## **EXOSTRATUM**

## David G. Catcheside<sup>†</sup>

*Exostratum* L.T.Ellis, *Lindbergia* 11: 22 (1985); from the Greek *exo*- (outside) and *stratos* (a layer), in reference to the the continuous outer layer of chlorocysts.

Type: E. blumei (Nees ex Hampe) L.T.Ellis

Plants slender, forming thick green to whitish dull tufts. Stems erect, with numerous rhizoids from leaf axils. Leaves tristichous, erect, ascending with a sheathing base and a long narrow lanceolate or linear limb or subula. Lamina at the leaf base with long and narrow hyalocysts, these becoming shorter above and  $\pm$ isodiametric distally and in the subula; marginal rib of long narrow hyalocysts in 2–4 layers covered by chlorocysts in the subula, in 1 (–3) layers at the leaf base. Costa with 4–8 rows of leucocysts in T.S., these enclosing a central row of chlorocysts, the cells 4–7-angular, the whole covered with adaxial and abaxial rows of chlorocysts.

Capsules erect, small. Peristome teeth 16, narrowly lanceolate, with papillose ridges; preperistome smooth.

A genus of four species in South, South-east and East Asia, Malesia, Melanesia and the Pacific region; one species in north-eastern Australia.

## References

Bartram, E.B. (1939), Mosses of the Philippines 70-76.

Eddy, A. (1990), A Handbook of Malesian Mosses 2: 30-49.

Enroth, J. (1990), Bryophyte flora of the Huon Peninsula, Papua New Guinea XXXVI. Leucobryaceae (Musci), *Acta Bot. Fennica* 139: 65–120.

Gangulee, H.C. (1971), Mosses of Eastern India and adjacent regions 1(2): 431-446.

Ellis, L.T. (1985), A taxonomic revision of *Exodictyon* Card. (Musci: Calymperaceae), *Lindbergia* 11: 9–37.

## Exostratum blumei (Nees ex Hampe) L.T.Ellis, Lindbergia 11: 25 (1985)

Syrrhopodon blumei Nees ex Hampe, Bot. Zeitung (Berlin) 5: 921 (1874); Exodictyon blumei (Nees ex Hampe) M.Fleisch., Musci Frond. Archip. Ind. Exsicc. 58 (1899). T: Java [Indonesia], C.L.Blume s.n. in Herb. A.Braun, formerly in Herb. Nees (B, destroyed); lecto: L; isolecto: BM, NY.

Exodictyon subscabrum (Broth.) Cardot, Rev. Bryol. 26: 7 (1899); Australian reports.

Illustrations: E.B.Bartram, op. cit. pl. 6, fig. 85, as *Exodictyon blumei*; H.C.Gangulee, op. cit. 445, fig. 208, as *Exodictyon blumei*; L.T.Ellis, op. cit. 13, fig. 1g, h; 17, fig. 3a, b; 18, fig. 4b; 26, fig. 10; 27, fig. 11; 28, fig. 12; A.Eddy, op. cit. 38, fig. 189; J.Enroth, op. cit. 111, fig. 27.

Plants slender. Leaves 3–4 mm long, narrow, subulate; apex acute, dentate; superficial chlorocysts of costa mostly with apically directed spines, 7–100  $\mu$ m long, usually smooth, rarely indistinctly papillose; hyaline lamina in subula 0–2 cells wide; marginal rib usually of a few long narrow hyalocysts adjacent to 1 or more chlorocysts that occasionally enclose the hyalocysts. Gemmae frequent, linear, of a few to many ±quadrate cells.

Occurs on tree trunks and logs in north-eastern Qld. Also in southern India, Sri Lanka, SE Asia, Malesia, the Philippines, China and New Caledonia.

Qld: Bellenden Ker, H.Flecker 3134 (CANB).

*Cite as:* D.G.Catcheside, *Australian Mosses Online. 13. Calymperaceae: Exostratum.* http://www.anbg.gov.au/abrs/Mosses\_Online/Calymperaceae\_Exostratum.pdf (2012)