 25–I–1955, A. Silveira; f22; IB; [on red] *Meroplinthus decorus* C. Costa det. 1975, holótipo.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Donacion, Tombaxini, 1949; f21; IB; [on red] *Meroplinthus decorus* C. Costa det. 1975, paratipo.

Conservation status: Good condition.

Paratype: 1 ♀. Rio Grande, 85–4; BM; [on red] *Meroplinthus decorus* C. Costa det. 1975, holótipo.

Conservation status: Good condition. Genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Pelotas, II. 934, Irmas Figueiredo leg.; BM; [on red] *Meroplinthus decorus* C. Costa det. 1975, holótipo.

Conservation status: Good condition. Both antennae broken, one glued on card under specimen.

Paratype: 1 [unknown sex]. Saimgo, 1948; f23; IB; [on red] *Meroplinthus decorus* C. Costa det. 1975, holótipo.

Conservation status: Good condition; left antenna broken.

Genus *Metapyrophorus* Rosa & Costa, 2009

***Metapyrophorus pharolim* Rosa & Costa, 2009: 45**

Holotype: 1 ♂. Caparo Trinidad, A. Heynes, Berlin–Wilm; n. sp. Collection Fleutiaux; MNHNP; [on red] *Metapyrophorus pharolim* Rosa & Costa, 2009, Holótipo; [on red] Holótipo.

Conservation status: Good condition; genitalia and abdomen glued on a card under specimen.

Paratypes: 2 ♂. *Idem*, parátipo.

Conservation status: *Idem*; one specimen with abdomen glued on card under specimen.

Paratype: 1 ♂. St. Anns. Port of Spain, Trinidad, June. 28. 1957, M. Nieves; AMNH; [on red] *Metapyrophorus pharolim* Rosa & Costa, 2009, Holótipo; [on red] Holótipo.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Paratypes: 1 ♂, 1 [unknown sex]. Venezuela, Inst. Zool. Agrícola, Fac. Agronomía, Univ. Central; J. Salgado, L. Rodríguez. V.; Venezuela—Monagas, Jasepin, 5–VI–1967; Venezuela; [on red] Paratype; [on red] *Metapyrophorus pharolim* Rosa & Costa, 2009, Parátipo.

Conservation status: Good condition; one specimen with abdomen glued on a card under specimen; other specimen with head and abdomen glued on card under specimen and with genitalia into microvial with glycerin.

Paratype: 1 [unknown sex]. Pie del Cerro, Morrocoy, T.F.A, 31–III–58; talvez ♀, estava sem a genitalia; MIS; [on red] Paratype; [on red] *Metapyrophorus pharolim* Rosa & Costa, 2009, Parátipo.

Conservation status: Good condition; abdomen glued on card under specimen.

Additional note: translated from Portuguese: “maybe ♀, [the specimen was] without the genitalia”.

Genus *Neorhaphes* Costa, 1966

***Neorhaphes brasiliensis* Costa, 1966: 264**

Holotype: 1 ♂. Buritís, (Ribeirão Confins), MG—29–31.X.1964, Exp. Dep. Zool.; [on red] *Neorhaphes brasiliensis* sp. n., Holótipo ♂, C. Costa det. 1965.

Conservation status: Good condition; abdomen glued on transparent card under specimen.

Allotype: 1 ♀. *Idem*.

Conservation status: *Idem*.

Paratypes: 2 ♀, 15 ♂. Buritís, (Ribeirão Confins), MG—29–31.X.1964, Exp. Dep. Zool.; [on red] *Neorhaphes brasiliensis* sp. n., C. Costa det. 1965.

Conservation status: Good condition. Two females with abdomen dissected and glued on transparent card under specimens.

Genus *Noxlumenes* Costa, 1975

***Noxlumenes bardus* Costa, 1975a: 87**

Holotype: 1 ♂. Las hajas meuquén Argentina, 16.1.1967, S. Martin y Monné; M; [on red] *Noxlumens bardus* holótipo ♂, C. Costa det. 1975.

Conservation status: Good condition; genitalia and abdomen glued on a card under specimen.

Paratype: 1 ♂. *Idem*, parátipo.

Conservation status: *Idem*.

Paratypes: 2 ♂. Argentina—Neuquén, Zapala, 23–III–1964, A. Mesa, R. Sanduleki; M; [on red] *Noxlumens bardus* holótipo ♂, C. Costa det. 1975.

Conservation status: Good condition; one specimen with genitalia into microvial with glycerin, and one with one leg glued on card under it.

Genus *Opselater* Costa, 1975

Opselater costae Rosa, 2004: 208

Holotype: 1 ♂. Linhares, ES Brasil, XI.1972, P. C. Elias; [on red] Holótipo; [on red] *Opsolater costae* sp. n., holótipo. S. Rosa det. 2002

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Paratypes: 58 [unknown sex]. Linhares, ES Brasil, 1972, P. C. Elias; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002. [43 specimens collected on XI.1972; 10 on XII.1972; 3 on X.1972; 2 on I.1972].

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Parque Sooretama, Linhares, E. Santo, Brasil XI.1960, D. Zajciw leg.; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Linhares Espirito Santo, Brasil, X.1969, M. Moraes col.; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brasil—E. Santo, Linhares, 30.XI.1974, C. S. Carbonell; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Coleção Campos Seabra; Linhares, Esp. Santo Brasil, IX.1970, B. Silva; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Colatina, E. Santo Brasil, XII.1970, A. Sila; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brasil—ES, Linhares, 18–IX–90, J.S.Santos col.; [on red] Parátipo; [on red] *Opsolater costae* sp. n., parátipo. S. Rosa det. 2002.

Conservation status: Good condition; genitalia into microvial with glycerin under specimen.

Paratype: 1 [unknown sex]. *Idem*, 5V.87.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. *Idem*, 4.III.88.

Conservation status: *Idem*; genitalia into microvial with glycerin under specimen.

Paratype: 1 [unknown sex]. *Idem*, 22I.88.

Conservation status: Good condition.

Genus *Paranoplischius* Casari, 2013

Paranoplischius nigellus Casari, 2013: 146

Holotype: 1 ♂. Brasil, Santaremsinho, Mun. de ITAITUBA, Rio Tapajós = Pará, IV–[19]61; [on red] Holotype; *Paranoplischius nigellus* Casari, 2013.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brasil: AM, Benj. Constat, Rio Javari, XI.1960, Dirings; [on red] Paratype; *Paranoplischius nigellus* Casari, 2013.

Conservation status: Good condition; genitalia into a microvial with glycerin under specimen.

Paratype: 2 [unknown sex]. Brasil: AM, Benj. Constat, Rio Javari, Dirings; [on red] Paratype; *Paranoplischius nigellus* Casari, 2013.

Conservation status: Good condition.

***Paranoplischius modestus* Casari, 2013: 144**

Holotype: 1 ♂. Dianópolis, GO, Brasil, 11–14.I.1962, J. Bechyné col.; [on red] Holotype; *Paranoplischius modestus* Casari, 2013.

Conservation status: Good condition. [on red] Paratype.

Paratype: 1 [unknown sex]. *Idem*.

Conservation status: Good condition; glued on triangle by elytra.

Paratype: 1 [unknown sex]. Brasil, PA, Itaituba, II.1961, Dirings; [on red] Paratype; *Paranoplischius modestus* Casari, 2013.

Conservation status: *Idem*.

Paratypes: 2 [unknown sex]. M. Grono, S. Domingos, X.49; [on red] Paratype; *Paranoplischius modestus* Casari, 2013.

Conservation status: Good condition; one glued on triangle by elytra.

Paratype: 1 [unknown sex]. Paraiba, Areia, VII.955, Pe. Pereira; [on red] Paratype; *Paranoplischius modestus* Casari, 2013.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Brasil, Pará. Benevides F.Morelandia, 6.II.1987; [on red] Paratype; *Paranoplischius modestus* Casari, 2013.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. PA, Peixe Boi, 14.IV.1977; Brasil Pará, WL Overal; ; [on red] Paratype; *Paranoplischius modestus* Casari, 2013.

Conservation status: Good condition; genitalia into a microvial with glycerin under specimen.

Genus *Paratractosomus* Casari, 2013

***Paratractosomus sulciventris* Casari, 2013: 148**

Paratype: 1 [unknown sex]. Bolivia, Santa Cruz, Florida, 4km N Bermejo, 29.X.2011, Coll: Skillman & Wappes; Refúgio los Volcanes, FWSC Loan, Feb. 2012; *Paratractosomus sulciventris* Casari, 2013 Paratype.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Bolivia, Santa Cruz, Florida, 4km N Bermejo, 25–29 October 2011, Coll: Skillman & Wappes; Refúgio los Volcanes 18°06'S 63°36'W, 1000–1200 meters; *Paratractosomus sulciventris* Casari, 2013 Paratype.

Conservation status: Good condition, genitalia into a microvial with glycerin under specimen.

Genus *Physodactylus* Fischer, 1823

***Physodactylus fleutiauxi* Chassain, 2005: 68**

Paratype: 1 ♂. Brésil (Mato Grosso), 14°15'50.80"S, 59°14'02.05"W, Chapada dos Parecis; 30 km Nord d'Uirapuru, Usine Alcomat, 1 au 15–XII–2001, A. Foucart leg.; [on red] Paratype; *Physodactylus fleutiauxi* n. sp., J. Chassain det. 04; *P. fleutiauxi*.

Conservation status: Good condition; glued on card. Genitalia glued on card under specimen.

***Pseudanostirus* Dolin, 1964**

***Pseudanostirus propolus columbianus* (Brown, 1935b): 185**

Paratype: 1 [unknown sex]. Vernon, B.C., V.I.1924. R. Hoppiza; [on yellow] *L. propola columbianus*, No. 3903 Brown.

Conservation status: Good condition.

Additional notes: Described as a subspecies it was elevated to species by Brooks (1960), then returned to subspecies rank by Lane (1971). Gurjeva (1989) transferred the nominal species to *Pseudanostirus*.

Genus *Ptesimopsia* Costa, 1975

***Ptesimopsia brunnea* Costa, 1975b: 57**

Holotype: 1 ♂. Est. Biol. Boraceia, Salesópolis, SP, I.1950, E. X. Rabello col.; [on red] *Ptesimopsia brunnea* sp. nov., holótipo, C. Costa det. 1975.

Conservation status: Good condition; left antenna missing; genitalia and last abdominal segments glued on transparent card under specimen.

***Ptesimopsia elongata* Costa, 1975b: 58**

Holotype: 1 ♂. Eug. Lefevre 1200 m., Pindamonhangaba, S.P., 21.XII.1962; Exp. Dep. Zool.; [on red] *Ptesimopsia elongata* C.Costa det. 1975, holotype ♂.

Paratype: 1 ♂. *Idem*, paratype.

Conservation status: Good condition. Holotype with abdomen glued on card under specimen, and genitalia glued on transparent card.

***Ptesimopsia gracilis* Rosa, 2004: 227**

Holotype: 1 ♂. Canindé do S. Fco (SE), (Faz. Jaburú), 17.VIII. 2000 am3. Ianuzzi, L. col. (Malaise); [on red] Holótipo; Proj. Xingó Biodiversidade, Área 3; 311.

Conservation status: Good condition. Genitalia in microvial with glycerin under specimen.

***Ptesimopsia luscini* Costa, 1975b: 61**

Holotype: 1 ♂. Argentina, Misiones, Iguasú XII.1957, A. Martinez leg.; [on red] *Ptesimopsia luscini* sp. nov., holótipo, C. Costa det. 1975.

Conservation status: Good condition; genitalia and last abdominal segments glued on transparent card under specimen.

Paratype: 1 ♂. Porto Alegre, 1962; [on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition; both antennae broken.

Paratype: 1[unknown sex]. S. Salvador R. S., 1960[on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1[unknown sex]. URUGUAY– Canelones, La Floresta, 15.I.1958, M. A. Monné; M.; [on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1[unknown sex]. São Leopoldo; J. W. Stahl; Riksmuseum Stockholm; [on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1[unknown sex]. Rio Grande do Sul, Pe. Buck leg.; MA; [on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Porto Alegre, RS, XII–1953, Buck leg.; IB; [on red] *Ptesimopsia luscini* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1[unknown sex]. S. Brasilien, Porto Alegre; 10219; Staatl. Museum fur Tierkunde. Dresden; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1 ♀. 1921, Rio Grande do Sul, Porto Alegre; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition. Genitalia and last abdominal segments glued on transparent card under specimen.

Paratype: 1[unknown sex]. Tacuarembé, A° Laureles, 13.15. XII. [1]965, Monné col.; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1[unknown sex]. URUGUAY— Artigas, Rio Cuareim, Picada del Negro Muerto, Sepulturas, 16—XII—1957, C. S. Carbonell; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Arroyo Los Tapes, Lavallega—Uruguay, 5.1. 1949, P. R. San Martin; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratypes: 3[unknown sex]. Rio Uruguay, Salto Grande Salto, 18.XII.1956—Uruguay, F. Azambuya; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition. One with last abdominal segments glued on transparent card under specimen.

Paratypes: 2 [unknown sex]. *Idem*, 25.XII.1956.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Queb. De Los Cuervos 33, S. Taguato; IB; 683;[on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratypes: 5 [unknown sex]. URUGUAY—Soriano, Arroyo Cololó, 20.I.1964, C. S. Norey; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition. One specimen with abdomen glued on a card under specimen and genitalia into microvial with glycerin, and another specimen with last abdominal segments glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Colonia Gral Artigas, Artigas—Uruguay, XII.1956, F. Azambuya; M;[on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. 1053; Paraguay, Hohenau. Alto Paraná, H. Jacob. B.M. 1954–814; BM; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Argentina, Chaco, Roque, Saenz Peña. 1932, K J Hayward, B.M. 1933–58; BM; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Asuncion—Central, Paraguay, IX.1956, F. Isias—Col.; M; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition. Last abdominal segments glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Estancia la Noria, Rio San Javier, Santa Fe, Argentine, G. E. Bryant, 12.xii.1911; BM; G. Bryant Coll. 1919–147; [on red] *Ptesimopsia luscinia* sp. nov., parátipo, C. Costa det. 1975.

Conservation status: Good condition.

Genus *Pyrearinus* Costa, 1975

***Pyrearinus adustus* Costa, 1978: 193**

Holotype: 1 ♂. Bahia, Braz. X.—1923; Bom Jesus dos Minas; Mus. Exped., O. Farrington Col.; CNHM; [on red] *Pyrearinus adustus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 ♂. *Idem*.

Conservation status: *Idem*.

***Pyrearinus baliolus* Costa, 1978: 194**

Holotype: 1 ♂. Blanquillo, I.1947, A. Mesa col.; [red] Holótipo; [on red] *Pyrearinus baliolus* sp. n. holótipo, C. Costa det. 1978; IB.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 ♂. S. de la Aurora v. Platón—Riviera, Uruguay— 22–25.II.1966, F. Acharai col.; M; [red] Holótipo; [on red] *Pyrearinus baliolus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

***Pyrearinus brunneus* Costa, 1978: 196**

Holotype: 1 ♂. Argentina, Stgo. del Estero, El Pinto, XI–1956; CDA; [on red] Holótipo; [on red] *Pyrearinus brunneus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratypes: 3 [unknown sex]. Republ. Argentine, Chaco de Santiago del Entero. Rio Dulce; MNHNP; [on red] *Pyrearinus brunneus* sp. n. paratipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Republ. Argentine, Rio Parana, Territoire des Missiones; MNHNP; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Uruguay—Artigas, Ao Catalnau Chico, 23.I.1958; C. Puques; M; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 1♀, 3 [unknown sex]. Argentina, Stgodel Estero, El Pinto, XI. 1956; CDA; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition; female genitalia glued on card under specimen.

Paratype: 1 [unknown sex]. Argentina, Coll. Jensen— Baarup; Zool. Mus. Kobenhavn; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978; UZM.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Mus. Hauschild, 15– [illegible]– 1914; Rio Gde do Sul; UZM; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Vichadero—Rivera, Uruguay 19.11.961, Carbonell & Colzolesi; [on red] *Pyrearinus brunneus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition.

***Pyrearinus castaneus* Costa, 1978: 199**

Holotype: 1 ♂. Linhares, ES—Brasil, X.1972, P. C. Elias; [on red] Holótipo; [on red] *Pyrearinus castaneus* sp. n., holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on cards under specimen (genitalia on transparent card).

Paratypes: 9 [unknown sex]. Linhares, ES—Brasil, X.1972, P. C. Elias [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition; one specimen with abdomen and genitalia glued on cards under specimen (genitalia on a transparent card), and one with genitalia into microvial with glycerin.

Paratype: 1 [unknown sex]. Ribeirão Preto, SP—Brasil, VII.1955, M.P. Barreto col.; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Anno 1907, São Paulo, E. R. [illegible] da Serra; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Bahia; Pyrophorus [illegible] Germ., [illegible], Fleutiaux vld.; Riksmuseum Stockholm; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. E. Santo, Guarajari, X.[1]942; *Pyrophorus phosphoreus* Germ., A. Cobos det. 1958; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Rio grand do Sul; CNHM 1955, Karl Brancsik Colln. ex Eduard Knirsch; CNHM; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Bochiol; Collection E. Candéze; *Pyrophorus lampadion* Ill., dét. F. Candéze; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; Coll. MZSP, São Paulo BR, Ex coll. ISNB.

Conservation status: Good condition.

Paratype: 1 ♂. Vila Victoria, Prov. de Bahia, Ch. Pujol 1890; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; MNHNP.

Conservation status: Good condition; genitalia and abdomen glued on card under specimen.

Paratype: 1 ♂. Cachimbó, Prov. de Bahia, Ch. Pujol 1890; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; MNHNP.

Conservation status: Good condition; genitalia and abdomen glued on card under specimen.

Paratypes: 1 ♂, 1 ♀. Minas Geraes, Fruhstorfer; Museum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; MNHNP.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Brasília, Mus. Lange; Seckenberg Museum, Frankfurt/Main; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; MNHNP.

Conservation status: Good condition; genitalia and abdomen glued on card under specimen.

Paratype: 1 ♂. IB; [on red] *Pyrearinus castaneus* sp. n., parátipo, C. Costa det. 1978; MNHNP.

Conservation status: Good condition; genitalia and abdomen glued on transparent card under specimen.

***Pyrearinus cereus* Costa, 1978: 200**

Paratype: 1 ♂. Bahia; Reed; [on red] *Pyrearinus vescus* parátipo, C. Costa det. 1978.

Conservation status: Bad condition; abdomen and head glued on card and genitalia glued on another transparent card.

Paratype: 1 [unknown sex]. Reed, Bahia; Coll. Janson; BM; [on red] *Pyrearinus vescus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 ♂. Uruçuca—BA, 13.12.47, Col. P. Silva; IB; [on red] *Pyrearinus vescus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card and genitalia glued on transparent card.

***Pyrearinus cinnameus* Costa, 1978: 201**

Holotype: 1 ♂. Camapuã, MT X.67; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978; 5676.

Conservation status: Good condition; abdomen and genitalia glued on card under specimen.

Paratype: 1 ♀, 1 ♂, 1 [unknown sex]. *Idem*, parátipo.

Conservation status: Good condition; abdomen and genitalia of one male and one female glued on card under specimen.

Paratype: 1 [unknown sex]. Rio Grande do Sul; 5663; Porto Alegre, 1965; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Rio Grande do Sul; 5663; Porto Alegre, 1965; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Rio Grande do Sul, 5660; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen.

Paratypes: 5 [unknown sex]. Rio Gr. do Sul; Riksmuseum Stockolm; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen of one specimen glued on card under it.

Paratype: 1 [unknown sex]. Rio Gr. de Sul; Walme; Pyrophorus, Fleutiaux det.; [on red] *Pyrearinus cinnameus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition.

***Pyrearinus coctilis* Costa, 1978: 202**

Holotype: 1 ♂. Faz. Nova Orlandia, Jataí, Go—Brasil, I.1964—Martins, Morgante & Silva; [on red] *Pyrearinus coctilis* holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card and genitália glued on transparent card.

Paratypes: 3 [unknown sex]. Faz. Nova Orlandia, Jataí, Go—Brasil, I.1964—Martins, Morgante & Silva; [on red] *Pyrearinus coctilis* parátipo, C. Costa det. 1978.

Conservation status: Good condition; one with abdomen glued on card.

Paratype: 1 [unknown sex]. 22–XI–29, Matto Grosso, Murtinho, Spitz leg.; [on red] *Pyrearinus coctilis* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Diamantino, MT– Brasil, 14–XI.1966, Lenko e Pereira; [on red] *Pyrearinus coctilis* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 1 ♂, 1 [unknown sex]. Porto Velho, Rio Tapirapé, MT, 30.XII.1964, R.T. Lima col.; [on red] *Pyrearinus coctilis* parátipo, C. Costa det. 1978.

Conservation status: Good condition; male with abdomen and genitalia glued on transparent card.

***Pyrearinus flatus* Costa, 1978: 203**

Holotype: 1 ♂. Castilho, mar. esq., r. Paraná, SP. X.1964, Exp. Depto. Zool.; [on red] holótipo; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, holótipo.

Conservation status: Good condition.

Paratypes: 7. Brasil; Coll. Schwarz; Diech Entomol. Institut Berlin; DEIE; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. XI. 1944, São Paulo, N. Horizonte, col. Araujo; IB; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo.

Conservation status: Good condition. Abdomen glued on card under one specimen.

Paratype: 1 ♂. San Bernardino, A. Fischer, S. G., 31. I. 1913; Seckenberg Museum, Frankfurt/ Main; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo; SMF.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Paraguay; MNHNP; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Três Lagoas, MT, mar. Esq. Rio Sucuriu, Faz. Canaã, 26.X–4–XI, F. Lane col. 1970; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Chapada, Brazil, Acc. No, 2966; Nov.; CM; [on red] *Pyrearinus flatus* sp. nov. C. Costa det. 1978, parátipo.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

***Pyrearinus fragilis* Costa, 1978: 206**

Holotype: 1 ♂. Mangabeira, Mocajuba, Pará, Brasil, XII.1952, Orlando Rêgo; [on red] holótipo; [on red] *Pyrearinus fragilis* sp. nov. C. Costa det. 1978 holótipo; CS; B5.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Coleção Campos Seabra; Mangabeira, Mocajuba, Pará, Brasil, , I–1953, Orlando Rego; CS; [on red] *Pyrearinus fragilis* sp. nov. C. Costa det. 1978 parátipo.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Coleção Campos Seabra; Mangabeira, Mocajuba, Pará, Brasil, XII–1952, Orlando Rego; CS; [on red] *Pyrearinus fragilis* sp. nov. C. Costa det. 1978 parátipo.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. CXXX; CS; [on red] *Pyrearinus fragilis* sp. nov. C. Costa det. 1978 parátipo.

Conservation status: Good condition.

***Pyrearinus fulvescens* Costa, 1978: 205**

Paratype: 1 ♂. Brésil, Mafra; El 63, M., 2; Museum Paris, 1952, Coll. R, Oberthur; MNHNP; [on red] *Pyrearinus fulvescens* sp. nov. parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on transparent card.

***Pyrearinus fulvus* Costa, 1978: 206**

Holotype: 1 ♂. Faz. Pau D'Alho, Itú—São Paulo, Brasil— I– 953, Col: U. Martins; [on red] *Pyrearinus fulvus* sp. nov. holótipo, C. Costa det. 1978; [on red] Holótipo; U2.

Conservation status: Good condition; abdomen and genitalia glued on transparent card.

***Pyrearinus latus* Costa, 1978: 210**

Paratypes: 1 ♀, 1 ♂, 2 [unknown sex]. Chapada, Brazil, Ace. No. 2966; nov; CM; [on red] *Pyrearinus latus* sp. n. parátipo, C, Costa det. 1978.

Conservation status: Good condition; male and female with genitalia glued on transparent card under specimen.

***Pyrearinus luscinius* Costa, 1978: 213**

Holotype: 1 ♂. Instituto Oswaldo Cruz Zona da N. O. B., Salobra, 18–29,x, 38; [on red] Holótipo; [on red] *Pyrearinus luscinius* sp. n. holótipo, C. Costa det, 1978.

Conservation status: Good condition; abdomen glued on card under specimen; genitalia glued on transparent card under specimen.

Paratypes: 4 [unknown sex]. Instituto Oswaldo Cruz Zona da N. O. B., Salobra, 18–29,x,38; [on red] *Pyrearinus luscinius* sp. n. parátipo, C. Costa det, 1978.

Paratypes: 1 ♂, 2 [unknown sex]. Coleção M. P. Barreto, 1969; Ribeirão Preto (Tamanduá), X.1954, Barreto col.; [on red] *Pyrearinus luscinius* sp. n. parátipo, C. Costa det, 1978.

Conservation status: Good condition; one male with abdomen glued on card under specimen, and genitalia glued on transparent card under specimen.

***Pyrearinus micatus* Costa, 1978: 214**

Holotype: 1 ♂. Mairiporã, SP, Brasil, 4–13. I. 1967, C. Costa col.; [on red] Holótipo; [on red] *Pyrearinus micatus* sp. n. holótipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 15 [unknown sex]. Mairiporã, SP, Brasil, 4–13. I. 1967, C. Costa col.; [on red] *Pyrearinus micatus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 1♂, 4 [unknown sex]. Três Lagoas, MT, marg. esq. Rio Sucuriu, Faz. Canaã, I. 1967, F. Lane col.; [on red] *Pyrearinus micatus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition; one male with abdomen glued on card under specimen, and genitalia on transparent card.

Paratypes: 8 [unknown sex]. São Paulo, Ypiranga; [on red] *Pyrearinus micatus* sp. n. parátipo, C. Costa det. 1978.

Conservation status: Good condition. One specimen with prothorax detached of the rest of the body.

Paratype: 1 [unknown sex]. São Paulo, Capital, col. A.C.M., XII. 33; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. 3.V.32, São Paulo, Alto da Lapa, Col. B.L.R.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 4 [unknown sex]. Faz. Pau D'Alho, Itu—SP—Brasil, 1–8.1970, U. Martins col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 6 [unknown sex]. Faz. Pau D'Alho, Itu, São Paulo, Brasil, XII—1970, U. Martins col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 18 [unknown sex]. Luiz Antonio—SP, (Faz. Jataí), 18.I.1972, E.X. Rabello col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. J. P. Guarulhos, IV—1944, R. Morano col., F. Pereira o F.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 7 [unknown sex]. Faz. Morongaba, Cabreúva, S. Paulo, 2.2.1966, C. Costa; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 3 [unknown sex]. Barueri, São Paulo, Brasil, XII.1965, K. Lenko col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 7 [unknown sex]. Faz. Pau D'Alho, Itú, S. Paulo, Brasil, 27. XII.[1]1957, Col: U. Martins; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. *Idem*, 7.XII.1960.

Conservation status: *Idem*.

Paratypes: 1 [unknown sex]. *Idem*, 1.XII.1960.

Conservation status: *Idem*.

Paratypes: 11 [unknown sex]. Campinas, SP (Souzas), J. Guérin of; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978 [5 collected on II—1946, and 6 collected on XII—1946].

Conservation status: Good condition.

Paratypes: 8 [unknown sex]. Goiatuba, Go, III—1946, J. Guérin of; IB; ?; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Goiatuba, GO, III—1976, J. Guérin o F; cinerarius ou candens?; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. *Pyrophorus*, Fleutiaux det.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 5 [unknown sex]. Coleção J. Lane; Sto. Amaro, S. Paulo, J. Lane col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 3 [unknown sex]. I–923, São Paulo, Itatiba; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 8 [unknown sex]. Faz. Pau D'Alho, Itu—SP—Brasil, 1–8.I.1970, U. Martins col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. 2028; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Jundiahy, E. S. Paulo; *Pyrophorus parallelus* Germ, Fleutiaux det.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 ♂. 13.I.1956, Barueri, S. Paulo, 8280; K. Lenko leg.; Coleção Campos Seabra.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on transparent card under specimen.

Paratype: 1 ♂. 455; *Pyrophorus phosphoreus* Linn.; S.F.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen and genitalia glued on transparent card under specimen.

Paratypes: 7 [unknown]. Souza—Campinas, Est. de S. Paulo, I–1946, J. Guér. Of, Col. I. Biológico; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition. One with prothorax separated from the rest of the body.

Paratype: 1 [unknown sex]. Piracicaba, SP, XII–1950, Marican leg.; IB; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex].: Piracicaba, SP, Ex. Col. Ent. E. S. Agr. L. Queiroz, Col. I. Biológico; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Ponta Grossa, Paraná, 1944, IB; Coll. J. Guérin, S. Paulo Brasil, 16922 [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratypes: 20 [unknown sex]. Campinas, J. Guérin col.; IBSP; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978 [8 collected on I.1946, 12 on XII.1946].

Conservation status: Good condition.

Paratype: 1 [unknown sex]. 31.XII.34, Ypiranga, R. Sp.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 ♂. E. de S. Paulo, 6992; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. São Paulo, (Ypiranga) S.P., Brasil, 10.XI.1965, C. Costa col.; [on red] *Pyrearinus micatus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

***Pyrearinus pusillus* Costa, 1978: 218**

Holotype: 1 ♂. Filadelfia, Fer. Col. Chaco, Parag. I.21.56; J. L. Nickel Collector. [on red] Holótipo; [on red] *Pyrearinus pussilus* holótipo, C. Costa det. 1978; ♂; CIS.

Conservation status: Good condition; abdomen and genitalia glued on transparent card under specimen.

Paratype: 1 ♂. *Idem*, parátipo; light.

Conservation status: *Idem*.

***Pyrearinus ruscus* Costa, 1978: 219**

Holotype: 1 ♂. S. Paulo, S. Amaro, 5–I–24; [on red] *Pyrearinus ruscus* holótipo, C. Costa det. 1978; A2.

Conservation status: Good condition; abdomen and genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Curytiba, Brasil, Szabo; A. Fenyés Collection; s. f.; *Pyrophorus nyctolampis* Germ.; [on red] *Pyrearinus ruscus* parátipo, C. Costa det. 1978.

Conservation status: *Idem*, only right pro- and mesolegs presents.

***Pyrearinus termitilluminans* Costa, 1982: 23**

Holotype: 1 ♂. No. 228; [on red] *Pyrearinus termitilluminans* holotype, C. Costa det. 1982; Brasil—GO, Parque Nacional das Emas, 2–4.X.1981 on *Cornitermis* mound.

Conservation status: Good condition.

Paratypes: 11 [unknown sex]. *Idem*, K. H. Redford col. (only 2 specimens with collector's information). Six labelled with 228 and two labelled with 238.

Conservation status: Good condition; 2 specimens dissected, one with genitalia glued on transparent card under specimen, and another with genitalia into microvial with glycerin. One pupa and 2 larvae at CIC (Coleoptera Immature Collection) conserved on Alcohol 70° GL.

***Pyrearinus vesculus* Costa, 1978: 221**

Paratype: 1 ♀. Ega; BM; [on red] *Pyrearinus vesculus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen, and genitalia and last abdominal segments glued on another transparent card.

Paratype: 1 ♂. Ega, Amazonas, Bates; Coll. Janson.; [on red] *Pyrearinus vesculus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen, and genitalia glued on another transparent card.

Paratype: 1 [unknown sex]. Chiguinda, Ecuador, Buckley; BM; [on red] *Pyrearinus vesculus* parátipo, C. Costa det. 1978.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Amazonas, Teffé, Dr. Hahnel; Museum Paris, 1952, Coll R. Oberthür; MNHNP; [on red] *Pyrearinus vesculus* parátipo, C. Costa det. 1978.

Conservation status: Good condition; left foreleg missing; abdomen glued on card under specimen.

***Pyrearinus vesus* Costa, 1978: 221**

Holotype: 1 ♂. Faz. Cachoeirinha, Jataí, Goiás—Brasil, X.1962, Exp. Dep. Zool.; [on red] Holótipo; [on red] *Pyrearinus vesus* holótipo, C. Costa det. 1978.

Conservation status: Good condition; abdomen glued on card under specimen and genitalia glued on transparent card.

Genus *Pyrophorus* Billberg, 1820

***Pyrophorus angustus hayekae* Costa, 1968: 82**

Paratypes: 2 [unknown sex]. Canindé: Suriname: Kayseberg, Zuid R. Surinam Zool. Exped., 1960–62. H. Beatty Leg.; CNHM; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Canindé Kaieter BG, 13.VIII.1911; AMNH; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Upper Mazaruni R., Br Guiana, IX–X.1938; Coll. A.S. Pinkus; AMNH; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Brasil, A P, J & Bechyné; Serra Lombard, Limão, 30.8.1961; M.G.; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition; genitalia glued on transparent card; left antenna missing.

Paratype: 1 [unknown sex]. see notes; British Guiana, Essequibo R., Moraballi Creek. 28–29.IX.1929, Oxf. Univ. Expedn., B. M. 1929–485. 2195; BM; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Santarém, Brazil; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968; CM.

Conservation status: Idem.

Paratype: 1 ♂. Amazonas, Borba (Lago Acara), IX–X.1943 A. Parlo; 171; MN; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Santarém—Pará, II.1921, C. Boy; Km ec; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition.

Paratype: 1 ♂. Óbidos, 7–8–1912, Ducke; Óbidos, 7.8.1912, Ducke; M. G.; 173; [on red] *Pyrophorus angustus hayekae* subps. n., Parátipo, C. Costa det. 1968.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

***Pyrophorus expeditus* Costa, 1972: 225**

Paratype: 1 [unknown sex]. Merida, Venezuela; W. Robinson beguest 1929; Property USNM; [on red] *Pyrophorus expeditus* parátipo C. Costa det. 1970.

Conservation status: Good condition.

***Pyrophorus indulcatus* Costa, 1972: 208**

Paratype: 1 ♂. W. Indies, 97–175; St. Vincent, W. I., H. H. Smith., 9; nodilucus L. Var; [on red] Parátipo; [on red] *Pyrophorus indulcatus* parátipo C. Costa det. 1970; BM.

Conservation status: Good condition; abdomen glued on card under specimen.

Paratype: 1 [unknown sex]. St. Vincent, W. I., H. H. Smith., 23; [on red] Parátipo; [on red] *Pyrophorus indulcatus* parátipo C. Costa det. 1970; BM.

Conservation status: Good condition.

Paratypes: 2 ♂. W. Indies, 97–175; St. Vincent, W. I., H. H. Smith., 23; [on red] Parátipo; [on red] *Pyrophorus indulcatus* parátipo C. Costa det. 1970; BM.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. W. Indies, 97–175; 1552; ♂; St. Vincent, W. I., H. H. Smith., 9; *Pyrophorus noctilucus* ♂ R [on red] Parátipo; [on red] *Pyrophorus indulcatus* parátipo C. Costa det. 1970; BM.

Conservation status: Bad condition; left elytra and abdomen missing; genitalia glued on card in separated pin.

Paratype: 1 [unknown sex]. W. Indies, 97–175; St. Vincent, W. I., H. H. Smith., 2; *Pyrophorus noctilucus* ♂ R [on red] Parátipo; [on red] *Pyrophorus indulcatus* parátipo C. Costa det. 1970; BM.

Conservation status: Good condition.

***Pyrophorus ingens* Costa, 1972: 224**

Paratype: 1 ♂. Panama; J.J. DuBois Collection; CIS; [on red] *Pyrophorus ingens* parátipo C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Carilla, V. 911; Museum Paris, Costa Rica, Paul Serre 1920; MNHNP; [on red] *Pyrophorus ingens* parátipo C. Costa det. 1970.

Conservation status: Idem.

Paratype: 1 [unknown sex]. Guayabillos, SW—Abhang, Irazu 2200m; Property USNM; [on red] *Pyrophorus ingens* parátipo C. Costa det. 1970.

Conservation status: Idem.

Paratype: 1 [unknown sex]. S. W. Abhang, Irazu 2200m; T. Assmann Coll; Nevermann Collection 1940; [on red] *Pyrophorus ingens* parátipo C. Costa det. 1970.

Conservation status: *Idem*.

***Pyrophorus jocundus* Costa, 1972: 211**

Paratype: 1 ♂. Panama; J. J. Dubois Collection; ♂; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970.

Conservation status: Good condition; left antenna glued on triangle under specimen.

Paratype: 1 [unknown sex]. Chiriqui Prov., Panama, XII.10.37; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970; AMNH.

Conservation status: Good condition; both antennae missing.

Paratypes: 3 ♂. Potrerillos, Panama, IV.28–V.8.33; Van Dyke Collection; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970; S. F.

Conservation status: Good condition; two paratypes with genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Poterillos, Panama; DV Brown; Van Dyke Collection; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970; S. F.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Poterillos, Panama, I.1934; D. V. Brown Collector; *Pyrophorus gtrabus* Germ.; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970; S. F.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Porterillos, Panama, IV.27.54; Pres by RF Starnitaky; [on red] Paratipo; [on red] *Pyrophorus jocundus* parátipo C. Costa det. 1970; S. F.; CIS.

Conservation status: Good condition; genitalia and part of antenna, each one, glued on transparent card under specimen.

***Pyrophorus mellifluus* Costa, 1972: 211**

Paratype: 1 [unknown sex]. Cuba, La Havane; IRSN; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba, Cinza dezanata [ilegible]; ♂; L 15 B; IB; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba, Halquen; CNHM 1955, Karl Bransik Colln, ex Eduard Knirsch; CNHM; [ilegible] Cand., O. Schwarz det. 1901; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Baños de Ciego, Montero, Sarita Clara, Cuba, V/10/10; AMNHN ; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Soledad. Cuba, 18.III.1925; ♂; L 14B; IB; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba, Guantanamo, Collection Le Moul; *Pyrophorus phosphorescens*; IRSN; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Nueva Gerona, Isle of Pines. G. Link, Coll; March 17 1973; CM; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Nueva Gerona, Isle of Pines. G. Link, Coll; March 1913; Carn Mus. Acc. 4865; CM; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Hayti, Parish 1899; Sharp Coll., 1905-313; *Pyrophorus noctilucus* Linn.; BM; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Habana, Cuba; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♀. Haiti; Coll. Kraatz; Dtsch. Ent. Inst. Eberswaide; DEIE; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia and abdomen glued on transparent card under specimen.

Paratype: 1 ♂. St. Domingo, 1906, C. Rainkier; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Cuba. Ex. Musaeo A. Sallé, 1897; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Antilles, [illegible]; Fry Coll. 1905-100; BM; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; abdomen glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Haiti, Heyne; Coll. Schwarz; *Plagiophthalmus* Germ.; *Plagiophthalmus* Germ.; Dtsch. Ent. Inst. Eberswaide; DEIE; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Sa. Vicente de Vinales, Cuba [illegible]; MCZ; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba; Ex. Museo A. Sallé, 1897; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratypes: 2 [unknown sex]. Museum Paris, ANTILLES, Sainte Lucie, Bonnecour 1851; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Puerta Plata, R. Dom. V.20 to VII.5.15; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Habana, Cuba; MNHNP; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba, Guantanamo, Roll, Berlin, SW11; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Cuba; Guantanamo, O Toherin; Riksmuseum Stockholm; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 [unknown sex]. Soledad Sta Clara, Cuba 1932; MCZ; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Cuba [illegible]; ♂; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 [unknown sex]. Cuba; Guantanamo; [on red] Paratype; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Martinique; *Pyrophorus plagiophtalmus*; *P. plagiophtalmus* Germ., J. Mouchet det.; MNHNP; [on red] *Pyrophorus mellifluus* sp. n., parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

***Pyrophorus mellitus* Costa, 1972: 210**

Paratype: 1 ♂. Santa Lucia, G. A. Ramage, June. 1889, 97–97; Fonde Sa Sques, April 1889; [on red] Paratype; [on red] *Pyrophorus mellitus* sp. n. parátipo, C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratypes: 3 ♂. Santa Lucia, G. A. Ramage, June. 1889, 97–67; Fonde Sa Sques, April 1889; [on red] Paratype; [on red] *Pyrophorus mellitus* sp. n. parátipo, C. Costa det. 1970.

Conservation status: *Idem*.

Paratype: 1 ♂. Santa Lucia, G. A. Ramage, June. 1889, 97–67; Fonde Sa Sques, April 1889; ♂; [on red] Paratype; [on red] *Pyrophorus mellitus* sp. n. parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. Museum Paris, Antilles, Saint Lucie, Bonnecour, 1851; ♂; [on red] Paratype; [on red] *Pyrophorus mellitus* sp. n. parátipo, C. Costa det. 1970.

Conservation status: Good condition.

Paratype: 1 ♂. St. Lucia (Mém. foreset) April, 1956, H. E. Box; Pres, by Com. Inst. Ent. B. M. 1948–146; BM; ♂; [on red] Paratype; [on red] *Pyrophorus mellitus* sp. n. parátipo, C. Costa det. 1970.

Conservation status: Good condition.

***Pyrophorus pisticus* Costa, 1972: 221**

Paratype: 1 ♂. Pacto, 4,500 ft, Ecuador, Dolby–Tyler; 331; G.C. Champion Coll. B.M. 1927–409; [on red] *Pyrophorus pisticus* paratipo, C. Costa det. 1970; BM.

Conservation status: Good condition; genitalia glued on transparent card under specimen. Abdomen glued on card under specimen.

Paratype: 1 ♂. 2°–4°S; 78°W, X–XII.1934, 600–950m; AMNH; [on red] *Pyrophorus pisticus* paratipo, C. Costa det. 1970.

Conservation status: *Idem*.

***Pyrophorus stupendus* Costa, 1972: 216**

Paratype: 1 ♂. Venezuela, D. F., Hacienda El Limón, Guacatal, 1500 m., 10°27'N., 67°16'O; 19. XI.1966, L. J. Joly T., J. L. Garcia; [on red] *Pyrophorus stupendus* parátipo C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Los Guayabitos. ML.-10-I.1963, Y. Ramirez; MIS; [on red] *Pyrophorus stupendus* parátipo C. Costa det. 1970.

Conservation status: Good condition; genitalia and abdomen glued on card under specimen.

Paratype: 1 ♂. Borhurata, Ven. 15.III.1940 G. Vivas; Property USNM; [on red] *Pyrophorus stupendus* parátipo C. Costa det. 1970.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

***Pyrophorus validus* Costa, 1972: 217**

Paratype: 1 [unknown sex]. Equateur, Env'd Ambato, R. P. Irene Blanc; Muséum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Pyrophorus validus* Costa, 1970, Parátipo.

Conservation status: Good condition; abdomen glued on white card under specimen. Genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Ex. Musaeo E. Steinheil; Muséum Paris, 1952, Coll. R. Oberthur; MNHNP; [on red] *Pyrophorus validus* Costa, 1970, Parátipo.

Conservation status: *Idem*.

Paratype: 1 ♂. Colombia Cauca, Distrito de Pereira, Roman M Valencia, 1886; MNHNP; [on red] *Pyrophorus validus* Costa, 1970, Parátipo.

Conservation status: *Idem*.

Paratype: 1 ♂. Macas, Ecuador, Buckley; Coll. Janson; BM; [on red] *Pyrophorus validus* Costa, 1970, Parátipo.

Conservation status: Good condition; genitalia glued on transparent card under specimen.

Paratype: 1 ♂. Zatzayacu, Oriente, Ecuador, VII.30.1934; W. Macintyre, Collection; Ex Coll, L. Lacey; [on red] *Pyrophorus validus* Costa, 1970, Parátipo; AMNH.

Conservation status: *Idem*.

Paratype: 1 [unknown sex]. Equateur, Baños, R.P.I. Blanc, 1895; [on red] *Pyrophorus validus* Costa, 1970, Parátipo; MNHNP.

Conservation status: Good condition.

***Pyrophorus veriloquus* Costa, 1972: 219**

Holotype: 1 ♂. Guatemala, Conradt; MNHNP; [on red] *Pyrophorus veriloquus* Holótipo, C. Costa det. 1970; [on red] Holótipo.

Conservation status: Good condition; abdomen glued on white card under specimen; genitalia glued on transparent card under specimen.

Paratypes: 4 ♂. Guatemala, Conradt; MNHNP; [on red] *Pyrophorus veriloquus* parátipo, C. Costa det. 1970.

Conservation status: Good condition. Two specimens with abdomen glued on white card; genitalias glued on transparent cards under specimen.

Paratype: 1 [unknown sex]. Guatemala; Coll. Kraalz; Dtsch. Ent. Inst. Eberwalde; DEIE.

Conservation status: Good condition.

Genus *Pyroptesis* Costa, 1975

***Pyroptesis gilvus* Costa, 1975c: 2**

Holotype: 1 ♂. [on red] Holótipo; Brasil, S. Paulo, Salesópolis—Boracéia, 12–14.XI.1969, C. Costa col.; [on red] *Pyroptesis gilvus* sp. nov., holótipo, C. Costa det. 1974.

Conservation status: Good condition; abdomen glued on card under specimen, genitalia glued on transparent card under specimen.

Additional notes: The larva of the holotype was reared in laboratory. The last larval and pupal instars are deposited at CIC under registration number 10.083.

Paratype: 1 ♀. Est. Biol. Boraceia, Salesópolis—S.P., 12.II.1963, L. Silva & H. Reichardt col.; [on red] *Pyroptesis gilvus* sp. nov., parátipo, C. Costa det. 1974.

Conservation status: Good condition; genitalia and last abdominal segments glued on transparent card under specimen.

***Selatosomus* Stephens, 1830**

***Selatosomus aeripennis destructor* (Brown, 1935a): 129**

Paratype: 1 [unknown sex]. Medicine; Hat. Alta, VI.31.1923; F.S. Carr collector; [on yellow] *L. aeripennis destructor*, No. 3809 Brown.

Conservation status: Good condition.

Additional notes: Described as a subspecies it was elevated to species by Brooks (1960) then returned to subspecies by Lane (1971). Gurjeva (1989) transferred the nominal species to *Selatosomus*.

Genus *Triplonychus* Candéze, 1860

Triplonychus crassifemoris Rosa, 2011: 8

Holotype: 1 ♂. Igarapé Gurupi–Una, Aldeia Araçu, MA, 50 Km E de Canindé, II.1966, Malkin col.; [on red] Holótipo; [on red] *Triplonychus crassifemoris* Rosa, 2011, Holótipo.

Conservation status: Good condition; specimen glued on white card.

Paratypes: 5 ♂. *Idem*.

Conservation status: Good condition. 3 specimens glued on triangles by elytra; one glued on card; one with genitalia dissected in a tube under specimen.

Triplonychus cruspinosus Rosa, 2011: 3

Paratypes: 16 ♂. Brasil, Reserva Ducke, 26 Km NE Manaus, Barbosa, M.G.V., malaise trap [2 collected on II.1995; 10 collected on V.1995; 4 collected on XII.1995]; [on red] *Triplonychus cruspinosus* Rosa, 2011, Parátipo.

Conservation status: Good condition.

Paratypes: 24 ♂. Brasil: Amazonas, Reserva Ducke, 26 km NE Manaus, 28.II.1978, J. Arias & A. Penny; [on red] *Triplonychus cruspinosus* Rosa, 2011, Parátipo.

Conservation status: Good condition; glued on white cards and or triangles.

Paratypes: 16 ♂. Brasil: Amazonas, AM 010, Km 26, Reserva Ducke, Jorge Arias coll.; 12 collected 7.II.1978; 4 collected on 14.II.1978; [on red] *Triplonychus cruspinosus* Rosa, 2011, Parátipo

Conservation status: *Idem*.

Triplonychus tibialatus Rosa, 2011: 9

Holotype: 1 ♂. 08/XII/1994, BR–MS—Três Lagoas, International Paper, Horto Rio Verde, black light FIT, *Eucalyptus grandis* stand, Flechtmann, C.A.H. col.; C1945; CRELAT028; [on red] Holótipo; [on red] *Triplonychus tibialatus* Rosa, 2011, Holótipo.

Conservation status: Good condition; specimen glued on triangle by mesoventrite.

Paratype: 5 ♂. *Idem* (except by the date of collect: two from 11/I/1995; two from 08/X/1994; one from 08/XII/1994).

Conservation status: Good condition; all glued on triangles by mesoventrite.

Genus *Tropihypnus* Reitter, 1905

Tropihypnus rungbongi Stibick, 1968: 172

Paratype: 1 ♂ [on a yellow circle] Paratype; Sikkimi, Gopaldhara, Rungbong Vall, H. Stevens; Stevens Coll, B.M. 1916.218.; Paratype, ♂, *Tropihypnus rungbongi* Stibick.

Conservation status: Good condition; glued on white card.

Paratype: 1 ♀. *Idem*, ♀.

Conservation status: *Idem*.

Genus *Zorochrus* Thomson, 1859

Zorochrus birganjanus Ohira & Becker, 1973:70

Paratypes: 1 [unknown sex]. NEPAL nr. Birganj, Lothar 450 ft, 8 Sept. [19]67, Can. Nepal. Exped; [on yellow] Paratype, CNC No. 12766, *Zorochrus birganjanus* Ohira & Becker.

Conservation status: Good condition; glued on triangle by right elytra.

Paratypes: 1 [unknown sex]. NEPAL nr. Birganj, Lothar 450 ft, 12 Sept. [19]67, Can. Nepal. Exped; [on yellow] Paratype, CNC No. 12766, *Zorochrus birganjanus* Ohira & Becker.

Conservation status: *Idem*.

Eucnemidae Eschscholtz, 1829

Genus *Fornax* Laporte, 1835

Subgenus *Filifornax* Fleutiaux, 1945

***Fornax (Filifornax) foersteri* Cobos, 1955: 2**

Holotype: 1 ♂. ♂; [on red] Metatipo; M; *Fornax (Filifornax) foersteri* Cobos, A. Cobos det. 1955.

Conservation status: Good condition.

***Fornax (Filifornax) proximus* Cobos, 1956: 9**

Holotype: 1 ♂. [on red] Holótipo; Ponta Grossa, Paraná—Brasil, II.1938, C.A. Camargo col.; *Fornax (Filifornax) proximus* nov. sp. A. Cobos det. 1955

Conservation status: Good condition.

Genus *Pereirella* Cobos, 1956

***Pereirella paulensis* Cobos, 1956: 5**

Holotype: 1 ♂. [on red] Holótipo; Ypiranga, E.S. Paulo; *Pereirella paulensis* m[ihi]. nov. sp. A. Cobos det. 1955.

Conservation status: Good condition; genitalia glued on card under specimen.

Genus *Neodiaeretus* Cobos, 1956

***Neodiaeretus brasiliensis* Cobos, 1956: 8**

Holotype: 1 ♂. [on red] Holótipo; São Paulo, Batêa, 2.XII.1940, F. Lane coll.; *Neodiaeretus brasiliensis* m[ihi]. nov. sp. A. Cobos det. 1955.

Conservation status: Good condition; genitalia glued on card under specimen.

Lampyridae Rafinesque, 1815

Genus *Petalacmis* Olivier, 1908

***Petalacmis wittmeri* Reichardt, 1963: 108**

Holotype: 1 ♂. [on red] Holótipo; Ananindeua, Pará, Brasil, I.1963, Machado & Pereira; *Petalacmis wittmeri* sp. N. Holótipo ♂, H. Reichardt det. 1963.

Conservation status: Good condition.

Lycidae Laporte, 1836

Genus *Cartagonum* Pic, 1922

***Cartagonum mayense* Nascimento & Bocakova, 2010: 124**

Paratype: 1 ♂. MEXICO: Chiapas, Palenque, 30.10.1978, E. Heiss; ♂; [on red] *Cartagonum mayense* n. sp., Nascimento & Bocakova, 2009, PARATYPE.

Conservation status: Good condition; specimen glued on card by abdomen. Genitalia dissected into microvial with glycerin.

***Cartagonum apiuba* Nascimento & Bocakova 2009: 125**

Holotype: 1 ♂. 01.XII.2007, Mata Sta. Tereza—EERP; Ribeirão Preto—SP—Brazil, EA Nascimento, CM Polegatto col.; ♂; [on red] *Cartagonum apiuba* n. sp., Nascimento & Bocakova, 2009, HOLOTYPE.

Conservation status: Good condition; specimen glued on card; last abdominal segments and left antenna glued on card under specimen; specimen glued on card by abdomen. Genitalia dissected into microvial with glycerin.

Paratypes: 3 ♂. 3.xi.2006, Mata Sta. Tereza—EERP; Ribeirão Preto—SP— Brazil, EA Nascimento, CM Polegatto col.; ♂; [on red] *Cartagonum apiuba* n. sp., Nascimento & Bocakova, 2009, HOLOTYPE.

Conservation status: Good condition; specimens glued on cards; one with specimen right antenna missing; last abdominal segments and left antenna glued on card under specimen; Genitalia dissected into microvial with glycerin; one specimen with both terminal segments of antennae missing; ; last abdominal segments glued on card under specimen; Genitalia dissected into microvial with glycerin.; one specimen with terminal segments of one antenna glued on card under the specimen; genitalia Genitalia dissected into microvial with glycerin.

Genus *Lycomorphon* Pic, 1922

***Lycomorphon amazonicum* Nascimento & Bocakova, 2009: 49**

Holotype: 1 ♂. Maturaca, AM, alto Rio Cauaburi, 28.XII.62–5.1.63, J. Bechyné col.; ♂; [on red] *Lycomorphon amazonicum* n.sp., Nascimento & Bocakova, 2009, HOLOTYPE.

Conservation status: Bad condition; specimen glued on card will legs and antennae missing; terminal segments of abdomen, part of one antenna and 3 legs glued on on card under the specimen; Genitalia dissected into microvial with glycerin.

Subgenus *Spinolycus* Nascimento & Bocakova, 2009

***Lycomorphon (Spinolycus) brasiliense* Nascimento & Bocakova, 2009: 50**

Holotype: 1 ♂. 01.XII.2006, Mata Sta. Tereza—ERRP, Ribeirão Preto—SP—Brazil, Nascimento EA, Polegatto CM col.; ♂; [on red] *Lycomorphon (Spinolycus) brasiliense* n.sp., Nascimento & Bocakova, 2009, HOLOTYPE.

Conservation status: Bad condition; specimen glued on card with both antennae; terminal segments of one antenna glued on card under specimen; Genitalia dissected into microvial with glycerin.

Phengodidae LeConte, 1861

Genus *Zarhipis* LeConte, 1881

***Zarhipis tiemmani* Linsdale, 1964: 253**

Paratype: 1 ♂. [on red] Paratipo; 4 mi. east of Inyokern. Kern co. Calix, 3.v.48; D.L. Tiemman Collector; Paratype *Zarhipis tiemanni* Linsdale; *Zarhipis tiemanni* Linsdale; Unpublished mms. Dr. Donald D. Linsdale.

Conservation status: Good condition.

Paratype: 1 ♂. [on red] Paratipo; 4 mi. N.E., Inyokern. Kern co. Calix, IV-20-1960; D.L. Tiemman Collector; *Zarhipis tiemanni* Linsdale.

Conservation status: Good condition.

Genus *Phrixothrix* Olivier, 1909

***Phrixothrix tiemanni* Wittmer, 1970: 55**

Holotype: 1 ♂. São José dos Campos, SP—Brasil, 10.I.1970; [on red] *Phrixotrix tiemanni* Wittmer, det. W. Wittmer; Holotypus.

Conservation status: Good condition.

Paratypes : 2 ♂. São José dos Campos, SP—Brasil, 10.I.1970; [on red] *Phrixotrix tiemanni* Wittmer, det. W. Wittmer; Paratypus.

Conservation status: Good condition.

Paratype: 1 ♂. São José dos Campos, São Paulo, Brasil, 17.I.63; [on red] *Phrixotrix tiemanni* Wittmer, det. W. Wittmer; Paratypus.

Conservation status: *Idem*.

Paratype: 1 ♂. Itu, São Paulo, Brazil, II.1.63; [on red] *Phrixotrix tiemanni* Wittmer, det. W. Wittmer; Paratypus.

Conservation status: *Idem*.

***Phrixothrix alboterminatus* Wittmer 1963: 80**

Holotype: 1 ♂. 1.1934 Goyaz, Campinas, Coll. H. Spitz; [on red] *Phrixothrix alboterminatus* Wittmer, det. W. Wittmer; Holotypus.

Conservation status: Good condition.

***Phrixothrix vivianii* Wittmer, 1992: 130**

Holotype: 1 ♂. [on red] Holotypus; Faz. Sta. Cruz, MTS—Brazil, 20.12.1990, V. Viviani; *Phrixothrix viviani* Wittmer, det. W. Wittmer.

Conservation status: Good condition; with right antenna missing.

Paratype: 1 ♂. [on red] Paratypus; Faz. Sta. Cruz, MTS—Brazil, 20.12.1990, V. Viviani; *Phrixothrix viviani* Wittmer, det. W. Wittmer.

Conservation status: *Idem*.

Genus *Mastinocerus* Solier, 1849

Subgenus *Mastinocerus* Solier, 1849

***Mastinocerus (Mastinocerus) nigroapicalis travassosi* Wittmer, 1963: 95**

Holotype: 1 ♂. [on red] Holotypus; II.29, São Paulo, Ypiranga, R. Spitz leg.; *Mastinocerus nigroapicalis* ssp *travassosi* Wittmer, det W. Wittmer.

Conservation status: Bad condition; left antenna missing.

Paratype: 1 ♂. [on red] Paratypus; Brooklin Paulista, São Paulo, SP—Brasil, 10.VII.961, L. Travassos Filho; *M. nigroapicalis* ssp *travassosi* Wittmer, det. W. Wittmer.

Conservation status: Bad condition, with both antennae missing the specimen. One antenna glued on a card under the specimen.

Subgenus *Paramastinocerus* Wittmer, 1976

***Mastinocerus (Paramastinocerus) janeirensis* Wittmer, 1976: 483**

Holotype: 1 ♂. [on red] Holotypus; Rio de Janeiro—GB, (Floresta da Tijuca), IV.1966, M. Alvarenga col.; 0.80, 0.50; *Mastinocerus (Paramastinocerus) janeirensis* Wittmer, det. W. Wittmer.

Conservation status: Good condition; specimen glued on card by right elytra.

Paratype: 1 ♂. [on red] Paratypus; Corceu, 12.XI.58, Macaos; *Mastinocerus (Paramastinocerus) janeirensis* Wittmer, det. W. Wittmer; Guardado 2.

Conservation status: Good condition; specimen glued on triangle by meso- and metaventrite.

***Mastinocerus (Paramastinocerus) pauloensis* Wittmer, 1963: 94**

Holotype: 1 ♂. [on red] Holotype; 4.XI.1955, Barueri, São Paulo, 6820; K. Lenko—Leg.; *M. pauloensis* Wittmer, det. W. Wittmer.

Conservation status: Good condition.

Genus *Ptorthodius* Gorham, 1881

***Ptorthodius lanei* Wittmer, 1963: 415**

Holotype: 1 ♂. [on red] Holotypus; Coleção J. Lane; 8.VII.39; Ter. Amapá, Rio Amapari, J. Lane col.; *Ptorthodius lanei* Wittmer, det. W. Wittmer.

Conservation status: Bad condition; specimen glued on triangle by left elytra; right antenna missing.

Paratype: 1 ♂. [on red] Allotypus; Coleção J. Lane; Ter. Amapá, Rio Amapari, J. Lane col.; 8.VII.39.

Conservation status: *Idem*.

Additional notes: Up to the present no winged female of Phengodidae has been found, so in this case, the specimen labeled as allotype must be considered a paratype of the same sex and not as a true allotype.

Genus *Brasilocerus* Wittmer, 1963

***Brasilocerus impressicollis* Wittmer, 1970: 56**

Holotype: 1 ♂. Estação Biológica de Boracéia, Mun. de Salesópolis, S.P., Brasil, 12.xi.69; X—Larva; Adult 18–IV–70; *Brasilocerus impressicollis* Wittmer, det. W. Wittmer; [on red] Holotypus.

Conservation status: Good condition.

Additional notes: *Brasilocerus impressicollis* is a junior synonym of *Phrixothrix oberthuri* Pic, 1955 that was transferred to *Brasilocerus* by Wittmer (1976:471). The Current name is *Brasilocerus oberthuri* (Pic, 1955).

***Brasilocerus minasensis* Wittmer, 1976: 472**

Holotype: 1 ♂. [on red] Holotype; Vila Monte Verde, Minas Gerais, 16.III.1966, J. Halik, 1706; *Brasilocerus minasensis* Wittmer, det. W. Wittmer.

Conservation status: Good condition; specimen glued on transparent triangle by abdominal segments.

Paratype: 1 ♂. [on red] Paratypus; Vila Monte Verde, Minas Gerais, 16.III.1966, J. Halik, 1706; Cantharidae; *Phengodes* sp.; *Brasilocerus minasensis* Wittmer, det. W. Wittmer; Guardado 1.

Conservation status: *Idem*.

Genus *Euryopa* Gorham, 1881

***Euryopa clarindae* Wittmer 1996: 129**

Holotype: 1 ♂. [on red] Holotypus; Cassilândia—MS, Faz. Olho d'Água, 02.XI.1986; E.J.H. Bechara, S. Ide; Coleta noturna, Luz vermelha em todo o corpo; *Euryopa clarindae* Wittmer, det. W. Wittmer; 809.

Conservation status: Bad condition; specimen glued on triangle; left antenna broken and right missing.

Additional notes: the third label of the specimen brings the following information (translated from Portuguese): *night collect, red light around the body*.

***Euryopa laurae* Wittmer 1996: 129**

Holotype: 1 ♂. [on red] Holotypus; V. Viviani col., Faz. Sta. Cruz, Costa Rica. MS. Brazil; 14/12/1992 R2; *Euryopa laurae* Wittmer, det. W. Wittmer; 810.

Conservation status: Bad condition; specimen glued on card.

Rhinorhipidae Lawrence, 1988

Genus *Rhinorhipus* Lawrence, 1988

***Rhinorhipus tamborinensis* Lawrence, 1988: 4**

Paratype: 1 ♂. 27.56S 153 12E, Joalah N.P., Tamborine Mt. Q, 18–21. Oct. 1978, Lawrence & Weir; On low vegetation.

Conservation status: Good condition.

Acknowledgments

I would like to thank Antonio Santos-Silva for his many valuable suggestions and corrections on the manuscript; Dr. Cleide Costa, Dr. Sonia Casari and Dr. Simone P. Rosa for providing literature for Elateridae beetles; Gabriel Biffi and Felipe F. Barbosa for providing literature, respectively, to Cantharidae and Eucnemidae; to Carlos Campaner and Ana Vasques for the support with Coleoptera Collection information; to Dione, Marta and Ricardo of the Library of MZSP by their helps with literature of other families; to Livia P. Prado for its suggestions on the style of the manuscript; to CAPES by the master's scholarship.

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