

negundo Hausskn.

Vitex rotundifolia f. heterophylla (Mak.) Kitamura = V. trifolia
var. subtrisecta (Kuntze) Moldenke

Vitex triflorus Vahl = V. triflora Vahl

Vitex trifolia var. bicolor Moldenke = V. trifolia var. bicolor
(Willd.) Moldenke

Vitex trifoliata var. variegata Moldenke = V. trifolia var. variegata Moldenke

Vorbenaceae Godley = Verbenaceae J. St.-Hil.

Xeractis Körn. = Paepalanthus Mart.

Xeractis dubia Körn. = Paepalanthus lanato-albus Mart.

Zaparia Ph. = Phyla Lour.

Zaparia nodiflora Ph. = Phyla nodiflora var. reptans (Spreng.)
Moldenke

Zappania globifera (L'Hér.) Desf. = Lippia alba var. globiflora
(L'Hér.) Moldenke

Some copies of my 974-page two-volume "A Fifth Summary of the Verbenaceae, Avicenniaceae, Stilbaceae, Dicrastylidaceae, Symphoremaceae, Nyctanthaceae, and Eriocaulaceae of the World as to Valid Taxa, Geographic Distribution, and Synonymy", published on December 22, 1971, are still available from Mrs. Alma L. Moldenke, 303 Parkside Road, Plainfield, New Jersey 07060, U.S.A., for \$25 (plus \$1.20 for postage and handling to domestic addresses, \$1.62 for foreign addresses). Supplement 1 was published in Phytologia 23: 413--438 on July 13, 1972. It is planned to publish supplements annually. Collectors and curators of herbaria with material of these groups substantiating new country, island, province, department, county, or parish records are invited to send it to me for verification and for inclusion in future supplements to this summary of forty-four years of research.

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ADDITIONAL NOTES ON THE ERIOCAULACEAE. XLII

Harold N. Moldenke

ERIOCAULACEAE Lindl.

Additional & emended bibliography: Trimen, Syst. Cat. Flow. Pl. Ceylon 99 & 124. 1885; J. L. Bennett, Pl. Rhode Isl. 47. 1888; Baerecke, Anal. Key Ferns & Flow. Pl. Atl. Sect. Mid. Fla. 6 & 25. 1906; H. Leconte, Fl. Gén. Indo-chine 7 (1): 1--18. 1912; T. C. E. & R. E. Fries in R. E. Fries, Wiss. Ergebn. Schwed. Rhod.-Kong.-Exped. 1911-12 Bot. 1: 217--219, pl. 16, fig. 1--4. 1916; Fedtsch., Act. Hort. Bot. Petrop. 38: 236. 1924; W. C. Ferguson, Torreya 25: 110. 1925; Herzog in Fedde, Repert. Spec. Nov. 29: 202--219,

pl. 120 & 121. 1931; Fedde & Schust. in Just, Bot. Jahresber. 57 (2): 15--16. 1937; Fedde in Just, Bot. Jahresber. 57 (2): 773. 1938; Uittien & Heyn in Pulle, Fl. Surin. 1 [Meded. Konink. Ver. Ind. Inst. 30, Afd. Handelsmus. 11]: 213--224. 1938; Wangerin in Just, Bot. Jahresber. 58 (1): 609 [39]. 1938; Fedde & Schust. in Just, Bot. Jahresber. 58 (2): 19 (1938) and 59 (2): 19--20, 213, & 265. 1939; Fedde in Just, Bot. Jahresber. 58 (2): 535. 1939; Lugard, Kew Bull. Misc. Inf. 1939: 104. 1939; Krause in Just, Bot. Jahresber. 60 (1): 222. 1940; Fedde & Schust. in Just, Bot. Jahresber. 59 (2): 532, 587, & 613 (1940) and 60 (2): 29. 1940; Wangerin & Krause in Just, Bot. Jahresber. 60 (1): 454--455 [72--73], 692, & 741. 1941; Snowden, Grass Comm. & Mtn. Veg. Uganda 89. 1953; Lindeman & Görts-van Rijn in Pulle & Lanjouw, Fl. Surin. 1 [Meded. Konink. Inst. Trop. 30, Afd. Trop. Prod. 11]: 330--339. 1968; Teunissen & Wildschut, Verh. Konink. Nederl. Akad. Wet. Natuurk. 59 (2): 23, 33, 36, 46, 57, & table 1. 1970; Teunissen & Wildschut, Meded. Bot. Mus. Utr. 341: 23, 33, 36, 46, 57, & table 1. 1971; Araujo, Rev. Bras. Biol. 31: 507--511, fig. 9 & 10. 1971; Löve, Taxon 20: 613. 1971; Pinkava, Biol. Abstr. 54: 75. 1972; Wilbur, Madroño 21: 543. 1972; Cuf., Bull. Jard. Bot. Nat. Belg. 42 (3): Suppl. [Enum. Pl. Aethiop.] 1624 & 1637. 1972; Moldenke, Phytologia 25: 117--166. 1973.

BLASTOCAULON RUPESTRE (C. Gardn.) Ruhl.

Additional bibliography: Moldenke, Phytologia 24: 336 (1972) and 25: 160 & 161. 1973.

CARPTOTEPALA Moldenke

Additional bibliography: Fedde & Schust. in Just, Bot. Jahresber. 57 (2): 15. 1937; Moldenke, Phytologia 24: 336--337 & 508. 1972.

CARPTOTEPALA JENMANI (Gleason) Moldenke

Additional bibliography: Fedde & Schust. in Just, Bot. Jahresber. 57 (2): 15. 1937; Moldenke, Phytologia 24: 337. 1972.

COMANTHERA L. B. Sm.

Additional bibliography: Uittien & Heyn in Pulle, Fl. Surin. 1 [Meded. Konink. Ver. Ind. Inst. 30, Afd. Handelsmus. 11]: 220 & 223--224. 1938; Lindeman & Görts-van Rijn in Pulle & Lanjouw, Fl. Surin. 1 [Meded. Konink. Inst. Trop. 30, Afd. Trop. Prod. 11]: 335. 1968; Moldenke, Phytologia 24: 337 & 508. 1972.

COMANTHERA KEGELIANA (Körn.) Moldenke

Additional bibliography: Uittien & Heyn in Pulle, Fl. Surin. 1 [Meded. Konink. Ver. Ind. Inst. 30, Afd. Handelsmus. 11]: 220 & 223--224. 1938; Lindeman & Görts-van Rijn in Pulle & Lanjouw, Fl. Surin. 1 [Meded. Konink. Inst. Trop. 30, Afd. Trop. Prod. 11]: 335. 1968; Moldenke, Phytologia 24: 337. 1972.

ERIOCAULON Gron.

Additional synonymy: Erocaulon Ohwi, Bot. Mag. Tokyo 45: 196,

sphalm. 1931.

Additional & emended bibliography: Trimen, Syst. Cat. Flow. Pl. Ceylon 99 & 124. 1885; J. L. Bennett, Pl. Rhode Isl. 47. 1888; Hook. f. in Trimen, Handb. Fl. Ceylon 5: [1]--11. 1900; Baerecke, Anal. Key Ferns & Flow. Pl. Atl. Sect. Mid. Fla. 25. 1906; H. Lecomte, Fl. Gén. Indo-chine 7 (1): 1--18. 1912; T. C. E. & R. E. Fries in R. E. Fries, Wiss. Ergebn. Schwed. Rhod.-Kong.-Exped. 1911-12 Bot. 1: 217--219, pl. 16, fig. 1--4. 1916; Fedtsch., Act. Hort. Bot. Petrop. 38: 236. 1924; W. C. Ferguson, Torreya 25: 110. 1925; Ruhl., Notizbl. Bot. Gart. Berlin 10: 1040--1043. 1930; Salomon, Journ. Indian Bot. Soc. 10: 139--144. 1931; Miyabe & Kudo, Journ. Fac. Agr. Hokkaido Imp. Univ. 27 [Fl. Hokk. & Saghal. 3]: 286 & 288. 1932; Wangerin in Just, Bot. Jahresber. 58 (1): 609 [39]. 1938; Fedde in Just, Bot. Jahresber. 57 (2): 773. 1938; Vittien & Heyn in Pulle, Fl. Surin. 1 [Meded. Konink. Ver. Ind. Inst. 30, Afd. Handelsmus. 11]: 215--218 & 220--223. 1938; Fedde & Schust. in Just, Bot. Jahresber. 58 (2): 19 (1938) and 59 (2): 19, 20, 213, & 265. 1939; Fedde in Just, Bot. Jahresber. 58 (2): 535. 1939; Lugard, Kew Bull. Misc. Inf. 1939: 104. 1939; Krause in Just, Bot. Jahresber. 60 (1): 222. 1940; Fedde & Schust. in Just, Bot. Jahresber. 59 (2): 532 (1940) and 60 (2): 29. 1940; Wangerin & Krause in Just, Bot. Jahresber. 60 (1): 454--455 [72--73] & 692. 1941; Snowden, Grass Comm. & Mtn. Veg. Uganda 89. 1953; Löve, Taxon 20: 613. 1971; Pinkava, Biol. Abstr. 54: 75. 1972; Wilbur, Madroño 21: 543. 1972; Cuf., Bull. Jard. Bot. Nat. Belg. 42 (3): Suppl. [Enum. Pl. Aethiop.] 1637. 1972; Moldenke, Phytologia 25: 121--128, 135, 152, 154, 155, 159, 160, 162, & 173. 1973.

Thwaites & Hooker (1864) classify this genus in the Restiaceae.

ERIOCAULON ABYSSINICUM Hochst.

Additional bibliography: T. C. E. & R. E. Fries in R. E. Fries, Wiss. Ergebn. Schwed. Rhod.-Kong.-Exped. 1911-12 Bot. 1: 218. 1916; Moldenke, Phytologia 24: 339, 350, & 496. 1972.

ERIOCAULON ALPESTRE Hook. f. & Thoms.

Additional & emended bibliography: H. Lecomte, Fl. Gén. Indo-chine 7 (1): 2 & 10. 1912; Moldenke, Phytologia 24: 340. 1972.

ERIOCAULON ALPINUM Van Royen

Additional bibliography: Moldenke, Phytologia 24: 341. 1972.

Schodde found this plant forming dense circular tussocks about 40 cm. in diameter in alpine bogs at 11,500 feet altitude.

Additional citations: NEW GUINEA: Papua: Schodde 1918 (Ba).

ERIOCAULON ANNAMENSE H. Lecomte, Fl. Gén. Indo-chine 7 (1): 5--6. 1912.

Additional & emended bibliography: H. Lecomte, Fl. Gén. Indo-chine 7 (1): 2 & 5--6. 1912; Moldenke, Phytologia 24: 341. 1971.

ERIOCAULON AQUATICUM (J. Hill) Druce

Additional & emended bibliography: Körn. in Mart., Fl. Bras.

3 (1): 280, 489, & 502--505. 1863; J. L. Bennett, Fl. Rhode Isl. 47. 1888; W. C. Ferguson, Torreyia 25: 110. 1925; Salomon, Journ. Indian Bot. Soc. 10: 139--144. 1931; Fedde in Just, Bot. Jahresber. 57 (2): 773. 1938; Fedde & Schust. in Just, Bot. Jahresber. 59 (2): 213 & 265 (1939) and 59 (2): 532. 1940; Wangerin & Krause in Just, Bot. Jahresber. 60 (1): 455 [73] & 692. 1941; Moldenke, Phytologia 25: 121. 1973.

Salomon (1931) discusses and illustrates the anatomy of the caudex and root of this species.

ERIOCAULON ATRATUM Körn.

Additional bibliography: Trimen, Syst. Cat. Flow. Pl. Ceylon 99. 1885; Moldenke, Phytologia 25: 121--122. 1973.

ERIOCAULON ATRATUM var. **MAJOR** Thwaites

Additional bibliography: Trimen, Syst. Cat. Flow. Pl. Ceylon 99. 1885; Moldenke, Phytologia 25: 122. 1973.

ERIOCAULON ATRUM Nakai

Additional bibliography: Moldenke, Phytologia 24: 344, 481, & 482 (1972) and 25: 72. 1972.

ERIOCAULON AUSTRALE R. Br.

Additional & emended bibliography: H. Lecomte, Fl. Gén. Indochine 7 (1): 2 & 8. 1912; Moldenke, Phytologia 24: 456--457 (1972) and 25: 88. 1972.

Lecomte (1912) cites this species from Annam and Cambodia. McGillivray & Coveny describe it as an herb 30--100 cm. tall and found it growing in a swamp in association with Melaleuca quinque-nervia, Leptospermum juniperinum, Machaerina juncea, Casuarina glauca, Philydrum lanuginosum, Ranunculus inundatus, etc., flowering in July.

Additional citations: AUSTRALIA: New South Wales: McGillivray & Coveny 347 [N. S. W. 112267] (Ba).

ERIOCAULON BAURI N. E. Br.

Additional bibliography: Moldenke, Phytologia 24: 345--346. 1972.

The species has been collected in anthesis in December.

Additional citations: SOUTH AFRICA: Transvaal: Van der Merwe 22 (Ba).

ERIOCAULON BONGENSE Engl. & Ruhl.

Additional bibliography: Moldenke, Phytologia 24: 346. 1972.

Morton found this plant growing in wet savannas. Material has been misidentified and distributed in herbaria under the designation E. lacteum Rendle.

Additional citations: GHANA: J. K. Morton GC.6272 (Ba).

[to be continued]



Moldenke, Harold N. 1973. "ADDITIONAL NOTES ON THE ERIOCAULACEAE PART 52." *Phytologia* 25, 245–248.

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