

**SOME NEW NAMES AND COMBINATIONS IN PYRROSIA MIRBEL
(POLYPODIACEAE)**

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In connection with a forthcoming survey of the spores of the Polypodiaceous genus *Pyrrosia* Mirbel (Van Uffelen & Hennipman, in prep.), two new species are described and ten new combinations made.

A monograph of the genus including full synonymy and descriptions will be published in 1985.

Dr. J. F. Veldkamp kindly revised the Latin diagnoses.

Pyrrosia kinabaluensis* Hovenkamp, *spec. nov.

Rhizoma longe repens, phyllopodiiis 2–5 cm remotis praeditum, paleis peltatis, integris vel ciliatis, 2.6–4.4 mm longis, 0.4–0.8 mm latis dense vestitum. Frondes nonnihil dimorphae, sine hydathodis; fertiles stipite 1.5–5 cm longo, lamina lineari-lanceolata, 7–19 cm longa, 0.7–1.2 cm lata; steriles stipite 0.5–3 cm longo, lamina lanceolata, 3–13 cm longa, 1–1.8 cm lata, infra indumento dimorpho obtectae. Sori densissime collocati, pseudoacrostichoides, sporangiis longe pedicellatis. – **T y p u s**: *J. & M. S. Clemens 26984* (holo L; iso BM, BO, K, SING), 7 Nov. 1931, Borneo, Mt Kinabalu, Tenompok, 5000 ft, on trees 60 ft.

Rhizome long-creeping, phyllopodia 2–5 cm distant; scales peltate, entire or ciliate, 2.6–4.4 × 0.4–0.8 mm. Fronds ± dimorphic, without hydathodes; fertile fronds: stipe 1.5–5 cm long; lamina (index 8–20) widest about the middle, 7–19 × 0.7–1.2 cm; sterile fronds: stipe 0.5–3 cm long; lamina (index 3–8) widest below the middle, 3–13 × 1–1.8 cm; with dimorphic indument below. Sori very densely packed, pseudo-acrostichoid; sporangia longly stalked.

Pyrrosia platyphylla* Hovenkamp, *spec. nov.

Rhizoma breviter repens, phyllopodiiis remotiusculis praeditum, paleis basifixis, 3–10 mm longis vestitum. Frondes monomorphae, sessiles vel gradatim in stipite ad 13 cm longo attenuata; lamina obovato-lineari-lanceolata, 26–110 cm longa, 2.5–7.3(–10) cm lata, supra hydathodis dispersis guttata, infra indumento dimorpho adpresso vestita. Sori parvi, annulari, versus apicem frondis dense collocati, sporangiis paucis, sessilibus. – **T y p u s**: *Elmer 20659* (holo L; iso A, B, BM, BO, BR, K, M, P, SING, U, Z), Borneo, Elphinstone Province, Tawao.

Rhizome short-creeping, phyllopodia shortly distant; scales basifix, 3–10 mm long. Fronds monomorphic, sessile or with an indistinct, up to 13 cm long, stipe; lamina (index 7–20) widest above the middle, 26–110 × 2.5–7.3 cm, with scattered hydathodes above, with appressed, dimorphic indument below. Sori small, annular, densely packed in an apical patch; sporangia few, sessile.

Pyrrosia abbreviata (Zoll. & Mor.) Hovenkamp, *comb. nov.*

Basionym: *Niphobolus abbreviatus* Zoll. & Mor., Nat. Geneesk. Arch. N. I. 1 (1844) 397.

Pyrrosia asterosora (Baker) Hovenkamp, *comb. nov.*

Basionym: *Polypodium asterosorum* Baker, J. of Bot. 18 (1880) 214.

Pyrrosia confluens (R. Br.) Ching

var. *dielsii* (C. Chr.) Hovenkamp, *comb. et stat. nov.*

Basionym: *Cyclophorus dielsii* C. Chr., Dansk Bot. Ark. 9 (3) (1937) 57, t. 6–2.

Pyrrosia eleagnifolia (Bory) Hovenkamp, *comb. nov.*

Basionym: *Polypodium eleagnifolium* Bory, Dup. Voy. Bot. 1 (1829) 259.

Pyrrosia foveolata (Alston) Morton

var. *lauterbachii* (Christ) Hovenkamp, *comb. et stat. nov.*

Basionym: *Niphobolus lauterbachii* Christ in K. Schum. & Lauterb., Fl. Schutzgeb. Südsee (1901) 142.

Pyrrosia lingua (Thunb.) Ching

var. *heteracta* (Mett. ex Kuhn) Hovenkamp, *comb. et stat. nov.*

Basionym: *Polypodium heteractis* Mett. ex Kuhn, Linnaea 36 (1869) 140.

Pyrrosia porosa (Presl) Hovenkamp, *comb. nov.*

Basionym: *Niphobolus porosus* Presl, Tent. Pterid. (1836) 200.

var. *tonkinensis* (Giesenh.) Hovenkamp, *comb. et stat. nov.*

Basionym: *Niphobolus tonkinensis* Giesenh., Niphobolus (1901) 144.

var. *stenophylla* (Bedd.) Hovenkamp, *comb. nov.*

Basionym: *Niphobolus fissus* var. *stenophyllus* Bedd., Handb. Suppl. (1892) 92.

Pyrrosia schimperiana (Mett. ex Kuhn) Alston

var. *liebuschii* (Hieron.) Hovenkamp, *comb. et stat. nov.*

Basionym: *Cyclophorus liebuschii* Hieron., Bot. Jahrb. 46 (1911) 398.