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

## Botany

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### Part Five: Liverworts—Globally and Locally

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

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#### 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alarmingly, substantial portions of the globe that either lack checklists entirely or have checklists that are woefully out of date.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 & SÉNeca, 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.) Schiffrn.] 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

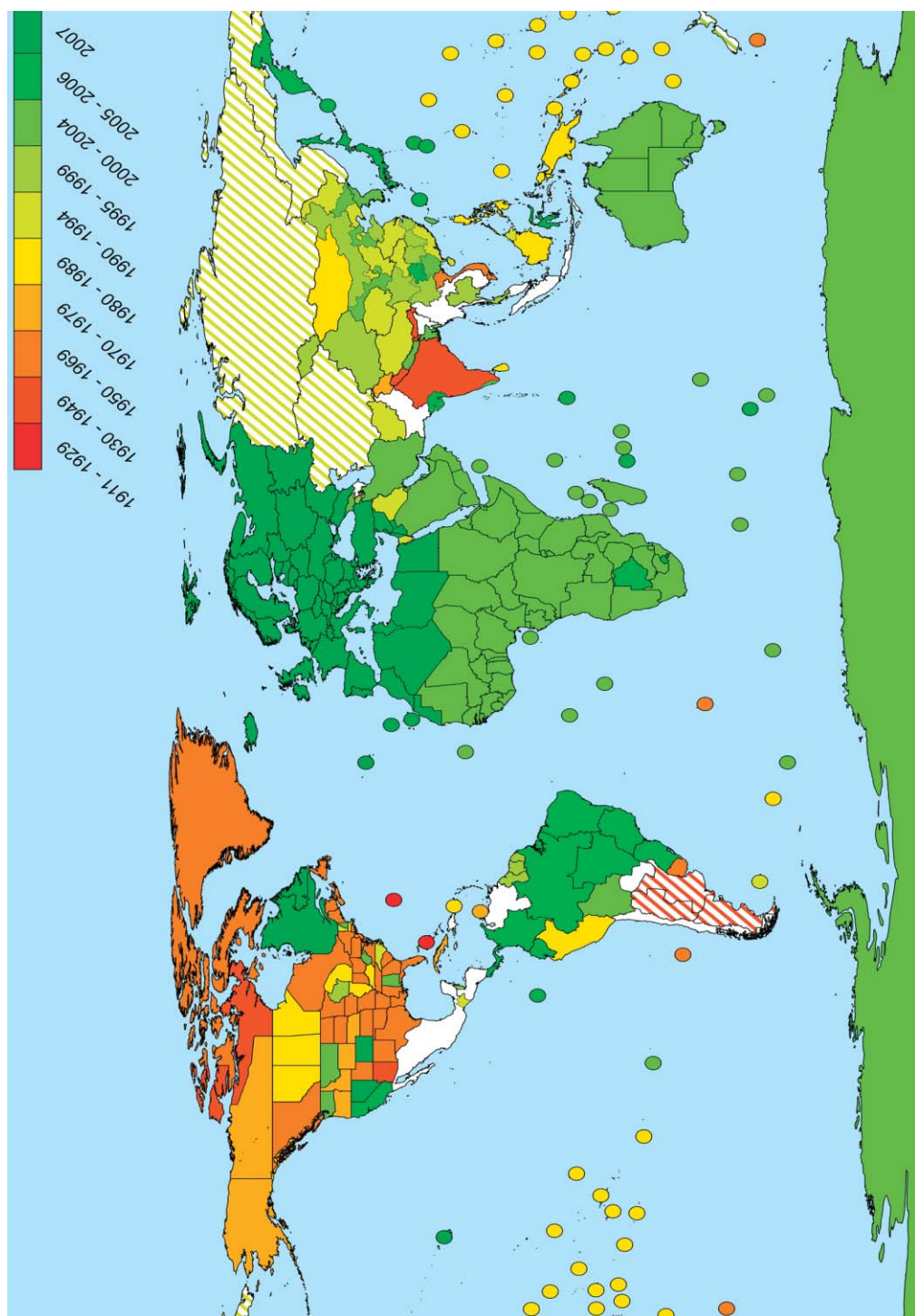


FIG. 1. Map indicating the year the latest checklist was published for a botanical country, and for subdivisions within a botanical country, if a more recent checklist exists for that part. Hatched areas only have checklists using larger units. White areas lack checklists or have only incomplete checklists. 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 & Senecca, 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

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## 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*<sup>+</sup>. **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*<sup>+</sup>. **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*<sup>+</sup>. **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*<sup>+</sup>. **ICELAND:** Hesselbo 1918, Düll 1983, Jóhannsson 1983, Söderström 1995, Jóhannsson 1998–2003, Schumacker & Vána 2000, Damsholt 2002, Söderström et al. 2002a, b, Schumacker & Vána 2005, *Söderström et al. 2007*<sup>+</sup>. **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*<sup>+</sup>, *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*<sup>+</sup>. **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*<sup>+</sup>. **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*<sup>+</sup>.

### MIDDLE EUROPE

**AUSTRIA:** Düll 1983, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*<sup>+</sup>. **BELGIUM:** Düll 1983, Schumacker et al. 1985, Schumacker & Vána 2000, Sotiaux & Vandenpoorten 2001, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*<sup>+</sup>. **CZECH REPUBLIC:** Düll 1983<sup>+</sup>, Vána 1997a, b<sup>1</sup>, 1998, Schumacker & Vána 2000, Söderström et al. 2002b, Schumacker & Vána 2005, *Söderström et al. 2007*<sup>+</sup>, Kučera &

<sup>1</sup> Species erroneously reported.

Vaña 2003, 2005. **GERMANY:** Düll 1972, Düll 1983, Frahm & Frey 1983, Düll & Meinunger 1989, Ludwig et al. 1996, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, *Söderström et al. 2007\**. **HUNGARY:** Boros 1968, Düll 1983, Orbán & Vajda 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Erzberger & Papp 2004, Schumacker & Vaña 2005, *Söderström et al. 2007\**. **NETHERLANDS:** Gradstein 1977, Landwehr 1980, Margadant & During 1982, Düll 1983, Dirkse et al. 1989, 1999, **Gradstein & Melick 1996**, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Siebel et al. 2005, *Söderström et al. 2007\**. **POLAND:** *Szweykowski 1958*, Rejment-Grochowska 1966, 1971, Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, *Szweykowski 2006*, *Söderström et al. 2007\**. **SLOVAKIA:** Düll 1983<sup>2</sup>, Kubinská et al. 1993, Vaña 1997b<sup>2</sup>, Marhold & Hindák 1998, Schumacker & Vaña 2000, Kubinská et al. 2001, Söderström et al. 2002b, Schumacker & Vaña 2005, *Söderström et al. 2007\**. **SWITZERLAND:** *Meylan 1924*, Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schnyder et al. 2004, Schumacker & Vaña 2005, *Söderström et al. 2007\**.

#### SOUTHWESTERN EUROPE

**BALEARES:** Boesen 1976, Düll 1983, Sérgio et al. 1994, Casas 1998, Schumacker & Vaña 2000, Söderström et al. 2002b, Casas et al. 2004, Schumacker & Vaña 2005, Ros et al. 2007, *Söderström et al. 2007\**. **CORSICA:** Augier 1966, *Bischler & Jovet-Ast 1973*, Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Ros et al. 2007, *Söderström et al. 2007\**, *Sotiaux et al. 2007*. **FRANCE:** Augier 1966, Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 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 & Vaña 2000, Söderström et al. 2002b, *Sérgio & Carvalho 2003*, Schumacker & Vaña 2005, Ros et al. 2007, Sérgio et al. 2007, *Söderström et al. 2007\**. **SARDINIA:** Zodda 1934, *Bischler & Jovet-Ast 1972*, Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Ros et al. 2007, *Söderström et al. 2007\**. **SPAIN:** *Casares-Gil 1919*, Düll 1983, Sérgio et al. 1994, Casas 1998, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña

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

#### SOUTHEASTERN EUROPE

**ALBANIA:** Düll 1983, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Colacino & Sabovljević 2006, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007\**. **BULGARIA:** *Petrov 1975*, Düll 1983, Ganeva & Düll 1999, Schumacker & Vaña 2000, Söderström et al. 2002b, **Ganeva & Natcheva 2003**, Schumacker & Vaña 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 & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Ros et al. 2007, *Söderström et al. 2007\**. **CROATIA:** *Pavletić 1955, 1968*, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Sabovljević & Natcheva 2006, Ros et al. 2007, *Söderström et al. 2007\**. **GREECE:** *Preston 1981*, Düll 1983, *Preston 1984\**, **Düll 1995**, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Sabovljević & Natcheva 2006\*, Ros et al. 2007, *Söderström et al. 2007\**. **ITALY:** Zodda 1934, Düll 1983, Aleffi & Schumacker 1995, Schumacker & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 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 & Vaña 2000, Söderström et al. 2002b, *Ștefanuț 2002*, Schumacker & Vaña 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 & Vaña 2000, Söderström et al. 2002b, Schumacker & Vaña 2005, Ros et al. 2007, *Söderström et al. 2007\**. **SLOVENIA:** *Pavletić 1955, 1968*, Söderström et al. 2002b, Sabovljević & Natcheva 2006, Ros

<sup>2</sup> Species erroneously reported.



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

#### EASTERN EUROPE

Düll 1983<sup>+</sup>, Konstantinova et al. 1992<sup>+</sup>, Konstantinova & Potemkin 1996<sup>+</sup>, Schumacker & Váňa 2000<sup>+</sup>, 2005<sup>+</sup>.

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

#### 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*<sup>+</sup>. **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 & Váňa 2000, Schumacker 2001, Sjögren 2001, *Söderström et al. 2002b*, *Frahm 2005*, Gabriel et al. 2005, Schumacker & Váňa 2005, *Frahm & Häusler 2007*, *Söderström et al. 2007*<sup>+</sup>. **CANARY IS**: *Eggers 1982*, Düll 1983, *Dirkse et al. 1993*,

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

##### 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. **QATAR:** 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

<sup>3</sup>Kachroo 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<sup>+</sup>, 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**<sup>4</sup>: 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,

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

<sup>4</sup> 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\*, Glenney 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*<sup>o</sup>, *1977b*<sup>o</sup>, *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*<sup>\*</sup>. **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*<sup>+</sup>, *Schuster 1966–1992*, *Timme & Redfearn 1997*<sup>\*</sup>. **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*<sup>\*</sup>. **SOUTH DAKOTA**: *Frye & Clark 1937–1947*, *Schuster 1966–1992*. **WISCONSIN**: *Conklin 1929*, *Frye & Clark 1937–1947*, *Schuster 1966–1992*, *Bowers & Freckman 1979*, *Lyman 1999*<sup>\*</sup>.

#### 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*<sup>+</sup>, *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*<sup>+</sup>. **MICHIGAN**: *Kaufmann 1915*, *Nichols 1922*, *1925*<sup>+</sup>, *1933*<sup>+</sup>, *1935*<sup>+</sup>, *1936*<sup>+</sup>, *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*<sup>+</sup>, *Arsène 1933*, *Frye & Clark 1937–1947*, *Shields 1954*, *Bird 1960*<sup>+</sup>. **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*<sup>\*</sup>. **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*<sup>+</sup>, *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*<sup>\*</sup>, *Schuster 1966–1992*. **VIRGINIA**: *Frye & Clark 1937–1947*, *Patterson 1949*, *1950*<sup>+</sup>, *1951*<sup>+</sup>, *1955*<sup>+</sup>, *Schuster 1966–1992*.

#### MEXICO

*Fulford & Sharp 1990*<sup>o</sup>.

**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*<sup>\*</sup>, *Dauphin 2005*. **EL SALVADOR**: X. **GUATEMALA**: X. **HONDURAS**: X. **NICARAGUA**: X. **PANAMA**: *Stotler et al. 1998*, *Gradstein 1999*<sup>\*</sup>, *Dauphin et al. 2006*<sup>+</sup>.



## CARIBBEAN

ARUBA: X. BAHAMAS: *Evans 1911*. BERMUDA: *Evans 1906*, *Evans 1918*. CAYMAN IS.: X. CUBA: *Grolle 1975*<sup>+</sup>. 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 CARRIBEAN: X. TRINIDAD-TOBAGO: X. TURKS-CAICOS IS.: X. VENEZUELAN ANTILLES: X. WINDWARD IS.: X [DOMINICA: *Fulford 1987*<sup>+o</sup>. ST VINCENT: *Fulford 1984*<sup>+</sup>].

## 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*<sup>\*</sup>.

## WESTERN SOUTH AMERICA

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

## BRAZIL

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

## SOUTHERN SOUTH AMERICA

*Kühnemann 1949*<sup>\*</sup>.

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*<sup>+</sup>, *1980*<sup>+</sup>. 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*.

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