

ON SOME BRAZILIAN PLANTS DISTRIBUTED BY
MARTIUS IN 1827 AND PUBLISHED BY COLLA
IN *HERBARIUM PEDEMONTANUM*—V

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Abstract. In volume V of *Herbarium Pedemontanum*, Luigi Colla cited 21 species based on Brazilian specimens distributed by Carl Martius in 1827. Of them, 18 were treated as new species. The original material examined by Colla (now held at TO) was found and compared with duplicates held elsewhere. Material was located for all but two of the taxa described by Colla. Fourteen hitherto unresolved species names are here clarified, and seventeen new synonymies, eighteen lectotypifications, one neotypification, and one new combination are proposed. Based on the collecting localities and comparison with specimens at Herbarium Martii at BR and elsewhere, at least sixteen of the specimens distributed by Martius could be attributed to Prince Maximilian zu Wied.

Resumo. No volume V do *Herbarium Pedemontanum*, Luigi Colla citou 21 espécies a partir de espécimes brasileiros distribuídos por Carl Friedrich Philipp von Martius em 1827. Dessas, 18 foram tratadas como espécies novas. O material original examinado por Colla (atualmente em TO) foi localizado e comparado com duplicatas depositadas em outros herbários. Com exceção de dois táxons, todos os demais tiveram seus materiais localizados. Catorze nomes de espécies que permaneciam obscuros são aqui clarificados, assim como são propostas dezessete sinonímias novas, dezoito lectotipificações, uma neotipificação, e uma combinação nova. Com base nas localidades de coleta e comparação com espécimes do Herbarium Martii em BR e de outros herbários, pelo menos dezesseis dos espécimes distribuídos por Martius poderiam ser atribuídos a coleções feitas pelo Príncipe Maximiliano de Wied.

Keywords: Brazil, *Herbarium Pedemontanum*, historical collections, Maximilian, Prince of Wied, nomenclature, taxonomy

Colla (1836) treated 21 Brazilian species in volume V of *Herbarium Pedemontanum*, from specimens communicated by Carl Martius in 1827, which pertain to families Eriocaulaceae, Euphorbiaceae, Lauraceae, Phyllanthaceae, Piperaceae, Poaceae, Polygonaceae, and Urticaceae. These specimens, and others from the same set distributed by Martius to major European herbaria, were indiscriminately attributed to Martius, either by Colla or by other authors who dealt with them (Moraes et al., 2013a, b, c, d).

Similarly to what we have presented in former papers related to *Herbarium Pedemontanum* volume I (Colla, 1833; Moraes et al., 2013a), volume II (Colla, 1834; Moraes et al., 2013b), volume III (Colla, 1835a; Moraes et al., 2013c), and volume IV (Colla, 1835b; Moraes et al., 2014), Herbarium Colla at the University of Turin (TO) was searched for original specimens of species that Colla described from these Brazilian material. Specimens located at TO were compared with material at BR, GOET, LE, M, MEL, the private herbarium of Wied in Neuwied, Germany, and elsewhere.

As noted by Moraes et al. (2013a), the specimens distributed by Martius have *Herbarium Martii* labels, typically

printed with “*Communic 182 . . .*,” and handwritten with “*Martius*” and “*7*” (i.e. “*Communicavit Martius 1827*”). In most cases, the locality is specified, but not the collector. Many authors who have worked with these collections not only attributed them to Martius, but cited them as collected in 1827. As outlined by Moraes et al. (2013a), the localities and date preclude Martius as the collector, since he collected in Brazil in 1817–1820. Although no collector is specified, many of the localities refer to places that were visited by the expedition of Maximilian Alexander Philipp, Prinz zu Wied-Neuwied (1782–1867) (since 1824: zu Wied; Roth, 2001: 139; Hannibal et al., 2009: 5; hereafter referred to as Wied), from 1815 to 1817, including “*Rio Doce*,” “*Barra de Jucu*,” “*Campos Novos*,” “*Moribeca*,” “*Regência*,” “*Tamburil and Valo*,” “*Aldea Velha*,” “*Itapemirim*,” “*Rio Belmonte*,” “*Minasstrasse*” [“*Estrada de Minas*”] or “*via Felisbertia*,” “*Mucuri*,” “*Villa Nova de Almeida*,” “*Pedra d’Agoa*,” etc. (Moraes, 2009). No other collector is documented as having collected in these areas before 1827. Furthermore, in most cases, the additional sets distributed by Martius closely match specimens at BR, GOET, LE, and MEL that have original

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Wied's labels, and that show close similarities between the plants. The majority of the specimens that Martius sent to Colla can thus be confirmed to be Wied's specimens.

Since Colla only mentions that the specimens were received from Martius, and since his indications are often somewhat incomplete (and sometimes include misleading information), it is not certain that Colla examined only the material that is still at TO; it's possible that he examined other specimens which have since been exchanged with

other herbaria or that were lost. As such, specimens located at TO have been designated as lectotypes, rather than treated as holotypes.

Accepted names appear in boldface italics, with synonyms in italics. Full synonymies are not included as they can be found elsewhere. The symbol "≡" indicates homotypic synonyms. In the present work, 14 of Colla's names that remained unresolved to date are here clarified, and 16 of those specimens could be attributed to Wied.

BRAZILIAN SPECIES IN VOLUME V OF *HERBARIUM PEDEMONTANUM*

ERIOCAULACEAE

Comanthera nivea (Bong.) L.R. Parra & Giul., *Taxon* 59: 1141. 2010 ≡ *Eriocaulon niveum* Bong., *Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math.* 1: 635, t. 37. 1831 ≡ *Paepalanthus niveus* (Bong.) Kunth, *Enum. Pl.* 3: 527. 1841 ≡ *Dupatya nivea* (Bong.) Kuntze, *Revis. Gen. Pl.* 2: 746. 1891 ≡ *Syngonanthus niveus* (Bong.) Ruhland in Engler, *Pflanzenr.* IV.30 (Heft 13): 275. 1903. TYPE: BRAZIL. Minas Gerais, Tiradentes, "in arenosis siccis Serra de St. Joze," June 1824, *L. Riedel 294* (Holotype: LE; Isotypes: LE, OXF n.v.).

Synonym: *Eriocaulon densum* Mart. ex Colla, *Herb. Pedem.* 5: 483. 1836, **syn. nov.** LECTOTYPE (designated here): BRAZIL. Bahia, Rio Jequitinhonha, "in arenosis ad Rio Belmonte," 1816, *M. A. P., Prinz zu Wied s.n.* (TO; Isolectotype: BR 0000008601803).

Further synonyms in Parra et al. (2010).

Moldenke (1968: 49) acknowledged Colla's name but was not aware of its status, pointing out that Ruhland (1903) did not treat it in his monograph. The specimen at TO includes the text "in arenosis" and closely matches the Wied specimen at BR, which has an original label that includes "im Sande."

Paepalanthus tortilis (Bong.) Mart. ex Körn. in Martius, *Fl. Bras.* 3(1): 354. 1863 ≡ *Eriocaulon tortile* Bong., *Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math.* 1: 624, t. 49. 1831. TYPE: BRAZIL. Bahia, "in arenosis humidis prope Ilheos," *L. Riedel s.n.* (Holotype: LE). Other specimens: BRAZIL. Rio de Janeiro, "in arenosis graminosis tempore pluviali inundatis inter Macahé et Campos," 1815, *M. A. P., Prinz zu Wied s.n.* (3) (BR 0000008600653, MEL 2353710 & MEL 2353749 ex Herb. Sonder); idem, Rio de Janeiro, *L. Riedel s.n.* (K 000587329, M 0137087 [F neg. 18731], P 01746022, P 01746024, P 01746027).

Synonym: *Eriocaulon plumbeum* Mart. ex Colla, *Herb. Pedem.* 5: 484. 1836, **syn. nov.**; Hill (1938: 105). LECTOTYPE (designated here): BRAZIL. Espírito Santo, Rio Doce, s.d., *Anonymous* [Wied] *s.n.* (TO).

Further synonyms in Moldenke (1976).

Moldenke (1969: 393) acknowledged Colla's name and stated that it was unaccounted for in the works of Martius (1835), Körnicke (1863), Ruhland (1903), and others who wrote monographs of Eriocaulaceae, nor had he found the name written on any Martius label he had seen. Rio Doce is a typical Wied expedition locality, never visited by Martius, where the former is known to have collected at least 37 species (Moraes et al., 2013a,b,c,d; Moraes et al., 2014).

EUPHORBIACEAE

Acalypha cuneata Poepp., *Nov. Gen. Sp. Pl.* 3: 22. 1841 ≡ *Ricinocarpus cuneatus* (Poepp.) Kuntze, *Revis. Gen. Pl.* 2: 617. 1891 ≡ *Acalypha obovata* Benth. var. *cuneata* (Poepp.) J.F. Macbr., *Candollea* 6: 26. 1940. Lectotype (designated by Cardiel and Muñoz, 2012: 8): PERU. "Crescit in fruticetis maynensibus ad Yurimaguas," March 1831, *E. F. Poeppig 2230* (W-Rchb. [1889-0113778]; Isolectotypes: A 00045449, B[†] [F neg. 5288], F [767069; fragment], G 00383631, P 00076206, P 00076207, W-Rchb. [1889-0105849], W 0021406). Other syntypes: BRAZIL. Amazonas, Tefé, "Ega," *E. F. Poeppig 2317* (B[†] [F neg. 5288], F [838998; fragment], G 00383629, G 00383630, G-DC 00324024, P 00076204, P 00076205, W-Rchb. [1889-0214834], W-Rchb. [1889-0314173; PERU. Maynas, 1831]), *E. F. Poeppig 2330* (F [839003; fragment], G [4 sheets] n.v., P [2 sheets] n.v., W n.v.; fide Cardiel and Muñoz, 2012), *E. F. Poeppig 2807* (W n.v.).

Synonyms: *Acalypha prunifolia* Nees & Mart. in Wied-Neuwied, *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 11: 37. 1823, *nom. illegit.*, non *Acalypha prunifolia* Kunth, *Nov. Gen. Sp.* (quarto ed.) 2: 92. 1817; Colla, *Herb. Pedem.* 5: 114. 1836; Müller Argoviensis in Martius, *Fl. Bras.* 11(2): 359. 1874 ≡ *Ricinocarpus prunifolius* (Nees & Mart.) Kuntze, *Revis. Gen. Pl.* 2: 618. 1891. Lectotype (designated by Moraes et al., 2013d: 89): BRAZIL. Bahia, "ad Ilhéos fluvium, tum vero in silvis primaevae iuxta viam, qua Minas adeunt," December 1816, *M. A. P., Prinz zu Wied s.n.* (Nees von Esenbeck nr. CXVI) (BR 0000008675118; Isolectotype: TO [only the right-hand specimen]). Other specimens: BRAZIL. Bahia, "via Felisbertia," s.d., *M. A. P., Prinz zu Wied s.n.* (BR 0000008674784, TO [left-hand specimen]); BRAZIL. Rio de Janeiro, "Campos Novos" [Fazenda de Campos Novos, current municipality of Tamoios], September 1815, *M. A. P., Prinz zu Wied s.n.* (Menke nr. 127) (BR 0000008675446 [two branches mounted on the same sheet]); idem, Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] *s.n.* (BM 001125228); idem, Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] *s.n.* (K 000600547).

Acalypha klotzschii Baill., *Adansonia* 5: 231. 1865. TYPE: BRAZIL. *L. Riedel s.n.* (Syntype: B[†], F [1012410], P 04839470, P 04839472, P 04839474, P 04839475); idem, Rio de Janeiro, *C. Gaudichaud-Beaupré 1157* (Syntypes: B[†] [F neg. 5311], G 00383720, G-DC 00324500, P00635229, P00635232,

P 00635234); idem, Rio de Janeiro, Macaé, A. F. C. P. de Saint-Hilaire Cat. B² N^o 168 (Syntypes: P 00635230, P 00635231, P 00635233).

Further synonyms in Cardiel and Muñoz (2012).

There are two specimens mounted on the same sheet at TO, which bear original labels of *Herbarium Martii*, communicated by Martius in 1827. The right-hand specimen is annotated with “*Acalypha prunifolia* N. & Mart. / N. Act. Cur. Leop. / Brasilia” and closely matches the Wied collection at BR (BR 00000086751118), whereas the left-hand specimen is annotated with “*Acalypha prunifolia* N. & M. / Brasilia” and closely matches the specimen at BR (BR 0000008674784), this latter being annotated by Martius with “*Acalypha Maximiliana* Mart. var. *grandifolia* (α.)” The specimens at BM and K have original labels of *Herbarium Martii*, communicated by Martius in 1827, annotated with “*Acalypha prunifolia* Nees & Mart. / Cabo Frio, Brasilia.” However, the former closely matches the left-hand specimen at BR (BR 0000008675446), which was annotated by Martius with “*Acalypha Maximiliana* Mart. var. *β. angustifolia*,” whereas the latter closely matches the lectotype at BR (BR 0000008675118).

Acalypha hirsuta Mart. ex Colla, Herb. Pedem. 5: 114. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Magé/Petrópolis, “Serra da Estrella,” s.d., *Anonymous s.n.* (TO). Other specimen: BRAZIL. Rio de Janeiro, “in Campos de Goyatacazes,” 1815, *M. A. P., Prinz zu Wied s.n.* (BR 0000008675477).

Synonym: *Acalypha communis* Müll. Arg., Linnaea 34: 23. 1865, **syn. nov.**; idem in Martius, Fl. Bras. 11(2): 349. 1874 = *Ricinocarpus communis* (Müll. Arg.) Kuntze, Revis. Gen. Pl. 2: 617. 1891. TYPE: BRAZIL. Minas Gerais, loco haud indicato, 1845, *J. F. Widgren s.n.* (Holotype: S [07-12617]; Isotypes: BR 0000006997823, G-DC 00324312, *A. communis* var. *tomentosa* Müll. Arg., Linnaea 34: 24. 1865); idem, Minas Gerais, loco haud indicato, 1845, *J. F. Widgren s.n.* (Holotype: S [07-12620]; Isotype: G-DC 00324311, *A. communis* var. *tomentella* Müll. Arg., Linnaea 34: 24. 1865).

Acalypha communis Müll. Arg. var. *hirta* (Spreng.) Müll. Arg., Linnaea 34: 24. 1865 = *Acalypha hirta* Spreng., Syst. Veg. (ed. 16) 4(2): 315. 1827, *nom. illegit.* TYPE: BRAZIL. Rio Grande do Sul, loco haud indicato, s.d., *F. Sellow s.n.* (Holotype: unlocated). NEOTYPE (designated here): URUGUAY. Montevideo, November 1822, *F. Sellow d* 873 [Herbier Impérial du BRÉSIL N^o 1687] (P 04838976; Isoneotype: BR 0000013309251, also syntype of *Acalypha variabilis* Klotzsch. ex Baill., Adansonia 5: 226. 1865). Other specimen: BRAZIL. Minas Gerais, loco haud indicato, s.d., *J. F. Widgren s.n.* (G-DC 00324310 [F neg. 7126]).

Further synonyms under *A. communis* Müll. Arg. in Cardiel (2013).

“Serra da Estrela” in Rio de Janeiro is a locality where plants have been collected by Langsdorff, Sellow, Martius, Pohl, Raddi, Riedel, and Beyrich, prior to 1827 (see Urban,

1906). In spite of that, no specimen from this locality has been cited by Müller Argoviensis (1874), nor has been located in the herbaria inspected.

Acalypha pruriens Nees & Mart. in Wied-Neuwied, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11: 36. 1823; Müller Argoviensis in Martius, Fl. Bras. 11(2): 355. 1874 = *Ricinocarpus pruriens* (Nees & Mart.) Kuntze, Revis. Gen. Pl. 2: 618. 1891. Lectotype (designated by Moraes et al., 2013d: 89): BRAZIL. Bahia, “circa Ilhéos, flumen, ad aquas et at vias Novembri et Decembri,” “Rio da Cachoeira,” December 1816–January 1817, *M. A. P., Prinz zu Wied s.n.* (85) (BR 0000008675804 [annotated by Nees]; Isolectotype: BR 0000008674456).

Synonym: *Acalypha ruderalis* Mart. ex Colla, Herb. Pedem. 5: 114. 1836, **syn. nov.** LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Magé/Petrópolis, “Serra da Estrella,” s.d., *Anonymous s.n.* (TO).

Acalypha subsana Mart. ex Colla, Herb. Pedem. 5: 113. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] *s.n.* (TO; Isolectotype, BM 001125229).

Synonyms: *Acalypha brasiliensis* Müll. Arg., Linnaea 34: 37. 1865, **syn. nov.**; idem in Martius, Fl. Bras. 11(2): 363. 1874.

Acalypha brasiliensis Müll. Arg. var. *obtusata* (Müll. Arg.) Müll. Arg. in Martius, Fl. Bras. 11(2): 363. 1874, **syn. nov.** = *Acalypha brasiliensis* Müll. Arg. var. *asterotricha* Müll. Arg. f. *obtusata* Müll. Arg., Linnaea 34: 37. 1865; idem in Prodr. (DC.) 15(2): 859. 1866 = *Ricinocarpus brasiliensis* (Müll. Arg.) Kuntze, Revis. Gen. Pl. 2: 617. 1891. TYPE: BRAZIL. Bahia, loco haud indicato, s.d., *J. S. Blanchet* 98 (Holotype: G-DC 00324480). Other specimens: BRAZIL. Bahia, “in sylvis prope Ilheos/ ad via Felisbertia,” s.d., *M. A. P., Prinz zu Wied s.n.* (BR 0000008675149, BR 0000008674814).

Colla mistakenly interpreted “subcana,” which is easier to decipher from the label of the specimen at BM than from that of the specimen at TO, as “subsana.” These specimens closely match the Wied collections at BR, showing the same pattern of necrosed leaves, with holes on leaf surface apparently caused by insects.

Astraea macrourea (Colla) P.L.R. Moraes, De Smedt & Guglielmone, **comb. nov.**

Basionym: *Croton macroureus* Mart. ex Colla, Herb. Pedem. 5: 110. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] *s.n.* (TO [Fig. 1]; Isolectotypes: BM 001125227, K 000186091).

Synonyms: *Astraea klotzschii* Didr., Vidensk. Meddel. Dansk. Naturhist. Foren. Kjøbenhavn 1857: 137. 1857, **syn. nov.** = *Croton klotzschii* (Didr.) Müll. Arg. f. *genuinus* Müll. Arg., Linnaea 34: 136. 1865, *nom. invalid.*; idem in Martius, Fl. Bras. 11(2): 240. 1873 = *Astraea diversifolia* Klotzsch. Arch. Naturgesch. 7(1): 194. 1841, *nom. nud.* TYPE: BRAZIL. “*Acalypha*, e

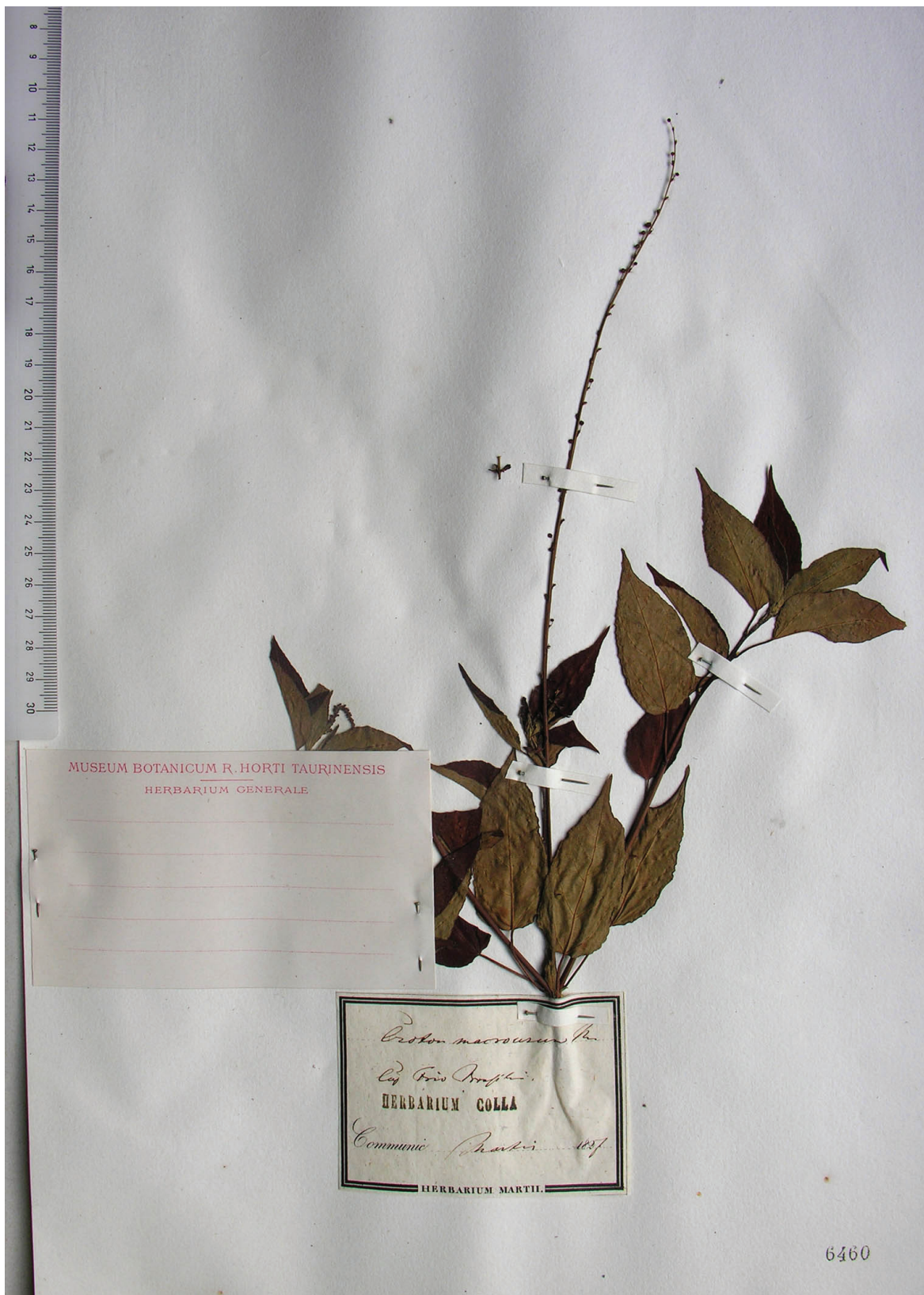


FIGURE 1. Lectotype of *Astraea macroua* (Colla) P.L.R. Moraes, De Smedt & Guglielmona, probably collected by Wied (specimen TO). Photograph courtesy of Università degli Studi di Torino, Dipartimento di Scienze della Vita e Biologia dei Sistemi.

Brasilia Merckl. Hb. Horn.,” s.d., *K. E. von Mercklin s.n.* (Holotype: C n.v.). Other specimens: BRAZIL. Bahia, Olivença, “in arenosis prope Villa Nova,” 1816, *M. A. P., Prinz zu Wied s.n.* (377) (BR 0000006594060 [Fig. 2], GOET, MEL 2353841, MEL 2353842).

Further synonyms in van Ee (2011).

The specimens at BM, K, and TO are originally annotated with “*Croton macrourum* Mart.” Colla’s name is the oldest available for the taxon that has been accepted as *Astraea klotzschii* Didr.

Cnidocolus aculeatissimus (Colla) Fern. Casas, Fontqueria 55: 67–68. 2002 = *Jatropha ferox* Müll. Arg. in Martius, Fl. Bras. 11(2): 497. 1874.

Basionym: *Jatropha aculeatissima* Mart. ex Colla, Herb. Pedem. 5: 112. 1836; idem in Ic. Pl. Rar. Herb. Pedem. 3: t. 89, fig. 2. 1837. Lectotype (designated by Fernández Casas, 2002: 68, as “typus *J. ferox*, atque *J. aculeatissima*?”): BRAZIL. Espírito Santo, Pedra d’Água, “ad Pedra Agoa,” March 1816 [sic; December 1815], *M. A. P., Prinz zu Wied s.n.* (G; Isolectotypes: BR 0000006595050, LE, MEL 2353779, TO).

Though the type collection of *J. aculeatissima* has been attributed to Martius, he never visited Pedra d’Água (see Moraes et al., 2013b, d).

Croton splendidus Mart. ex Colla, Herb. Pedem. 5: 110. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, “ad Cabo Frio,” September 1815, *M. A. P., Prinz zu Wied s.n.* (39; Menke nr. 39) (BR 0000005848133; Isolectotypes: BR 0000005848461, E 00326420, MEL 2353825, P 00634649).

Synonyms: *Croton splendidus* Mart. ex Baill., Adansonia 4: 294. 1864, *nom. illegit. hom.* TYPE: BRAZIL. Minas Gerais, Ouro Preto, Cachoeira do Campo, April 1839, *P. Claussen 60* [= 1572] in *Martii Herbar. Florae Brasiliensis N° 846* (Syntypes: A 00257960, BR 0000013318321, G-DC 00311769, K, NY [1026855], NY [1281004], P 05566380, P 00634650, W n.v.); idem, Minas Gerais, “S. de Itatiaya,” June 1840, *P. Claussen 1575* [= Euphorbiacea n. 6] (Syntypes: G-DC 00311768, NY [1026856], P 005566386, P 05566389); idem, s.d., *A. F. C. P. de Saint-Hilaire Cat. B' N° 445* (Syntype: P 05566392); idem, Minas Gerais, s.d., *A. F. C. P. de Saint-Hilaire Cat. C' N° 102* (Syntypes: NY 00804046, NY 00804047, P 05566377, P 05566381, P 05566391, P 05566394, P 05566395); idem, Minas Gerais, Serra do Caraça, s.d., *A. F. C. P. de Saint-Hilaire s.n.* (Syntype: P 05566398).

Croton migrans Casar., Nov. Stirp. Bras. 88. 1845; Müller Argoviensis in Martius, Fl. Bras. 11(2): 139, t. 27. 1873 = *Oxydectes migrans* (Casar.) Kuntze, Revis. Gen. Pl. 2: 612. 1891. TYPE: BRAZIL. Rio de Janeiro, “in sylvulis arenosis maritimis (vulgo restingas),” s.d., *G. Casaretto 1255* (Lectotype: TO, fide Lima and Pirani, 2008: 210; Isolectotype: G-DC 00311767).

Although no specimen of *Croton splendidus* has been located at TO, those at E and P bear original labels of

Herbarium Martii annotated with “*Croton splendidus* Mart.,” communicated by Martius in 1827, and they agree with the protologue. Lima and Pirani (2008) wrongly attributed the type of *C. splendidus* to Martius, indicating the “holotype” as being held at Munich. As pointed out by Moraes et al. (2013a,b,d), Martius did not collect in Cabo Frio, whereas Wied collected over 100 species in that region. The lectotype selected here bears an original label by Wied annotated with “C. Frio im Sept. 1815,” and perfectly matches the protologue and the specimens at E and P.

PHYLLANTHACEAE

Phyllanthus eurisladro Mart. ex Colla, Herb. Pedem. 5: 106. 1836. LECTOTYPE (designated here): BRAZIL. Bahia, Rio de Contas, “Rio das Corsas [sic],” s.d., *Anonymous s.n.* (TO).

Synonyms: *Phyllanthus flagelliformis* Müll. Arg., Linnaea 32: 54. 1863, *syn. nov.*; idem in Martius, Fl. Bras. 11(2): 74. 1873 = *Phyllanthus flagelliformis* Müll. Arg. var. *genuinus* Müll. Arg., Prodr. (DC) 15(2): 432. 1866, *nom. invalid.* = *Diasperus flagelliformis* (Müll. Arg.) Kuntze, Revis. Gen. Pl. 2: 599. 1891. TYPE: BRAZIL. Bahia, loco haud indicato, s.d., *J. S. Blanchet s.n.* (Holotype: G-DC 00316681). Other specimen: BRAZIL. Bahia, “ad fluvium Ilheos,” s.d., *M. A. P., Prinz zu Wied s.n.* (BR 0000006592189).

Phyllanthus flagelliformis Müll. Arg. var. *demonstrans* Müll. Arg., Linnaea 32: 55. 1863, *syn. nov.*; idem in Martius, Fl. Bras. 11(2): 74, t. 10, fig. 1. 1873. TYPE: BRAZIL. Bahia, Ilhéus, “ad ripas,” 1835, *J. S. Blanchet 2093* (Holotype: G-DC 00316748; Isotypes: P 00608967, P 00608968, P 00608969). Other specimen: BRAZIL. Bahia, Rio da Cachoeira, “ad Ilhéos fluvium,” December 1816, *M. A. P., Prinz zu Wied s.n.* (Klaenze nr. 98; Nees von Esenbeck nr. CI) (BR 0000006593728).

non *Phyllanthus linearis* Sw. fide Nees & Martius in Wied-Neuwied, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11: 38. 1823.

The handwriting on the original label of the specimen at TO is difficult to read. Colla mistakenly interpreted “cuspidados” (which seems to be the most likely interpretation, annotated on label by Ferdinando Vignolo-Lutati in 1950) as “eurisladro,” and “Rio das Contas” as “Rio das Corsas.” Regardless, Rio de Contas is a place that can be attributed either to Wied or to Martius, since both visited the region. However, Müller Argoviensis (1873) did not cite any material annotated with such a toponym, but the Wied collection from Rio da Cachoeira (thus wrongly attributed to Martius), which closely matches the specimen received by Colla.

Phyllanthus niruri L., Sp. Pl. 2: 981. 1753. Lectotype (designated by Webster, 1956: 13): “Habitat in Indiis,” Herb. Clifford 440, *Phyllanthus 2* (BM 000647367). Other specimens: BRAZIL. Rio de Janeiro, “Moreb.” [Fazenda de Muribeca, probably the current populated place of Batalha], November 1815, *M. A. P., Prinz zu Wied s.n.* (BR 0000005904785); BRAZIL. Bahia, Rio Jequitinhonha, “in

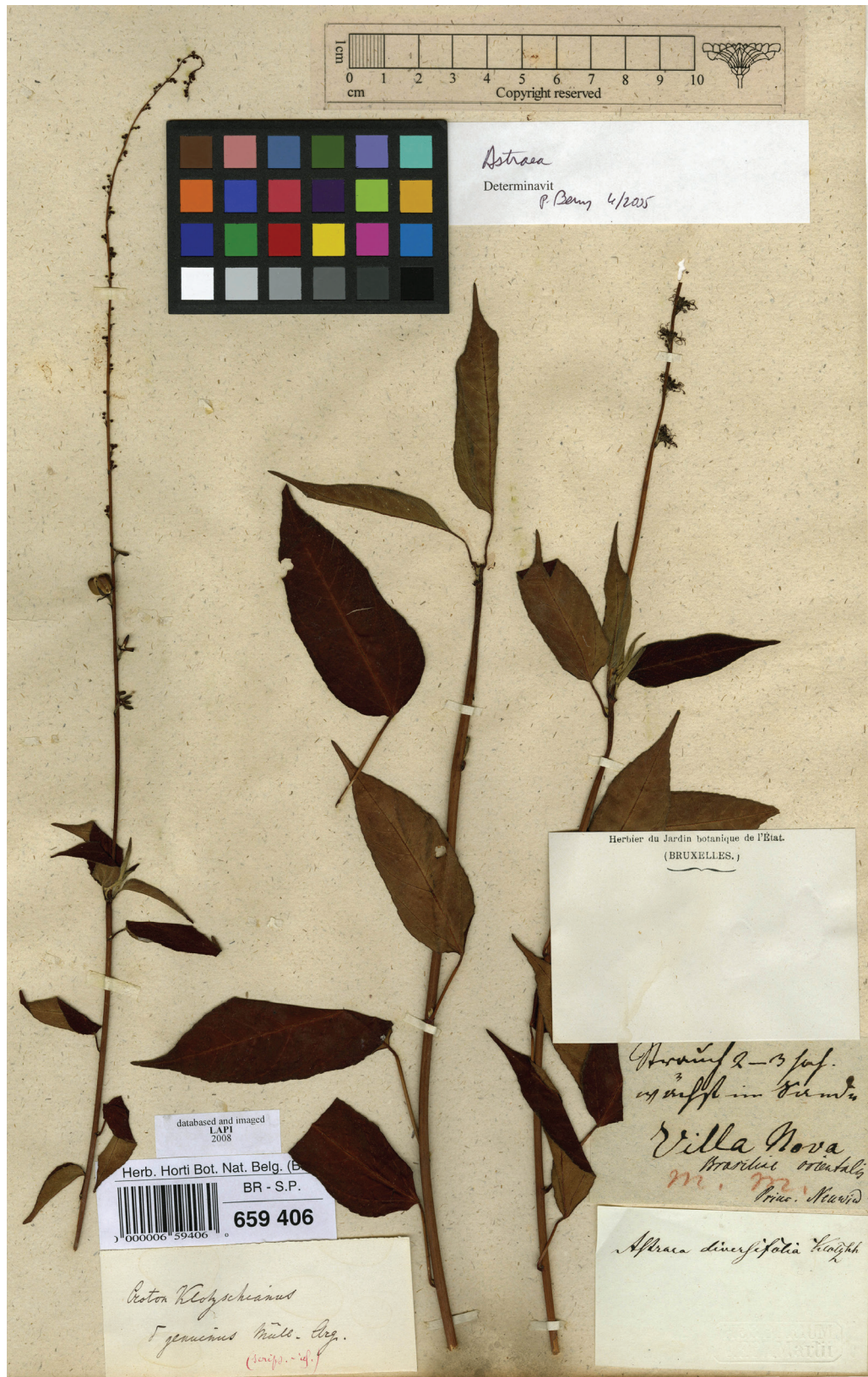


FIGURE 2. *Astraea macroura* (Colla) P.L.R. Moraes, De Smedt & Guglielmono, collected by Wied (specimen BR). Photograph courtesy of National Botanic Garden of Belgium, Dept. Spermatophyta-Pteridophyta.

arenosis ad Rio Belmonte,” 1816, *M. A. P., Prinz zu Wied s.n.* (BR 0000005102839, BR 0000005103164).

Synonyms: *Phyllanthus lathyroides* Kunth, Nov. Gen. Sp. (quarto ed.) 2: 110. 1817 = *Diasperus lathyroides* (Kunth) Kuntze, Revis. Gen. Pl. 2: 599. 1891 = *Phyllanthus niruri* L. subsp. *lathyroides* (Kunth) G.L. Webster, Contr. Gray Herb. 176: 52. 1955. TYPE: VENEZUELA. “Crescit locis temperatis Novæ Andalusie prope cœnobium Caripense,” September, *F. W. H. A. von Humboldt & A. J. A. Bonpland s.n.* (Holotype: P 00669940).

Phyllanthus elongatus Mart. ex Colla, Herb. Pedem. 5: 105. 1836, *nom. illegit.*, *syn. nov.*, non *Phyllanthus elongatus* (Jacq.) Steud., Nomencl. Bot. 1: 615. 1821. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] s.n. (TO). *Phyllanthus* sp., Colla, Herb. Pedem. 5: 106. 1836. Specimen: BRAZIL. Bahia, “via Felisbertia,” s.d., *Anonymous* [Wied] s.n. (TO).

Further synonyms in Webster (1956, 1957, 1970).

The specimens received by Colla closely match the Wied collections respectively from Rio de Janeiro and Bahia.

Phyllanthus robustus Mart. ex Colla, Herb. Pedem. 5: 106. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Magé/Petrópolis, Serra da Estrela, “Serra d’Estalle [sic],” s.d., *Anonymous s.n.* (TO). Probable original material: BRAZIL. Espírito Santo, Rio Doce, s.d., *Anonymous* [Wied] s.n. (BM 001125224, K 000573039).

Synonyms: *Phyllanthus klotzschianus* Müll. Arg., Linnaea 32: 53. 1863, *syn. nov.*; idem in Martius, Fl. Bras. 11(2): 71. 1873.

Phyllanthus klotzschianus Müll. Arg. var. *robustus* Müll. Arg., Linnaea 32: 53. 1863, *syn. nov.*; idem in Martius, Fl. Brasil. 11(2): 72, t. 10, fig. 2. 1873. TYPE: BRAZIL. Rio Grande do Sul, loco haud indicato, s.d., *F. Sellow 1107* (Syntypes: B[†], BR 000000510282, K 000573032, K 000573035, P 04828054, P 04828063); idem, Minas Gerais, Ouro Preto, s.d., *J. B. E. Pohl 3714* (Syntype: BR 0000005103157); idem, Minas Gerais, Diamantina, “Tejuco,” 1833, *A.-C. Vauthier 81* (Syntypes: G-DC 00316705, P 04828060, P 04828061, P 04828062); idem, Minas Gerais, São João d’El Rey, June 1824, *L. Riedel 268* (Syntypes: LE, NY 00273086, P 04828069, P 04828073); idem, Minas Gerais, Ouro Preto, February 1835, *L. Riedel 2812* (Syntypes: K 000573029, LE, P 04828071); idem, Minas Gerais, loco haud indicato, 1840, *P. Claussen s.n.* (83, 274, 614, 786) (Syntypes: BR 0000005102907, K 000573036, NY 01552413, P 04828077, P 04828078); idem, Minas Gerais, Diamantina, July 1840, *G. Gardner 5174* (Syntypes: BM n.v., K 000573037, NY 01085355, NY 00273085, P 04828064).

Phyllanthus klotzschianus Müll. Arg. var. *minor* Müll. Arg., Linnaea 32: 54. 1863, *syn. nov.*; idem in Martius, Fl. Bras. 11(2): 71. 1873. TYPE: BRAZIL. Loco haud indicato, s.d., *F. Sellow 638* (Holotype: B[†]; Isotypes: BR 0000005103485, K 000573028, P

00608992). Other specimens: BRAZIL. Bahia, Rio Jequitinhonha, “in arenosis ad Rio Belmonte,” 1816, *M. A. P., Prinz zu Wied s.n.* (BR 0000005904129, BR 0000005904457).

Further synonyms in Secco et al. (2013).

The label of the specimen received by Colla has a different locality (“Serra d’Estrela”) from those found on specimens at BM and K (“Rio Doce”), though they likely belong to the same gathering as evidenced by the same general morphological pattern of the plant samples. Colla’s name is the oldest available for the taxon that has been accepted as *Phyllanthus klotzschianus* Müll. Arg.

Phyllanthus udicola Mart. ex Colla, Herb. Pedem. 5: 105. 1836. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] s.n. (TO). Probable original material: BRAZIL. Bahia, Rio Jequitinhonha, “Rio Bellmonte,” s.d., *Anonymous* [Wied] s.n. (BM 001125225).

Synonyms: *Phyllanthus clausenii* Müll. Arg., Linnaea 32: 40. 1863, *syn. nov.*; idem in Martius, Fl. Bras. 11(2): 61, t. 9, fig. 1. 1873. Lectotype (designated by Webster, 2002: 14): BRAZIL. Minas Gerais, loco haud indicato, s.d., *P. Claussen 1530* (W n.v.). Syntypes: BRAZIL. Minas Gerais, loco haud indicato, s.d., *P. Claussen s.n.* (G-DC 00316178 [F neg. 7045], G-DC 00316175). Other specimens: BRAZIL. Bahia, Olivença, “in sylvis prope Villa Nova,” 1816, *M. A. P., Prinz zu Wied s.n.* (BR 0000006592707, BR 0000006592738, BR 0000006593063).

Phyllanthus clausenii Müll. Arg. var. *oblongifolius* Müll. Arg. in Martius, Fl. Bras. 11(2): 61. 1873, *syn. nov.* TYPE: BRAZIL. Minas Gerais, Santana do Riacho, “Riacho Fundo,” January 1825, *L. Riedel 1364* (LE, K 000573056, NY 00273060, P 00608959; also syntypes of *P. clausenii* Müll. Arg.).

Although belonging to the same taxon and seemingly also from the same gathering, the specimens distributed by Martius in 1827 at TO and BM have different information annotated on their labels; the former with “Cap. Frio,” the latter with “Rio Bellmonte,” which are well-known localities from Wied’s expedition. Furthermore, these specimens closely match Wied’s material from Olivença. *Phyllanthus udicola* Colla is the oldest available name for the taxon that has been accepted as *Phyllanthus clausenii* Müll. Arg.

PIPERACEAE

Piper arboreum Aubl., Hist. Pl. Guiane 1: 23. 1775. Lectotype (designated by Lanjouw and Uittien, 1940: 155): FRENCH GUIANA. *J. B. C. F. Aublet s.n.* (P-JJR [Hb. Denaiffe vol. I, no. 36; only the leaves]; Isolectotype: BM 000600603).

Synonym: *Piper brasiliense* Mart. ex Colla, Herb. Pedem. 5: 165. 1836, *syn. nov.*, non *Piper brasiliense* C. DC., Prodr. 16(1): 259. 1869, *nom. illegit.* LECTOTYPE (designated here): BRAZIL. Bahia, “via Felisbertia,” s.d., *M. A. P., Prinz zu Wied s.n.* (Menke nr. 123) (TO; Isolectotypes: BM 001125221, BR 0000013067014, GOET).

POACEAE

Setaria sulcata Raddi, Atti r. Accad. Lucchese Sci., Lett. ed Arti 2: 376. 1823; Baldini and Longhi Wagner (2006: 479). Basionym: *Panicum sulcatum* Bertol., Opusc. Sci. 4: 230. 1820, *nom. illegit. hom.*, non Aublet, Hist. Pl. Guiane 1: 50. 1775. TYPE: BRAZIL. Rio de Janeiro, "Invenitur in marginibus fossarum udarum prope Catumbi, non procul ab urbe Rio de Janeiro" (Raddi, 1823: 376), "Panicum sulcatum Bert. Excerpt. de re herb. p.14 n.14 // Attulit ex Brasilia et benevole communicavit D. Raddi sub nomine Panici plicati. 1820." [scrispit: A. Bertoloni on BOLO, fide Baldini and Longhi Wagner, 2006] (Holotype: BOLO; Isotypes: B[†], FI [3 sheets], PI [2 sheets]).

Synonyms: *Panicum elongatum* Poir. in Lamarck, Encycl., Suppl. 4: 278. 1816, *nom. illegit.*, non *Panicum elongatum* Salisb., Prodr. Stirp. Chap. Allerton 18. 1796, *nom. illegit.*, non *Panicum elongatum* Pursh, Fl. Amer. Sept. 1: 69. 1814, *nom. illegit.*, non *Panicum elongatum* Mez, Bot. Jahrb. Syst. 34(1): 132. 1904, *nom. illegit.* = *Setaria poiretiana* (Schult.) Kunth, Révis. Gramin. 1: 47. 1829 = *Panicum poiretianum* Schult. in Römer and Schultes, Mant. 2: 229. 1824 = *Chaetochloa poiretiana* (Schult.) Hitchc., Contr. U. S. Natl. Herb. 22(3): 159. 1920. TYPE: BRAZIL. "Cette plante croît au Brésil." *Herb. Desfontaines* (Holotype: FI-W; Isotypes: MVFA 0000425 [fragment], P 00642094 [fragment], US 00148466 [fragment]).

Panicum speciosum Nees ex Trin., Gram. Panic. 169. 1826, *nom. illegit. hom.*, non Walter, Fl. Carol. 73. 1788 = *Panicum speciosum* Nees, Fl. Bras. Enum. Pl. 2(2): 252. 1829, *nom. illegit.* = *Chamaeraphis speciosa* Kuntze, Revis. Gen. Pl. 2: 770. 1891. TYPE: BRAZIL. Pará, "in campis ad Almeirim," April 1820, C. F. P. von Martius s.n. (Syntype: LE-TRIN [0965.01]); idem, Pará, s.d., *Martii Herbar. Florae Brasiliensis. N° 562* (Syntypes: BR 0000005202539, LE, M, US 00409894 [fragment]).

Scleria speciosa Colla, Herb. Pedem 5: 531. 1836, *syn. nov.* LECTOTYPE (designated here): BRAZIL. Amazonas/Pará?, "Rio Negro," s.d., *Anonymous* [Martius ?] s.n. (TO; Isolectotype: BM 001125222).

Further synonyms in Hitchcock (1920), Rominger (1962), Pensiero (1999, 2003).

Colla mistakenly interpreted "*Setaria speciosa* Nees," which is annotated on labels of the specimens at TO and BM, as "*Scleria speciosa*," and described it in Cyperaceae. The specimen at BM has been annotated by James Rominger with "*S. poiretiana* (Schult.) Kth." in 1970, and closely matches the material at TO.

POLYGONACEAE

Coccoloba firma Mart. ex Colla, Herb. Pedem. 5: 48. 1836; Eyma, Polygon. Guttif. Surinam 10. 1932; Howard, J. Arnold Arbor. 41: 239. 1960. LECTOTYPE (designated here): BRAZIL. Bahia, "via Felisbertia," s.d., *Anonymous* [Wied] s.n. (TO; Isolectotypes: BM 000603281, K 000532343). Other specimens: BRAZIL. Espírito Santo,

"ad Rio Doce," April 1816, *M. A. P., Prinz zu Wied s.n.* (BR 0000005854264, MEL 2331219, NY 00878259).

Synonyms: *Coccoloba alnifolia* Casar., Nov. Stirp. Bras. 8: 71. 1844, *syn. nov.*; Howard, J. Arnold Arbor. 41: 217. 1960. Lectotype (designated by Howard, 1960: 217): BRAZIL. Rio de Janeiro, "locis in sylvulis arenosis maritimis (vulgo restingas) apud Copo-Cabana prope urbem Rio de Janeiro," August 1839, G. Casaretto 1194 (TO; Isolectotypes: A 00055107 [fragment], TO). *Coccoloba populifolia* Wedd., Ann. Sci. Nat., Bot. sér. 3, 13: 257. 1850, *syn. nov.*; Meissner in Martius, Fl. Bras. 5(1): 40, t. 18. 1855; Lindau, Bot. Jahrb. Syst. 13: 198. 1890; Howard, J. Arnold Arbor. 41: 371. 1960 = *Uvifera populifolia* (Wedd.) Kuntze, Revis. Gen. Pl. 2: 562. 1891. TYPE: BRAZIL. Bahia, loco haud indicato, s.d., J. S. Blanchet 1486 (Syntypes: A 00036213 [fragment], C, G-DC [F neg. 7429], P 00734687); idem, Bahia, loco haud indicato, s.d., J. S. Blanchet 1646 (Syntype: P 00734686).

Eyma (1932: 5) has indicated "NH" for the specimens analyzed from the British Museum (Natural History) herbarium, for which Howard (1960: 239) wrongly took it as being from the "Natal Herbarium, South Africa." Howard did see the specimen at BM and was right in "suspecting" that Colla's name should be the correct name for *C. alnifolia* Casar.

Coccoloba squamosa Mart. ex Colla, Herb. Pedem. 5: 48. 1836; Howard, J. Arnold Arbor. 41: 383. 1960. LECTOTYPE (designated here): BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied] s.n. (BM 001125230 [Fig. 3]).

Synonyms: *Polygonum declinatum* Vell., Fl. Flumin. 162. 1829, *syn. nov.*; idem in Fl. Flumin. Icon. 4: t. 41. 1831 = *Coccoloba declinata* (Vell.) Mart., Flora 20(2, Beibl.): 90. 1837; Meissner in Martius, Fl. Bras. 5(1): 29. 1855 = *Coccoloba declinata* (Vell.) Mart. var. *velloziana* Meisn. in Martius, Fl. Bras. 5(1): 30. 1855 = *Uvifera declinata* (Vell.) Kuntze, Revis. Gen. Pl. 2: 561. 1891. LECTOTYPE (designated here): Original plate on parchment of "Flora Fluminensis" in the Manuscript Section of the Biblioteca Nacional of Rio de Janeiro (Loc. original: I-17,02,002; Flora Fluminensis Icones fundamentales. t. IV [prancha 41; Manuscrito]; mss1198653_039).

Coccoloba ilheensis Wedd., Ann. Sci. Nat., Bot., Sér. 3, 13: 258. 1849, *syn. nov.* = *Uvifera ilheensis* (Wedd.) Kuntze, Revis. Gen. Pl. 2: 561. 1891. TYPE: BRAZIL. Bahia, Ilhéus, s.d., *Martii Herbar. Florae Brasil. nr. 1240* (Holotype: P 00734650; Isotypes: A 00055122, BM 000603268, BR 0000005288045, G, GH 00036195, K 000532367, LE 00001666, LE 00001667, MO 216500, M, NY 00323076, P 05176267).

Coccoloba declinata (Vell.) Mart. var. *minor* Meisn. in Martius, Fl. Bras. 5(1): 30. 1855, *nom. illegit. superfl.*, *syn. nov.* LECTOTYPE (designated here): BRAZIL. Espírito Santo, "inter frutices in arenis ad Rio Doce," April 1816 [sic], *M. A. P., Prinz zu Wied*

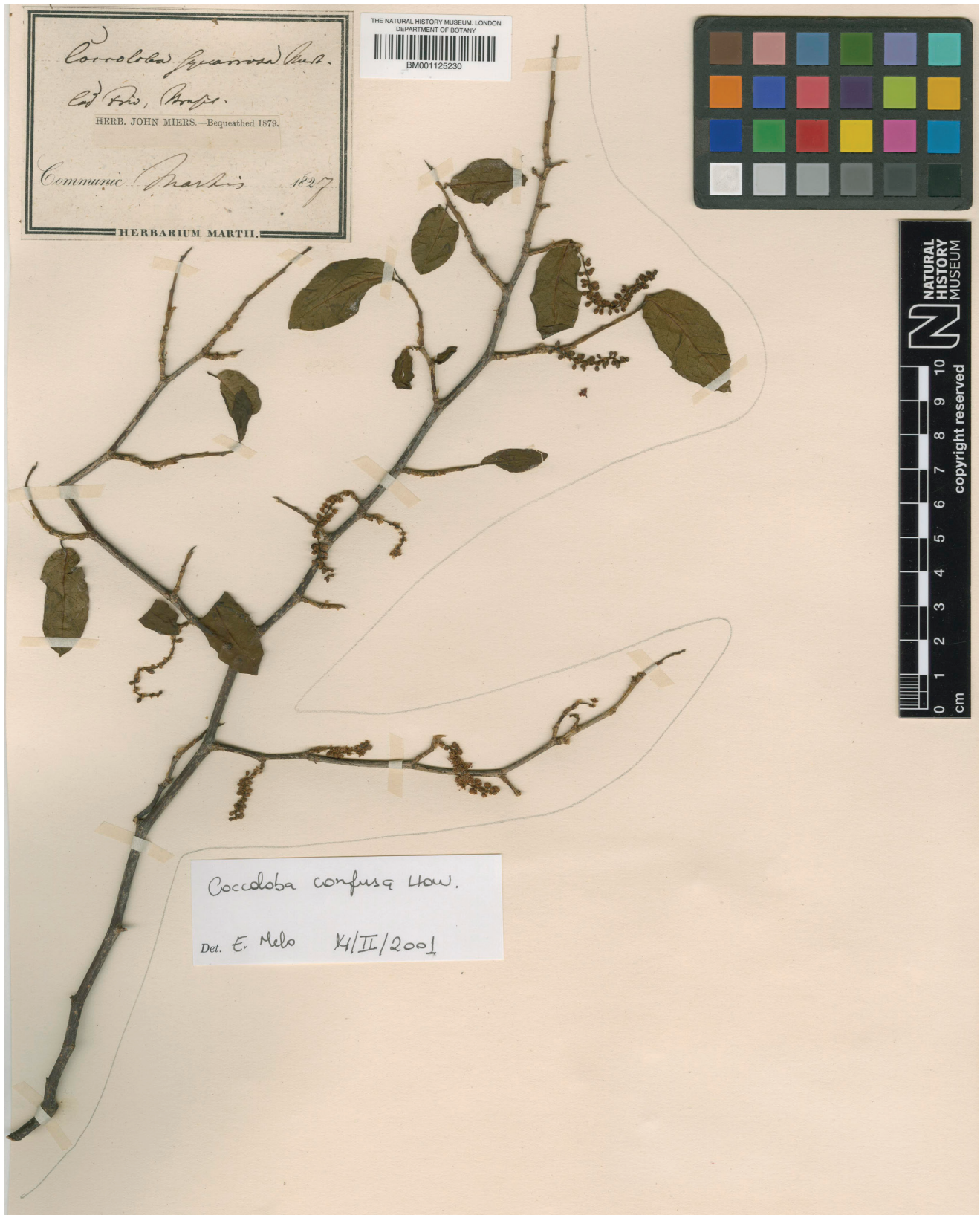


FIGURE 3. Lectotype of *Cocoloba squamosa* Mart. ex Colla, probably collected by Wied (specimen BM). Photograph courtesy of The Natural History Museum, London.

s.n. (BR 0000006593315 [Fig. 4]; Isolectotypes: BR 0000006592332, BR 0000006593643).

Coccoloba declinata (Vell.) Mart. var. *major* Meisn. in Martius, Fl. Bras. 5(1): 30. 1855, *syn. nov.* = *Coccoloba confusa* R.A. Howard, J. Arnold Arbor. 41: 223. 1960, *syn. nov.* Lectotype (designated by Meissner, 1855: 30). BRAZIL. São Paulo, Pindamonhangaba, Taubaté, “in udis ad Pendamhongaba Villam, Taubate, etc.,” December 1817, *C. F. P. von Martius s.n.* = *Martii Herb. Florae Brasil. nr. 66* (M [F neg. 6497]; Syntype: BRAZIL. Rio de Janeiro, “ad Montem Telegraphi,” “Telegraphenberg,” October 1833, *B. Luschnath s.n.* = *Martii Herb. Florae Brasil. nr. 66* (BR 0000005287888, BR 0000005287857, BR 0000005287918, K 000532366, LE 00001660, NY 00323108, P 00734638).

Coccoloba racemulosa Meisn. in Martius, Fl. Bras. 5(1): 30. 1855, *syn. nov.*; Howard (1960: 231) = *Uvifera racemulosa* (Meisn.) Kuntze, Revis. Gen. Pl. 2: 562. 1891. TYPE: BRAZIL. Minas Gerais, “in sylvis interioribus ad Carinhanha Fluvium,” September 1818, *C. F. P. von Martius s.n.* (Holotype: M [F neg. 6500]; Isotypes: A 00055135 [fragment], B 10 0244502 [fragment], NY 00323109 [fragment]).

We here follow the circumscription of *Coccoloba declinata* (Vell.) Mart. proposed by Melo (2004).

Although no specimen of *Coccoloba squamosa* has been located at TO, the one at BM bear an original label of *Herbarium Martii* annotated with “*Coccoloba squamosa* Mart.,” communicated by Martius in 1827, which agrees with Colla’s protologue. Neither Meissner (1855) nor Lindau (1890) considered this name in their treatments of the genus, and Howard (1960: 383) was unable to locate any specimens, by Martius or others, which bore such a name. However, the latter author indicated that the only Brazilian

species with leaves of comparable size was *Coccoloba pipericarpa* Mart. ex Meisn. [= *C. brasiliensis* Nees & Mart.], a taxon collected by both Martius and Wied.

As pointed out by Moraes et al. (2013c), Vellozo’s specimens remain missing (Stafleu and Cowan, 1986), and no material has been located in COI, LISU, P or R. In the absence of specimens, plates published in *Florae Fluminensis Icones* (Vellozo, 1831) have previously been selected as lectotypes (e.g. Lima, 1995). However, as the name *Polygonum declinatum* Vell. has been validly published in *Florae Fluminensis*, (Vellozo, 1829), plates from the later volume do not qualify as lectotypes under Art. 9.3 of the ICN (McNeill et al., 2012). An original unpublished plate of *Polygonum declinatum* Vell. from the *Florae Fluminensis* is currently kept at the Biblioteca Nacional of Rio de Janeiro and is here designated as a lectotype.

URTICACEAE

Pilea rhizobola Miq. in Martius, Fl. Bras. 4(1): 202, t. 70. 1853; Weddell (1856: 198, 1869: 121) = *Boehmeria radicans* Nees & Mart. in Wied-Neuwied, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11: 35. 1823; Colla (1836: 153). LECTOTYPE (designated here): BRAZIL. Bahia, “circa viam Felisbertiam,” December 1816, *M. A. P., Prinz zu Wied s.n.* (81) (BR 0000006588700 [annotated by Nees]; Isolectotypes: BM 000593502, BR 0000006589035, K 000442055). Syntype: BRAZIL. Bahia, Ilhéus, *C. F. P. von Martius s.n.* (M [F neg. 18849]).

Although no specimen of *Boehmeria radicans* Nees & Mart. has been located at TO, the specimens at BM and K bear original *Herbarium Martii* labels, communicated by Martius in 1827, which are annotated with “*Boehmeria radicans* Nees & Mart. Nov. Act. Acad. Leop. Car. N. C.,” and they closely match the pattern of the Wied material at BR.

STATUS UNRESOLVED

No specimens have been located at TO for the following two names:

Laurus paniculigera Mart. ex Colla, Herb. Pedem. 5: 62. 1836. TYPE: BRAZIL. Bahia (?), “Estrada de Minas” [via Felisbertia?], s.d., *Anonymous* [Wied?] *s.n.* (not located).

The only reference on the epithet “paniculigera” for the Lauraceae has been quoted by Nees von Esenbeck (1836: 313) as “*Persea paniculigera* Mart.,” a nomem nudum cited in the synonymy of *Nectandra nitidula* Nees & Mart., which refers to Martius’s collection from Bahia, “in sylvis Catingas locis editioribus deserto Min. Nov.,” October 1818, *C. F. P. von Martius s.n.* (Syntype: M 0111061 [F neg. 6590; annotated by Martius with “*Persea paniculigera* Mart.”]). However, in the protologue of *Laurus paniculigera*, Colla stated “foliis oppositis rameis superioribus binis ternisve ovato-lanceolatis acuminatis glabris subtus pallidioribus, pedunculis axillaribus paniculatis,” which does not conform to any known Brazilian Lauraceae. In *Herbarium Sonder* at MEL, there are two specimens that agree with the protologue and belong to *Metrodorea nigra* A. St.-Hil., Fl. Bras. Merid. (quarto ed.) 1: 81, t. 16. 1825:

MEL 2318482, annotated with “*Laurus paniculigera* Mart.,” collected by Comes Raben in Rio de Janeiro; and MEL 2318486, annotated with “*Laurus paniculigera*,” collected by Wied in Espírito Santo, “Capitania,” s.d. (BR 0000006589240, BR 0000006589578, LD). The former cannot be original material of Colla’s name, since Comes Raben collected in Brazil from 1835 to 1837 [1838] (see Urban, 1906; Ryding, 2002), while the latter most likely would be the case.

Boehmeria martii Colla, Herb. Pedem. 5: 153. 1836. TYPE: BRAZIL. Rio de Janeiro, Cabo Frio, s.d., *Anonymous* [Wied?] *s.n.* (not located).

The name remains unresolved since no author has determined its status, including Wilmot-Dear and Friis (1996), who undertook the last revision of the genus. Nevertheless, a collection by Wied from Cabo Frio at BR 0000005575091 belongs to *Boehmeria caudata* Sw., and matches the protologue of *B. martii*.



FIGURE 4. Lectotype of *Cocoloba declinata* (Vell.) Mart. var. *minor* Meisn., collected by Wied (specimen BR). Photograph courtesy of National Botanic Garden of Belgium, Dept. Spermatophyta-Pteridophyta.

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