
FIELDIANA

In celebration of Dr. John J. Engel: A tribute to 40 years in bryology

Botany

NEW SERIES, NO. 47

Part Five: Liverworts—Globally and Locally

Chapter Ten: Early Land Plants Today: Liverwort Checklist of Checklists

Lars Söderström,¹ Anders Hagborg,² Matt von Konrat,² and Matt Renner³

¹ Department of Biology, Norwegian University of Science and Technology, Trondheim, Norway

² Department of Botany, The Field Museum, 1400 South Lake Shore Drive, Chicago, Illinois 60605–2496 USA

³ Department, University of Sydney, New South Wales, Australia

Corresponding author (Söderström) e-mail: lars.soderstrom@bio.ntnu.no

Accepted May 20, 2008

Published November 24, 2008

Publication 1550

PUBLISHED BY FIELD MUSEUM OF NATURAL HISTORY

Abstract

The significance and importance of checklists is briefly discussed. A comprehensive current checklist of liverwort checklists is provided with the starting date of 1900. In order to increase the value of this list, the checklists have been categorized according to whether the publications are specimen-based, record original citations, or list the extent of the territory covered. Although there are checklists for many territories throughout the world, there remain, alarmingly, substantial portions of the globe that either lack checklists entirely or have checklists that are woefully out of date.

Introduction

Target 1 of the Global Strategy for Plant Conservation (GSPC), adopted as part of the

Convention on Biological Diversity (CBD), states that a working list of all known plant species is a fundamental requirement to underpin plant conservation actions, and sets a target date of

2010 (Lughadha, 2004). As early as 1881 Charles Darwin expressed a wish to have a catalogue of all known plants (Crane, 2004). However, over 125 years later, this wish is not yet fulfilled! Without a working checklist, many of the other objectives in the GSPC cannot be met and botanists around the world cannot communicate about plants on a global basis (Crane, 2004). A preliminary global checklist for mosses has been completed (Crosby et al., 1999) but there is nothing near that for liverworts, although attempts to produce one are in progress (von Konrat et al., 2008).

Checklists have two main objectives. First, they provide a standard list of which taxa exist in a defined territory or area. Standardization is critical because different authors use different taxonomy and nomenclature, making comparison otherwise difficult (see e.g., Isaac, 2004). Checklists are thus tools for harmonizing nomenclature and taxonomy, a clear advantage for communication and comparative study. Such lists should then also include an extensive synonymy list to explain the concepts used.

Secondly, checklists are summaries of distributions. Information on distribution and reports of new records or range extensions are also vastly scattered in the literature. Many of these reports are looked upon as of minor and local interest and thus are published in local journals where they are hidden from the broader scientific community and public. Checklists are therefore powerful and important tools that can integrate the almost overwhelmingly scattered information concerning taxonomy, systematics, nomenclature, distribution, and even frequency. Analysis of biogeographical patterns, e.g., distribution patterns (Söderström & Sénéca, 2006) or rarity patterns (Söderström et al., 2007a), will be more accurate if all information is readily available as in a checklist. The smaller the geographical areas used in the checklist, the more precisely the distribution that can be mapped. Checklists also are required in order to establish baselines for the future and to be able to monitor change in the flora, including possible extinctions.

In Europe, good checklists that are regularly updated have been published for a long time. However, lists differ in their construction. For example, Grolle and Long (2000) only listed the names of the species occurring in Europe and Macaronesia, thus fulfilled mainly the first of the abovementioned objectives of a checklist. Söderström et al. (2002) used the same taxonomy but indicated each country species were reported

from, i.e. supplemented with the second objective.

Checklists have the built-in problem that they are out of date as soon as they are published because new data accumulates rapidly. For this reason, updates must be published regularly to maintain the utility of the checklist over a longer time, a task more easily done with checklists than with floras that can take years to produce. As an example, Söderström et al. (2007b) updated Söderström et al. (2002) with new taxonomic, nomenclatural, distribution, and Red Listing information for 437 species of the European liverwort and hornwort flora between 2002 and 2007. Yet, checklists can provide a very efficient and effective means to quickly summarize information, in contrast to floras that can take years and often decades to produce. Furthermore, although one of the many objectives of a monograph or flora is the key problem of how to detect synonymy, this can be more quickly accomplished, at least to a first approximation, through efforts to develop synonymized checklists (Crane, 2004).

The use of web technology will in time offer the most effective mechanism to provide the most up-to-date information, in a similar manner to the increasing number of floras which have online versions that easily can be modified and updated.

One problem often seen is that species erroneously reported from an area continue to be reported based on the rejected source. A good checklist should therefore clearly state that such errors have been considered but rejected, even if this is only a repetition of an earlier rejection.

Types of Checklists

There are many different kinds of checklists based on the territory and taxa covered. The area that is covered can range from a continent (e.g., Europe; Grolle & Long, 2000) to a small park (e.g., Hubbard Brook Experimental Forest; Cleavitt & Fahey, 1996). Some lists covering large areas provide reports by subdivisions; for example, the Mediterranean checklist by Ros et al. (2007) that indicates occurrences in the individual countries, or the checklist of Bolivia by Gradstein et al. (2003) which indicate reports from individual provinces. Species lists for the subdivisions can be extracted from lists such as these.

The taxa covered by a list can vary from a single genus (e.g., *Lejeunea* in Latin America; Reiner-Drehwald, 1999) upward to all liverwort taxa. Checklists also vary in the way they are compiled and presented. The simplest checklist is a compilation of literature reports where the sources of individual records are cited (e.g., Yano, 1984 for Brazil; Tan & Engel, 1986 for the Philippines) or where the sources of individual records are not cited (e.g., Söderström et al., 2002 for Europe). More complex are those checklists based on verified specimens (cf. Koponen et al., 1998). In such lists, specimens can be cited (e.g., Grolle & Piippo, 1984) or not cited, the latter often citing localities instead (e.g., Popova & Zolotov, 1998).

One problem sometimes encountered in checklists is to know which taxon is meant with a particular name. An example of a classical problem is that the name *Harpalejeunea ovata* can be considered a synonym of *Douinia ovata* [*H. ovata* (Dicks.) Schiffn.] or *H. molleri* [*H. ovata* (Hook.) Steph.], depending on the authorities. Thus, to avoid such problems, author citations should be fully indicated. A more difficult problem is with names such as *Calypogeia trichomanis*, which have been misapplied to more than one taxon. Although the type specimen of *C. trichomanis* belongs to *C. fissa*, the former name has been used for several taxa in the past, most frequently (at least in Europe) for *C. azurea*. Here one can only guess what is meant based on the other names of the genus in the list.

Koponen et al. (1998) gave four principles for compiling a good checklist. **Principle 1:** “*The basic principle of all checklists is that they should be based on herbarium specimens which can be traced and the identity of which can be checked, when or if necessary.*” A checklist only based on literature can indirectly fulfill this criterion because specimens might be cited in the earlier publications. **Principle 2:** “*Floras lacking documentation should be used very critically as basis of checklists.*” If no specimen is cited, it is difficult to know if the description is based on material from within the area covered by the flora, or from an area where it is more common. In the latter case it might turn out that the local taxon is not what is described in the flora. **Principle 3:** “*Popularizing books and plant sociological papers lacking documentation should be omitted or used very critically as basis of checklists. Records in unpublished manuscripts and data files not generally available should not be used as bases of checklists.*” One of the main aims of a checklist is to make information more accessible

to more people. An explanation of the content of these sources and an indication of if/where specimens might be deposited also are highly desirable. Doubtful information should be identified and commented on, and perhaps rejected until positively confirmed. **Principle 4:** “*The information in the checklists should be given in an easily available form.*” This cannot be stressed enough!

A Current Checklist of Liverwort Checklists

There have been two earlier compilations of liverwort checklists. Lane (1978) listed the bryophyte floras of the world and Greene and Harrington (1989) made an extensive compilation not only of checklists but included also extensive species lists of other kinds. The aim here is to list checklists that might form the basis for a global checklist that includes data on species distribution. In order to restrict the list here (there exist a lot of published checklists), only checklists that cover a “reasonably large” area are listed. The definition of “reasonably large area” is here set to the level 3 areas (here named *botanical countries*) of Brummitt (2001). Appendix 1 lists all checklists known to us that cover one or more of the botanical countries or larger areas. The boundaries between botanical countries mostly follow geopolitical boundaries. However, very large countries, such as Russia, China, and Brazil, are subdivided into administrative units or groups of administrative units. Countries containing geographically well-delimited areas such as the large islands of Borneo, Sumatra, and Corsica, are recognized separately. Very small countries, such as Liechtenstein, Vatican City, and Monaco, are merged with larger neighbors. In some cases, where there is no good recent checklist for the botanical country, checklists for a subdivision of them are included. Likewise, checklists that do not use the same geographical units that we use here are included only if they cover areas without a recent checklist. Only checklists that cover all species in the region are included, except in a few cases where there is no complete checklist, or when a series of papers together form a checklist.

Although there are checklists for many areas, substantial portions of the globe either lack lists entirely, or lack recent lists (Fig. 1). Notable is the lack of lists for the Caribbean Islands, Mexico, most of Central America, and for southernmost

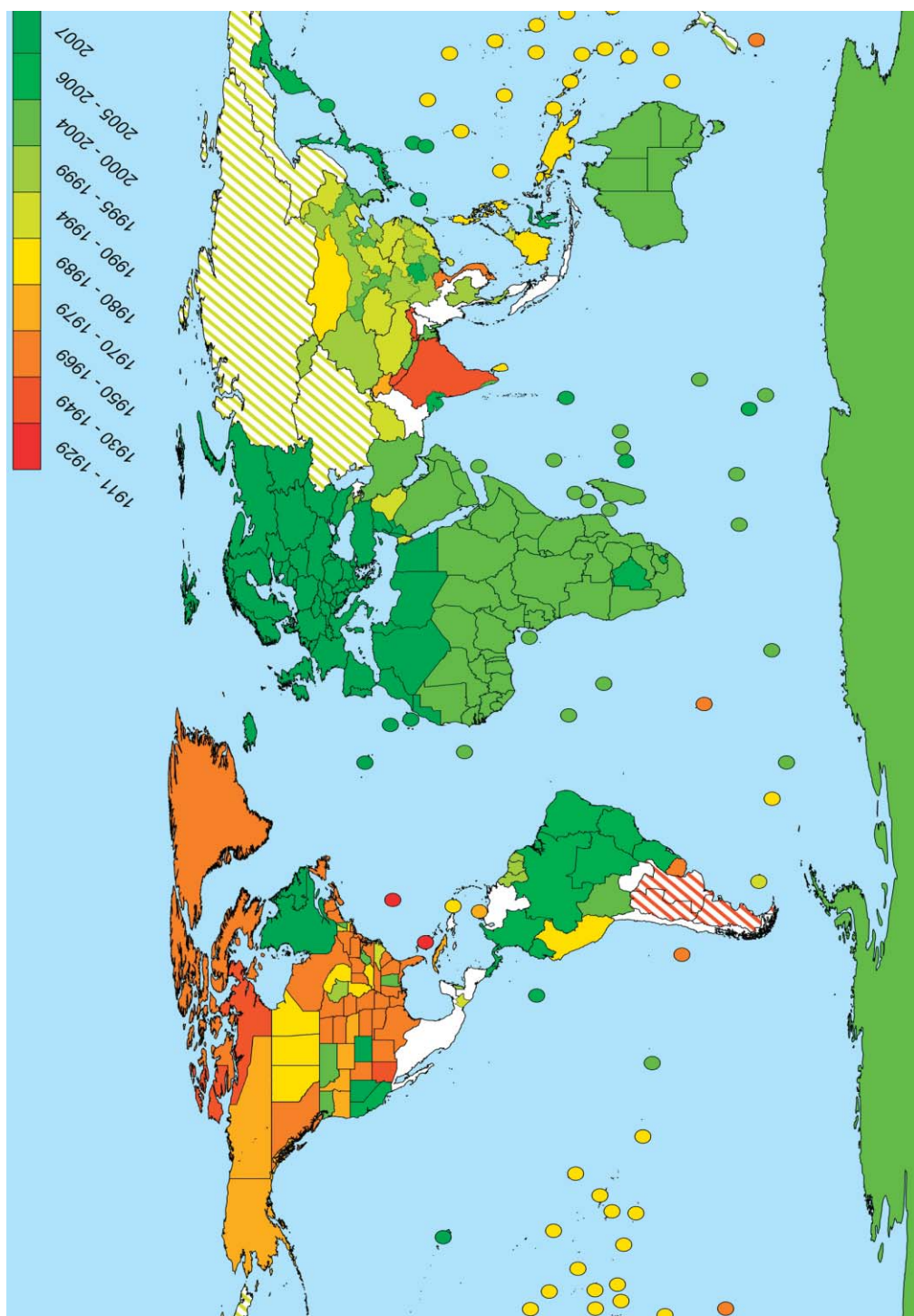


FIG. 1. Map indicating the year the latest checklist was published for a botanical country, and for subdivisions within a botanical country, if a more recent checklist exists for that part. Hatched areas only have checklists using larger units. White areas lack checklists or have only incomplete checklists. Small islands, for which checklists exist, are denoted by colored dots to make them visible.

South America. There are, in addition, no detailed checklists of the Asiatic part of the former Soviet Union, because the list by Kontantinova et al. (1992) uses much larger subdivisions than our botanical countries do. Two general areas also are notable as having mainly very old lists: Southeast Asia (cf. also Söderström & S neca, 2008) and North America.

Conclusion

Checklists remain an indispensable tool for setting priorities for conservation action, ecological research, and taxonomic and systematic studies. Broader participation by taxonomic specialists and regional experts will lead to checklists containing high quality data. Key elements that should be included in a checklist include: author citation, original citations, type data, synonymy (including differentiation between homonyms and heterotypic synonyms), distribution, and if not the direct citation of exemplar voucher specimens, then minimally a citation of the source for the record.

Acknowledgments

The ELPT project is generously supported by the Global Biological Information Facility (GBIF) Seed Money Award No. 2007-41.

Literature Cited

BRUMMITT, R. K. 2001. World Geographical Scheme for Recording Plant Distributions. Ed. 2. Taxonomic Database Working Group, Hunt Institute for Botanical Documentation, Pittsburgh, Pennsylvania.

CLEAVITT, N. L., AND T. J. FAHEY. 1996. Checklist of bryophytes occurring in Hubbard Brook Experimental Forest. *Evansia*, **13**: 67–74.

CRANE, P. R. 2004. Documenting plant diversity: Unfinished business. *Philosophical Transactions of the Royal Society of London, Series B*, **359**: 735–737.

CROSBY, M. R., R. E. MAGILL, B. ALLEN, AND S. HE. 1999. A checklist of the Mosses. Missouri Botanical Garden Press, St. Louis, Missouri.

GRADSTEIN, S. R., R. I. MENESES Q, AND B. A. ARBE. 2003. Catalogue of the Hepaticae and Anthocerotae of Bolivia. *Journal of the Hattori Botanical Laboratory*, **93**: 1–67.

GREENE, S. W., AND A. J. HARRINGTON. 1989. The conspectus of bryological taxonomic literature. Part. 1. Guide to national and regional literature. *Bryophytorum Bibliotheca*, **37**: 1–321.

GROLLE, R., AND D. G. LONG. 2000. An annotated check-list of the Hepaticae and Anthocerotae of Europe and Macaronesia. *Journal of Bryology*, **22**: 103–140.

GROLLE, R., AND S. PIIPPO. 1984. Annotated catalogue of Western Melanesian bryophytes. I. Hepaticae and Anthocerotae. *Acta Botanica Fennica*, **125**: 1–86.

ISAAC, N. J. B. 2004. Taxonomic inflation: Its influence on macroecology and conservation. *Trends in Ecology and Evolution*, **19**: 464–469.

KONSTANTINOVA, N. A., A. D. POTEMKIN, AND R. N. SCHLJAKOV. 1992. Checklist of the Hepaticae and Anthocerotae of the former USSR. *Arctoa*, **1**: 87–127.

KOPONEN, T., S. PIIPPO, J. ENROTH, P. RAO, AND Y.-M. FANG. 1998. Principles of checklists. *Bryological Times*, **95**: 1–2.

LANE, D. 1978. A geographical guide to bryophyte floras of the world. *Miscellanea Bryologica et Lichenologica*, **8**: 15–23, 29–34.

LUGHADHA, E. N. 2004. Towards a working list of all known plant species. *Philosophical Transactions of the Royal Society of London, Series B*, **359**: 681–687.

POPOVA, N. N., AND V. I. ZOLOTOV. 1998. Bryophyta of Kursk region. *Botanicheskii Zhurnal, Moscow & Leningrad*, **83**(11): 57–63.

REINER-DREHWALD, M. E. 1999. Catalogue of the genus *Lejeunea* Lib. (Hepaticae) of Latin America. *Bryophytorum Bibliotheca*, **54**: 1–101.

ROS, R. M., V. MAZIMPAKA, U. ABOU-SALAM, M. ALEFFI, T. L. BLOCCKEEL, M. BRUGU ES, M. J. CANO, R. M. CROS, M. G. DIA, G. M. DIRKSE, W. EL SAADAWI, A. ERDA , A. GANEVA, J. M. GONZ LEZ-MANCEBO, I. HERRNSTADT, K. KHALIL, H. K RSCHNER, E. LANFRANCO, A. LOSADA-LIMA, M. S. REFAI, S. RODR GUEZ-NU EZ, M. SABOVljevi , C. S RGIO, H. SHABBARA, M. SIM-SIM, AND L. S DERSTR M. 2007. Hepatics and Anthocerotae of the Mediterranean, an annotated checklist — Cryptogamie, *Bryologie*, **28**: 351–437.

S DERSTR M, L., AND A. S NECA. 2006. World distribution patterns in the Lophoziaceae/Scapaniaceae complex (Hepaticae, Bryophyta). *Journal of the Hattori Botanical Laboratory*, **100**: 431–441.

S DERSTR M, L., AND A. S NECA. 2008. Can species richness and richness of range restricted species be used as a tool for species conservation?, pp. 431–442. *In* Mohamed, H., B. Bakar, A. N. Boyce, and P. K. Y. Lee eds., *Bryology in Asia in the New Millennium. Proceedings of the World Conference of Bryology, 23–27 July 2007, Petaling Jaya, Malaysia*. University of Malaya, International Association of Bryologists and Malaysian Ministry of Natural Resources.

S DERSTR M, L., A. S NECA, AND M. SANTOS. 2007a. Rarity patterns in members of the Lophoziaceae/Scapaniaceae complex occurring North of the Tropics—Implications for conservation. *Biological Conservation*, **135**: 352–359.

S DERSTR M, L., E. URMI, AND J. VA NA. 2002. Distribution of Hepaticae and Anthocerotae in Europe and Macaronesia. *Lindbergia*, **27**: 3–47.

———. 2007b. The distribution of Hepaticae and Anthocerotae in Europe and Macaronesia—Update 1–427. *Cryptogamie, Bryologie*, **28**: 299–350.

- TAN, B. C., AND J. J. ENGEL. 1986. An annotated checklist of Philippine Hepaticae. *Journal of the Hattori Botanical Laboratory*, **60**: 283–355.
- VON KONRAT, M., A. HAGBORG, L. SÖDERSTRÖM, J. MÜTKE, M. RENNER, R. GRADSTEIN, R.-L. ZHU, J. ENGEL, AND J. PICKERING. 2008. Early land plants: Global patterns of liverwort diversity, distribution, and floristic knowledge, pp. 417–430. *In* Mohamed, H., B. Bakar, A. N. Boyce, and P. K. Y. Lee eds., *Bryology in Asia in the New Millennium. Proceedings of the World Conference of Bryology, 23–27 July 2007, Petaling Jaya, Malaysia*. University of Malaya, International Association of Bryologists and Malaysian Ministry of Natural Resources.
- YANO, O. 1984. Checklist of Brazilian liverworts and hornworts. *Journal of the Hattori Botanical Laboratory*, **56**: 481–548.

APPENDIX I

The list includes all checklists published since 1900, known to us, that fulfill our criteria as covering a botanical country or larger area, and including all liverwort species. In some cases where there is no good recent checklist, we have loosened our requirements. When there is a newer checklist for a smaller part of the botanical country, we have included it (but not if it is older than the newest for the botanical country and thus assumed to be incorporated there). Also, when there is no good checklist covering all species, we have included lists that cover a larger part of the flora, e.g., all leafy liverworts of Mexico. In addition, we have included lists that comprise full updates of earlier lists without repeating the whole list.

We separate different kinds of checklists according to the following typography, although it sometimes is difficult to understand the background of the list. **Bold** = Specimen based, ***Bold Italic*** = cite specimens, Normal = literature based, *Normal Italic* = cite original literature, * = additional reports (only additions fully updating an earlier checklist), ° = only covering part of the territory (see literature list for explanation), ° = only covering part of the species (see literature list for an explanation).

EUROPE

Müller 1910–1916, 1951–1958, Grolle 1976, Grolle 1983, Frey et al. 1995, Grolle & Long 2000.

NORTHWESTERN EUROPE

BRITAIN: Corley & Hill 1981, Düll 1983, Smith 1990, Hill et al. 1991, Blockeel & Long 1998, 1999,

Paton 1999, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **DENMARK:** Jensen 1915, Arnell 1928, 1956, Damsholt et al. 1969, Düll 1983, Söderström 1995, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **FAEROE IS:** Boesen et al. 1976, Düll 1983, Söderström 1995, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **FINLAND:** Buch 1936, Arnell 1928, 1956, Koponen et al. 1977, Düll 1983, Söderström 1995, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2000, Ulvinen et al. 2002, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **ICELAND:** Hesselbo 1918, Düll 1983, Jóhannsson 1983, Söderström 1995, Jóhansson 1998–2003, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **IRELAND:** Corley & Hill 1981, Düll 1983, Smith 1990, Hill et al. 1991, Blockeel & Long 1998, 1999, Paton 1999, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, Hallingbäck et al. 2006, *Söderström et al. 2007*⁺, *Holyoak 2003*. **NORWAY:** Jørgensen 1934, Arnell 1928, 1956, Düll 1983, Frisvoll et al. 1984, 1995, Söderström 1995, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **SVALBARD:** Düll 1983, Frisvoll et al. 1995, Söderström 1995, Damsholt 2002, Schumacker & Vána 2000, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **SWEDEN:** Arnell 1928, 1956, Düll 1983, Hallingbäck & Söderström 1987, Söderström et al. 1992, Söderström 1995, Söderström & Hedenäs 1998, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, Hallingbäck et al. 2006, *Söderström et al. 2007*⁺.

MIDDLE EUROPE

AUSTRIA: Düll 1983, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **BELGIUM:** Düll 1983, Schumacker et al. 1985, Schumacker & Vána 2000, Sotiaux & Vandenpoorten 2001, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **CZECH REPUBLIC:** Düll 1983^{*}, Vána 1997a, b¹, 1998, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*⁺, Kučera &

¹ Species erroneously reported.

Váňa 2003, 2005. **GERMANY:** Düll 1972, Düll 1983, Frahm & Frey 1983, Düll & Meinunger 1989, Ludwig et al. 1996, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, *Söderström et al. 2007*⁺. **HUNGARY:** Boros 1968, Düll 1983, Orbán & Vajda 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Erzberger & Papp 2004, Schumacker & Váňa 2005, *Söderström et al. 2007*⁺. **NETHERLANDS:** Gradstein 1977, Landwehr 1980, Margadant & During 1982, Düll 1983, Dirkse et al. 1989, 1999, **Gradstein & Melick 1996**, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Siebel et al. 2005, *Söderström et al. 2007*⁺. **POLAND:** *Szweykowski 1958*, Rejment-Grochowska 1966, 1971, Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, *Szweykowski 2006*, *Söderström et al. 2007*⁺. **SLOVAKIA:** Düll 1983^{*}, Kubinská et al. 1993, Váňa 1997b², Marhold & Hindák 1998, Schumacker & Váňa 2000, Kubinská et al. 2001, Söderström et al. 2002b, Schumacker & Váňa 2005, *Söderström et al. 2007*⁺. **SWITZERLAND:** *Meylan 1924*, Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schnyder et al. 2004, Schumacker & Váňa 2005, *Söderström et al. 2007*⁺.

SOUTHWESTERN EUROPE

BALEARES: Boesen 1976, Düll 1983, Sérgio et al. 1994, Casas 1998, Schumacker & Váňa 2000, Söderström et al. 2002b, Casas et al. 2004, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **CORSICA:** Augier 1966, *Bischler & Jovet-Ast 1973*, Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺, *Sotiaux et al. 2007*. **FRANCE:** Augier 1966, Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **PORTUGAL:** *Casares-Gil 1919*, *Machado Guimarães 1925*, Sabino de Freitas 1944, Düll 1983, Sérgio et al. 1994, Schumacker & Váňa 2000, Söderström et al. 2002b, *Sérgio & Carvalho 2003*, Schumacker & Váňa 2005, Ros et al. 2007, Sérgio et al. 2007, *Söderström et al. 2007*⁺. **SARDINIA:** Zodda 1934, *Bischler & Jovet-Ast 1972*, Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **SPAIN:** *Casares-Gil 1919*, Düll 1983, Sérgio et al. 1994, Casas 1998, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa

2005, Ros et al. 2007, Sérgio et al. 2007, *Söderström et al. 2007*⁺.

SOUTHEASTERN EUROPE

ALBANIA: Düll 1983, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Colacino & Sabovljević 2006, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **BULGARIA:** *Petrov 1975*, Düll 1983, Ganeva & Düll 1999, Schumacker & Váňa 2000, Söderström et al. 2002b, **Ganeva & Natcheva 2003**, Schumacker & Váňa 2005, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **BOSNIA–HERZEGOVINA:** *Pavletić 1955, 1968*, Söderström et al. 2002b, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **CRETE:** *Düll 1979, Preston 1981*, Düll 1983, *Preston 1984*⁺, **Düll 1995**, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **CROATIA:** *Pavletić 1955, 1968*, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **GREECE:** *Preston 1981*, Düll 1983, *Preston 1984*⁺, **Düll 1995**, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Sabovljević & Natcheva 2006^{*}, Ros et al. 2007, *Söderström et al. 2007*⁺. **ITALY:** Zodda 1934, Düll 1983, Aleffi & Schumacker 1995, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Aleffi 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **MACEDONIA:** *Pavletić 1955, 1968*, Söderström et al. 2002b, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **MONTENEGRO:** *Pavletić 1955, 1968*, *Sabovljević 2000*, Söderström et al. 2002b^{*}, Sabovljević et al. 2004, *Dragičević & Veljić 2006*, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **ROMANIA:** Papp 1967, *Mohan 1971*, Düll 1983, Mihai 1983, *Mohan 1984, 1998*, Schumacker & Váňa 2000, Söderström et al. 2002b, *Ștefanuț 2002*, Schumacker & Váňa 2005, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **SERBIA:** *Pavletić 1955, 1968*, *Sabovljević 2000*, Söderström et al. 2002b^{*}, Sabovljević et al. 2004, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007*⁺. **SICILY:** Zodda 1934, Düll 1983, *Dia et al. 1985*, Aleffi & Schumacker 1995, Schumacker & Váňa 2000, Söderström et al. 2002b, Schumacker & Váňa 2005, Ros et al. 2007, *Söderström et al. 2007*⁺. **SLOVENIA:** *Pavletić 1955, 1968*, Söderström et al. 2002b, Sabovljević & Natcheva 2006, Ros

² Species erroneously reported.

et al. 2007, *Söderström et al. 2007*⁺. **TURKEY-IN-EUROPE:** *Gökler & Öztürk 1996*, Schumacker & Vána 2000, *Söderström et al. 2002b*, Schumacker & Vána 2005, Sabovljević & Natcheva 2006, *Söderström et al. 2007*⁺. **YUGOSLAVIA (IN ITS FORMER EXTENT):** Düll 1983, Schumacker & Vána 2000, 2005.

EASTERN EUROPE

Düll 1983^{*}, Konstantinova et al. 1992^{*}, Konstantinova & Potemkin 1996^{*}, Schumacker & Vána 2000^{*}, 2005^{*}.

BELARUS: *Söderström et al. 2002b, 2007*⁺. **CRIMEA:** *Zerov 1958*, Düll 1983, Schumacker & Vána 2000, *Söderström et al. 2002b*, **Partyka 2005**, Schumacker & Vána 2005, *Söderström et al. 2007*⁺. **ESTONIA:** Ingerpuu et al. 1994, Ingerpuu & Vellak 1998, *Vellak et al. 2001*⁺, *Söderström et al. 2002a, b, Vellak et al. 2006*⁺, *Söderström et al. 2007*⁺. **KALININGRAD:** *Söderström et al. 2002b, 2007*⁺. **KAZACHSTAN-IN-EUROPE:** *Söderström et al. 2002b, 2007*⁺. **LATVIA:** *Āboliņa 1984, 2001, Söderström et al. 2002a, b, 2007*⁺. **LITHUANIA:** *Najaulis et al. 1995, Söderström et al. 2002a, b, 2007*⁺. **MOLDOVO:** *Abramova & Abramov 1966*, Simonov 1972, *Söderström et al. 2002b, 2007*⁺. **RUSSIA CENTRAL:** *Söderström et al. 2002b, 2007*⁺. **RUSSIA EAST:** *Söderström et al. 2002b, 2007*⁺. **RUSSIA NORTH:** *Schljakov 1976–1982, Söderström et al. 2002b, 2007*⁺. **RUSSIA NORTHWEST:** *Söderström et al. 2002b, 2007*⁺. **RUSSIA SOUTH:** *Söderström et al. 2002b, 2007*⁺. **UKRAINE:** *Zerov 1939*^{*}, *Vána & Virchenko 1993*^{*}, *Söderström et al. 2002b, 2007*⁺.

AFRICA

NORTH AFRICA

ALGERIA: *Trabut 1942, Jelenc 1950, Ros et al. 1999, Ros et al. 2007*. **EGYPT:** *Trabut 1942, Jelenc 1950, Jovet-Ast & Bischler 1970, Ros et al. 1999, Ros et al. 2007*^{*}. **LIBYA:** *Trabut 1942, Jelenc 1950, Jovet-Ast & Bischler 1969, Ros et al. 1999, Ros et al. 2007*. **MOROCCO:** *Trabut 1942, Jelenc 1950, Jovet-Ast 1955–1956, Ros et al. 1999, Ros et al. 2007*. **TUNISIA:** *Trabut 1942, Jelenc 1950, Jovet-Ast & Bischler 1972, Ros et al. 1999, Ros et al. 2007*. **WESTERN SAHARA:** *Ros et al. 1999, Ros et al. 2007*.

MACARONESIA

AZORES: *Eggers 1982, Düll 1983, Schumacker & Vána 2000, Schumacker 2001, Sjögren 2001, Söderström et al. 2002b, Frahm 2005, Gabriel et al. 2005, Schumacker & Vána 2005, Frahm & Häusler 2007, Söderström et al. 2007*⁺. **CANARY IS:** *Eggers 1982, Düll 1983, Dirkse et al. 1993,*

Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, Frahm & Häusler 2007, Ros et al. 2007, Söderström et al. 2007⁺. **CAPE VERDE IS:** *Eggers 1982, Muhle 1986, Frahm et al. 1996, Wigginton & Grolle 1996, Wigginton 2002, 2004*. **MADEIRA:** *Eggers 1982, Düll 1983, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, Frahm & Häusler 2007, Ros et al. 2007, Söderström et al. 2007*⁺.

WEST TROPICAL AFRICA

BENIN: *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **BURKINA FASSO:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **GAMBIA:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **GHANA:** *Jones & Harrington 1983, Wigginton & Grolle 1996, Wigginton 2002, 2004*. **GUINEA:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **GUINEA-BISSAU:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **IVORY COAST:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **LIBERIA:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **MALI:** *Wigginton & Grolle 1996, Ros et al. 1999, Wigginton 2002, 2004*. **MAURETANIA:** *Wigginton & Grolle 1996, Ros et al. 1999, Wigginton 2002, 2004*. **NIGER:** *Wigginton & Grolle 1996, Ros et al. 1999, Wigginton 2002, 2004*. **NIGERIA:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **SENEGAL:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **SIERRA LEONE:** *Jones & Harrington 1983, Wigginton & Grolle 1996, Wigginton 2002, 2004*. **TOGO:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*.

WEST-CENTRAL TROPICAL AFRICA

BURUNDI: *Demaret 1942, Fischer 1993, Wigginton & Grolle 1996, Wigginton 2002, 2004*. **CABINDA:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **CAMEROON:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **CENTRAL AFRICAN REPUBLIC:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **CONGO:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **EQUATORIAL GUINEA:** *Wigginton & Grolle 1996, Heras & Infante 1996, 2001, Wigginton 2002, 2004*. **GABON:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **GUINEA GULF ISLANDS:** *Wigginton & Grolle 1996, Wigginton 2002, 2004*. **RWANDA:** *Demaret 1942, Fischer 1993, Wigginton & Grolle 1996, Wigginton 2002, 2004*. **ZAIRE:** *Demaret 1942, Fischer 1993, Wigginton & Grolle 1996, Wigginton 2002, 2004*.

NORTHEAST TROPICAL AFRICA

CHAD: *Wigginton & Grolle 1996, Ros et al. 1999, Wigginton 2002, 2004*. **DJIBOUTI:** *Cufodontis*

1952, Wigginton & Grolle 1996, Wigginton 2002, 2004. **ERITREA:** Cufodontis 1952, Wigginton & Grolle 1996, Wigginton 2002, 2004. **ETHIOPIA:** Cufodontis 1952, Wigginton & Grolle 1996, Wigginton 2002, 2004. **SOCOTRA:** Jones 1969, Frey & Kürschner 1988, Mies 1994, Wigginton & Grolle 1996, Kürschner 2000, Wigginton 2002, 2004. **SOMALIA:** Cufodontis 1952, Wigginton & Grolle 1996, Wigginton 2002, 2004. **SUDAN:** Wigginton & Grolle 1996, Wigginton 2002, 2004.

EAST TROPICAL AFRICA

KENYA: Wigginton & Grolle 1996, Wigginton 2002, *Chuah-Petiot* 2003, Wigginton 2004. **TANZANIA:** Wigginton & Grolle 1996, Wigginton 2002, 2004. **UGANDA:** Wigginton & Grolle 1996, Wigginton 2002, 2004.

SOUTH TROPICAL AFRICA

ANGOLA: Wigginton & Grolle 1996, Wigginton 2002, 2004. **MALAWI:** O'Shea 1993, Wigginton & Grolle 1996, Wigginton 2002, 2004. **MOZAMBIQUE:** Wigginton & Grolle 1996, Wigginton 2002, 2004. **ZAMBIA:** Wigginton & Grolle 1996, Wigginton 2002, 2004. **ZIMBABWE:** Sim & Dixon 1922, Best 1990, Wigginton & Grolle 1996, Wigginton 2002, 2004, Manyanga & Perold 2004.

SOUTHERN AFRICA

BOTSWANA: Perold & Van Rooy 1993, Wigginton & Grolle 1996, Wigginton 2002, Wigginton 2004, Setshogo 2005. **CAPE PROVINCES:** Perold & Van Rooy 1993, Perold 2003. **FREE STATE:** Perold & Van Rooy 1993, Perold 2003. **LESOTHO:** Arnell 1963, Perold & Van Rooy 1993, Wigginton & Grolle 1996, Wigginton 2002, 2004, Perold 2003, Kobisi 2005. **NAMIBIA:** Russell & Van Rooy 1988, Perold & Van Rooy 1993, Wigginton & Grolle 1996, Wigginton & Grolle 1996, Craven 1999, Wigginton 2002, Perold 2003, Wigginton 2004. **NATAL:** Perold & Van Rooy 1993, Perold 2003. **SOUTH AFRICA:** Sim 1916, 1926, Arnell 1963, Magill & Schelpe 1979, Wigginton & Grolle 1996, Wigginton 2002, 2004. **SWAZILAND:** Arnell 1963, Perold & Van Rooy 1993, Wigginton & Grolle 1996, Wigginton 2002, Perold 2003, Wigginton 2004, *Braun et al.* 2004. **TRANSVAAL:** Perold & Van Rooy 1993, Perold 2003.

MIDDLE ATLANTIC OCEAN

ASCENSION: Grolle 1988, Wigginton & Grolle 1996, Wigginton 2002, 2004. **ST HELENA:** Wigginton & Grolle 1996, Wigginton 2002, 2004.
Western Indian Ocean

ALDABRA: Grolle 1995, *Seaward et al.* 1996, Wigginton 2002, 2004. **CHAGOS:** Grolle 1995, Wigginton 2002, 2004, *Seaward et al.* 2006. **COMORES:** Grolle 1995, Wigginton 2002, 2004. **MADAGASCAR:** Jovet-Ast 1949, Grolle 1995, Wigginton 2002, 2004. **MAURITIUS:** Grolle 1995, Wigginton 2002, 2004. **MOZAMBIQUE CHANNEL ISLANDS:** Wigginton 2002, 2004. **RÉUNION:** Grolle 1995, Wigginton 2002, 2004, *Ah-Peng & Bardat* 2005. **RODRIGUEZ:** Grolle 1995, Wigginton 2002, 2004. **SEYCHELLES:** Grolle 1978, 1995, Wigginton 2002, 2004.

TEMPERATE ASIA

Konstantinova & Potemkin 1996*.

SIBERIA

ALTAY: *Vána & Ignatov* 1995. **BURYATIYA:** X. **CHITA:** X. **IRKUTSK:** X. **KRASNOYARSK:** X. **TUVA:** X. **WEST SIBERIA:** X. [**FRANZ JOSEF LAND:** Söderström et al. 2002b, 2007*. **NOVAYA ZEMLYA:** Söderström et al. 2002b, 2007*. **SEVERNAYA ZEMLYA:** Potemkin 2000]. **YAKUTSK:** X.

RUSSIAN FAR EAST

AMUR: X. **KAMCHATKA:** Bakalin 2003, 2005. **KHABAROVSK:** X. **KURIL IS:** Nyushko & Potemkin 2005. **MAGADAN:** X. [**CHUKOTKA:** *Abramova et al.* 1985]. **PRIMORYE:** X. **SAKHALIN:** *Kitagawa* 1963, *Bakalin et al.* 2005, Nyushko & Potemkin 2005.

MIDDLE ASIA

Konstantinova et al. 1992.

KAZACHSTAN: X. **KIRGIZSTAN:** X. **TADZHIKISTAN:** X. **TURKMENISTAN:** X. **UZBEKISTAN:** X.

CAUCASUS

ARMENIA: Abramova & Abramov 1959, Manakyan 1995. **AZERBAIDZHAN:** X. **GRUZIYA:** *Czikovani* 1986, Czikovani & Svanidze 2004. **NORTH CAUCASUS:** Söderström et al. 2002b, 2007*.

WESTERN ASIA

AFGHANISTAN: Kitagawa 1964, *Frey* 1974, *Frey & Kürschner* 1991. **CYPRUS:** *Frey & Kürschner* 1991, Ros et al. 2007. **IRAN:** *Frey* 1974, *Frey & Kürschner* 1991, *Akhani & Kürschner* 2004. **IRAQ:** *Frey & Kürschner* 1991. **ISRAEL:** *Jovet-Ast & Bischler* 1966, *Frey & Kürschner* 1991, Ros et al. 2007. **JORDAN:** *El-Oqlah et al.* 1988, *Frey & Kürschner* 1991, Ros et al. 2007. **LEBANON:** *Frey & Kürschner* 1991, Ros et al. 2007. **SINAI:** *Jovet-Ast & Bischler* 1970, *Frey & Kürschner* 1991. **SYRIA:** *Frey & Kürschner* 1991, Ros et al. 2007. **TURKEY:** Henderson 1961, Henderson & Prentice 1969,

Gökler et al. 1985, Çetin 1988, Frey & Kürschner 1991, Gökler & Öztürk 1991, Kürschner & Erdağ 2005, Ros et al. 2007*.

ARABIAN PENINSULA

BAHREIN: Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **KUWAIT:** Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **OMAN:** Long 1987, Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **QUATAR:** Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **SAUDI ARABIA:** Long 1987, Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **UNITED ARAB EMIRATES:** Long 1987, Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000. **YEMEN:** Long 1987, Frey & Kürschner 1988, Frey & Kürschner 1991, Kürschner 2000.

CHINA

CHINA CENTRAL: Piippo 1990a. [**GUIZHOU:** Zhang & Chen 2006. **HUBEI:** Peng et al. 2000. **SICHUAN:** Piippo et al. 1997. **YUNNAN:** Piippo et al. 1998, Gao & Cao 2001]. **CHINA NORTH-CENTRAL:** Piippo 1990a. [**GANSU:** Wu et al. 2002. **SHANDONG:** Zhao & Cao 1998]. **CHINA SOUTHEAST:** Piippo 1990a. **GUANGXI:** Zhu & So 2003. **HONG KONG:** So 1995, Zhu & So 1996, Zhang & Lin 1997, Zhang 2003. **HUNAN:** Rao et al. 1997. **JIANGXI:** Fang et al. 1998. **ZHEJIANG:** Zhu et al. 1998]. **HAINAN:** Piippo 1990a, Lin et al. 1994. **INNER MONGOLIA:** Piippo 1990a. [**NEI MONGOL:** Bai 1993, Bai & Zhao 1996]. **MANCHURIA:** Gao & Chang 1981, Piippo 1990a. [**JILIN:** Söderström 2000]. **QUINHAI:** Piippo 1990a. **TIBET (XIZANG):** Li 1985, Piippo 1990a. **XINJIANG:** Piippo 1990a, Whittemore et al. 1998.

MONGOLIA

MONGOLIA: Abramova & Abramov 1983.

EASTERN ASIA

Mizutani & Hattori 1969*, Furuki & Mizutani 1994*, 1995*, 2004*.

BONIN IS: Miller 1960, Inoue & Iwatzuki 1969, Inoue 1970, Miller et al. 1983, Yamada & Iwatzuki 2006. **JAPAN:** Yamada & Iwatzuki 2006. **KOREA:** Choe & Yamada 1974, Choe 1980, Choe & Choi 1980, Kim 1991, Yamada & Choe 1997, Hong 1998, 2003. **RYUKYU IS:** Shin 1968, 1970a, b, Yamada & Iwatzuki 2006. **TAIWAN:** Yang 1960, Lai & Wang-Yang 1976, Kuo & Chang 1988, Piippo 1990a, Lin 2000. **VOLCANO IS:** Miller 1960, Inoue & Iwatzuki 1969, Inoue 1970, Miller et al. 1983, Furuki 1997, Yamada & Iwatzuki 2006.

TROPICAL ASIA

INDIAN SUBCONTINENT

³Kachroo 1969–1973, Parihar 1962, Kachroo et al. 1977, 1994, Bapna & Kachroo 2000.

ASSAM: X. **BANGLADESH:** Banu-Fattah 2001. **EAST HIMALAYA:** Chopra 1943. [**BHUTAN:** Long 1979, Long & Grolle 1990]. **INDIA:** Chopra 1943. [**CHANDIGARGH:** Kashyap 1929, 1932, Kashyap & Chopra 1932. **GUJARAT:** Mahabale & Chavan 1954, Chaudhary et al. 2006. **HARYANA:** Kashyap 1929, 1932, Kashyap & Chopra 1932. **KERALA:** Easa 2003. **PUNJAB:** Kashyap 1929, 1932, Kashyap & Chopra 1932. **UTTAR PRADESH:** Kashyap 1929, 1932, Kashyap & Chopra 1932]. **LACCADIVES:** X. **MALDIVES:** X. **NEPAL:** Chopra 1943, Grolle 1966, 1974+, Kattel 2002. **PAKISTAN:** Kashyap 1929*, 1932*, Kashyap & Chopra 1932*. **SRI LANKA:** Abeywickrama 1959, Abeywickrama & Jansen 1978, Onraedt 1981*. **WEST HIMALAYA:** Kashyap 1929, 1932, Kashyap & Chopra 1932. [**HIMACHAL PRADESH:** Kashyap 1929, 1932, Kashyap & Chopra 1932. **KASHMIR:** Kashyap 1929, 1932, Kashyap & Chopra 1932, Srivastava 1979. **UTTARANCHAL:** Kashyap 1929, 1932, Kashyap & Chopra 1932].

INDO-CHINA

ANDAMAN: X. **CAMBODJA:** X. **LAOS:** X. **MYANMAR:** X. **NICOBAR IS:** X. **SOUTH CHINA SEA:** X. **THAILAND:** Sornsamran & Thaithong 1995. **VIETNAM:** Pócs 1965, Pócs et al. 1967*.

MALESIA

BORNEO: Menzel 1988. **CHRISTMAS I:** X. **COCOS I:** X. **JAWA:** Schiffner 1900°. **LESSER SUNDA IS:** X. **MALAYA:** X. [**SINGAPORE:** Piippo et al. 2002]. **MOLUCCAS:** X. **PHILIPPINES:** Tan & Engel 1986. **SUMATRA:** X. **SULAWESI:** Gradstein et al. 2005, Aryanti & Gradstein 2007*.

PAPUASIA

BISMARCK ARCHIPELAGO: Miller et al. 1983, Grolle & Piippo 1984a. **NEW GUINEA**⁴: Piippo 1984a, b, Grolle & Piippo 1984a, b, Piippo 1985a, b, c, Grolle & Piippo 1986, Hattori & Piippo 1986, Piippo 1988a, b, c, 1989a, b, Váña & Piippo 1989a, b, Yamada & Piippo 1989, Piippo 1990b, Grolle & Piippo 1990, Bischler & Piippo 1991, Piippo 1991a,

³ These references treat species reported from India but do not always clearly separate between peninsular India, Himalaya, Assam, and the Andaman and Nicobar Is.

⁴ The series of papers from the Huon Peninsula of Papua New Guinea will, when finished, be a full flora with specimens cited. All parts so far issued are cited here.

b, c, Pócs et al. 1994, 1995, Pócs & Piippo 1999.
SOLOMON IS: Miller et al. 1983, *Grolle & Piippo 1984a.*

AUSTRALASIA

AUSTRALIA

LORD HOWE I: Miller et al. 1983. **NEW SOUTH WALES:** *Scott & Bradshaw 1985, McCarthy 2003.* **NORFOLK IS:** *Henderson & Prentice 1971, Miller et al. 1983.* **NORTHERN TERRITORY:** *Scott & Bradshaw 1985, McCarthy 2003.* **QUEENSLAND:** Bailey 1913, *Scott & Bradshaw 1985, Windolf 1987, McCarthy 2003.* **SOUTH AUSTRALIA:** *Scott & Bradshaw 1985, Bolin & Henderson 2002, McCarthy 2003.* **TASMANIA:** Rodway 1917, *Scott & Bradshaw 1985, Ratkowsky 1987, Moscal & Kirkpatrick 1997, McCarthy 2003.* **VICTORIA:** *Scott & Bradshaw 1985, Cropper et al. 1991, McCarthy 2003.* **WESTERN AUSTRALIA:** *Scott & Bradshaw 1985, McCarthy 2003.*

NEW ZEALAND

Hamlin 1972*, 1973*, 1975*, Glenny 1998*.

ANTIPODEAN IS: *Hodgson 1962.* **CHATHAM I:** *Hodgson 1962.* **KERMADEC IS:** *Campbell 1977, Miller et al. 1983.* **NORTH I:** X. **SOUTH I:** X.

PACIFIC

SOUTHWESTERN PACIFIC

FIJI: Miller et al. 1983. **GILBERT IS:** *Miller 1960, Miller et al. 1963, 1983.* **HOWLAND-BAKER IS:** Miller et al. 1983. **NAURU:** Miller et al. 1983. **NEW CALEDONIA:** Miller et al. 1983. **NIUE:** *Campbell 1970, Miller et al. 1983.* **PHOENIX IS:** Miller et al. 1983. **SAMOA:** *Grolle & Schultze-Motel 1973, Grolle 1980**, Miller et al. 1983. **SANTA CRUZ IS:** Miller et al. 1983. **TOKELAU-MANIHIKI:** Miller et al. 1983. **TONGA:** Fulford 1959, Miller et al. 1983. **TUVALU:** Miller et al. 1983. **VANUATU:** Miller et al. 1983. **WALLIS-FUTUNA IS:** Miller et al. 1983.

SOUTHEASTERN PACIFIC

COOK IS: Miller et al. 1983. **EASTER IS:** Miller et al. 1983, *Grolle 2002b, 2002c**. **LINE ISLANDS:** Miller et al. 1983. **MARQUESAS:** Miller et al. 1983. **PITCAIRN IS:** Miller et al. 1983. **SOCIETY IS:** Miller et al. 1983, Whittier & Whittier 1987. **TUAMOTU IS:** Miller et al. 1983. **TUBUAI IS:** Miller et al. 1983.

NORTHWESTERN PACIFIC

MARCUS IS: *Miller et al. 1963, 1983.* **MARIANA IS:** *Miller 1960, Miller et al. 1963, 1983.* **MARSHALL IS:** *Miller 1960, Miller et al. 1963, 1983.* **MICRONESIAN FEDERATE STATE:** *Miller 1960, Miller et al. 1963, 1983.* **PALAU:** *Miller 1960,*

Miller et al. 1963, Swanson & Miller 1969, Miller et al. 1983. **WAKE IS:** *Miller et al. 1963, 1983.*

NORTHEASTERN PACIFIC

HAWAII: Miller et al. 1983, *Staples & Imada 2007.*

NORTH AMERICA

Evans 1940, Stotler & Crandall-Stotler 1977.

SUBARCTIC NORTH AMERICA

ALASKA: *Frye & Clark 1937-1947, Eyerdam 1952, Worley 1970*, Steere & Inoue 1978*.* **ALEUTIAN IS:** *Eyerdam 1952.* **GREENLAND:** *Frye & Clark 1937-1947, Schuster 1966-1992, Schuster & Damsholt 1974*, Schuster 1988*.* **NORTHWEST TERRITORIES:** *Macoun 1902, Frye & Clark 1937-1947.* **NUNAVUT:** *Macoun 1902, Frye & Clark 1937-1947, Polunin 1947, Schuster 1966-1992.* **YUKON:** *Macoun 1902, Evans 1903a, Frye & Clark 1937-1947, Hong & Vitt 1977.*

WESTERN CANADA

ALBERTA: *Macoun 1902, Brinkman 1923a, Frye & Clark 1937-1947, Bird & Hong 1975, Johnson 1989*.* **BRITISH COLUMBIA:** *Macoun 1902, Brinkman 1923b, Frye & Clark 1937-1947, Schofield 1968.* **MANITOBA:** *Macoun 1902, Frye & Clark 1937-1947, Lowe 1943, Schuster 1966-1992, Johnson 1989*.* **SASKATCHEWAN:** *Macoun 1902, Frye & Clark 1937-1947, Conard 1957, Johnson 1989*.*

EASTERN CANADA

LABRADOR: *Macoun 1902, Frye & Clark 1937-1947, Schuster 1966-1992, Brassard & Williams 1976, Favreau & Brassard 1988, Faubert 2007.* **NEW BRUNSWICK:** *Macoun 1902, Frye & Clark 1937-1947, Schuster 1966-1992.* **NEWFOUNDLAND:** *Macoun 1902, Frye & Clark 1937-1947, Buch & Tuomikoski 1955, Schuster 1966-1992.* **NOVA SCOTIA:** *Macoun 1902, Nichols 1916, Brown 1929*, 1936, Frye & Clark 1937-1947, Brown 1946*, 1951*, Williams & Cain 1959*, Schuster 1966-1992.* **ONTARIO:** *Macoun 1902, Frye & Clark 1937-1947, Cain & Fulford 1948, Schuster 1966-1992.* **QUEBEC:** *Macoun 1902, Frye & Clark 1937-1947, Lepage 1944-1945, 1960, Schuster 1966-1992, Favreau & Brassard 1988, Faubert 2007.* **PRINCE EDWARD IS:** *Macoun 1902, Frye & Clark 1937-1947, Schuster 1966-1992.*

NORTHWESTERN UNITED STATES

COLORADO: *Evans 1915, Frye & Clark 1937-1947, Weber 1963*, Weber & Johnson 1976, Weber & Wittmann 2007.* **IDAHO:** *Clark & Frye 1928, Frye & Clark 1937-1947, Hong 1976.* **MONTANA:** *Clark & Frye 1928, Frye & Clark 1937-1947,*

Hong 1975^o, *1977b*^o, *Hong et al. 1998*, *Hong 2002a*. **OREGON:** *Clark & Frye 1928*, *Frye & Clark 1937–1947*, *Hong 1978*. **WASHINGTON:** *Clark & Frye 1928*, *Frye & Clark 1937–1947*, *Hong 2002b*. **WYOMING:** *Clark & Frye 1928*, *Porter 1933–1935*, *Frye & Clark 1937–1947*, *Hong 1977a*.

NORTH-CENTRAL UNITED STATES

ILLINOIS: *Hague 1937*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *McKnight 1987*, *Timme & Redfearn 1997*^{*}. **IOWA:** *Frye & Clark 1937–1947*, *Conard 1942*, *1945*, *1956*, *Schuster 1966–1992*. **KANSAS:** *Frye & Clark 1937–1947*, *McGregor 1955*, *Schuster 1966–1992*. **MINNESOTA:** *Frye & Clark 1937–1947*, *Conklin 1942*, *Schuster 1953*, *Schuster 1966–1992*. **MISSOURI:** *Frye & Clark 1937–1947*, *Gier 1955*, *Redfearn 1964*⁺, *Schuster 1966–1992*, *Timme & Redfearn 1997*^{*}. **NEBRASKA:** *Evans 1924*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Churchill & Redfearn 1978*. **NORTH DAKOTA:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **OKLAHOMA:** *Little 1936*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Timme & Redfearn 1997*^{*}. **SOUTH DAKOTA:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **WISCONSIN:** *Conklin 1929*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Bowers & Freckman 1979*, *Lyman 1999*^{*}.

NORTHEASTERN UNITED STATES

CONNECTICUT: *Evans 1903b*, *Evans & Nichols 1908*, *Evans 1913*, *Evans 1923*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **INDIANA:** *Frye & Clark 1937–1947*, *Parker 1938*, *Wagner 1946*⁺, *Schuster 1966–1992*. **MAINE:** *Evans 1903b*, *Evans 1913*, *Evans 1923*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **MASSACHUSETTS:** *Evans 1903b*, *Evans 1913*, *Evans 1923*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Mischler & Miller 1983*⁺. **MICHIGAN:** *Kaufmann 1915*, *Nichols 1922*, *1925*⁺, *1933*⁺, *1935*⁺, *1936*⁺, *Frye & Clark 1937–1947*, *Steere 1947*, *Schuster 1966–1992*, *Hollensen 1984*. **NEW HAMPSHIRE:** *Evans 1903b*, *Evans 1913*, *Evans 1923*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Cleavitt 2004*. **NEW JERSEY:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **NEW YORK:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **OHIO:** *Frye & Clark 1937–1947*, *Miller 1964*, *Schuster 1966–1992*. **PENNSYLVANIA:** *Porter 1904*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **RHODE ISLAND:** *Evans 1903b*, *Evans 1913*, *Evans 1923*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **VERMONT:** *Evans 1903b*, *Evans 1913*, *Evans 1923*, *Dole 1928*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *McQueen 1992*. **WEST VIRGINIA:** *Sheldon 1907*, *Frye & Clark 1937–1947*, *Ammons 1938*, *Ammons 1940*, *Schuster 1966–1992*, *Studlar et al. 2000*.

SOUTHWESTERN UNITED STATES

ARIZONA: *Evans 1917*, *Frye & Clark 1937–1947*. **CALIFORNIA:** *Frye & Clark 1937–1947*, *Doyle & Stotler 2006*. **NEVADA:** *Frye & Clark 1937–1947*, *Brinda et al. 2007*. **UTAH:** *Frye & Clark 1937–1947*, *Flowers 1945*, *1954*, *1961*.

SOUTH-CENTRAL UNITED STATES

NEW MEXICO: *Stanley 1915*, *1916*⁺, *Arsène 1933*, *Frye & Clark 1937–1947*, *Shields 1954*, *Bird 1960*⁺. **TEXAS:** *McAllister et al. 1932*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*.

SOUTHEASTERN UNITED STATES

ALABAMA: *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Timme & Bowers 2000*. **ARKANSAS:** *Frye & Clark 1937–1947*, *Wittlake 1954*, *Schuster 1966–1992*, *Timme & Redfearn 1997*^{*}. **DELAWARE:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **DISTRICT OF COLUMBIA:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **FLORIDA:** *Frye & Clark 1937–1947*, *McFarlin 1940*, *Schuster 1966–1992*. **GEORGIA:** *Brown 1924*, *Frye & Clark 1937–1947*, *Jacobs 1954*, *Schuster 1966–1992*. **KENTUCKY:** *Fulford 1934*, *1936*⁺, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Snider et al. 1988*. **LOUISIANA:** *Frye & Clark 1937–1947*, *Koch 1961*, *Schuster 1966–1992*. **MARYLAND:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **MISSISSIPPI:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **NORTH CAROLINA:** *Blomquist 1936*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Hicks 1992*. **SOUTH CAROLINA:** *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **TENNESSEE:** *Frye & Clark 1937–1947*, *Sharp 1939*^{*}, *Schuster 1966–1992*. **VIRGINIA:** *Frye & Clark 1937–1947*, *Patterson 1949*, *1950*⁺, *1951*⁺, *1955*⁺, *Schuster 1966–1992*.

MEXICO

Fulford & Sharp 1990^o.

MEXICAN PACIFIC IS: X. [**GUADELUPE:** *Sutcliffe 1932*, *Crum & Miller 1956*]. **MEXICO CENTRAL:** X. **MEXICO NORTHEAST:** X. **MEXICO NORTHWEST:** X. **MEXICO SOUTHEAST:** X. [**CHIAPAS:** *Bourell 1992*]. **MEXICO SOUTHWEST:** X. **VERACRUZ:** X.

SOUTH AMERICA

CENTRAL AMERICA

BELIZE: *Whittemore & Allen 1996*. **CENTRAL AMERICAN PACIFIC I:** X. [**COCOS IS:** *Fosberg & Klawe 1966*, *Dauphin 1999*]. **COSTA RICA:** *Morales 1991*, *Gradstein 1999*^{*}, *Dauphin 2005*. **EL SALVADOR:** X. **GUATEMALA:** X. **HONDURAS:** X. **NICARAGUA:** X. **PANAMA:** *Stotler et al. 1998*, *Gradstein 1999*^{*}, *Dauphin et al. 2006*⁺.

CARIBBEAN

ARUBA: X. **BAHAMAS:** *Evans 1911*. **BERMUDA:** *Evans 1906*, *Evans 1918*. **CAYMAN IS:** X. **CUBA:** *Grolle 1975**. **DOMINICAN REPUBLIC:** X. **HAITI:** X. **JAMAICA:** X. **LEEWARD IS:** X [**GUADELOUPE:** *Pagán 1942*, *Foucault 1977*. **MONTSERRAT:** *Casares-Gil 1905*. **VIRGIN IS:** *Gradstein 1989*]. **NETHERLANDS ANTILLES:** *Van Slageren 1979*. **PUERTO RICO:** *Pagán 1939*, *Gradstein 1989*. **SOUTHWEST CARIBBEAN:** X. **TRINIDAD–TOBAGO:** X. **TURKS–CAICOS IS:** X. **VENEZUELAN ANTILLES:** X. **WINDWARD IS:** X [**DOMINICA:** *Fulford 1987^{+o}*. **ST VINCENT:** *Fulford 1984⁺*].

NORTHERN SOUTH AMERICA

FRENCH GUIANA: *Gradstein & Hekking 1989*, *Boggan et al. 1997*. **GUYANA:** *Gradstein & Hekking 1989*, *Boggan et al. 1997*. **SURINAM:** *Jovet-Ast 1957*, *Gradstein & Hekking 1989*, *Boggan et al. 1997*. **VENEZUELA:** *Gradstein 1999**.

WESTERN SOUTH AMERICA

BOLIVIA: *Gradstein 1999**, *Gradstein et al. 2003*. **COLOMBIA:** *Gradstein & Hekking 1979*, *Uribe & Gradstein 1998*, *Gradstein 1999**, *Campos & Uribe 2006⁺*, *Gradstein et al. 2006*. **ECUADOR:** *Gradstein 1999**, *León-Yáñez et al. 2006*. **GALAPAGOS IS:** *Evans 1902*, *Weber 1966*, *Weber 1976⁺*, *Gradstein & Weber 1982*, *Gradstein 1995*, *León-Yáñez et al. 2006*. **PERU:** *Menzel 1984*, *Gradstein 1999**.

BRAZIL

BRAZIL NORTH: *Yano 1984*, *1989⁺*, *1996a⁺*, *b*, *Gradstein & Costa 2003*, *Yano 2006 a⁺*, *b⁺*. **BRAZIL NORTHEAST:** *Yano 1984*, *1989⁺*, *1996a⁺*, *b*, *Gradstein & Costa 2003*, *Yano 2006 a⁺*, *b⁺*. **BRAZIL SOUTH:** *Yano 1984*, *1989⁺*, *1996a⁺*, *b*, *Gradstein & Costa 2003*, *Yano 2006 a⁺*, *b⁺*. **BRAZIL SOUTHEAST:** *Yano 1984*, *1989⁺*, *1996a⁺*, *b*, *Gradstein & Costa 2003*, *Yano 2006 a⁺*, *b⁺*. **BRAZIL WEST-CENTRAL:** *Yano 1984*, *1989⁺*, *1996a⁺*, *b*, *Gradstein & Costa 2003*, *Yano 2006 a⁺*, *b⁺*.

SOUTHERN SOUTH AMERICA

*Kühnemann 1949**.

ARGENTINA NORTHEAST: X. **ARGENTINA NORTHWEST:** X. **ARGENTINA SOUTH:** X. **CHILE CENTRAL:** X. **CHILE NORTH:** X. **CHILE SOUTH:** X. **DESVENTURADOS IS:** X. **JUAN FERNÁNDEZ IS:** *Arnell 1957*. **PARAGUAY:** X. **URUGUAY:** *Hässel 1964*.

ANTARCTICA

SUBANTARCTIC ISLANDS

AMSTERDAM–ST. PAUL IS: *Grolle 2002a*. **BOUVET IS:** *Bell & Blom 1986*, *Ochyra & Vána*

1989, *Frisvoll et al. 1995*, *Bednarek-Ochyra et al. 2000*, *Grolle 2002a*. **CROZET I:** *Kaalaas 1911*, *Grolle 1972a*, *2002a*. **FALKLAND IS:** *Engel 1990*. **HEARD–MCDONALD IS:** *Grolle 2002a* [**HEARD I:** *Vána & Gremmen 2005*]. **KERGUELEN:** *Grolle 2002a*, *Vána & Gremmen 2006*. **MAQUIRE IS:** X. **MARION–PRINCE EDWARD IS:** *Grolle 1971*, *Grolle 2002a*. **SOUTH GEORGIA:** *Steere 1961b*, *Grolle 1972b*, *Hässel 1977⁺*, *1980⁺*. **SOUTH SANDWICH IS.:** *Grolle 1972b*, *Ochyra & Vána 1989*, *Bednarek-Ochyra et al. 2000*. **TRISTAN DA CUNHA:** *Arnell 1958*.

ANTARCTIC CONTINENT

ANTARCTICA: *Steere 1961a*, *Ochyra & Vána 1989*, *Bednarek-Ochyra et al. 2000*.

Literature Cited

- ABEYWICKRAMA, B. A. 1959. The genera of liverworts of Ceylon. *Journal of Science, Biological Sciences*, **2**: 33–81.
- ABEYWICKRAMA, B. A., AND M. A. B. JANSEN. 1978. A check list of the liverworts of Sri Lanka. UNESCO: Man and the Biosphere National Committee for Sri Lanka **1**: 1–10.
- ĀBOLIŅA, A. A. 1984. Meschotraslevoj klassifikator mchi Latvii. *Salaspils, Latvia*.
- . 2001. Latvijas sūnu saraksts [List of bryophytes of Latvia]. *Latvijas veģetācija*, **3**: 47–87.
- ABRAMOVA, A. L., AND I. I. ABRAMOV. 1959. O Mkhakh Armenii [De muscis Armeniae]. *Trudy Botanicheskogo Instituta Akademii Nauk SSSR. Ser. 2*. **12**: 360–366. [Not seen]
- . 1966. O mkakh Moldavskoj SSR [De Muscis Moldaviae]. *Novosti Sistematiki Nizshikh Rastenii*, **3**: 315–326.
- . 1983. Konspekt flor'i mchov Mongol'skoj Narodnoj Respubliki. *Nauka, Leningrad*. 220 pp.
- ABRAMOVA, A. L., O. M. AFONINA, AND J. DUDA. 1985. Pechenochnye mkhi Chukotskogo Poluoostrova [Liverworts of Chukotka Peninsula]. *Akademija Nauk SSSR, Dal'nevostočnyj Naučnyj Centr, Magadan, Russia*. 40 pp.
- AH-PENG, C., AND J. BARDAT. 2005. Check list of the bryophytes of Réunion Island (France). *Tropical Bryology*, **26**: 89–118.
- AKHANI, H., AND H. KÜRSCHNER. 2004. An annotated and updated checklist of the Iranian bryoflora. *Cryptogamie, Bryologie*, **25**: 315–347.
- ALEFFI, M. 2005. New check-list of the Hepaticae and Anthocerotae of Italy. *Flora Mediterranea*, **15**: 485–566.
- ALEFFI, M., AND R. SCHUMACKER. 1995. Check-list and red-list of the liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) of Italy. *Flora Mediterranea*, **5**: 73–161.
- AMMONS, N. 1938. List of West Virginia liverworts. *Bryologist*, **41**: 63–68.
- . 1940. The liverworts of West Virginia. *American Midland Naturalist*, **23**: 3–164.

- ARNELL, H. W. 1928. Levermossor, pp. 1–224. *In* Holmberg, O., ed., *Skandinavien Flora IIa*. P. A. Norstedt & Söners Förlag, Stockholm, Sweden. 224 pp.
- ARNELL, S. 1956. Illustrated Mossflora of Fennoscandia. I. Hepaticae. Swedish Natural Science Research Council, Stockholm, Sweden. 314 pp.
- . 1957. Hepaticae collected during Dr. and Mrs. Skottsberg's second expedition to the Juan Fernandez Islands, December 1954–March 1955. *Ark. Bot.*, **4**(1): 1–21.
- . 1958. Hepatics from Tristan da Cunha. Results of the Norwegian Scientific expedition to Tristan da Cunha 1937–1938, **42**: 1–76.
- . 1963. Hepaticae of South Africa. Swedish Natural Science Research Council, Stockholm. 411 pp.
- ARSÈNE, F. G. 1933. Hépatiques du Nouveau-Mexique (USA) déterminées par Miss Caroline Coventry Haynes. *Annales de Cryptogamie Exotique*, **6**: 150–160.
- ARYANTI, N. S., AND S. R. GRADSTEIN. 2007. Wallace's line and the distribution of the liverworts of Sulawesi. *Cryptogamie, Bryologie*, **28**: 3–14. **NOTE**: Updates Gradstein et al. 2005.
- AUGIER, J. 1966. *Flore des Bryophytes*. Paul Lechevalier, Paris. 702 pp.
- BAI, X.-L. 1993. The bryoflora of Inner Mongolia. *Chenia*, **1**: 83–98.
- BAI, X.-L., AND Z.-T. ZHAO. 1996. Flora bryophytarum intramongolicarum. Typis Univ. Intramongolicae, Huhehot, Inner Mongolia. 541 pp.
- BAILEY, F. M. 1913. Comprehensive catalogue of Queensland Plants. Government Printer, Brisbane, Australia. 879 pp.
- BAKALIN, V. A. 2003. A preliminary check-list of the hepatics of Kamchatka Peninsula (Russian Far East). *Arctoa*, **12**: 83–90.
- . 2005. New data on distribution of liverworts on Kamchatka Peninsula (North-west Pacific, Russia). *Arctoa*, **14**: 155–162.
- BAKALIN, V. A., V. Y. CHERDANTSEVA, K. V. GOROBETS, AND J. HARPEL. 2005. Contributions to the knowledge on liverworts of Sakhalin Island (West Pacific). *Arctoa*, **14**: 143–154.
- BANU-FATTAH, K. 2001. A comprehensive checklist of bryophytes of Bangladesh. *Bangladesh Journal for Plant Taxonomy*, **8**: 7–18.
- BAPNA, K. R., AND P. KACHROO P. 2000. Hepaticology of India I–II. Himanshu Publ., Udaipur, India 439 pp. & 491 pp.
- BEDNAREK-OCHYRA, H., J. VÁŇA, R. OCHYRA, AND R. LEWIS SMITH. 2000. The liverwort flora of Antarctica. Polish Academy of Science, Krakow, Poland. 236 pp.
- BELL, B. G., AND H. H. BLOM. 1986. Bryophytes of Bouvetöya. *Norsk Polarinstittut Skrifter*, **185**: 11–22.
- BEST, E. B. 1990. The bryophyta of Zimbabwe—an annotated checklist. *Kirkia*, **13**: 293–318.
- BIRD, C. D. 1960. Notes on the current list of New Mexican Hepaticae. *Bryologist*, **63**: 114–115. **NOTE**: Updates Shields (1954).
- BIRD, C. D., AND W. S. HONG. 1975. The hepatic flora of Alberta: A phytogeographical analysis. *Canadian Journal of Botany*, **53**: 1745–1768.
- BISCHLER, H., AND S. JOVET-AST. 1972. Les Hépatiques de Sardaigne: Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **38**: 325–419.
- . 1973. Les Hépatiques de Corse. Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **39**: 43–153.
- BISCHLER, H., AND S. PIIPPO. 1991. Bryophyte flora of the Huon Peninsula, Papua New Guinea. L. *Marchantia* (Marchantiaceae, Hepaticae). *Annales Botanici Fennici*, **28**: 277–301.
- BLOCKEEL, T. L., AND D. G. LONG. 1998. A check-list and census catalogue of British and Irish bryophytes. *Brit. Bryol. Soc.*, Cardiff, United Kingdom. 208 pp.
- . 1999. The new census catalogue: Supplementary lists of deleted, recent and replacement records. *Bulletin of the British Bryological Society*, **73** suppl.: 1–28.
- BLOMQUIST, H. L. 1936. Hepaticae of North Carolina. *Bryologist*, **39**: 49–67.
- BOESEN, D. F. 1976. Mallorcas levermossor. *Meddr CUBBI*, **1**: 87–97.
- BOESEN, D. F., J. LEWINSKY, AND L. RASMUSSEN. 1976. A checklist of the bryophytes of the Faeroes. *Lindbergia*, **3**[1975]: 69–78.
- BOGGAN, J., V. FUNCK, C. KELLOFF, M. HOFF, G. CREMERS, AND C. FEUILLET. 1997. Checklist of the plants of the Guianas (Guyana, Surinam, French Guiana), ed. 2. Centre for the study of Biological Diversity, Georgetown, Guyana. 237 pp.
- BOLIN, A., AND R. J. F. HENDERSON. 2002. Plantae—liverworts and hornworts, pp. 222–227. *In* Henderson, R. J. F., ed., *Names and Distribution of Queensland Plants, Algae and Lichens*. Queensland Herb., Brisbane, Australia. [Not seen]
- BOROS, Á. 1968. *Bryogeographie und bryoflora Ungarns*. Akad. Kiadó, Budapest. 466 pp.
- BOURELL, M. 1992. A checklist of the bryophytes of Chiapas, Mexico. *Tropical Bryology*, **6**: 39–56.
- BOWERS, F. D., AND S. K. FRECKMAN. 1979. Atlas of Wisconsin Bryophytes. Museum of Natural History, Wisconsin. Reports on the Fauna and Flora of Wisconsin, **16**: 1–135.
- BRASSARD, G. R., AND H. WILLIAMS. 1976. The liverworts of Labrador, Canada. *Lindbergia*, **3**[1975]: 83–88.
- BRAUN, K. P., S. D. V. DLAMINI, D. R. MDLADLA, N. P. METHULE, P. W. DLAMINI, AND M. S. DLAMINI. 2004. Swaziland Flora checklist. SABONET Rep., **27**: 1–113.
- BRINDA, J. C., L. R. STARK, J. R. SHEVOCK, AND J. R. SPENCE. 2007. An annotated checklist of the bryophytes of Nevada, with notes on collecting history in the state. *Bryologist*, **110**: 673–705.
- BRINKMAN, A. H. 1923a. List of Alberta Hepatics. *Canadian Field-Naturalist*, **37**: 105–106.
- . 1923b. List of British Columbia Hepaticae. *Canadian Field-Naturalist*, **37**: 94–96.
- BROWN, M. S. 1924. Hepatics in Georgia. *Bryologist*, **27**: 31–34.
- . 1929. Bryophytes of Nova Scotia. Additional list. *Bryologist*, **32**: 50–56. **NOTE**: Updates Brown (1924).
- . 1936. Liverworts and mosses of Nova Scotia. *Proceedings of the Nova Scotian Institute of Science*, **19**: 161–198.
- . 1946. Bryophytes of Nova Scotia: Additions to July, 1945. *Bryologist*, **49**: 102–103. **NOTE**: Updates Brown (1936).

- . 1951. Bryophytes of Nova Scotia: Additional list. *Bryologist*, **54**: 209–213. **NOTE**: Updates Brown (1936).
- BUCH, H. 1936. Suomen Maksasammalet. Kustannusosakeyhtiö Otava, Helsinki, Finland. 117 pp.
- BUCH, H., AND R. TUOMIKOSKI. 1955. Contribution to the hepatic flora of Newfoundland. *Archivum Societatis Zoologicae Botanicae Fennicae* “Vanamo” **suppl. 9**: 1–29.
- CAIN, R. F. AND M. FULFORD. 1948. Contribution to the hepaticae of Ontario. *Bryologist*, **51**: 174–185.
- CAMPBELL, E. O. 1970. Liverworts from Niue Island. *Bulletin, New Zealand Department of Scientific and Industrial Research*, **200**: 294–298.
- . 1977. Hepaticopsida (Hepaticae) and Anthocerospsida, pp. 200–205. *In* Sykes, W. R., ed., *Kermadec Islands Flora. Bulletin, New Zealand Department of Scientific and Industrial Research*, Vol. 219.
- CAMPOS, L., AND J. URIBE. 2006. Additions to the catalogue of Hepaticae and Anthocerotae of Colombia. *Cryptogamie, Bryologie*, **27**: 499–510. **NOTE**: Updates Uribe & Gradstein (1998).
- CASARES-GIL, A. 1905. Flora bryológica de Montserrat. *Boletín de la Real Sociedad Española de Historia Natural*, **5**: 459–464.
- . 1919. Flora Ibérica Briofitas. Part 1, Hepaticas. Museo Nacional de Ciencias Naturales, Madrid, Spain. 775 pp.
- CASAS, C. 1998. The Anthocerotae and Hepaticae of Spain and Balearic Islands: A preliminary checklist. *Orsis*, **13**: 17–26.
- CASAS, C., M. BRUGUÉS, AND R. M. CROS. 2004. Flora dels briòfits dels països catalans II. Hepàtiques i antocèrotos. Institut d’Estudis Catalàn, Barcelona, Spain. 138 pp.
- ÇETIN, B. 1988. Checklist of liverworts of Turkey. *Lindbergia*, **14**: 12–14.
- CHAUDHARY, B. L., T. P. SHARMA, AND C. SANADHYA. 2006. Bryophyte flora of Gujarat (India). *Himanshu Publ., Udaipur, India*. 197 pp.
- CHOE, D. M. 1980. Illustrated Flora & Fauna of Korea. Vol 24. Musci–Hepaticae. Samhwa Publishing Co., Seoul. [Not seen]
- CHOE, D. M., AND H. H. CHOI. 1980. A list of bryophytes of Korea. *Rep. Sci. Educ., Kongju National Teacher’s College, Kongju (= J. Sci. Education)*, **12**: 27–56. [Not seen]
- CHOE, D. M., AND K. YAMADA. 1974. Check list of Korean Hepaticae. *Miscellanea Bryologica et Lichenologica*, **6**: 159–161. [Not seen]
- CHOPRA, R. S. 1943. A census catalogue of Indian Hepatics. *Journal of the Indian Botanical Society*, **22**: 237–259.
- CHUAH-PETIOT, M. S. 2003. Mosses, liverworts and hornworts of Kenya. Gérard Petiot, Nairobi. 273 pp.
- CHURCHILL, S. P., AND P. L. REDFEARN. 1978. Hepaticae and Anthocerotae of Nebraska. *Bryologist*, **80**[1977]: 640–645.
- CLARK, L., AND T. C. FRYE. 1928. The liverworts of the Northwest. *Publications of the Puget Sound Biological Station of the University of Washington*, **6**: 1–194.
- CLEAVITT, N. L. 2004. The bryophyte taxa of New Hampshire. *Evansia*, **21**: 49–75.
- COLACINO, C., AND M. SABOVLEVIĆ. 2006. Bryophyte flora of Albania: A preliminary check-list. *Cryptogamie, Bryologie*, **27**: 471–498.
- CONARD, H. S. 1942. The liverworts of Iowa. *Proceedings of the Iowa Academy of Sciences*, **49**: 191–195.
- . 1945. The Atracheata (Bryophyta) of Iowa. I. The species and their geographic distribution in the state. *Bryologist*, **48**: 70–82.
- . 1956. Mosses and liverworts of Iowa. *Proceedings of the Iowa Academy of Sciences*, **63**: 345–354.
- . 1957. Bryophytes of Saskatchewan. *Bryologist*, **60**: 338–343.
- CONKLIN, G. H. 1929. The Hepaticae of Wisconsin. *Transactions of the Wisconsin Academy of Sciences*, **24**: 197–247.
- . 1942. Hepaticae of Minnesota. *Bryologist*, **45**: 1–23.
- CORLEY, M. F. V., AND M. O. HILL. 1981. Distribution of Bryophytes in the British Isles. *British Bryological Society, Cardiff, United Kingdom*. 159 pp.
- CRAVEN, P. 1999. A checklist of Namibian plant species. *SABONET Rep.*, **7**: 1–204. [Not seen]
- CROPPER, S. C., D. A. TONKINSON, AND G. A. M. SCOTT. 1991. A census catalogue of Victorian bryophytes. National Parks & Public Land Division, Department of Conservation and Environment, Melbourne. [Not seen]
- CRUM, H. A., AND H. A. MILLER. 1956. Bryophytes from Guadalupe Island, Baja California. *Southwestern Naturalist*, **1**: 116–120.
- CUFONDOTIS, G. 1952. Enumeratio Plantarum Aethiopiae, II (Bryophyta: Hepaticae). *Phyton*, **4**: 72–82.
- CZIKOVANI, N. V. 1986. Flora Sporovych Rastenij Gruzii. Bryophyta, pp. 786–851. *In* Nachucrisvili, I. G., ed., *Flora Sporovych Rastenij Gruzii (konspekt)*. Mecnierva, Tblisi, Georgia [Gruziya].
- CZIKOVANI, N. V., AND T. SVANIDZE. 2004. Checklist of bryophyte species of Georgia. *Braun-Blanquetia*, **34**: 97–116.
- DAMSHOLT, K. 2002. Illustrated flora of Nordic liverworts and hornworts. *Nordic Bryological Society, Lund, Sweden*. 837 pp.
- DAMSHOLT, K., K. HOLMEN, AND E. WARNCKE. 1969. A list of the bryophytes of Denmark. *Botanisk Tidsskrift*, **65**: 163–183.
- DAUPHIN, G. 1999. Bryophytes of Cocos Island, Costa Rica: Diversity, biogeography and ecology. *Revista de Biologia Tropical*, **47**: 309–328.
- . 2005. Catalogue of Costa Rican Hepaticae and Anthocerotae. *Tropical Bryology*, **26**: 141–218.
- DAUPHIN, G., T. PÓCS, J. C. VILLAREAL, AND N. SALAZAR ALLEN. 2006. Nuevos registros de hepáticas y anthocerotófitas para Panamá. *Tropical Bryology*, **27**: 73–85.
- DEMARET, F. 1942. *Prodrome des Bryophytes du Congo-belge et du Ruanda-Burundi. II. Hepaticae.* *Bulletin du Jardin botanique de l’État à Bruxelles*, **16**: 287–310.
- DIA, M. G., G. MICELI, AND R. NOT. 1985. Check-list delle Epatiche in Sicilia. *Webbia*, **39**: 163–177.
- DIRKSE, G. M., A. C. BOUMAN, AND A. LOSADA-LIMA. 1993. Bryophytes of the Canary Islands, an annotated checklist. *Cryptogamie, Bryologie et Lichénologie*, **14**: 1–47.
- DIRKSE, G. M., H. J. DURING, AND H. SIEBEL. 1999. Standardlijst van de Nederlandse blad-, lever- en hauwmossen. *Buxbaumiella*, **49**: 68–128.

- DIRKSE, G. M., H. M. H. VAN MELICK, AND A. TOUW. 1989. Checklist of Dutch bryophytes. *Lindbergia*, **14**[1988]: 167–175.
- DOLE, E. J. 1928. The Hepaticae of Vermont. Vermont Botanical and Bird Clubs, Joint Bulletin, **13**: 28–62. [Not seen]
- DOYLE, W. T., AND R. E. STOTLER. 2006. Contributions toward a bryoflora of California III. Keys and annotated species catalogue for liverworts and hornworts. *Madroño*, **53**: 89–197.
- DRAGIČEVIĆ, S., AND M. VELJIĆ. 2006. Pregled mahovina Crne Gore. Podgorica, Montenegro. 99 pp.
- DÜLL, R. 1972. Vorläufige übersicht zur verbreitung der Lebermoose (Hepaticae) Deutschlands (BRD und DDR). *Herzogia*, **2**: 359–384.
- . 1979. Neue Übersicht zur Moosflora der Insel Kreta (Aegaeis). *Journal of Bryology*, **10**: 491–509.
- . 1983. Distribution of the European and Macaronesian liverworts (Hepaticophytina). *Bryologische Beiträge*, **2**: 1–114. **NOTE:** Treats Czechoslovakia and Yugoslavia in its former sense and uses different subdivisions of former Soviet Union than we do.
- . 1995. Übersicht der Moose Griechenlands. *Bryologische Beiträge*, **10**: 1–125.
- DÜLL, R., AND L. MEINUNGER. 1989. Deutschlands Moose. IDH-Verlag, Bad Münstereifel, Germany. 368 pp.
- EASA, P. S. 2003. Biodiversity documentation for Kerala. Part 4. Bryophytes. Kerala Forest Research Handbook, **17**: 1–47.
- EGGERS, J. 1982. Artenliste der Moose Makaronesiens. *Cryptogamie, Bryologie et Lichénologie*, **3**: 283–335.
- EL-OQLAH, A. A., W. FREY, AND H. KÜRSCHNER. 1988. The bryophyte flora of Trans-Jordan. A catalogue of species and floristic elements. *Willdenowia*, **18**: 253–279.
- ENGEL, J. J. 1990. Falkland Islands (Islas Malvinas) Hepaticae and Anthocerothophyta: A taxonomic and phytogeographic study. *Fieldiana, Botany*, **25**: 1–209.
- ERZBERGER, P., AND B. PAPP. 2004. Annotated checklist of Hungarian bryophytes. *Studia Botanica Hungarica*, **35**: 91–149.
- EVANS, A. W. 1902. Hepaticae, pp. 100–101. *In* Robinson, B. L., ed., *Flora of the Galapagos Islands*. Proceedings of the American Academy of Arts and Sciences, Vol. 38.
- . 1903a. Yukon Hepaticae. *Ottawa Naturalist*, **17**: 13–24.
- . 1903b. Preliminary list of New England plants. 11. Hepaticae. *Rhodora*, **5**: 170–173.
- . 1906. Hepaticae of Bermuda. *Bulletin of the Torrey Botanical Club*, **33**: 129–135.
- . 1911. Hepaticae of the Bahama Islands. *Bulletin of the Torrey Botanical Club*, **38**: 205–222.
- . 1913. Revised list of New England Hepaticae. *Rhodora*, **15**: 21–28.
- . 1915. Preliminary list of Colorado Hepaticae. *Bryologist*, **18**: 44–47.
- . 1917. Preliminary list of Arizona Hepaticae. *Bryologist*, **20**: 60–62.
- . 1918. Hepaticae. Liverworts, pp. 448–469. *In* Britton, N. L., ed., *Flora of Bermuda*. Charles Scribner's Sons, New York.
- . 1923. Second revised list of New England Hepaticae. *Rhodora*, **25**: 192–199.
- . 1924. Report on the Hepaticae of Nebraska. *Bryologist*, **27**: 49–52.
- . 1940. List of Hepaticae found in the United States, Canada, and Arctic America. *Bryologist*, **43**: 133–138.
- EVANS, A. W., AND G. E. NICHOLS. 1908. The bryophytes of Connecticut. Connecticut State Geological and Natural History Survey Bulletin, **11**: 1–203.
- EYERDAM, W. J. 1952. Alaskan and Aleutian Island hepatics. *Bryologist*, **55**: 26–35.
- FANG, Y.-M., J. ENROTH, T. KOPONEN, AND S. PIIPPO. 1998. The bryophytes of Jianxi province, China: An annotated checklist. *Hikobia*, **12**: 343–363.
- FAUBERT, J. 2007. Catalogue des bryophytes du Québec et du Labrador. *Provancheria*, **30**: 1–138.
- FAVREAU, M., AND G. BRASSARD. 1988. Catalogue bibliographique des bryophytes du Québec et du Labrador. Memorial University of Newfoundland, Occasional Papers in Biology, **12**: 1–114.
- FISCHER, E. 1993. Taxonomic results of the BRYOTROP expedition to Zaire and Rwanda. 4. A preliminary check-list of the Hepaticae and Anthocerotae from Central Africa (Zaire, Rwanda, Burundi). *Tropical Bryology*, **8**: 39–50.
- FLOWERS, S. 1945. Utah Hepaticae. *Bryologist*, **48**: 8–11.
- . 1954. Liverworts of Utah. Proceedings of the Utah Academy of Sciences, Arts and Letters, **31**: 93–100.
- . 1961. The Hepaticae of Utah. University of Utah Biological Series, **12**(2): 1–89.
- FOSBERG, F. R., AND W. L. KLAWE. 1966. Preliminary list of plants from Cocos Island, pp. 187–189. *In* Bowman, R. I., ed., *The Galapagos: Proceedings of the Symposia of the Galapagos International Scientific Project*. University of California Press, Berkeley and Los Angeles.
- FOUCAULT, B. 1977. Flore des bryophytes de Guadeloupe. Office National de Forêts, Basse-Terre, Guadeloupe. 111 pp.
- FRAHM, J.-P. 2005. An evaluation of the bryophyte flora of the Azores. *Tropical Bryology*, **26**: 57–79.
- FRAHM, J.-P., AND W. FREY. 1983. Moosflora. Ulmer, Stuttgart. 522 pp.
- FRAHM, J.-P., AND M. HÄUSLER. 2007. A comparison of the bryofloras of the Macaronesian Islands. *Tropical Bryology*, **28**[2006]: 91–101.
- FRAHM, J.-P., A. LINDLAR, P. SOLLMAN, AND E. FISCHER. 1996. Bryophytes of the Cape Verde Islands. *Tropical Bryology*, **12**: 123–154.
- FREY, W. 1974. Die Lebermoose des Iran und Afghanistans. *Bryologist*, **77**: 48–56.
- FREY, W., J.-P. FRAHM, E. FISCHER, AND W. LOBIN. 1995. Kleine Kryptogamenflora Band VI. Die Moos- und Farnpflanzen Europas. 6. Aufl. Gustav Fischer Verlag, Stuttgart, Jena & New York. 425 pp.
- FREY, W., AND H. KÜRSCHNER. 1988. Bryophytes of the Arabian Peninsula and Socotra. Studies in Arabian bryophytes 12. *Nova Hedwigia*, **46**: 37–120.
- . 1991. Conspectus Bryophytorum Orientalum et Arabicorum. *Bryophytorum Bibliotheca*, **39**: 1–181.

- FRISVOLL, A. A., A. ELVEBAKK, K. I. FLATBERG, R. HALVORSEN, AND A. SKOGEN. 1984. Norske navn på moser. Polarflommen, **8**: 1–59.
- FRISVOLL, A. A., A. ELVEBAKK, K. I. FLATBERG, AND R. H. ØKLAND. 1995. Sjekkliste over norske mosar. NINA Temahefte, **4**: 1–104.
- FRYE, T. C., AND L. CLARK. 1937–1947. Hepaticae of North America, I–V. University of Washington Publications in Biology, **6**: 1–161, 1937. Part II: 163–336, 1943. Part III: 337–564, 1945. Part IV: 565–733, 1946. Part V: 735–1022, 1947.
- FULFORD, M. 1934. List of Hepaticae of Kentucky. Bryologist, **37**: 21–28.
- . 1936. Additions to the list of Hepaticae of Kentucky. I. Bryologist, **39**: 119–122. **NOTE**: Updates Fulford (1934).
- . 1959. Hepaticae, p. 118. In Yuncker, T., ed., Plants of Tonga. Bernice P. Bishop Museum, Bulletin, Vol. 220.
- . 1984. Some Hepaticae from St. Vincent Islands. Notes and additions to the Hepaticae Elliottianae by R. Spruce in 1895. Cryptogamie, Bryologie et Lichénologie, **5**: 143–150. **NOTE**: Only leafy hepatics, adding to the list by Spruce (1895).
- . 1987. Leafy hepaticae of Dominica: Additions to the Hepaticae Elliottianae by Richard Spruce in 1895. Memoirs of the New York Botanical Garden, **45**: 164–278. **NOTE**: Only leafy hepatics, adding to the list by Spruce (1895).
- FULFORD, M., AND A. J. SHARP. 1990. The leafy Hepaticae of Mexico: One hundred and twenty-seven years after C. M. Gottsche. Memoirs of the New York Botanical Garden, **63**: 1–86. **NOTE**: Only leafy hepatics but giving the records by province.
- FURUKI, T. 1997. Hepaticae and Anthocerotae of the Iwo (Volcano) Islands, northwestern Micronesia. Journal of the Natural History Museum and Institute, Chiba, **4**: 101–109.
- FURUKI, T., AND M. MIZUTANI. 1994. Checklist of Japanese Hepaticae and Anthocerotae, 1993. Proceedings of the Bryological Society of Japan, **6**: 75–83. **NOTE**: Incl. Ryukyu, Bonin, and Volcano Islands.
- . 1995. Supplements of “Checklist of Hepaticae and Anthocerotae, 1993.” Proceedings of the Bryological Society of Japan, **6**: 141–142. **NOTE**: Includes Ryukyu, Bonin, and Volcano Islands. Updates Furuki & Mizutani (1994).
- . 2004. Checklist of Japanese Hepaticae and Anthocerotae. Bryological Research, **8**: 296–316. **NOTE**: Includes Ryukyu, Bonin, and Volcano Islands.
- GABRIEL, R., E. SJÖGREN, R. SCHUMACKER, C. SÉRGIO, J.-P. FRAHM, AND E. SOUSA. 2005. Lista dos briófitos (Bryophyta) [List of bryophytes (Bryophyta)], pp. 117–129. In Borges, P. A. V., R. Cunha, R. Gabriel, A. F. Martins, L. Silva, and V. Vieira, eds., Listagem da Fauna (Mollusca e Arthropoda) e Flora (Bryophyta, Pteridophyta e Spermatophyta) Terrestres dos Açores [A list of terrestrial fauna (Mollusca and Arthropoda) and flora (Bryophyta, Pteridophyta and Spermatophyta) from the Azores] B. Angra do Heroísmo: Direcção Regional do Ambiente e Universidade dos Açores, Horta, Angra do Heroísmo e Ponta Delgada Azores (Portugal).
- GANEVA, A., AND R. DÜLL. 1999. A contribution to the Bulgarian bryoflora containing a new checklist and the results of some excursions. Checklist of Bulgarian bryophytes, pp. 111–179. In Düll, R., A. Ganeva, A. Martinčić, and Z. Pavletic, eds., Contributions to the Bryoflora of Former Yugoslavia and Bulgaria. IDH-Verlag, Bad Münstereifel, Germany. [Not seen]
- GANEVA, A., AND R. NATCHEVA. 2003. Check-list of the bryophytes of Bulgaria with data on their distribution. I. Hepaticae and Anthocerotae. Cryptogamie, Bryologie, **24**: 229–239.
- GAO, C., AND T. CAO. 2001. Flora Yunnanica 17 (Bryophyta: Hepaticae, Anthocerotae). Science Press, Beijing. 650 pp. [Not seen]
- GAO, C., AND K. C. CHANG. 1981. Flora hepaticarum Chinae boreali-orientalis. Science Press, Beijing. 220 pp.
- GIER, L. J. 1955. Missouri Bryophytes. Transactions of the Kansas Academy of Science, **58**: 24–49.
- GLENNY, D. 1998. A revised checklist of New Zealand liverworts and hornworts. Tuhiinga, **10**: 119–149. **NOTE**: Includes New Zealand, Kermadec, Chatham Island, and the Antipodean Islands.
- GÖKLER, I., AND M. ÖZTÜRK. 1991. Liverworts of Turkey and their position in South-West Asia. Candollea, **46**: 359–366.
- . 1996. Liverworts of Turkish Thrace. Bocconea, **5**: 319–323.
- GÖKLER, I., M. ÖZTÜRK, AND T. KESERCIOĞLU. 1985. Checklist of liverworts (Hepaticae) recorded from Turkey. Journal of the Faculty of Science, Ege University, **8**: 1–10. [Not seen]
- GRADSTEIN, S. R. 1977. Lijst van de in Nederland voorkomende Levermossen. Lindbergia, **4**: 151–156.
- . 1989. A key to the Hepaticae and Anthocerotae of Puerto Rico and the Virgin Islands. Bryologist, **92**: 329–348.
- . 1995. Los briófitos de las Islas Galápagos. Palmengarten Sonderheft **22**: 59–63. [Not seen]
- . 1999. Hepatics, pp. 65–73. In Luteyn, J. L., ed., Páramos, a Checklist of Plant Diversity, Geographical Distribution and Botanical Literature). Memoirs of the New York Botanical Garden, Vol. 84. **NOTE**: Only from higher altitudes.
- GRADSTEIN, S. R., AND COSTA, D. P. 2003. The hepaticae and Anthocerotae of Brazil. Memoirs of the New York Botanical Garden, **87**: 1–316.
- GRADSTEIN, S. R., AND W. H. A. HEKKING. 1979. Studies on Colombian Cryptogams IV. A catalogue of the Hepaticae of Colombia. Journal of the Hattori Botanical Laboratory, **45**: 93–144.
- . 1989. A catalogue of the bryophytes of the Guianas. I. Hepaticae and Anthocerotae. Journal of the Hattori Botanical Laboratory, **66**: 197–230.
- GRADSTEIN, S. R., AND H. H. MELICK. 1996. De Nederlandse Levermossen en Hauwmossen. Stichting Uitgeverij van de Koninklijke Nederlandse Natuurhistorische Vereniging, Utrecht, The Netherlands. 366 pp.
- GRADSTEIN, S. R., R. I. MENESES, AND B. A. ARBE. 2003. Catalogue of the Hepaticae and Anthocerotae of Bolivia. Journal of the Hattori Botanical Laboratory, **93**: 1–67.
- GRADSTEIN, S. R., B. TAN, R. L. ZHU, B.-C. HO, C. KING, C. DRÜBERT, AND R. PITOPANG. 2005. A catalogue of the bryophytes of Sulawesi, Indonesia. Journal of the Hattori Botanical Laboratory, **98**: 213–257.

- GRADSTEIN, S. R., J. URIBE, A. ACEBEY, C. BOCK, AND T. KRÖMER. 2006. Catalogue of the Plants of Colombia: Marchantiophyta, pp. 1–786. *In* Bernal, R., S. R. Gradstein, and M. Celis, eds., *Catálogo de las Plantas de Colombia, Version Preliminar, Vol. 1 (Liquenes–Laxmanniaceae)*. Instituto de Ciencias Naturales, Bogotá, Colombia.
- GRADSTEIN, S. R., AND W. A. WEBER. 1982. Bryogeography of the Galapagos Islands. *Journal of the Hattori Botanical Laboratory*, **52**: 127–152.
- GROLLE, R. 1966. Die Lebermoose Nepals. *Ergebnisse des Forschungs–Unternehmens Nepal Himalaya*, **1**: 262–298.
- . 1971. Hepaticopsida, pp. 228–236. *In* Bakker, E. M. Z., J. M. Winterbottom, and R. A. Dyer, eds., *Marion and Prince Edward Islands. Report on the South African Biological and Geological Expedition 1965–1966*. Balkema, Cape Town, South Africa.
- . 1972a. Die Lebermoose der Crozet-Inseln (Subantarktis). *Lindbergia*, [1971]: 80–82.
- . 1972b. The hepatics of South Sandwich Islands and South Georgia. *Bulletin, British Antarctic Survey*, **28**: 83–95.
- . 1974. Nachtrag zu “Die Lebermoose Nepals,” pp. 117–120. *In* Hellmich, W., ed, *Khumbu Himal. Ergebnisse des Forschungs–Unternehmens Nepal Himalaya, Vol. 6*. **NOTE**: Updates Grolle (1966).
- . 1975. Lebermoose aus Kuba. I. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe*, **24**: 397–400.
- . 1976. Verzeichnis der Lebermoose Europas und benachbarter Gebiete. *Feddes Repertorium*, **87**: 171–279.
- . 1978. Die Lebermoose der Seychellen. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe*, **27**: 7–17.
- . 1980. Zur Kenntnis der Lebermoose von Samoa I. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe*, **29**: 637–648. **NOTE**: Only species A–L. List of species M–Z never published.
- . 1983. Hepatics of Europe including the Azores: An annotated list of species, with synonyms from the recent literature. *Journal of Bryology*, **12**: 403–459.
- . 1988. Verzeichnis der Lebermoose von Ascension Island nebst Beschreibung von *Cheilolejeunea ascensionis* (Hook. f. et Tayl.) Grolle, comb. nov. *Hausknechtia*, **4**: 43–49.
- . 1995. The Hepaticae and Anthocerotae of the East African Islands. An annotated catalogue. *Bryophytorum Bibliotheca*, **48**: 1–178.
- . 2002a. The Hepaticae and Anthocerotae of the subantarctic and temperate islands in the eastern Southern Hemisphere (90°E to 0°): An annotated catalogue. *Journal of Bryology*, **24**: 57–80.
- . 2002b. The hepaticae of Easter Island (Chile). *Bryologist*, **105**: 126–127.
- . 2002c. Addendum. The hepaticae of Easter Island (Chile). *Bryologist*, **105**: 299. **NOTE**: Updates Grolle (2002b).
- GROLLE, R., AND D. G. LONG. 2000. An annotated check-list of the Hepaticae and Anthocerotae of Europe and Macaronesia. *Journal of Bryology*, **22**: 103–140.
- GROLLE, R., AND S. PIIPPO. 1984a. Annotated catalogue of Western Melanesian bryophytes. I. Hepaticae and Anthocerotae. *Acta Botanica Fennica*, **125**: 1–86.
- . 1984b. Bryophyte flora of the Huon Peninsula, Papua New Guinea. V. Lepidoziaceae subfam. Zoopsoideae and Cephaloziaceae subfam. Schiffnerioideae (Hepaticae). *Annales Botanici Fennici*, **21**: 299–307.
- . 1986. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XVI. Pallaviciniaceae (Hepaticae). *Acta Botanica Fennica*, **133**: 59–79.
- . 1990. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXVII. *Leucolejeunea* (Lejeuneaceae, Hepaticae). *Annales Botanici Fennici*, **27**: 119–129.
- GROLLE, R., AND W. SCHULTZE-MOTEL. 1973. Vorläufige Verzeichnis der Lebermoose von Samoa. *Journal of the Hattori Botanical Laboratory*, **36**[1972]: 75–89.
- HAGUE, S. M. 1937. Illinois liverworts. *Transactions of the Illinois Academy of Science*, **30**: 118–124.
- HALLINGBÄCK, T., L. HEDENÄS, AND H. WEIBULL. 2006. Ny checklista för Sveriges mossor. *Svensk Botanisk Tidskrift*, **100**: 96–148.
- HALLINGBÄCK, T., AND L. SÖDERSTRÖM. 1987. Sveriges mossor och deras svenska namn. En kommenterad checklista. *Svensk Botanisk Tidskrift*, **81**: 357–38.
- HAMLIN, B. G. 1972. Hepaticae of New Zealand, parts I and II. Index of binomials and preliminary checklist. *Records of the Dominion Museum*, **7**: 243–366. **NOTE**: Area not clearly stated. North and South Island not separated and it is not clear if Kermadec, Chatham, and Antipodean Islands are included.
- . 1973. Hepaticae of New Zealand, Part III. Additions and corrections to the index of binomials. *Records of the Dominion Museum*, **8**: 139–152. **NOTE**: Area not clearly stated. North and South Island not separated and it is not clear if Kermadec, Chatham, and Antipodean Islands are included. Updates Hamlin (1972).
- . 1975. Hepaticae of New Zealand, part V. Further additions and corrections to the Index of Binomials. *Record, National Museum of New Zealand*, **5**: 87–89. **NOTE**: Area not clearly stated. North and South Island not separated and it is not clear if Kermadec, Chatham, and Antipodean Islands are included. Updates Hamlin (1972).
- HÄSSEL DE MENÉNDEZ, G. G. 1964. Nota sobre la briología del Uruguay (Hepaticae). *Revista del Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” e Instituto Nacional de Investigación de las Ciencias Naturales: Ciencias Botánicas*, **3**: 141–160.
- . 1977. Liverworts new to South Georgia. *Bulletin, British Antarctic Survey*, **46**: 99–108. **NOTE**: Updates Grolle (1972b).
- . 1980. Liverworts new to South Georgia II. *J. Bryol.*, **11**: 107–128. **NOTE**: Updates Grolle (1972b).
- HATTORI, S., AND S. PIIPPO. 1986. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XV. *Frullania* (Frullaniaceae, Hepaticae). *Acta Botanica Fennica*, **133**: 25–58.
- HENDERSON, D. M. 1961. Contributions to the bryophyte flora of Turkey. V. Summary of present knowledge. Notes from the Royal Botanic Garden, Edinburgh, **23**: 279–301.
- HENDERSON, D. M., AND H. PRENTICE. 1969. Contributions to the bryophyte flora of Turkey. VIII. Notes from the Royal Botanic Garden, Edinburgh, **29**: 235–262.

- . 1971. On the bryophyte flora of Norfolk. *Revue Bryologique et Lichénologique*, **37**[1970]: 657–661.
- HERAS, P., AND M. INFANTE. 1996. Bryophytes of the Republic of Equatorial Guinea (west-central Africa). I. Introduction and preliminary checklist. *Tropical Bryology*, **12**: 41–58.
- . 2001. Musgos y hepáticas de la República de Guinea Ecuatorial, pp. 145–169. *In* Aedo, C., ed., *Botánica y Botánicos en Guinea Ecuatorial*. Agencia Esp. Coop. Int., Madrid.
- HESSELBO, A. 1918. The bryophytes of Iceland. *Botany of Iceland*, **1**: 395–677.
- HICKS, M. L. 1992. *Guide to the liverworts of North Carolina*. Duke University Press, Durham, North Carolina. 239 pp.
- HILL, M. O., C. D. PRESTON, AND A. J. E. SMITH. 1991. *Atlas of the Bryophytes of Britain and Ireland*. Volume 1 Liverworts (Hepaticae and Anthocerotae). Harley Books, Colchester, United Kingdom. 351 pp.
- HODGSON, E. A. 1962. Hepaticae from the subantarctic islands of New Zealand including “Cape Expedition” collections from the Auckland and Campbell Islands. *Records of the Dominion Museum, Wellington*, **4**: 101–132.
- HOLLENSON, R. H. 1984. A checklist of the liverworts of Michigan. *Michigan Botanist*, **23**: 135–139.
- HOLYOAK, D. T. 2003. The distribution of bryophytes in Ireland. *Broadleaf Books*, Cardiff, United Kingdom. 564 pp.
- HONG, W. S. 1975. Leafy Hepaticae of Montana and phytogeographical relationships to neighboring states and provinces. *Bryologist*, **78**: 304–327. **NOTE**: Only leafy species.
- . 1976. An annotated checklist of the hepaticae of Idaho. *Bryologist*, **79**: 422–436.
- . 1977a. An annotated checklist of the hepaticae of Wyoming. *Bryologist*, **80**: 480–491.
- . 1977b. Thalloid hepaticae of Montana and phytogeographic relations to neighboring states and provinces. *Bryologist*, **80**: 270–278. **NOTE**: Only thalloid species.
- . 1978. A preliminary assessment of the hepatic flora of Oregon. *Bryologist*, **81**: 437–442.
- . 1998. The Hepaticae and Anthocerotae of the Korean peninsula: An annotated list of taxa. *Lindbergia*, **22**[1997]: 134–142.
- . 2002a. A key to the hepaticae of Montana. *Northwest Science*, **76**: 271–285.
- . 2002b. Checklist of liverworts and hornworts for the state of Washington based on literature reports. *Lindbergia*, **27**: 129–133.
- . 2003. The Hepaticae and Anthocerotae of the Korean Peninsula: Identification keys to the taxa. *Lindbergia*, **28**: 134–147.
- HONG, W. S., L. M. BLANKENSHIP, C. R. BURTON, AND J. E. HODGE. 1998. Checklist of the liverworts of Montana. *Lindbergia*, **23**: 86–90.
- HONG, W. S., AND D. H. VITT. 1977. Hepaticae of the Yukon Territory, Canada. *Bryologist*, **80**: 461–469.
- INGERPUU, N., A. KALDA, L. KANNUKENE, H. KRALL, M. LEIS, AND K. VELLAK. 1994. Eesti sammalde nimestik. *Abiks Loodusevaatl*, **94**: 1–175.
- INGERPUU, N., AND K. VELLAK. 1998. Eesti sammalde määraraja. *EpmüZBI, Eesti Loodusfoto*, Tartu, Estonia. 239 pp.
- INOUE, H. 1970. Bryophytes of the Bonin Islands and Volcano Islands, 2. A review of some hepatics previously reported. *Journal of the Hattori Botanical Laboratory*, **33**: 381–389.
- INOUE, H., AND Z. IWATSUKI. 1969. Bryophytes of the Bonin Islands and the Volcano Islands (1). *Bulletin of the National Science Museum Series B (Botany)*, **12**: 291–309.
- JACOBS, D. L. 1954. Liverworts of Georgia—an annotated list. *American Midland Naturalist*, **52**: 68–74.
- JELENC, F. 1950. Muscinées de l’Afrique du Nord (suite). *Bulletin Trimestriel de Géographie et d’Archeologie*. Oran, **73**: 59–89.
- JENSEN, C. 1915. *Danmarks Mosser*. I. Hepaticales, Anthocerotales og Sphagnales. Gyldendalske Boghandel, København, Denmark. 317 pp.
- JÓHANNSSON, B. 1983. A list of Icelandic bryophyte species. *Acta Naturalia Islandica*, **30**: 1–29.
- . 1998–2003. Íslenskir mosar Fjölrít Náttúrufræðistofnunar. **36**: 1–101, 1998; **38**: 1–108, 1999; **41**: 1–151, 2000; **42**: 1–100, 2001; **43**: 1–70, 2002; **44**: 1–135, 2003.
- JOHNSON, J. D. 1989. Additions to the Bryophyte Flora of Alberta, Saskatchewan, and Manitoba. *Canadian Field-Naturalist*, **103**: 497–458. **NOTE**: Updates Vitt (1977) and an unpublished checklist by Bird from 1973.
- JONES, E. W. 1969. Hepaticae, pp. 795–796. *In* Townsend, C. C., ed., *Bryophytes from Socotra*. *Transactions of the British Bryological Society*. Vol. 5.
- JONES, E. W., AND A. J. HARRINGTON. 1983. The hepatics of Sierra Leone and Ghana. *Bulletin of the British Museum (Natural History)*. *Botany*, **11**: 215–289.
- JØRGENSEN, E. 1934. *Norges Levermossor*. *Bergens Museums Skrifter*, **16**: 1–343.
- JOVET-AST, S. 1949. Les Hépatiques de Madagascar. *Mémoires de l’Institut Scientifique de Madagascar*. Série B. *Biologie Végétale*, **1**: 34–42.
- . 1955–1956. Hépatiques Marocaines—I. *Bulletin de la Société des Sciences Naturelles du Maroc*, **35**: 265–282, 1955; II. **36**: 43–60, 1956.
- . 1957. Hépatiques du Surinam. *Acta Botanica Neerlandica*, **6**: 602–608.
- JOVET-AST, S., AND H. BISCHLER. 1966. Les Hépatiques d’Israël: Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **34**: 91–126.
- . 1969. Les Hépatiques de Libye. Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **36**[1968]: 245–291.
- . 1970. Les Hépatiques d’Égypte et du Sinaï: Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **37**: 265–290.
- . 1972. Les Hépatiques de Tunisie. Énumération, notes écologiques et biogéographiques. *Revue Bryologique et Lichénologique*, **38**[1971]: 1–125.
- KAALAAAS, B. 1911. Bryophyten aus den Crozet-inseln. *Nyt Magazin for Naturvidenskaberne*, **49**: 81–98.
- KACHROO, P. 1969–1973. Hepaticae of India—A taxonomic survey and census I. Floristic and taxonomic considerations. *Kashmir Science*, **6**: 39–55, 1969; II. Takakiaceae through Marsupellaceae. *Kashmir Science*, **7**: 176–200, 1970; IV. Lejeuneaceae. *Bull. Bot. Surv. India* **12**: 226–241, 1970; III. Plagiochilaceae

- through Pleuroziaceae. *Journal of Science, University of Kashmir*, **1**: 141–161, 1973.
- KACHROO, P., K. R. BAPNA, AND G. L. DHAR. 1977. Hepaticae of India—A taxonomic survey and census V. Fossombroniaceae through Anthocerothae. *Journal of the Indian Botanical Society*, **56**: 62–86.
- KASHYAP, S. R. 1929. Liverworts of the western Himalayas and the Panjab plain (Illustrated) Part I. University of Panjab, Lahore, Pakistan. 129 pp. **NOTE**: Treats only part of present-day Pakistan.
- . 1932. Liverworts of the western Himalayas and the Panjab plain. Part I Supplement. University of Panjab, Lahore, Pakistan. 10 pp. **NOTE**: Treats only part of present-day Pakistan.
- KASHYAP, S. R., AND R. S. CHOPRA. 1932. Liverworts of Western Himalaya and Punjab Plain. II. University of Panjab, Lahore, Pakistan. 137 pp. **NOTE**: Treats only part of present-day Pakistan.
- KATTEL, L. P. 2002. Liverworts of Nepal (List & Reference). Mrs. Dambari Kattel, Katmandu, Nepal. 82 pp.
- KAUFFMAN, C. H. 1915. A preliminary list of the bryophytes of Michigan. *Annual Report of the Michigan Academy of Science*, **17**: 217–223.
- KIM, Y. H. 1991. Sporophyta in Korea. 8. Hepaticae. Publisher, Pyongyang, North Korea. [Not seen]
- KITAGAWA, N. 1963. Hepaticae of Sakhalin. *Acta Phytotaxonomica et Geobotanica*, **19**: 146–152.
- . 1964. Bryophytes of Afghanistan. Results of the Kyoto University Scientific Expedition to the Karakoram and Hindukush, 1955, **3**: 163–166. [Not seen]
- KOBISI, K. 2005. Preliminary checklist of plants of Lesotho. *SABONET Rep.*, **34**: 1–84.
- KOCH, L. 1961. Lousiana hepaticology. 1. List of species. *Bryologist*, **64**: 54–57.
- KONSTANTINOVA, N. A., AND A. D. POTEMKIN. 1996. Liverworts of the Russian arctic: An annotated check-list and bibliography. *Arctoa*, **6**: 125–150. **NOTE**: Only the Arctic with some geopolitical subdivisions.
- KONSTANTINOVA, N. A., A. D. POTEMKIN, AND R. N. SCHLJAKOV. 1992. Checklist of the Hepaticae and Anthocerotae of the former USSR. *Arctoa*, **1**: 87–127. **NOTE**: Covering former Soviet Union but with different subdivisions than used here. See Söderström et al. (2007) for a comparison.
- KOPONEN, T., P. ISOVIITA, AND T. LAMMES. 1977. The bryophytes of Finland: An annotated checklist. *Flora Fennica*, **6**: 1–77.
- KUBINSKÁ, A., K. JANOVIČOVÁ, AND V. PEČIAR. 1993. Súpis machorastov Slovenska [The checklist of bryophytes in Slovakia]. *Biológia, Bratislava*, **48**: 99–143.
- . 2001. Aktualizovaný zoznam pečenoviek, roztekov a machov Slovenska [Updated checklist of liverworts, hornworts and mosses of Slovakia]. *Bryonora*, **28**: 4–11. [Not seen]
- KUČERA, J., AND J. VÁŇA. 2003. Check- and Red List of bryophytes of the Czech Republic (2003). *Preslia*, **75**: 193–222.
- . 2005. Seznam a červený seznam mechorostů České republiky (2005). *Příroda*, **23**: 1–102.
- KÜHNEMANN, O. 1949. Catálogo de las hepáticas argentinas. Lilloa, **19**: 319–345. **NOTE**: List of Argentinian hepatics but not separated on provinces.
- KUO, C.-M., AND T.-Y. CHIANG. 1988. Index of Taiwan Hepaticae. *Taiwania*, **33**: 1–46.
- KÜRSCHNER, H. 2000. Bryophyte flora of the Arabian Peninsula and Socotra. *Bryophytorum Bibliotheca*, **55**: 1–131.
- KÜRSCHNER, H., AND A. ERDAĞ. 2005. Bryophytes of Turkey: An annotated reference list of the species with synonyms from the recent literature and an annotated list of Turkish bryological literature. *Turkish Journal of Botany*, **29**: 95–154.
- LAI, M.-J., AND J.-R. WANG-YANG. 1976. Index bryoflorae formosensis. *Taiwania*, **21**: 159–203.
- LANDWEHR, J. 1980. Atlas Nederlandse Levermossen. KNNV, Amsterdam, The Netherlands. 287 pp.
- LEÓN-YÁNEZ, S., S. R. GRADSTEIN, C. WEGNER. 2006. Hepáticas (Marchantiophyta) y Antoceros (Anthocerotophyta) del Ecuador. *Publicaciones del Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito*.
- LEPAGE, E. 1944–1945. Les Lichens, les mousses et les hépatiques du Québec. *Naturaliste Canadien*, **71**: 288–298, 1944; **72**: 40–52, 1945; **72**: 107–116, 1945; **72**: 148–156, 1945.
- . 1960. Premier supplément au catalogue des hépatiques du Québec. *Naturaliste Canadien*, **87**: 181–203.
- LI, X. J. 1985. Bryoflora of Xizang. Science Press, Beijing, 581 pp.
- LIN, S.-H. 2000. The liverwort flora of Taiwan. The Council of Agriculture, The Executive Yuan, Taipei. 432 pp. [Not seen]
- LIN, P.-J., Z. LI, P.-C. WU, AND Z.-H. LI. 1994. A survey of bryological research activities in Hainan, China. *Chenia*, **2**: 47–73.
- LITTLE, E. L. 1936. The liverworts of Oklahoma. *Bryologist*, **39**: 25–34.
- LONG, D. G. 1979. Hepaticae of Bhutan, East Himalaya. *Lindbergia*, **5**: 54–62.
- . 1987. Hepaticae and Anthocerotae of the Arabian Peninsula. *Studies in Arabian bryophytes* 10. *Nova Hedwigia*, **45**: 175–195.
- LONG, D. G., AND R. GROLLE. 1990. Hepaticae of Bhutan II. *Journal of the Hattori Botanical Laboratory*, **68**: 381–440.
- LOWE, C. D. 1943. List of the flowering plants, ferns, club mosses, mosses and liverworts of Manitoba. *Nat. Hist. Soc., Manitoba, Winnipeg, Canada*. 110 pp. [Not seen]
- LUDWIG, G., R. DÜLL, G. PHILIPPI, M. AHRENS, S. CASPARI, M. KOPERSKI, S. LÜTT, F. SCHULZ, AND G. SCHWAB. 1996. Rote Liste der Moose (Anthocerotophyta et Bryophyta) Deutschlands. *Schriftenreihe für Vegetationskunde*, **28**: 189–306.
- LYMAN, K. J. 1999. New state and county bryophyte reports for Wisconsin. *Evansia*, **16**: 149–151. **NOTE**: Updates Bowers & Freckman (1979).
- MACHADO GUIMARÃES, A. L. 1925. Sinopsis das briófitas de Portugal. I. Hepáticas. *Boletim da Sociedade Broteriana*, **3**: 5–86.
- MACOUN, J. 1902. Lichens and Hepaticae. *Catalogue of Canadian Plants*, **7**: 1–180.
- MAGILL, R. E., AND E. A. SCHELPE. 1979. The bryophytes of southern Africa. *Memoirs of the Botanical Survey of South Africa*, **43**: 1–38.
- MAHABALE, T. S., AND A. R. CHAVAN. 1954. The distribution of liverworts in Gujarat. *J. Maharaja Sayajirao Univ. Baroda*, **3**: 13–16. [Not seen]

- MANAKYAN, V. A. 1995. Results of bryological studies in Armenia. *Arctoa*, **5**: 15–33.
- MANYANGA, P., AND S. M. PEROLD. 2004. A checklist of Zimbabwian bryophytes. *SABONET Rep.*, **21**: 1–20.
- MARGADANT, W. D., AND H. J. DURING. 1982. Beknopte flora van Nederlandse Blad- en Levermossen. Thieme, Zutphen, The Netherlands. 517 pp.
- MARHOLD, K., AND F. HINDÁK. 1998. Zoznam nižších a vyšších rastlín Slovenska [Checklist of non-vascular plants of Slovakia]. *VEDA vudavateľ'stvo Slovenskej akadémie vied*, Bratislava, Slovakia. 687 pp. [Not seen]
- MCALLISTER, F., P. Y. HOGLUND, AND E. WHITEHOUSE. 1932. Catalogue of Texas Hepaticae. *Transactions of the Texas Academy of Science*, **15**: 39–58. [Not seen]
- MCCARTHY, P. M. 2003. Catalogue of Australian liverworts and hornworts. *Flora of Australia Supplemental Series*, **21**: 1–137.
- McFARLIN, J. B. 1940. A preliminary list of Florida hepatics. *Proceedings of the Florida Academy of Sciences*, **5**: 308–340.
- MCGREGOR, R. L. 1955. Taxonomy and ecology of Kansas Hepaticae. *University of Kansas Science Bulletin*, **37**: 55–141.
- MCKNIGHT, B. N. 1987. The bryophytes of Illinois: An annotated and indexed bibliography and checklist. *Illinois Natural History Survey Biological Notes*, **127**: 1–41.
- MCQUEEN, C. B. 1992. The Bryophytes of Vermont. *Evansia* **9**: 65–88.
- MENZEL, M. 1984. Katalog der Lebermoose von Peru. *Willdenowia*, **14**: 473–523.
- . 1988. Annotated catalogue of the Hepaticae and Anthocerotae of Borneo. *Journal of the Hattori Botanical Laboratory*, **65**: 145–206.
- MEYLAN, C. 1924. Les Hépatiques de la Suisse. *Beitr. Kryptogamenfl. Schweiz*, **6**(4): 1–318.
- MIES, B. 1994. Checkliste der Gefäßpflanzen, Moose und Flechten und botanische Bibliographie der Insel Sokotra und des Sokotrinischen Archipels (Jemen, Indischer Ozean). *Seckenbergiana Biologica*, **74**: 213–258. [Not seen]
- MIHAI, G. 1983. Lista hepaticelor din Republica Socialista Romania. *Analele științifice de Universități "Al. I. Cuza" din Iași*, ser. II, Iași, Romania.
- MILLER, H. A. 1960. A preliminary list of Micronesian Bryophytes. *Bryologist*, **63**: 116–125.
- . 1964. Ohio liverworts. *Ohio Journal of Science*, **64**: 177–184.
- MILLER, H. A., H. O. WHITTIER, AND C. E. B. BONNER. 1963. Bryoflora of the atolls of Micronesia. *Beihefte zur Nova Hedwigia*, **11**: 1–89.
- MILLER, H. A., H. O. WHITTIER, AND B. A. WHITTIER. 1983. *Prodromus Florae Hepaticarum Polynesiae*. *Bryophytorum Bibliotheca*, **25**: 1–423.
- MISHLER, B. D., AND N. G. MILLER. 1983. Distributional studies of Massachusetts bryophytes. *Rhodora*, **85**: 421–431. **NOTE**: Updates Evans (1923).
- MIZUTANI, M., AND S. HATTORI. 1969. Checklist of Japanese Hepaticae and Anthocerotae. *Miscellanea Bryologica et Lichenologica*, **5**: 33–43. **NOTE**: Incl. Ryukyu, Bonin, and Volcano Islands.
- MOHAN, G. 1971. Catalogul briofitelor. *Muzeul de Științele Naturii Ploiești*, **1971**: 3–27.
- . 1984. Briofite. *Universitatea din București, Grădina Botanică, București, Romania*. 643 pp.
- . 1998. Catalogul briofitelor din România. *Lucr. Grăd. Bot. București*, **1998**: 1–432.
- MORALES, M. I. 1991. Las Hepaticas comunicadas para Costa Rica. *Tropical Bryology*, **4**: 25–57.
- MOSCAL, A., AND J. B. KIRKPATRICK. 1997. Atlas of mosses and liverworts in Tasmania. *Tasmanian Conservation Trust*, Hobart, Tasmania, Australia. [Not seen]
- MUHLE, H. 1986. Liste der von den Kapverdischen Inseln beschrieben Taxa von Moosen (Hepaticae & Musci). *Courier Forschungsinst. Senckenberg*, **81**: 89–92. [Not seen]
- MÜLLER, K. 1910–1916. *Die Lebermoose Deutschlands, Oesterreichs und der Schweiz*. Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, VI Band 2nd ed. Eduard Kummer, Leipzig, Germany.
- . 1951–1958. *Die Lebermoose Europas*. Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz, VI Band, 3rd ed. Akademische Verlagsgesellschaft, Leipzig, Germany.
- NAJAULIS, J., N. KALINAUSKAITĖ, AND M. GRINEVICIENĖ. 1995. Vaduvas Lietuvos kerpsamanems pažinti. *Leidykla "Žodynas"*. Vilnius, Lithuania. 243 pp.
- NICHOLS, G. E. 1916. The bryophytes of Nova Scotia, with special reference to Cape Breton. *Bryologist*, **19**: 38–47.
- . 1922. The bryophytes of Michigan with particular reference to the Douglas Lake region. *Bryologist*, **25**: 41–58.
- . 1925. The bryophytes of Michigan with particular reference to the Douglas Lake region. II. *Bryologist*, **28**: 73–75. **NOTE**: Updates Nichols (1922).
- . 1933. Notes on Michigan bryophytes. II. *Bryologist*, **36**: 69–78. **NOTE**: Updates Nichols (1922).
- . 1935. The bryophytes of Michigan with special reference to the Huron Mountain region. *Bryologist*, **38**: 11–19. **NOTE**: Updates Nichols (1922).
- . 1936. Notes on Michigan bryophytes. III. *Bryologist*, **39**: 111–118. **NOTE**: Updates Nichols (1922).
- NYUSHKO, T. I., AND A. D. POTEMKIN. 2005. [Liverworts of Sakhalin and Kuril Islands: Present state of knowledge], pp. 135–142. *In* Afonina, O. M., A. D. Potemkin, and I. V. Czernyadjeva, eds., *Proceedings of the international meeting devoted to the 90th anniversary of A. L. Abramova*. Komarov' Bot. Inst. St. Petersburg.
- OCHYRA, R., AND J. VÁŇA. 1989. The hepatics reported from the Antarctic and an outline of their phytogeography. *Polish Polar Research*, **10**: 211–229.
- ONRAEDT, M. 1981. Bryophytes récoltées a Sri Lanka (Ceylon). V. *Journal of the Hattori Botanical Laboratory*, **50**: 191–216. **NOTE**: Reports only Onraedt's collections but constitute a major update to Abeywickrama & Jansen (1978).
- ORBÁN, S., AND L. VAJDA. 1983. *Magyarország Mohaflórájának kézikönyve* (A handbook of the Hungarian Moss flora). Akademia Kiadó, Budapest. 519 pp.
- O'SHEA, B. J. 1993. British Bryological Society expedition to Mulanje Mountain, Malawi. 2. Checklist of Malawi bryophytes. *Journal of Bryology*, **17**: 645–670.

- PAGÁN, F. M. 1939. A preliminary list of the hepaticae of Puerto Rico including Vieques and Mona Island. *Bryologist*, **42**: 1–12, 37–50, 71–82.
- . 1942. Catalogue of the hepaticae of Guadeloupe. *Bryologist*, **45**: 76–110.
- PAPP, C. 1967. Briofitele din Republica Socialistă Romania (Determinator). *Analele științifice de Universități “Al. I. Cuza” din Iași, Romania*. 319 pp.
- PARIHAR, N. S. 1962. An annotated revised census of Indian hepatics. Allahabad University Study, Allahabad, India. 56 pp.
- . 1994. Hepatics and Anthocerotae of India. A new annotated checklist. Indian University Press, Allahabad, India. [Not seen]
- PARKER, D. 1938. The hepaticae of Indiana. *Bryologist*, **41**: 41–46.
- PARTYKA, L. Y. 2005. Brioflora Kryma. Phytosociocentre, Kiev. 170 pp.
- PATON, J. A. 1999. The liverwort flora of the British Isles. Harley Books, Colchester, United Kingdom. 626 pp.
- PATTERSON, P. M. 1949. The bryophytes of Virginia. I. Bryophytes reported in literature. *Castanea*, **14**: 1–49.
- . 1950. The bryophytes of Virginia. II. New or noteworthy records. *Bryologist*, **53**: 27–42. **NOTE**: Updates Patterson (1950).
- . 1951. The bryophytes of Virginia. III. Collections made in southeastern Virginia by Bayad Long. *Rhodora*, **53**: 116–128. **NOTE**: Updates Patterson (1950).
- . 1955. The bryophytes of Virginia. IV. New or noteworthy records. II. *Bryologist*, **58**: 215–225. **NOTE**: Updates Patterson (1950).
- PAVLETIĆ, Z. 1955. Prodomus Flore Briofita Jugoslavije. Jugoslavenska Akademija Znanosti i Umjetnosti. 578 pp.
- . 1968. Flora Mahovina Jugoslavije. Botanički zavod, Sveucilista u Zagrebu, 431 pp.
- PAVLETIĆ, Z., AND A. MARTINČIĆ. 1999. A contribution to the Yugoslavian bryoflora containing a new checklist and the results of some excursions. Checklist of the Yugoslavian bryophytes, pp. 1–94. *In* Düll R., A. Ganeva, A. Martinčić, and Z. Pavletic, eds., Contributions to the Bryoflora of Former Yugoslavia and Bulgaria. IDH-Verlag, Bad Münstereifel, Germany. [Not seen]
- PENG, C.-L., J. ENROTH, T. KOPONEN, AND S. PIIPPO. 2000. The bryophytes of Hubei Province, China: An annotated checklist. *Hikobia*, **13**: 195–212.
- PEROLD, S. M. 2003. Hepatophyta, pp. 39–61. *In* Germishuizen, G., and N. L. Meyer, eds., Plants of Southern Africa: An annotated checklist. Strelitzia, Vol. 14.
- PEROLD, S. M., AND J. VAN ROOY. 1993. Bryophyta. *In* Plants of Southern Africa: names and distribution. Memoirs of the Botanical Survey of South Africa, **62**: 4–46.
- PETROV, S. 1975. Bryophyta Bulgaria clavis diagnostica in aedibus. Academia Scientarum Bulgaria, Sofia, Bulgaria. 536 pp.
- PIIPPO, S. 1984a. Bryophyte flora of the Huon Peninsula, Papua New Guinea. III. Haplomitriaceae, Lepicoleaceae, Herbertaceae, Pseudolepicoleaceae, Trichocoleaceae, Schistochilaceae, Balantiopsaceae, Pleuropziaceae and Porellaceae (Hepaticae). *Annales Botanici Fennici*, **21**: 21–48.
- . 1984b. Bryophyte flora of the Huon Peninsula, Papua New Guinea. VI. Lepidoziaceae subfam. Lepidozioidae, Calypogeiaceae, Adelanthaceae, Cephaloziaceae subfam. Cephalozioidae and subfam. Odontoschismatoideae and Jubulaceae (Hepaticae). *Annales Botanici Fennici*, **21**: 309–335.
- . 1985a. Bryophyte flora of the Huon Peninsula, Papua New Guinea. X. Jackiellaceae, Scapaniaceae, Arnelliaceae and Acrobolbaceae (Hepaticae). *Acta Botanica Fennica*, **131**: 89–97.
- . 1985b. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XII. Geocalyceae (Hepaticae). *Acta Botanica Fennica*, **131**: 129–167.
- . 1985c. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XIII. Arachniopsid and Kurzia (Lepidoziaceae subfam. Lepidozioidae, Hepaticae). *Acta Botanica Fennica*, **131**: 169–179.
- . 1988a. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXIII. Treubiaceae, Allisoniaceae and Makinoaceae (Metzgeriales, Hepaticae). *Annales Botanici Fennici*, **25**: 159–164.
- . Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXI. *Lepicolea norrisii* (Lepicoleaceae, Hepaticae). *Annales Botanici Fennici*, **25**: 55–57.
- . Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXII. Targioniaceae, Wiesnerellaceae, Ayttoniaceae and Ricciaceae (Marchantiales, Hepaticae). *Annales Botanici Fennici*, **25**: 97–107.
- . 1989a. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXX. Plagiochilaceae (Hepaticae). *Annales Botanici Fennici*, **26**: 183–236.
- . 1989b. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXI. Cephaloziaceae subfam. Alobielloideae, Cephaloziellaceae, Antheliaceae and Lophoziaceae (Hepaticae). *Annales Botanici Fennici*, **26**: 263–290.
- . Annotated catalogue of Chinese Hepaticae and Anthocerotae. *Journal of the Hattori Botanical Laboratory*, **68**: 1–192.
- . Bryophyte Flora of the Huon Peninsula, Papua New Guinea. XXXIV. Key to the Genera of Western Melanesian Hepaticae and Anthocerotae. *Annales Botanici Fennici*, **27**: 13–18.
- . Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXIX. *Fossombronia* (Fossombroniaceae) and Metzgeria (Metzgeriaceae). *Annales Botanici Fennici*, **143**: 1–22.
- . Bryophyte flora of the Huon Peninsula, Papua New Guinea. XLIX. *Targionia* (Targioniaceae, Hepaticae). *Annales Botanici Fennici*, **28**: 273–276.
- . Bryophyte flora of the Huon Peninsula, Papua New Guinea. XL. *Acromastigium* and *Hygrolembidium* (Lepidoziaceae subfam. Bazzanioidae and Lembidioidae, Hepaticae). *Acta Botanica Fennica*, **143**: 23–34.
- PIIPPO, S., X.-L. HE, A. JUSLÉN, B. C. TAN, D. H. MURPHY, AND T. PÓCS. 2002. Hepatic and hornwort flora of Singapore. *Annales Botanici Fennici*, **39**: 101–128.
- PIIPPO, S., X.-L. HE, AND T. KOPONEN. 1997. Hepatics of northwestern Sichuan, China, with a checklist of Sichuan hepatics. *Annales Botanici Fennici*, **34**: 51–64.
- PIIPPO, S., X.-L. HE, T. KOPONEN, P. REDFEARN, AND J.-X. LI. 1998. Hepaticae from Yunnan, China, with a checklist of Yunnan Hepaticae and Anthocerotae.

- Journal of the Hattori Botanical Laboratory, **84**: 135–158.
- PÓCS, T. 1965. Prodrome de la bryoflore du Vietnam. Egri Tanárképző Főiskola Tudományos közleményei, **3**: 453–495.
- PÓCS, T., M. MIZUTANI, AND S. PIIPPO. 1994. Bryophyte Flora of the Huon Peninsula, Papua-New-Guinea LXV. Preliminary Contributions on Lejeuneaceae (Hepaticae).1. Annales Botanici Fennici, **31**: 179–190.
- PÓCS, T., AND S. PIIPPO. 1999. Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXIV. *Aphanolejeunea* (Lejeuneaceae, Hepaticae). Acta Botanica Fennica, **165**: 85–102.
- POCS, T., S. PIIPPO, AND M. MIZUTANI. 1995. Bryophyte Flora of the Huon Peninsula, Papua New Guinea. LVI. Preliminary contributions on Lejeuneaceae (Hepaticae) 2. Annales Botanici Fennici, **32**: 259–268.
- PÓCS, T., P. TIXIER, AND S. JOVET-AST. 1967. Adatok Észak-Vietnam mohafldrájához. II. Seconde contribution à la bryoflore du Nord Vietnam. Botanikai Közlemények, **54**: 27–38. **NOTE**: Updates Pócs (1965).
- POLUNIN, N. 1947. Hepaticae. In Botany of the Canadian Eastern Arctic. II. Thallophyta and Bryophyta. Bulletin of the National Museum of Canada, **97**: 491–512.
- PORTER, C. L. 1933–1935. The bryophytes of Wyoming. Bryologist, **36**: 5–8, 1933; **38**: 101–114, 1935.
- PORTER, T. C. 1904. Catalogue of the Bryophyta and Pterophyta found in Pennsylvania. Ginn and Company, Boston, Massachusetts. 66 pp. [Not seen]
- POTEMKIN, A. D. 2000. An updated list of liverworts of the Severnaya Zemlya Archipelago (East Siberian High Arctic) with description of a new species, *Scapania matveyevae*. Arctoa, **9**: 95–100.
- PRESTON, C. D. 1981. A check-list of Greek liverworts. Journal of Bryology, **11**: 537–553.
- . 1984. A check-list of Greek liverworts: Addendum. Journal of Bryology, **13**: 97–100. **NOTE**: Updates Preston (1981).
- RAO, P.-C., J. ENROTH, S. PIIPPO, AND T. KOPONEN. 1997. The bryophytes of Hunan Province, China. Hikobia, **12**: 181–203.
- RATKOWSKY, D. A. 1987. Check-list of the Tasmanian liverworts. Papers and Proceedings of the Royal Society of Tasmania, **121**: 153–158.
- REDFEARN, P. L. 1964. Bryophytes of Missouri IX. Additions to the flora. Bryologist, **67**: 201–203.
- REJMENT-GROCHOWSKA, I. 1966. Bryophyta 1. Hepaticae. Państwowe Wydawnictwo Naukowe, Warsaw. 257 pp.
- . 1971. Bryophyta 2. Hepaticae. Watrobowce Flora Slodkowodna Polski 17, 334 pp.
- RODWAY, L. 1917. Tasmanian Bryophyta. II. Hepatics. Papers and Proceedings of the Royal Society of Tasmania, **1916**: 51–143.
- ROS, R. M., M. J. CANO, AND J. GUERRA. 1999. Bryophyte checklist of Northern Africa. Journal of Bryology, **21**: 207–244.
- ROS, R. M., V. MAZIMPAKA, U. ABOU-SALAMA, M. ALEFFI, T. L. BLOCKEEL, M. BRUGUÉS, M. J. CANO, R. M. CROS, M. G. DIA, G. M. DIRKSE, W. EL SAADAWI, A. ERDAĞ, A. GANEVA, J. M. GONZÁLEZ-MANCEBO, I. HERRNSTADT, K. KHALIL, H. KÜRSCHNER, E. LANFRANCO, A. LOSADA-LIMA, M. S. REFAI, S. RODRÍGUEZ-NUÑEZ, M. SABOVLJEVIĆ, C. SÉRGIO, H. SHABBARA, M. SIM-SIM, AND L. SÖDERSTRÖM. 2007. Hepatics and Anthocerotae of the Mediterranean, an annotated checklist. Cryptogamie, Bryologie, **28**: 351–437. **NOTE**: Turkey also include the European part and Egypt include Sinai.
- RUSSELL, S., AND J. VAN ROOY. 1988. The bryoflora of Namibia. Monographs in Systematic Botany from the Missouri Botanical Garden, **25**: 453–460.
- SABINO DE FREITAS, S. J. 1944. Inventário das Hepáticas conhecidas actualmente em Portugal continental. Brotéria, **13**: 217–229. [Not seen]
- SABOVLJEVIĆ, M. 2000. Checklist of hepatics of the Federal Republic of Yugoslavia. Lindbergia, **25**: 128–133.
- SABOVLJEVIĆ, M., T. CVETIĆ, AND V. STEVANOVIĆ. 2004. Bryophyte Red List of Serbia and Montenegro. Biodiversity & Conservation, **13**: 1781–1790.
- SABOVLJEVIĆ, M., AND R. NATCHEVA. 2006. A checklist of the liverworts and hornworts of Southeast Europe. Phytologia Balcanica, **12**: 169–180. **NOTE**: Greece includes Crete.
- SCHIFFNER, V. 1900. Dei Hepaticae die Flora von Buitenzorg. I. Band. Enthald dei beschreibung aller bisher aus Java bekannt geworden Ricciaceae, Marchantiaceae, Jungermaniaceae anakrogynae und Jungermaniaceae akrogynae Unterfam. Epigoni-antheae. Brill, Leiden. 220 pp. **NOTE**: Does not include all species but is still the most complete treatment!
- SCHLJAKOV, R. N. 1976–1982. Petjenotj'e Mchi Severa SSSR. Vol. 1–5. Akademia Nauk SSSR, Leningrad, Russia.
- SCHNYDER, N., A. BERGAMINI, H. HOFMANN, N. MÜLLER, C. SCHUBIGER-BOSSARD, AND E. URMI. 2004. Rote Liste der gefährdeten Moose der Schweiz. Hrsg. BUWAL, FUB & NISM, Bern. Vollzug Umwelt, BUWAL–Reihe, Switzerland. 99 pp.
- SCHOFIELD, W. B. 1968. A checklist of Hepaticae and Anthocerotae of British Columbia. Sysesis, **1**: 159–162.
- SCHUMACKER, R. 2001. The hepatic flora of the Azores: Brief historical outline, present knowledge, endemics and phytogeographical aspects. Belgian Journal of Botany, **134**: 51–53.
- SCHUMACKER, R., AND J. VAÑA. 2000. Identification keys to the liverworts and hornworts of Europe and Macaronesia. Documentales de la Station Scientifique des Haute-Fagners, **31**: 1–151. **NOTE**: Treats Czechoslovakia and Yugoslavia in their former sense and uses different subdivisions of former Soviet Union than we do.
- . 2005. Identification keys to the liverworts and hornworts of Europe and Macaronesia, 2nd ed. Sorus, Poznań, Poland. 209 pp. **NOTE**: Treats Czechoslovakia and Yugoslavia in their former sense and uses different subdivisions of former Soviet Union than we do.
- SCHUMACKER, R., P. DE ZUTTERE, AND J. WERNER. 1985. List of bryophytes de Belgique et du Grand-Duché de Luxembourg. Dumortiera, suppl. **31**: 1–2.
- SCHUSTER, R. M. 1953. Boreal Hepaticae. A manual of liverworts of Minnesota and Adjacent Regions. American Midland Naturalist, **49**: 257–684.
- . 1966–1992. The Hepaticae and Anthocerotae of North America. vol. I–VI. New York: Columbia

- University Press & Chicago: Field Museum of Natural History.
- . 1988. The Hepaticae of South Greenland. *Beihefte zur Nova Hedwigia*, **92**: 1–255. **NOTE**: Only South Greenland.
- SCHUSTER, R. M., AND K. DAMSHOLT. 1974. The hepaticae of West Greenland from the 66° N to 72° N. *Meddelelser om Grønland*, **199**(1): 1–373. **NOTE**: Only West Greenland.
- SCOTT, G. A. M., AND J. A. BRADSHAW. 1985. Australian liverworts (Hepaticae): Annotated list of binominals and check-list of published species with bibliography. *Brunonia*, **8**: 1–171.
- SEAWARD, M. R. D., L. T. ELLIS, T. PÓCS, AND M. J. WIGGINTON. 2006. Bryophyte flora of the Chagos Archipelago. *Journal of Bryology*, **28**: 11–19.
- SEAWARD, M. R. D., C. HAMBLER, AND A. APTROOT. 1996. Bryophytes and lichens of Aldabra. *Tropical Bryology*, **12**: 29–34.
- SÉRGIO, C., M. BRUGUÉS, R. M. CROS, C. CASAS, AND C. GARCIA. 2007. The 2006 Red List and an updated checklist of the Iberian Peninsula (Portugal, Spain and Andorra). *Lindbergia*, **31**[2006]: 109–125.
- SÉRGIO, C., AND S. CARVALHO. 2003. Annotated catalogue of Portuguese bryophytes. *Portugaliae Acta Biologica. Série B. Sistemática, Ecologia, Biogeografia e Paleontologia*, **21**: 5–230.
- SÉRGIO, C., C. CASAS, M. BRUGUÉS, R. M. CROS. 1994. Lista Vermelha dos Briófitos da Península Ibérica [Red List of Bryophytes of the Iberian Peninsula]. ICN, Lisboa. 45 pp.
- SETSHOGO, M. P. 2005. Preliminary checklist of the plants of Botswana. *SABONET Rep.*, **37**: 1–161.
- SHARP, A. J. 1939. Taxonomic and ecological studies of eastern Tennessee bryophytes. *American Midland Naturalist*, **21**: 267–354. **NOTE**: Inconsistent in the western part.
- SHELDON, J. L. 1907. Species of Hepaticae known to occur in West Virginia. *Bryologist*, **10**: 80–84.
- SHIELDS, L. M. 1954. Current list of New Mexico Hepaticae. *Bryologist*, **57**: 18–19.
- SHIN, T. 1968. Flora of Hepaticae in the Ryukyu Archipelago I. *Science Reports of the Kagoshima University*, **17**: 185–213. [Not seen]
- . 1970a. Supplement to the “Flora of Hepaticae in the Ryukyu Archipelago I.” (Addition to the hepatic flora of Amami Islands). *Science Reports of the Kagoshima University*, **19**: 23–27. [Not seen]
- . 1970b. Flora of the hepaticae in the Ryukyu archipelago, Part 2 and Part 3: Enumeration of the species Okinawa Islands and Sakishima Islands. *Science Reports of the Kagoshima University*, **19**: 29–50. [Not seen]
- SIEBEL, H. N., H. J. DURING, AND H. M. H. MELICK. 2005. Verandering in de Standaardlijst van de Nederlandse blad-, lever- en hawmossen (2005) [Changes in the checklist of dutch mosses, liverworts & hornworts]. *Buxbaumiella*, **73**: 26–64.
- SIM, T. R. 1916. South African Hepaticae or Liverworts. *South African Journal of Science*, **12**: 426–447.
- . 1926. The bryophyta of South Africa. *Transactions of the Royal Society of South Africa*, **15**: 1–475.
- SIM, T. R., AND H. N. DIXON. 1922. Bryophyta of Southern Rhodesia. *South African Journal of Science*, **18**: 294–335.
- SIMONOV, G. P. 1972. Brioflora Moldavskoi SSR. Shtiincha, Kisinev, Moldavia [Union of the Soviet Socialist Republics]. 126 pp. [Not seen]
- SIÖGREN, E. 2001. Distribution of Azorean bryophytes up to 1999, their island distribution and information on their presence elsewhere, including Madeira and the Canary Islands. *Boletim do Museu Municipal do Funchal (História Natural) Suplemento 7*: 1–89. [Not seen]
- SMITH, A. J. E. 1990. The liverworts of Britain and Ireland. Cambridge University Press, Cambridge, United Kingdom. 362 pp.
- SNIDER, J. A., S. M. STUDLAR, AND M. MEDLEY. 1988. A list of the bryophytes of Kentucky with county distributions. *Bryologist*, **91**: 98–105.
- SO, M. L. 1995. Mosses and liverworts of Hong Kong. Heavenly People Depot, Hong Kong. 162 pp.
- SÖDERSTRÖM, L. (ed.) 1995. Preliminary Distribution maps of bryophytes in Norden. Vol. 1. Hepaticae and Anthocerotae. Mossornas Vänner, Göteborg, Sweden. 55 pp.
- SÖDERSTRÖM, L. 2000. Hepatics from Changbai Mts., Jilin Province, China. *Lindbergia*, **25**: 41–47.
- SÖDERSTRÖM, L., K. HASSEL, H. WEIBULL, A. ÅBOLINA, H. H. BLUM, K. DAMSHOLT, R. FAGERSTÉN, K. I. FLATBERG, A. A. FRISVOLL, M. HAAPASAARI, T. HALLINGBÄCK, L. HEDENÄS, E. HEEGAARD, S. HUTTUNEN, N. INGERPUU, P. ISOVIITA, B. JÓHANSSON, I. JUKONIENÉ, T. KOPONEN, J. LEWINSKY-HAAPASAARI, M. OHENOJA, R. H. ØKLAND, S. PIIPPO, T. PRESTØ, K. SYRJÄNEN, K. THINGSGAARD, T. ULVINEN, K. VELLAK, AND R. VIRTANEN. 2002a. Preliminary Distribution maps of bryophytes in Northwestern Europe. Vol. 1. Hepaticae and Anthocerotae (2nd ed.). Mossornas Vänner, Göteborg, Sweden. 55 pp.
- SÖDERSTRÖM, L., AND L. HEDENÄS. 1998. Checklista över Sveriges mossor. *Myrinia*, **8**: 58–90.
- SÖDERSTRÖM, L., L. HEDENÄS, AND T. HALLINGBÄCK. 1992. Checklista över Sveriges Mossor. *Myrinia*, **2**: 13–56.
- SÖDERSTRÖM, L., E. URMI, AND J. VAÑA. 2002b. Distribution of Hepaticae and Anthocerotae in Europe and Macaronesia. *Lindbergia*, **27**: 3–47. **NOTE**: Yugoslavia includes Serbia and Montenegro.
- . 2007. Additions to the European liverwort flora. *Cryptogamie, Bryologie*, **28**: 299–350. **NOTE**: Updates Söderström et al. (2002b).
- SORNAMRAN, R., AND O. THAITHONG. 1995. Bryophytes in Thailand. *OEPP Biodiversity Series*, **2**: 1–231.
- SOTIAUX, A., A. PIOLI, A. ROYAUD, R. SCHUMACKER, AND A. VANDERPOORTEN. 2007. A checklist of the bryophytes of Corsica (France): New records and a review of the literature. *Journal of Bryology*, **29**: 41–53.
- SOTIAUX, A., AND A. VANDENPOORTEN. 2001. Checklist of the bryophytes of Belgium. *Belgian Journal of Botany*, **134**: 97–120.
- SRIVASTAVA, S. C. 1979. Hepaticae of Kashmir Valley. *Beihefte zur Nova Hedwigia*, **63**: 333–338.
- STANDLEY, P. C. 1915. Hepaticae of New Mexico. *Bryologist*, **18**: 81–83.
- . 1916. Additional notes upon New Mexican hepaticae. *Bryologist*, **19**: 64–65. **NOTE**: Updates Standley (1915).

- STAPLES, G. W., AND C. T. IMADA. 2007. Checklist of Hawaiian Anthocerotales and Hepaticae. *Tropical Bryology*, **28**: 15–47.
- STEEER, W. C. 1947. The bryophyte flora of Michigan. *Papers of the Michigan Academy of Science, Arts and Letters*, **21**: 33–56.
- . 1961a. A preliminary review of the bryophytes of Antarctica. National Academy of Sciences, National Research Council, Publ., **839**: 20–33.
- . 1961b. The bryophytes of South Georgia. National Academy of Sciences, National Research Council, Publ., **839**: 34–48.
- STEEER, W. C., AND H. INOUE. 1978. The Hepaticae of arctic Alaska. *Journal of the Hattori Botanical Laboratory*, **44**: 251–345. **NOTE**: Only the Arctic part.
- ȘTEFĂNUȚ, S. 2002. The hornworts and liverworts list of Romania. *Revue Roumaine de Biologie, Série de Biologie Végétale*. București, **47**: 27–39.
- STOTLER, R. E., AND B. CRANDALL-STOTLER. 1977. A checklist of the liverworts and hornworts of North America. *Bryologist*, **80**: 405–428.
- STOTLER, R. E., N. SALAZAR ALLEN, S. R. GRADSTEIN, W. MCGUINNESS, A. WHITTEMORE, AND C. CHUNG. 1998. A checklist of the Hepaticae and Anthocerotales of Panamá. *Tropical Bryology*, **15**: 167–195.
- STUDLAR, S. M., S. L. STEPHENSSON, AND P. J. HARMON. 2000. Annotated checklist of the hornworts, liverworts, and mosses of West Virginia with habitat and geographic distribution data. *Wildlife Resources Technical Document*, **00-07**: 0–87. [Not seen]
- SUTLIFFE, D. 1932. Hepaticae of Guadelupe Island. *Bryologist*, **35**: 41–42.
- SWANSON, E. S., AND H. A. MILLER. 1969. Hepaticae from Palau, Caroline Islands, II. Enumeration. *Micronesica*, **5**: 139–149.
- SZWEYKOWSKI, J. 1958. *Prodromus florae hepaticarum Poloniae*. *Prace Komisji Biologicznej Poznań*, **19**: 1–600.
- . 2006. An annotated checklist of Polish liverworts and hornworts. *Biodiv. Poland*, **4**: 1–114.
- TAN, B. C., AND J. J. ENGEL. 1986. An annotated checklist of Philippine Hepaticae. *Journal of the Hattori Botanical Laboratory*, **60**: 283–355.
- TIMME, S. L., AND F. D. BOWERS. 2000. Hepatophyta and Anthocerotophyta of Alabama I. Preliminary studies. *Evansia*, **17**: 118–125.
- TIMME, S. L., AND P. L. REDFEARN. 1997. Checklist of liverworts and hornworts of the Interior Highlands of North America in Arkansas, Illinois, Missouri, and Oklahoma. *Evansia*, **14**: 89–105. **NOTE**: Only treating the Interior Highlands.
- TRABUT, M. L. 1942. Flore des Hépatiques de 'Afrique du Nord. *Revue Bryologique et Lichénologique*, **12**: 1–43.
- ULVINEN, T., K. SYRJÄNEN, AND S. ANTILA. 2002. Suomen sammalet—Levinneisyys, ekologia ja uhanalaisuus [Bryophytes of Finland: Distribution, ecology and red list status]. *Suomen ympäristö*, **560**: 1–354.
- URIBE, J., AND S. R. GRADSTEIN. 1998. Catalogue of the Hepaticae and Anthocerotae of Colombia. *Bryophytorum Bibliotheca*, **53**: 1–99.
- VAN SLAGEREN, M. 1979. Liverworts (Hepaticae) from the Leeward Islands of the Netherlands Antilles. *Proceedings, Koninklijke Nederlandse Akademie van Wetenschappen. Series C, biological and medical sciences*, **82**: 127–137.
- VÁNA, J. 1997a. Bryophytes of the Czech Republic—an annotated check-list of species (1). *Novitates Botanicae ex Universitate Carolina, Praha*, **11**: 39–89.
- . 1997b. Prehled druhu jatrovek a hlevíku, mylně uvádených z území Česka a Slovenské republiky [List of liverworts and hornworts erroneously reported from the Czech and Slovak Republics]. *Zprávy České Botanické Společnosti*, **32**: 15–24.
- . 1998. Bryophytes of the Czech Republic—an annotated check-list of species (2). *Novitates Botanicae ex Universitate Carolina, Praha*, **12**: 7–33.
- VÁNA, J., AND N. GREMMEN. 2005. Hepaticae of Heard Island. *Cryptogamie, Bryologie*, **26**: 79–90.
- . 2006. Checklist of the hepatic flora of sub-Antarctic Îles Kerguelen. *Cryptogamie, Bryologie*, **27**: 131–139.
- VÁNA, J., AND M. S. IGNATOV. 1995. Bryophytes of Altai Mountains. V. Preliminary list of the Altaian hepaticae. *Arctoa*, **5**: 1–13.
- VÁNA, J., AND S. PIIPPO. 1989a. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXIX. Jungermanniaceae and Gymnomitracae (Hepaticae). *Annales Botanici Fennici*, **26**: 107–125.
- . 1989b. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXI. Cephaloziaceae subfam. Allobielloideae, Cephaloziellaceae, Antheliaceae and Lophoziaceae (Hepaticae). *Annales Botanici Fennici*, **26**: 263–290.
- VÁNA, J., AND V. M. VIRCHENKO. 1993. A list of Anthocerotales and Hepaticae of Ukraine. *Ukrajins'kyj Botaničnyj Žurnal*, **50**: 89–93. **NOTE**: Includes Crimea.
- VELLAK, K., L. KANNUKENE, N. INGERPUU, AND M. LEIS. 2001. Additions to the list of Estonian bryophytes, 1997–2001. *Folia Cryptogamica Estonica*, **38**: 71–78. **NOTE**: Updates Ingerpuu & Vellak (1998).
- VELLAK, K., N. INGERPUU, L. KANNUKENE, AND M. LEIS. 2006. New Estonia records. Liverworts and mosses. *Folia Cryptogamica Estonica* **42**: 107–111. **NOTE**: Updates Ingerpuu & Vellak (1998).
- WAGNER, K. A. 1946. Additions to the hepatic flora of Indiana. *Bryologist*, **49**: 125–126. **NOTE**: Updates Parker (1938).
- WEBER, W. A. 1963. Additions to the bryophyte flora of Colorado. *Bryologist*, **66**: 192–200. **NOTE**: Updates Evans (1915) and Frye & Clark (1937–1947).
- . 1966. Lichenology and bryology in the Galapagos Islands, with check lists of the Lichens and Bryophytes thus far reported, pp. 197–200. *In* Bowman, R. I., ed., *The Galapagos: Proceedings of the Symposia of the Galapagos International Scientific Project*. University of California Press, Berkeley and Los Angeles.
- . 1976. Additions to the bryophyte flora of the Galapagos Islands. *Lindbergia*, **3**[1975]: 79–82.
- WEBER, W. A., AND B. C. JOHNSTON. 1976. Natural history inventory of Colorado, I. Vascular plants, lichens and bryophytes. University of Colorado Museum, Boulder, Colorado. 206 pp.
- WEBER, W. A., AND R. C. WITTMANN. 2007. Bryophytes of Colorado. Mosses, liverworts, and hornworts. *Pilgrim Process, Santa Fe, New Mexico*. 231 pp.

- WHITTEMORE, A. T., AND B. H. ALLEN 1996. The liverworts and hornworts of Belize. *Bryologist*, **99**: 64–67.
- WHITTEMORE, A. T., R.-L. ZHU, R.-L. HU, AND J.-C. ZHAO. 1998. A checklist of the liverworts of Xinjiang, China. *Bryologist*, **101**: 439–443.
- WHITTIER, H. O., AND B. A. WHITTIER. 1987. Hepaticae of southeastern Polynesia: A preliminary report. *Memoirs of the New York Botanical Garden*, **45**: 575–598.
- WIGGINTON, M. J. 2002. Checklist and distribution of the liverworts and hornworts of sub-Saharan Africa, including the East African Islands. *Tropical Bryology Research Reports*, **3**: 1–88.
- . 2004. Checklist and distribution of the liverworts and hornworts of sub-Saharan Africa, including the East African Islands, ed. 2. *Tropical Bryology Research Reports*, **5**: 1–102.
- WIGGINTON, M. J., AND R. GROLLE. 1996. Catalogue of the Hepaticae and Anthocerotae of Sub-saharan Africa. *Bryophytorum Bibliotheca*, **50**: 1–267.
- WILLIAMS, H., AND R. F. CAIN. 1959. Additions to the Hepaticae of Ontario. *Bryologist*, **62**: 145–148. **NOTE**: Updates Cain & Fulford (1948).
- WINDOLF, J. 1987. Annotated list of Queensland hepaticae. *Austrobaileya*, **2**: 380–400.
- WITTLAKE, E. B. 1954. The Hepaticae of Arkansas. I. *Bryologist*, **57**: 7–18.
- WORLEY, I. A. 1970. A checklist of the Hepaticae of Alaska. *Bryologist*, **73**: 32–38. **NOTE**: incl. the Aleutian Islands.
- WU, Y.-H., C. GAO, AND B. C. TAN. 2002. The bryophytes of Gansu Province, China: A new annotated checklist. *Arctoa*, **11**: 11–22.
- YAMADA, K., AND D.-M. CHOE. 1997. A checklist of Hepaticae and Anthocerotae in the Korean peninsula. *Journal of the Hattori Botanical Laboratory*, **81**: 281–306.
- YAMADA, K., AND Z. IWATSUKI. 2006. Catalogue of the hepatics of Japan. *Journal of the Hattori Botanical Laboratory*, **99**: 1–106.
- YAMADA, K., AND S. PIPPO. 1989. Bryophyte flora of the Huon Peninsula, Papua New Guinea. XXXII. *Radula* (Radulaceae, Hepaticae). *Annales Botanici Fennici*, **26**: 349–387.
- YANG, B. Y. 1960. Studies on Taiwan Hepaticae. I. A preliminary list of the Hepaticae of Taiwan. *Quart. J. Taiwan Mus.*, **13**: 231–235. [Not seen]
- YANO, O. 1984. Checklist of Brazilian liverworts and hornworts. *Journal of the Hattori Botanical Laboratory*, **56**: 481–548.
- . 1989. Additional checklist of Brazilian bryophytes. *Journal of the Hattori Botanical Laboratory*, **66**: 371–434. **NOTE**: Updates Yano (1984).
- . 1996a. A new additional annotated checklist of Brazilian bryophytes. *Journal of the Hattori Botanical Laboratory*, **78**: 137–182. **NOTE**: Updates Yano (1984).
- . 1996b. A checklist of the Brazilian bryophytes. *Boletim do Instituto de Botânica de São Paulo*, **10**: 47–232.
- . 2006a. Novas adições ao catálogo de briófitas brasileiras. *Boletim do Instituto de Botânica de São Paulo*, **17**: 1–142. **NOTE**: Updates Yano (1996b).
- . 2006b. Novas adições ao catálogo de briófitas brasileiras. *Boletim do Instituto de Botânica de São Paulo*, **18**: 229–233. **NOTE**: Updates Yano (1996b).
- ZEROV, D. K. 1939. *Viznatjnik petjnotjnikh mokhiv URSR*. Vidavniectvo Akademij Nauk URSR, Kiev. 151 pp. **NOTE**: Includes Crimea.
- . 1958. Hepatics of Crimea. *Ukrajins'kyj Botaničnyj Žurnal*, **15**: 78–87.
- ZHANG, L. 2003. An updated and annotated inventory of Hong Kong bryophytes. *Memoirs of the Hong Kong Natural History Society*, **26**: 1–133. [Not seen]
- ZHANG, L., AND P.-J. LIN. 1997. A checklist of Bryophytes from Hong Kong. *Journal of the Hattori Botanical Laboratory*, **81**: 307–326.
- ZHANG, Z. H., AND K. CHEN. 2006. Marchantiophyta and Antoceroophyta in Guizhou province, P. R. China. *Journal of Bryology*, **28**: 170–176.
- ZHAO, Z.-T., AND T. CAO (eds.). 1998. *Flora Bryophytorum Shangdongicorum*. Shandong Science and Technology Press, Shandong, China. 339.
- ZHU, R.-L., AND M. L. SO. 1996. *Mosses & liverworts of Hong Kong*. Volume 2. Heavenly People Depot, Hong Kong. 130 pp.
- . 2003. Liverworts and hornworts of Shangsi County of Guangxi (Kwangsi), with an updated checklist of the hepatic flora of Guangxi Province of China. *Cryptogamie, Bryologie*, **24**: 319–334.
- ZHU, R.-L., AND M. L. SO., AND L. X. YE. 1998. A synopsis of the hepatic flora of Zhejiang, China. *Journal of the Hattori Botanical Laboratory*, **84**: 159–174.
- ZODDA, G. 1934. *Flora Italica Cryptogama*. Pars IV. Bryophyta. Fasc. 1. Hepaticae. *Nuovo Giornale Botanico Italiano*, **41**(suppl.): 1–336.