

FISSIDENS SUBG. ANEURON

Fissidens subg. *Aneuron* Kindb., *Gen. Eur. North Amer. Bryin.* 2: 165 (1897)

Lecto: *F. hyalinus* Hook.f. & Wilson

Dioicous or rhizautoicous. Plants terrestrial, minute, delicate. Stems simple, fleshy, lacking a central strand. Leaves few, shrivelled when dry, 2–6-jugate, \pm elliptical; limbidium narrow, usually complete; apex acute; costa absent or incipient in T.S. Vaginant laminae narrow, scarcely reaching mid-leaf, open to almost closed; margin \pm entire; laminal cells subhexagonal, large, thin-walled, chlorophyllose. Male plants smaller than female; antheridia terminal. Calyptra mitriform. Setae terminal, pale translucent yellowish, smooth. Capsules erect, symmetrical; operculum conical-rostrate or conical-rostellate. Peristome *scariosus*-type. Spores 9–14 μ m diam.

Fissidens nymanii M.Fleisch., *Musc. Fl. Buitenzorg* 1: 19 (1902)

T: “Tjibodas an sehr Feuchten Stellen an den Boschungen kleiner Wasserlaufe 1400 m”, Java, [Indonesia], Mar. 1899, *E.Nyman*; holo: FH.

Illustrations: M.Fleischer, *op. cit.* 19, fig. 1; H.C.Gangulee, *Mosses of Eastern India* 461, fig. 210 (1971); I.G.Stone, *op. cit.* 320, fig. 1 (1985).

Leaves 1.9–2.7 mm long, 0.45–0.50 mm wide; limbidium 1 or 2 cells wide, mostly unistratose; laminal cells 50–70 \times 30–45 μ m.

Calyptra short, covering the beak only, 0.35–0.40 mm high; median cells isodiametric, 30–40 μ m wide, thin-walled, vesiculose. Setae c. 2 mm long. Capsules 0.35–0.60 mm long, 0.3–0.4 mm wide; exothelial cells quadrate, 22–30 μ m wide. Peristome teeth 40–55 μ m wide at the base.

Rare in north-eastern Qld, on soil banks in rainforest. Also in India, Nepal and Malesia.

Qld: Tully Gorge, near Ravenshoe, *I.G.Stone* 19870, 19875 (MEL).

Fissidens nymanii was reduced to synonymy with *F. hyalinus* Hook. & Wilson by Iwatsuki & Haji Mohamed (1987), but we prefer to maintain them as distinct species.