

THE CONVULVULACEAE OF MALESIA X¹)

Additional notes on the species from New Guinea with description of a new *Merremia*

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After the publication of my paper on the *Convolvulaceae* of New Guinea (Nova Guinea n.s. 6, 1955, 1—32) several new collections were made in this island. Some of these contain species up till then unknown from New Guinea, other give a better idea on the distribution within the island of species earlier found there. All specimens are in the Rijksherbarium, Leiden.

Merremia emarginata (Burm. f.) Hallier f.; Ooststr., *Blumea* 3 (1939) 312; *Fl. Mal.* I, 4 (1953) 444; l.c. I, 5 (1958) 560.

West New Guinea. Merauke, sea level, Aug. 1954, *Van Royen 4609*.

Merremia aniseiifolia Ooststr., *Blumea* 12 (1964) 363.

West New Guinea. Kebar Valley, Andjai, alt. 600 m, Sept. 1959, *Moll BW 9511* (type in L).

Merremia steenisii Ooststr., *sp. nov.* — Fig. 1.

Planta herbacea, dense cinereo-pilosa, caulibus gracilibus, scandentibus. *Folia* breviter petiolata, petiolis 3—5(—7) mm longis, lineari-oblonga vel linearia, 5—7 cm longa, 5—8(—12) mm lata, basi rotundata, apice acuta, mucronulata, nervis lateralibus utrinque 6—8 ascendentibus, subtus prominentibus. *Inflorescentiae* axillares, pedunculatae, 1-florae; pedunculis c. 12—15 mm longis, gracilibus, pedicellis c. 10—15 mm longis; bracteis subulatis c. 5 mm longis. Sepala exteriora 2 lanceolato-ovata vel lanceolata, acuta, c. 12—13 mm longa, interiora 3 lanceolata, acuminata, c. 14 mm longa. Corolla infundibuliformis, 3.5 cm longa, fasciis mesopetalibus extus sparse pilosis. Stamina inclusa, filamentis c. 5—6 mm longis, c. 2 mm supra basin corollae insertis, basi papillosis; antheris maturis non vel vix contortis, c. 3 mm longis. Discus annularis. Ovarium pilosum; stylo incluso, c. 8 mm longo.

Territory of New Guinea. Sepik Dist.: Wewak-Angoram area, road from Yangoru to Kworo, Middle Sepik plains, in grassland, only a single specimen, fl. Sept. 1959, *Robbins 2316* (type in CANB).

¹) Part I in *Blumea* 3 (1938) 62—94; II in 3 (1939) 267—371; III in 3 (1940) 481—582; IV in 5 (1943) 339—411; V in 5 (1945) 689—691; VI in 6 (1950) 337—348; VII in 7 (1952) 171—178; VIII (by R. D. Hoogland) in 7 (1952) 179—192, and IX (by R. D. Hoogland) in 7 (1953) 310—319.

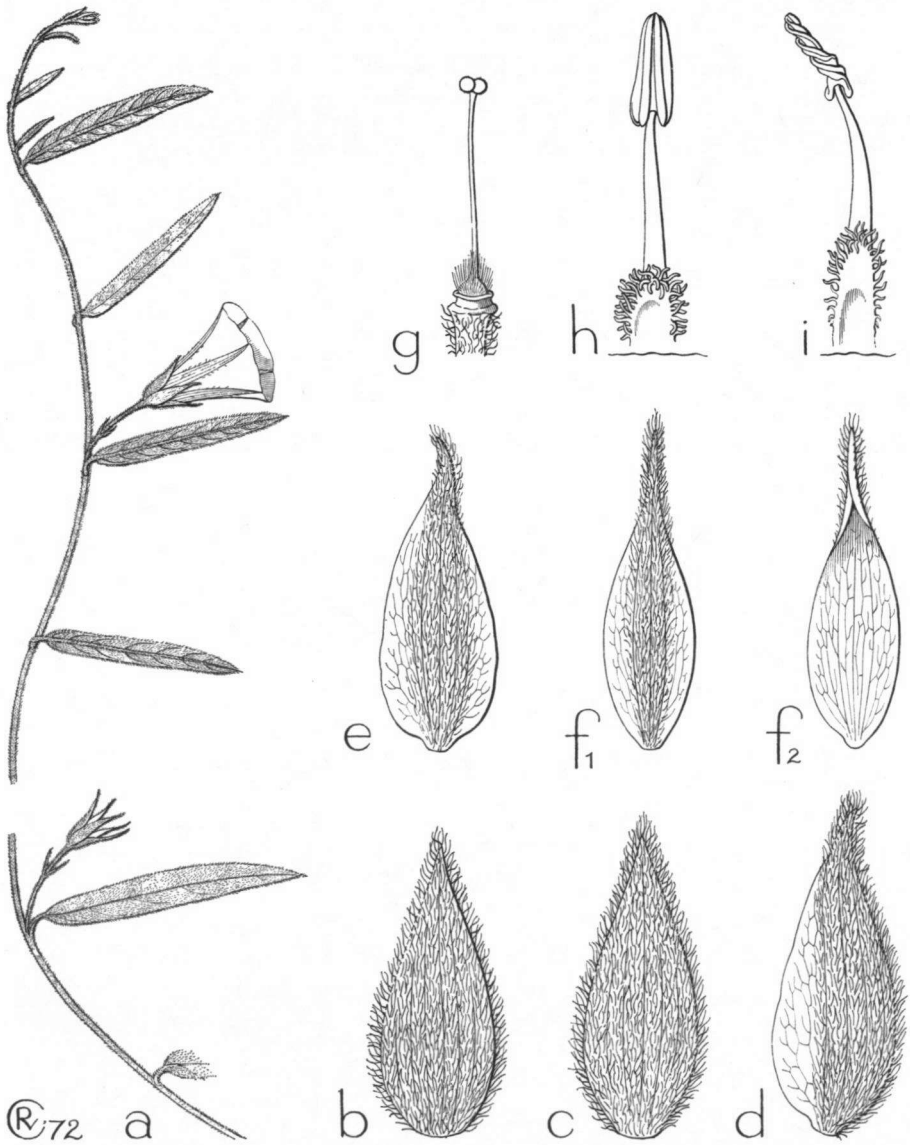


Fig. 1. *Merremia steenisii*. — a: flowering stem; b—e: sepals 1—4, outside; f₁: sepal 5, outside; f₂: sepal 5, inside; g: pistil; h: stamen. — *M. aniseifolia*. — i: stamen. — (a: $\times \frac{1}{2}$; b—g: $\times 3$; h, i: $\times 4\frac{1}{2}$).

This new species is doubtless closely related to *Merremia aniseiifolia* which I described a number of years ago from West New Guinea (Blumea 12, 1964, 363). As will be evident by comparison of the descriptions of both, it has many characters in common with that species, and it is quite possible that more material becoming available will throw some other light upon their mutual relations. However, for the time being I feel justified to keep them separate.

M. steenisii can be distinguished from *M. aniseiifolia* at first sight by the totally different appearance of the plant, mainly caused by the dense hairiness of stems, leaves, peduncles, pedicels, and sepals. Other points of difference with *M. aniseiifolia* may be found in the shape and texture of the leaves which are relatively narrower and thicker, in the more prominent nerves on the lower leaf surface, the absence of warts on the sepals, of which the outer ones are a little shorter than the inner, the slightly pilose instead of glabrous midpetaline bands of the corolla, the somewhat shorter stamens inserted nearer to the corolla base, and the not or scarcely twisted ripe anthers, which are strongly spirally twisted in *M. aniseiifolia*. A difference is also found in the base of the filaments; in *M. aniseiifolia* this bears a long row of short hairs on both sides, the two rows being parallel and connected arcuately above and decurrent on the corolla base beneath; in the new species these hair rows are much shorter (fig. 1, h and i).

I name this species after Prof. Dr. C. G. G. J. van Steenis, the retiring director of the Rijksherbarium, Leiden, who during many years has done so much for the advancement of the study of the Malesian flora.

***Merremia quinquefolia* (L.) Hallier f.; Ooststr., Blumea 3 (1939) 324; Fl. Mal. I, 4 (1953) 446.**

Territory of New Guinea. Morobe Dist.: Wau, alt. 400 ft, March 1965, Millar NGF 23866; Crooked Creek, Bulolo, alt. 2200 ft, July 1969, Streimann & Kairo NGF 44040.

Territory of Papua. Central Dist.: 3 m. W. of Mt. Lawes, alt. 100 ft, July 1962, Schodde 2628; Rubulogo Creek, 18 m. N. of Port Moresby, alt. 100 ft, April 1967, Pullen 6642; id., Gordon, Oct. 1969, Pulsford UPNG 175.

New to New Guinea.

***Merremia quinata* (R.Br.) Ooststr.; Ooststr., Fl. Mal. I, 4 (1953) 447; Nova Guinea n.s. 6 (1955) 17. — *Ipomoea quinata* R. Br.; Ooststr., Blumea 3 (1940) 581.**

Territory of Papua. Milne Bay Dist.: Cape Vogel Peninsula, Menapi, alt. 100 m, April 1953, Brass 22012; ibidem, N. coast, near Medino village, alt. 25 m, Sept. 1954, Hoogland 4697; Baniari Subdist., Aribi near Dogura, sea level, June 1965, Galore NGF 17564.

Known from the Territory of New Guinea.

***Merremia dissecta* (Jacq.) Hallier f.; Ooststr., Blumea 3 (1939) 328; Fl. Mal. I, 4 (1953) 448.**

Territory of Papua. Central Dist.: Kairuku Subdist., Rogers airstrip, 8 m. W. of Kanosia plantation, alt. 30 ft, July 1962, Darbyshire 651; Fairfax Harbour, sea level, Febr. 1965, Gillison NGF 22228.

New to New Guinea.

***Merremia pacifica* Ooststr.; Ooststr., Fl. Mal. I, 5 (1958) 560.**

Territory of Papua. Louisiade Archipelago, Rossel I., Jinju, alt. 80 m, Oct. 1956, *Brass* 28540.

***Ipomoea pes-tigridis* L.**; Ooststr., *Blumea* 3 (1940) 504; *Fl. Mal. I*, 4 (1953) 467; *Nova Guinea n.s.* 6 (1955) 24.

West New Guinea. Merauke, sea level, Febr. 1956, *Van der Sijde BW* 4009.

New to New Guinea.

***Ipomoea triloba* L.**; Ooststr., *Blumea* 3 (1940) 509; *Fl. Mal. I*, 4 (1953) 468; *Nova Guinea n.s.* 6 (1955) 24.

West New Guinea. Merauke, sea level, Febr. 1956, *Van der Sijde BW* 4019.

Territory of New Guinea. Morobe Dist.: Lac, alt. 30 ft, Sept. 1964, *Henty NGF* 20590; ibidem, Huon road, alt. 50 ft, Aug. 1962, *Van Royen NGF* 15063.

Known from the Territory of Papua.

***Ipomoea tiliacea* (Willd.) Choisy**; Ooststr., *Blumea* 5 (1942) 233; *Fl. Mal. I*, 4 (1953) 469; *Nova Guinea n.s.* 6 (1953) 25; *Fl. Mal. I*, 5 (1958) 561.

Territory of Papua. Northern Dist.: Tufi Subdist., near Wanigela, alt. 5 m, Sept. 1954, *Hoogland* 4774.

Known from West New Guinea.

***Ipomoea obscura* (L.) Ker-Gawl.**; Ooststr., *Blumea* 3 (1940) 519; *Fl. Mal. I*, 4 (1953) 471; *Nova Guinea n.s.* 6 (1953) 26.

West New Guinea. Hollandia, alt. 30 m, Nov. 1956, *Van der Sijde BW* 4113; ibidem, April 1959, *De Wilde & Vervoort* 405; ibidem, road to Lake Sentani, alt. 25 m, July 1954, *Van Royen* 4507.

Known from the Territory of Papua.

***Ipomoea fimbriosepala* Choisy**; Ooststr., *Fl. Mal. I*, 5 (1958) 561.

Territory of New Guinea. E. Highl. Dist.: Goroka Subdist., near Gitunu village, between Bena Bena and Dunantina R., alt. c. 1500 m, June 1956, *Hoogland & Pullen* 5288. — Morobe Dist.: Wau Subdist., Bulolo Forestry School, in sec. grasslands, alt. c. 2500 ft, Sept. 1967, *Kairo & Streimann NGF* 30897.

***Ipomoea cairica* (L.) Sweet**; Ooststr., *Blumea* 3 (1940) 542; *Fl. Mal. I*, 4 (1953) 478; *Nova Guinea n.s.* 6 (1955) 27.

West New Guinea. Hollandia, Kota Baru, alt. 100 m, Oct. 1954, *Lam* 7760; Manokwari, alt. 5 m, Nov. 1960, *Moll BW* 9793.

Known from the Territory of New Guinea.

***Ipomoea alba* L.**; Ooststr., *Blumea* 3 (1940) 547; *Fl. Mal. I*, 4 (1953) 480; *Nova Guinea n.s.* 6 (1955) 28.

Territory of Papua. Milne Bay Dist.: Kwagira R., Peria Creek, alt. 50 m, Sept. 1953, *Brass* 24291.

Known from the Territory of New Guinea.

Ipomoea hederifolia L.; Ooststr., *Nova Guinea n.s.* 6 (1955) 28; *Fl. Mal.* I, 5 (1958) 563 — *I. angulata* Lamk.; Ooststr., *Blumea* 3 (1940) 553; *Fl. Mal.* I, 4 (1953) 481.

West New Guinea. Hollandia, alt. 3 m, March 1957, *Kalkman BW* 3675; *ibidem*, Ifar, alt. 450 m, Nov. 1956, *Van den Assem* 11; Amban near Manokwari, alt. 100 m, March 1959, *Versteegh & Vink BW* 8395.

Territory of New Guinea. Morobe Dist.: Bulolo Valley, alt. 3500 ft, April 1959, *Womersley NGF* 11019 — E. Highl. Dist.: Waghi Valley, Kondiu, July 1960, *Borgmann* 113.

Territory of Papua. Milne Bay Dist.: Cape Vogel Peninsula, Menapi, alt. 5 m, April 1953, *Brass* 22007; D'Entrecasteaux Is, Fergusson I., Deidei, Gomwa Bay, alt. 20 m, July 1956, *Brass* 27322.

New to New Guinea.