



Notes on Early Land Plants Today. 43. New combinations in Lophocoleaceae (Marchantiophyta)

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Söderström *et al.* (2013) outlined the current status of the family Lophocoleaceae. Following their concept several new combinations are needed, most of which are made here. While many of the taxa treated below need to be lectotypified, we are generally not doing that here.

We only transfer taxa that have been shown to belong to the new genus in recent studies (molecular and/or morphological) or taxa that have been studied by the authors (see Söderström *et al.* 2013 for further references). There still exist taxa that need to be transferred from *Chiloscyphus*, but we are not transferring them here, since it is unclear to us in which genus they belong.

The format of this note follows Söderström *et al.* (2012) except that we use the Melbourne International Code of Nomenclature for algae, fungi, and plants (ICN; McNeill *et al.* 2012) instead of the Vienna International Code of Botanical Nomenclature (ICBN; McNeill *et al.* 2006).

New combinations in *Cryptolophocolea*

Cryptolophocolea L.Söderstr., Crand.-Stotl., Stotler et Váňa, *Phytotaxa* 97: 39, 2013 (Söderström *et al.* 2013).

Type: *Cryptolophocolea ciliolata* (Nees) L.Söderstr., Crand.-Stotl., Stotler et Váňa, *Phytotaxa* 97: 39, 2013 (Söderström *et al.* 2013)

Note:—It is not fully clear which taxa to include in this genus and which to refer to *Lophocolea* or other genera. In this paper, we include only those taxa that molecular studies have confirmed to belong to *Cryptolophocolea* and taxa that recently have been classified into *Chiloscyphus* subgen. *Connati* (as well as other taxa that are morphologically close to it; cf. Söderström *et al.* 2013). The first group of taxa that follows are transferred based upon molecular evidence provided in Hentschel *et al.* (2007), Glennly *et al.* (2009), Engel *et al.* (2010), Engel & He (2010), Vanderpoorten & Long (2006) and Vanderpoorten *et al.* (2012) in addition to morphology.

Cryptolophocolea chiloscypioidea (Lindenb. ex Lehm.) L.Söderstr. et Crand.-Stotl., *comb. nov.*

Basionym:—*Plagiochila chiloscypioidea* Lindenb. ex Lehm., *Nov. Stirp. Pug.* 8: 4, 1844. (Lehmann 1844).

Type:—CHILE. Magellanstr., Port Famine, *Jacquinot* 59a (lectotype [Grolle 1963: 65] PC).

≡ *Chiloscyphus chiloscypioideus* (Lindenb. ex Lehm.) Vanderp., Schäf.-Verw. et D.G.Long, *Taxon* 59: 185, 2010 (Vanderpoorten *et al.* 2010). ≡ *Leptoscyphus chiloscypioideus* (Lindenb. ex Lehm.) Gottsche, *Bot. Zeitung (Berlin)* 16, *Beil.*: 33, 1858 (Gottsche 1858).

Cryptolophocolea ciliolata (Nees) L.Söderstr., Crand.-Stotl., Stotler et Váňa, *Phytotaxa* 97: 39, 2013 (Söderström *et al.* 2013).