

## Early Land Plants Today: Index of Liverworts & Hornworts 2011–2012

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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 2011 and 2012 is provided as part of a continued effort in working toward producing a world checklist of this group. The list includes 25 higher taxa, 154 species, 31 infraspecific taxa, and 17 autonyms for 2011 and 2012, 12 of them are fossils. A few taxa not covered by the earlier indices for 2000–2010 are also included. 75 species and 15 infraspecific taxa are new to science.

**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 2014. 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 of 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 and 2009–2010 (von Konrat *et al.* 2010b, Söderström *et al.* 2012d). In the current index we list citations for names published for liverworts and hornworts during the period January 1, 2011 through December 31, 2012. Valid, illegitimate and invalid names that were overlooked by earlier indices (2000–2010) 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 Söderström *et al.* (2012d). Unlike previous indices, basionyms published before 2009 do not have their own entries here. Instead they follow the names of taxa built on them. For fossils we state the geological period. The type taxon is also provided for new higher taxa. All names are arranged alphabetically. Although names that we judge to be invalidly published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012) are included in the list, nomenclaturally they are not accepted by the authors of this index, and therefore not published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012). As in previous indices, no disposition is provided to an accepted name or to the taxonomy.

The number of names validly published during 2011 and 2012 includes 25 higher taxa, 153 species, 31 infraspecific taxa, and 12 fossils. In addition, 17 autonyms were also created. 75 species and 15 infraspecific taxa are new to science.

- Southbyaceae** Váňa, Crand.-Stotl., Stotler et D.G.Long (fam.), *Nova Hedwigia* 95: 184, 2012 (see Váňa *et al.* 2012b).  
TYPE: *Southbya* Spruce. NOTE: This name has been used several times before, but was never validly published. See Grolle (1972b: 227) for a list of invalid occurrences.
- Sphenolobus ellipticus*** (Inoue) T.Katag. et Furuki, *Bryol. Res.* 10 (7): 206, 2012 (see Katagiri & Furuki 2012).  
BASIONYM: *Anastrophyllum ellipticum* Inoue, *Bull. Natl. Sci. Mus. Tokyo, B* 4 (1): 13, 1978 (see Inoue 1978).
- Stolonivector fiordlandiae* var. *nodulosus*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, North Is., Wellington prov., Tree Trunk Gorge, W bank of Tongariro River, E border of Tongariro Natl. Park, boundary of Kaimanawa State Forest Park, ca. 700 m, Engel 21190 (F); isotype (AK)”.  
NOTE: This variety also creates the autonym.
- Taxilejeunea eckloniana*** (Lindenb.) A. Agarwal ex P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77: 209, 2007 (see Verma & Srivastava 2007) BASIONYM: *Lejeunea eckloniana* Lindenb., *Syn. Hepat.* 3: 381, 1845 (see Gottsche *et al.* 1845).
- Taxilejeunea ghatensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 211, 2007 (see Verma & Srivastava 2007). TYPE: “India: South India - Maharashtra (Mahabaleshwar – on way to Chinaman waterfall); ca 1370 m; 13.09.2001; S.C.Srivastava *et al.* 14012 2001 (LWU)”.
- Taxilejeunea nilgiriensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 207, 2007 (see Verma & Srivastava 2007). TYPE: “Tamil Nadu: Nilgiri hills - Kilkotagiri (Kengarai); ca 1850–1900 m. 01.04.2003; P.K. Verma *et al.* Alam; 16916/2003 (LWU)”.
- Trichocolea japonica*** T.Katag., *Bryologist* 114 (4): 744, 2011 (see Katagiri *et al.* 2011). TYPE: “Japan. Honshu: Mt. Kaikoma, Southern Japanese Alps, between Kitazawa mountain pass and Sensui mountain pass, ca. 2000 m alt., on wet boulder, 12 June 2010, Katagiri 3198 (holotype: HIRO; isotypes: NY, TNS)”.
- Tylimanthus tenellus* var. *diversifolius*** (E.A.Hodgs.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011).  
BASIONYM: *Tylimanthus diversifolius* E.A.Hodgs., *Trans. & Proc. Roy. Soc. New Zealand* 85 (4): 575, 1958 (see Hodgson 1958). NOTE: This variety also creates the autonym.
- Vitalianthus guangxianus*** R.L.Zhu, Qiong He et Y.M.We, *J. Bryol.* 34 (1): 32, 2012 (see He *et al.* 2012b). TYPE: “China. Guangxi, Shangsi Co., Pinglongshan, 21°50'398"N, 107°52'345"E, on tree branches, mixed with *Brotherella* Loeske ex M.Fleish. sp., *Radula oyamensis* Steph., and *R. tjibodensis* K.I.Goebel, 513 m, 17 Feb. 2011, Yu-Mei Wei 20110217-24 (holotype: HSNU!)”.

## Acknowledgements

Data were compiled and edited as part of the “Early Land Plants Today Project”. We thank support provided by GBIF (Award No. 2007/41) and the NSF funded project “Bringing Schuster, Standley and Co. Into the Third Millennium: The Field Museum’s 180K Bryophyte and Lichen Conversion & Digitization Project” (Award # 0749762). Funding from the Biodiversity Synthesis Center of the Encyclopedia of Life (EoL) has also greatly helped ELPT towards its overall goals and ambitions of growing into a community-wide effort. We also acknowledge the useful resources TROPICOS and the Recent Literature series of *The Bryologist* compiled by William R. Buck, Bruce Allen, and Ronald A. Pursell. We have also got help with references from Afroz Alam, Claudine Ah-Peng, Rob Gradstein, Jochen Heinrichs, Tomoyuki Katagiri, Nadya Konstantinova, Itambo Malombe, David Meagher, Tamás Pócs, Alexey Potemkin, Matt Renner, Alfons Schäfer-Verwimp, Sushil Singh, Louis Thouvenot, Jirí Váňa, Martin Wigginton, Li Zhang, and Rui-Liang Zhu. Finally, the authors gratefully acknowledge John J. Engel for access to his personal bryological library.

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