THE GENUS MYOPORUM IN THE NETHERLANDS' INDIES.

by

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The herbarium specimens upon which this publication is based were placed at the author's disposal by the Directors of the Herbarium of the Buitenzorg Botanic Gardens (B) and the Leiden National Herbarium (L), to whom the author expresses his best thanks for their kind help.

Myoporum


Flowers zygomorphous, or rarely almost actinomorphous. Calyx persistent, divided down to the middle or nearly to the base into 5 lobes or segments not enlarged after flowering. Corolla with 5 lobes imbricate in bud, nearly equal, or the anterior ones rather larger; corolla tube usually short and almost campanulate or shortly cylindrical at the base. Stamens usually 4, in pairs of unequal length, inserted in the corolla tube and alternating with its anterior lobes, rarely almost equal and as many as corolla lobes, scarcely or shortly exserted; anther cells opening longitudinally, at first nearly parallel, confluent at the apex, and usually forming a single reniform cell when open. Ovary superior, not lobed, 2- to 10-celled, with one ovule in each cell, or rarely 2-celled with 2 ovules in each cell; ovules pendulous, anatropous and apotropous; style simple, un-
divided, or obscurely notched at the apex. Drupe ovate or subglobose, usually small but more or less succulent, the endocarp 2- to 10-celled; seeds usually solitary in each cell, with endosperm; embryo straight, with a superior radicle. — Shrubs, trees, or prostrate plants. Leaves spread or rarely opposite, undivided, entire or toothed. Flowers axillary, single or usually in clusters of 2, 3, or more. Bracts at the base of the pedicels very small or none, no bracteoles on the pedicels. Flowers small, white, or yellow, or pale rose-red.

Distribution (according to Kränzlin): S. China, Japan, Yokugi Islands, Lu-Chu Archipelago, Formosa, New Guinea, Australia and Tasmania, Hawaii Islands, Admiralty Islands, Norfolk Island, New Caledonia, New Hebrides, Kermadec Islands, New Zealand, Rodriguez Island, Mauritius.

In the area dealt with only one species:


Young twigs terete, 1—5 mm in diameter between the adult leaves, attenuate towards the extremities, glabrous. Leaves at distances of 3—20 mm; petiole 4—10 mm long; lamina lanceolate, 3.5—10 cm long, 0.5—1.5 cm broad, acute or somewhat acuminate towards the acute apex, attenuate into the petiole, quite entire, chartaceous, entirely glabrous, penninervous with 3—5 lateral nerves on each side of the midrib. Flowers in a median series of 2—6 in the axils of normal leaves, on pedicels 5—9 mm long, 0.3—0.5 mm in diameter; whole flower 5—7 mm long. Calyx nearly regular, entirely glabrous, usually 5-merous, rarely 4-merous, 1.5—2 mm long, its tube cup-shaped, 0.3—0.5 mm long, 1.5—1.7 mm wide, its segments narrow-triangular; 1—1.7 mm long, 0.5—1 mm broad, often rather strongly acuminate towards the acute apex. Corolla nearly regular, 4—6-merous, usually 5-merous, entirely glabrous inside and outside, also in bud, oblong-ellipsoidal or more ovate in the state of adult bud, 4.75—6.75 mm long after opening, its tube campanulate-infundibuliform, 3—4.25 mm long, 3—4 mm wide, its lobes spreading, 1.75—2.5 mm long, 1.5—2 mm broad, rounded at the apex. Stamens 3—5, usually 4 in number, entirely glabrous, the two longer ones 3—3.2 mm long, with filaments 2.3—2.5 mm long, inserted nearly in the middle of the corolla tube, the two shorter ones 2.25—3.2 mm long, with filaments 2—2.5 mm long, inserted somewhat below the middle of the corolla tube; anthers 0.5—1 mm long, 0.8—
1 mm broad. Pistil 3.75—5.5 mm long, entirely glabrous; ovary ovoid-formous, conical towards the apex, rounded at the base, 3—4-celled, 1.5—3 mm long, 0.9—1.5 mm in diameter; style terete, 2—3.5 mm long, 0.3—0.4 mm in diameter; stigma 0.1—0.2 mm high, 0.4—0.5 mm in diameter. Fruit-bearing pedicels 6—11 mm long, 0.4—0.5 mm in diameter.

Drupe ovoid-formous in the dry state, acute, entirely glabrous, with reticulate wrinkles, 3—4-celled, up to 4.5 mm long, 4 mm in diameter, bearing a 3—4 mm long filiformous style or a 0.75 mm long style rudiment. (Description from all the specimens listed below.)

Kraenzlin describes the corolla lobes as "intus ad orificium pilis sparsissimis obsiti". Valetton, however, describes the corolla as entirely glabrous, inside and outside, and so I found it, in bud as well as in the open state. Kraenzlin mentions that 3 of the corolla lobes are a trifle longer than the other two and bear a minute mucro at their apex. I did not discover these small mucros, and the differences in dimensions of the lobes appear to me to be very slight.

Determining the New Guinea plants with Bentham’s Flora Australiensis (V, p. 2—3), one must arrive at M. acuminatum. This species appears to be very polymorphous, and Bentham distinguishes 4 races of it. Our New Guinea plants agree as well with the race angustifolium (= M. montanum R. Br.), as with the race parviflorum, and more especially with the form from New Caledonia, with glabrous corolla (= M. tenuifolium).

Kraenzlin split up Bentham’s M. acuminatum into 4 species, which nearly agree with Bentham’s races, but are more sharply defined against each other. The New Guinea plants agree fairly well with his M. montanum, which is synonymous with Bentham’s race angustifolium. They, however, neither exactly agree with any of Kraenzlin’s species, nor with any of Bentham’s races, and it seems advisable, therefore, to keep them, provisionally, apart as a distinct species. Both authors, however, based their distinctions upon very few specimens only, and it appears, therefore, quite possible that, after the examination of more abundant materials, M. papuanum will prove to be synonymous with some Australian species or variety.

According to Kraenzlin, the New Guinea plants come very near to M. montanum, but differ from it by more slender and longer-infundibulous flowers and smaller calyces. The latter character cannot be of much importance, as Kraenzlin describes the calyx of M. montanum as 1.75—2 mm long. According to him, M. papuanum shows, as regards the form of the corolla, a greater resemblance with M. tubiflorum and
M. tenuifolium, which are said to have exactly actinomorphous flowers. According to the descriptions given by Kränzlin, M. tubiflorum and M. tenuifolium also differ from M. papuanum by leaves that are 2—2.5 cm broad, a corolla that is slightly bearded inside, and a style that is somewhat hairy. From this it is evident that his M. montanum almost entirely agrees with his M. papuanum, ”zur vollendeten Täuschung“, as he says himself. For Kränzlin, however, a strong argument for the specific distinction lies in the fact that the distance between the distribution areas is large, whereas the present author, on the contrary, would be more inclined to accept this as an argument for the idea, that M. papuanum might be a geographical variation of a more polymorphic Australian species.

Distribution.

Northern New Guinea: Jotifa (?) Bay, coastal range of a thinly wooded peninsula, on muddy sand, 1—2 m alt., 16 IX 1911, K. Gjelkenp no. 682 (B); tree nearly 3 m tall, with white odourless flowers, fruits of the size of a pepper-fruit, red-brown, succulent, the leaves light-green, the bark light brownish-grey; few specimens scattered. Humboldt Bay, prof. Wichmann's Expedition, 1903, coll. Atasri no. 86 (B, L).