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Notes on Early Land Plants Today. 70. Nomenclatural notes in hornworts (Anthocerotophyta)

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Prior to the publication of the world checklist of hornworts and liverworts (Söderström *et al.*, in press) some taxa still need to be validated, transferred or synonymized. We are here dealing with the remaining nomenclatural issues among the Anthocerotophyta. Several taxa have not been typified properly and we are here suggesting several new lectotypes to stabilize the nomenclature.

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

Anthocerotaceae

- Anthoceros cristatus Steph., Sp Hepat. [Stephani] 5: 996, 1916 (Stephani 1916). Type:—ASCENSION. Herb. Bescherelle, pores from holotype Stephani herb. no. 24501 (G-00045042! [http://www.ville-ge.ch/musinfo/bd/cjb/chg/adetail.php?id=141014&lang=en]), lectotype here designated [or possibly holotype, cf. McNeill 2014]) Fig. 1A.
- Anthoceros expansus (Steph.) J.C.Villarreal et Cargill, comb. nov. Basionym:—Aspiromitus expansus Steph., Sp. Hepat. [Stephani] 5: 961, 1916 (Stephani 1916). Type:—CAMEROON. South-West: Buea, 24 September 1891, Preuss 989, Stephani herb. no. 20510 (G-00045055! [http://www.ville-ge.ch/musinfo/bd/cjb/chg/adetail. php?id=141040&lang=en], lectotype here designated [or possibly holotype]).
- Anthoceros myriandroecius Steph., Wiss. Ergebn. Deut. Zentr.-Afr. Exped. (1907-08), Bot. 2: 134 (Stephani 1911 [1910]). Type:—RWANDA. Kiwu lake, Exped. Fr. Mildbraed 808 (G-00128028! [http://www.ville-ge.ch/musinfo/bd/cjb/chg/adetail.php?id=133358&lang=en], lectotype here designated [or possibly holotype]). Note:—The specimen was used by Stephani for his illustrated icones inedit and it was annotated by Hasegawa in 1993 as "type" but it seems that he did not publish it.
- = Anthoceros volkensii Steph., Sp. Hepat. [Stephani] 5: 997, 1916 (Stephani 1916), syn. nov. Type:—TANZANIA. Kilimanjaro, 17.12.1893, Volkens 1504 (G-00045053! [http://www.ville-ge.ch/musinfo/bd/cjb/chg/adetail. php?id=141027&lang=en], lectotype here designated [or possibly holotype]). Note:—The specimen is annotated by Hasegawa in 1993 as "type" (but it appears that he did not publish it) and conspecific with Anthoceros myriandroecius.
- Anthoceros punctatus L., Sp. Pl. 1: 1139 (Linnaeus 1753). Type:—Herb. Dillen., Oxford, Anthoceros minor, in den oberen Ecken des Blättchens. Hist. musc. (1741) Tab. 68, Fig. 1. (lectotype designated by Proskauer 1958)
- = Aspiromitus dismieri Steph., Sp. Hepat. [Stephani] 5: 961, 1916 (Stephani 1916), syn. nov. Type:—MADAGASCAR. s. loc. spec., Spores from holotype, Rotereau s.n, Stephanie herb. no.00045054 [http://www.ville-ge.ch/musinfo/bd/cjb/chg/adetail.php?id=141039&lang=en], lectotype here designated [or possibly holotype]) Fig. 1B. Note:—The type specimen also includes an un-named *Phaeoceros* species which Hasegawa annotated in 1995.