



**Notes on Early Land Plants Today. 59. *Leptolejeunea himalayensis* and *Leptocolea mirpurensis* (Marchantiophyta, Lejeuneaceae) synonymous with *Lejeunea cocoes* and *Cololejeunea raduiloba*, respectively**

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Lejeuneaceae is the largest family of the liverworts with about 1700 currently accepted species (He & Zhu 2011, He *et al.* 2012), but some of them are poorly known and their status is still unclear. *Leptolejeunea himalayensis* Pandé & Misra (1943: 168) is known only from India and previously suspected of belonging to one member of *Lejeunea* Libert (1820: 372) (Awasthi 1986). *Leptocolea mirpurensis* Khan (1957: 23) from Bangladesh has never been studied since its first description in 1957. Although the types of the two taxa were not available for our study, the original description and illustrations (Pandé & Misra 1943, Khan 1957) undoubtedly indicate that *Leptolejeunea himalayensis* and *Leptocolea mirpurensis* are conspecific with *Lejeunea cocoes* Mitten (1861: 114) and *Cololejeunea raduiloba* Stephani (1895: 251), respectively. *Lejeunea cocoes* has been reported for India (Singh & Nath 2007, Manju *et al.* 2012), and is also known in China, Indonesia, Malaysia, Papua New Guinea, and Sri Lanka (So & Zhu 1998, Zhu & So 2001, Lee 2013), furthermore from Chagos, Diego Garcia (Seaward *et al.* 2006) and from the Fiji Islands (Pócs *et al.* 2013). *Cololejeunea raduiloba*, a paleotropical species (Zhu & So 2001), is newly reported for Bangladesh.

**Formal treatment**

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

***Cololejeunea raduiloba*** Steph., *Hedwigia* 34(5): 251. 1895 (Stephani 1895).

≡ *Physocolea raduiloba* (Steph.) Steph., *Sp. Hepat.* 5: 903. 1916 (Stephani 1916). Type:—VIETNAM. Tonkin. Khang-Thuong (Ma Co), 9 Nov. 1885, *Bon s.n.* (holotype G-1957!). ≡ *Pedinolejeunea raduiloba* (Steph.) P.C.Wu & But, *In: Hepatic Flora of Hong Kong*: 136. 2009 (Wu & But 2009).

= *Leptocolea mirpurensis* Sultan Khan, *Bryologist* 60: 23. 1957 (Khan 1957). Type:—BANGLADESH. Dhaka “Dacca”. Mirpur forest, epiphyllous, on dicot leaf, Jan. 1955, *S. A. Khan s.n.* (holotype DACB), **syn. nov.**

For further synonyms, see Zhu (1995) and Zhu & So (2001).

***Lejeunea cocoes*** Mitt., *J. Proc. Linn. Soc. Bot.* 5: 114. 1861 (Mitten 1861)

Type:—Sri Lanka “Ceylon”. Balagom, “Ad truncos *Cocos nucifera*”, *Gardner 1399 “1499”* (holotype NY!; isotype BM!).

= *Leptolejeunea himalayensis* Pandé et R.N.Misra, *J. Indian Bot. Soc.* 22: 168. 1943 (Pandé & Misra 1943). Type:—INDIA. “Eastern Himalayas, Mungpoo (4,000’) Darjeeling”, epiphyllous, *s.d.*, *S. N. Das Gupta* (holotype LUW), **syn. nov.**

For further synonyms, see Zhu & So (2001).

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