



Article

Early Land Plants Today: Index of Liverworts & Hornworts 2009–2010

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Abstract

A widely accessible list of known plant species is a fundamental requirement for plant conservation and has vast applications. An index of published names of liverworts and hornworts between 2009 and 2010 is provided as part of a continued effort in working toward producing a world checklist of this group. Included in the list are also names overlooked by earlier indices. The list includes 30 higher taxa, 250 species, 52 infraspecific taxa, 31 autonyms, and two fossils for 2009 and 2010. A number of taxa not covered by the earlier indices for 2000–2008 are also included.

Key words: Liverworts, hornworts, index, nomenclature

Introduction

Under the auspices of the Early Land Plants Today project, there has been a strong community-driven effort attempting to address the critical need to synthesize the vast nomenclatural, taxonomic and global distributional data for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) (von Konrat *et al.* 2010a). These endeavours are critical in providing the foundation to develop a working checklist of liverworts and hornworts worldwide; the first version is projected to be published in 2012. This effort is fundamental toward the development of a working list of all known plant species under the auspices of the *Convention on Biological Diversity* (CBD) and the *Global Strategy for Plant Conservation* (GSPC). The significance of this target was underscored again by the Conference of the Parties to the Convention on Biological Diversity who have further developed the GSPC into its second phase (2011–2020), taking into account current and emerging environmental challenges on plant diversity (Blackmore *et al.* 2011). The critical need for this target to be achieved and the implications for conservation, taxonomy, and botanical science were recently outlined by Paton *et al.* (2008). Progress towards the Targets of the *Global Strategy for Plant Conservation* (GSPC) have recently been reviewed by Paton & Lughadha (2011).

This index follows on from the resourceful indices of recent years: Index of Hepatics (Crosby & Engel 2006), the series Index of Bryophytes 2001–2004 (Crosby & Magill 2005) and Index of Bryophytes 2005 (Crosby & Magill 2006), as well as the most recently published Index of Liverworts and Hornworts 2006–2008 (von Konrat *et al.* 2010b). In the current index we attempt to list citations for names published for liverworts and hornworts during the period January 1, 2009 through December 31, 2010. Valid, illegitimate and invalid names that were overlooked by earlier indices (2000–2008) are also included. A bibliography contains complete citations for the places of publication of the names, their basionyms and blocking names. The format generally follows that of previous indices, especially von Konrat *et al.* (2010b). One significant departure is that full type details of new species and infraspecies are as they appear in the protologue,