



Notes on Early Land Plants Today. 64. Nomenclatural notes in Balantiopsidaceae

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During the preparation of the forthcoming world checklist of hornworts and liverworts (Söderström *et al.*, *in press.*) it was noted that a few taxa need to be validated or combined. The subfamily name Balantiopsidoideae has been used as if it has been an autonym of the family Balantiopsidaceae H.Buch (1955: 23) (e.g. Grolle 1972, Engel & Smith Merrill 1997). However, as autonoms do not exist on any other taxonomic level than genus or species (ICN 22.3, 26.3; McNeill *et al.* 2012) all subfamilies need to be accompanied by a valid description or diagnoses or a reference to an effectively published description or diagnoses (ICN Art. 39.1).

Formal treatment

The format of this note follows Söderström *et al.* (2012).

Balantiopsidoideae J.J.Engel & Váňa, *subfam. nov.*

≡ Balantiopsidoideae J.J.Engel et G.L.Merr., *Fieldiana, Bot. (n. ser.):* 37: 48 (Engel & Smith Merrill 1997), *nom. inval.* (ICN Art. 38.1(a); no description). Type:—*Balantiopsis* Mitt.

Description:—Leaves succubous, rarely transverse or incubous (e.g. *Isotachis*), 2-lobed or bisbifid, with the margins dentate to ciliate, with the lobes subequal or the dorsal lobe smaller than the ventral (dorsal lobe larger than the ventral in *Isotachis*), complicate in *Balantiopsis*; underleaves bifid, with the margins entire, dentate or ciliate rhizoids in fascicles from the underleaf base; branches lateral of the *Frullania*-type, or ventral *Bazzania*-type; androecia and gynoecia on leading axes; **antheridia 2-3 per bract, or solitary**; sporophytes enclosed by a shoot calyptra and a stem perigynium, with or without a perianth, or a hollow marsupium of the *Calypogeia*-type (*Balantiopsis*); perianths, when present, tubular, often reduced at the apex of the stem perigynium; **capsules cylindrical**, with the wall 2- to 5-stratose, **dehiscing by the spirally twisted valves**; gemmae absent.

Type:—*Balantiopsis* Mitt. in Hooker (1867: 751).

Isotachidoideae Grolle, *J. Bryol.* 7: 210, 1972 (Grolle 1972).

Isotachis hastatistipula (Steph.) J.J.Engel, *comb. nov.*, Basionym:—*Balantiopsis hastatistipula* Steph., *J. & Proc. Roy. Soc. New South Wales* 48: 98, 1914 (Stephani & Watts 1914). Type:—AUSTRALIA. Blackheath, January 1911, *Watts 1052* (G-00067310!)

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