

## Checklist and Red List of lichens of the Czech Republic

Seznam a Červený seznam lišejníků České republiky

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This first version of the Red List of lichens of the Czech Republic uses IUCN criteria version 3.1 for evaluating the species (no infraspecific taxa are included). The Red List is at the same time a new version of the checklist of lichens of the Czech Republic. Differences from the previous checklist published in the Catalogue of lichens of the Czech Republic in 1999 are: 98 species are excluded (non-lichenized fungi, species not documented in the Czech Republic, misidentifications, doubtful/dubious records and other errors) and nomenclatural changes are listed in the chapter on synonyms. In total, 1497 species of lichenized fungi (without lichenicolous and lichen-allied fungi) are included. Of these, 120 (8%) suspicious records and taxonomically problematic or not well explored taxa were not evaluated against the IUCN criteria (NE category). In total, 560 species (37.4%) are threatened: 130 (8.7%) are critically endangered (CR), 184 (12.3%) are endangered (EN) and 246 (16.4%) are vulnerable (VU). In addition, 140 species (9.4%) are extinct in the Czech Republic (RE category), 174 species (11.6%) are listed in the category near threatened (NT) and 190 (12.7%) in least concern (LC). In total, 313 species (20.9%) are listed as data deficient (DD) because insufficient data are available for a categorization.

**Key words:** biodiversity, checklist, Czech Republic, lichens, lichenized fungi, Red List, threatened species

### Introduction

The IUCN Red Lists and Red Data Books draw attention to species of prior interest in terms of the conservation of threatened biodiversity. Precise categories and quantitative criteria for determining threat status were adopted in 1994, so the extinction risk can be evaluated at national and regional levels. The current version 3.1 was approved by the 51st meeting of the IUCN Council in 2001 (IUCN 2001); further specifications of how the categories should be applied were presented, e.g. by Gärdenfors (2001), Gärdenfors et al. (2001) and IUCN (2003, 2006).

Red List categories and criteria were conceived as means of evaluating extinction risk on a global scale. However, the criteria were re-specified and changed over time as did the number of categories, e.g. rarity as an individual risk factor and the category missing species were rejected. Misinterpretation may also result from the use of the same letters (NT) for different categories: the present category “near threatened” versus the older one “not threatened”.

Numbers of categories and their definitions are often changed also in regional Red Lists (country or its parts). A modified Central European concept is frequently used in pertinent countries, e.g. even in the new version of the Red List of vascular plants of the Czech Republic (Holub & Procházka 2000), among lichen Red Lists in Wirth et al. (1996), Türk & Hafellner (1999), etc. In 1996, the categories and criteria at the regional level were modified in order to facilitate their practical application (see Holub 1996). However, this modification of “national” scales resulted in chaos, especially in Europe. After the implementation of new principles for defining Red List criteria on a regional scale, other categories than those in the current version 3.1 and different concepts should not be presented as IUCN Red Lists.

Criteria for determining threat status were developed from those used for vertebrates (namely mammals and birds). For vascular plants and even more so for cryptogams other general (e.g., assessment of what constitutes an individual) and special problems (insufficient knowledge on distribution, population size, dynamics, taxonomy, low number of specialists studying particular groups etc.) arise. Because the data necessary for determining the threat category are missing, an objective classification is difficult or impossible. In such cases, comparison with other species of similar habitat and ecology for which there are population data can be used. However, this involves some degree of subjectivity and the individual experience of authors plays an important role. A general discussion on the guidelines for applying of the revised IUCN threat categories (version 2.3), with particular reference to bryophytes, was published by the European Committee for the Conservation of Bryophytes (Hallingbäck et al. 1998), and the application of new categories and criteria have been tested on selected species of Swedish bryophytes (Hallingbäck 1998). Hodgetts (2002) presents a further discussion of this topic at a general level.

### **Red Lists of lichens**

Lichens (lichenized fungi) are polyphyletic and involve various types of associations between fungi and algae/cyanobacteria. In some groups, it is difficult to say whether this is a loose association of free living organisms or a lichenized association, and, in some cases, whether it is a lichen or not differs among specialists.

In general, lichens have several specific characters, like other cryptogams. Many species can only be determined in a laboratory with the aid of microscope and the identification of chemical substances (spot tests or more sophisticated methods such as TLC, HPTLC or HPLC). For several groups, a specialist must be consulted. Unlike vascular plants or macrofungi, the contribution of amateurs to the knowledge of distribution of lichens is limited. In addition, lichens are of low commercial importance and their habitats are at a higher risk of disturbance and destruction. Many species depend on specific microhabitats/niches and microclimatic conditions, and even minor changes may cause a drastic decline in abundance or even local. In Nordic countries sensitive old-growth-forest lichen species serve as reliable indicators of forest continuity, the ecological quality of forests and the negative influence of improper forest management (Johansson & Gustafsson 2001). Most of these species are endangered or extinct in the Czech Republic.

For lichens, another feature is significant – low growth rate and fast decline in abundance when environmental conditions change. In general, epiphytic lichens are more sensitive to changes in their environment than species growing on rocks or soil. The stability

and persistence of trees as substrates is limited and old trees are becoming rarer for various reasons. The decline of many lichen species was studied intensively from the 1960s onwards. Subsequently, Red Lists of lichens were first compiled since the 1970s and are now available for many European countries; for some (e.g., Germany, Poland, Austria, Slovakia) amended versions using the same or a new scale are also available. A European Red List of macrolichens (Sérusiaux 1989) and a preliminary global Red List were also compiled (G. Thor, unpublished).

Obviously, Red List compilations are dependent on the state of knowledge of the lichen flora. In some countries (e.g., Norway, Finland), only macrolichens were included in earlier versions of Red Lists (Kuusinen et al. 1995, Tønsberg et al. 1996). In Switzerland, only epiphytic and terricolous lichens are included (Scheidegger et al. 2002). Different categorizations and scales have been used in various countries, therefore a comparison between countries in the number of threatened species in different categories is difficult. The proportion of threatened species varies from relatively low in Norway (ca 19%, Timdal et al. 2006) to very high in Denmark (over 80%, Sjøchting & Alstrup 2002). Nevertheless, the ratio usually ranges from one to two-thirds of a country's flora, although large differences exist even on a regional scale (e.g., from 37 to 83% in federal states of Germany, see Wirth et al. 1996). In comparison to vascular plants, it seems that Red Lists of lichens underestimate the proportion of threatened species, and a more precise evaluation results in increasing proportions of threatened lichens.

### **Situation in the Czech Republic**

Until recently, the Czech Republic was subject to extremely heavy air pollution. The main source of sulphur dioxide, the most important pollutant, was the combustion of low quality coal in industry and power stations. Concentrations of sulphur dioxide substantially decreased after the 1990s, but concentrations of nitrogen compounds due to human activities are still increasing. Northern Bohemia is the most affected part of the Czech Republic (and together with adjacent areas in Germany and Poland one of the most polluted regions in Europe). In addition, extensive changes in the natural environment have occurred throughout this country (changes in forest management, decrease in the number of old and solitary trees, intensification of agriculture, urbanisation etc.). Reports of changes in the lichen flora and species becoming extinct were first published more than 70 years ago (Anders 1935). A slow recovery of the epiphytic lichen flora in the Czech Republic is evident, especially in rural areas, however, this has not been documented.

In contrast to surrounding countries there is currently no Red List of threatened lichens for the Czech Republic (neither local nor regional) even though a considerable number of species are threatened. In 1995, the fourth volume of the Red Data Book of threatened animals and plants of the Czech and Slovak Republics, which included cyanobacteria, algae, fungi, lichens and bryophytes, was published (Liška & Pišút 1995). The chapter dealing with lichens includes 50 species, not the most threatened, but those indicating the complexity of threat in terms of ecology, distribution patterns and susceptibility to various stress factors. Red Lists of the threatened species in the national flora was the main topic of the conference of the Czech Botanical Society in 1995, and information on lichens was presented: general problems, present knowledge, comparison within European countries

and a rough estimate of the proportion of categories of threat to our lichen flora (Liška 1996). At that time it was estimated that 55% of the species were threatened. The total number of lichen species was estimated as 1400 (Liška 1996), but due to newly recorded species is now almost 1500 (Vězda & Liška 1999, Liška 2005 and references in Appendix 1).

The IUCN recommended the publication of a Red List as a part of a revised checklist, therefore the complete flora was evaluated and a checklist produced.

### Application of the IUCN criteria version 3.1

The compilation of this Red List was complicated and time consuming because no preliminary or local/regional lists existed. We tried to collect new data during field surveys, verify old localities and check specimens in herbaria, but at the moment only a part of this task is complete. At present our knowledge of the lichen flora is poorer than that of e.g., bryophytes, as illustrated by the number of newly recorded species (see Palice 1999, Liška 2005, Vondrák et al. 2007 for lichens, Soldán 1994, Váňa 1995 for bryophytes). In spite of this and the sometimes poorly founded categorization, it is useful and adviseable to compile a Red List; arguments based on the example of bryophytes are discussed by Váňa (1995).

Some general terms used in the IUCN categorization raise problems when applied to lichens:

(i) Individual: this is difficult to define for cryptogams in general; moreover, lichens are very variable with regard to growth form. Minor problems are encountered when individualizing fruticose or foliose lichens. In the case of lichens forming dense carpets or pendulous fruticose thalli an approximation of an individual is a mat or cluster. Most problematic are crustose thalli forming mosaics, in which individual thalli can grow together or be intermixed.

(ii) Generation: there is a wide range of growth rates and estimated ages of lichen thalli. Even for the same species growth rates may differ by a factor of ten or more, depending on altitude and region; annual rates may range from hundreds to tens of millimetres. There are also big differences in life span and generative reproduction of lichens: some live only a few months (ephemeral lichens), others for more than a thousand years (e.g., *Rhizocarpon* spp.). Moreover, some lichens produce neither fruit-bodies with spores nor vegetative diaspores. For practical purposes, a generation may be estimated to span approximately 10–30 years.

(iii) Locality: the area of a locality differs greatly for different lichen species (e.g., hectares or square kilometers in the case of some terricolous or saxicolous lichens vs. an individual tree for rare epiphytes).

A compilation of a Red List for a country is difficult because of insufficient taxonomic data on species-rich genera of crustose (e.g., *Lecanora*, *Lecidea*, *Verrucaria*) and fruticose lichens (e.g., *Usnea*), and the chorology and ecology of many lichen taxa (see e.g., the discussion on criteria and parameters in Scheidegger & Goward 2002). This is particularly the case for the Czech Republic, because the diversity of the flora was unknown until the publication of a Catalogue (Vězda & Liška 1999). This Catalogue provides a list of species reported from the Czech Republic. Although some of the data were critically evaluated, many old records are dubious and need to be revised. In addition, knowledge of the present distribution of most lichens is still poor. Several corrections and additions to the Catalogue

were published recently (Liška 2005), but some data still need a revision. At first we intended to minimize the number of problematic records, but it soon became evident that this was not feasible because of the extent and variety of the problems. Many problematic taxa concern the family *Verrucariaceae*. Many species described by M. Servít are known only for one or few localities. It is evident that Servít's concept of genera and species in this family does not correspond with current taxonomical concepts. However, a modern study is still not available and many species are believed to be dubious. Therefore suspicious records and poorly studied species with unclear taxonomy are not evaluated using the IUCN criteria and included in the category NE (not evaluated), despite the availability of method to solve such problems (Váňa 2002). It is our opinion that drawing attention to these taxa is important and may stimulate such a revision. Some taxa treated as synonyms in the Catalogue (Vězda & Liška 1999) have been reevaluated on the basis of recent check-lists (Coppins 2002, Nimis & Martellos 2003, Santesson et al. 2004) and modern taxonomic and molecular phylogenetic studies. They are now included in the Red List. The differences between the Catalogue and the Red List are listed by cross-references in separate chapters (see Excluded species and Synonyms).

Because of our limited knowledge of the Czech lichen flora, it was not possible to apply all of the IUCN criteria when compiling the this first version of the Red List, in particular the category RE (regionally extinct species). As discussed above, refinding a species cannot be completely excluded (except in special cases like the destruction of an original locality). The same problem is faced by authors in many countries. In the last version of the Red List of the bryophytes of the Czech Republic bryologists introduced a new subcategory within the category DD, called DD-vanished (Kučera & Váňa 2003, 2005). For lichens, the knowledge of our flora is poorer than for bryophytes. Therefore, we included lichens not reported for more than 50 years in the category RE, even if their localities were not reinvestigated, which corresponds to the old category of missing species. Full application of the IUCN criteria to the category RE is not possible for cryptogams (Váňa 1995). However, this category very often includes species sensitive to environmental changes and are extinct or critically endangered in other countries. Nevertheless, refinding such species in the future cannot be excluded and then their status may be reevaluated. In our opinion including these species in the category RE is a minor mistake compared to including them in other categories (some exceptions concern saxicolous lichens, which are less sensitive than epiphytes and therefore classified as CR). Furthermore, a more rigorous categorization may focus investigations in the future.

The category CR (critically endangered) includes species in immediate threat of extinction and those growing in one or few localities. Species declining in abundance, mainly epiphytes susceptible to environmental changes and probably with limited survival potential at their last localities, are highly represented in this category. In addition, very rare saxicolous/terricolous species that occur in relict habitats are also included. *Cladonia stellaris* has a relatively higher number of localities than other lichens in this category because of its attractive appearance and the higher risk posed by the threat of picking.

The category EN (endangered) includes lichens declining in abundance that are sensitive to environmental changes. The incidence of a decline is mostly estimated (as in the category VU, vulnerable) because quantitative data are not available in most cases. The category VU includes a fairly high proportion of terricolous/saxicolous species, which occur in natural habitats (often limestone areas) and avoid anthropogenous substrates.

Although these lichens may be locally frequent, the loss of their habitats is continual and evident, and their potential for dispersal is very limited. Species declining in abundance that occur also on human-made substrates are mostly included in the NT category.

During a preparatory stage in the compilation of this Red List, changes in the distribution of certain species were studied in detail (Liška 1994, Liška et al. 1996, 1998a, b, 2006, Liška & Pišút 1990). For this study, threatened as well as rare lichens of various distributions in the Czech Republic and degree of sensitivity and frequency, were selected. These species were compared with other lichens, with similar distributions, sensitivities and potential threat of habitat change. These studies documented a notable decrease in sensitive species and significant changes in the distribution of lichens not regarded as endangered and therefore not red-listed before (e.g., *Peltigera horizontalis* and *P. polydactylon*). Detailed surveys of the distribution changes are published for only 36 lichens, but we were able to use our experience and these results to evaluate other species.

Of the IUCN criteria, criterion A (observed, estimated or suspected reduction in the number of individuals) is currently impractical since there is no information on population size at a particular locality. Therefore, indirect estimates were obtained for readily identifiable lichens with well documented past distribution. The decline was inferred from the reduction in the number of localities rather than individuals. This criterion is especially useful for taxa strongly associated with endangered habitats (old-growth forests, subalpine vegetation, peat-bogs, limestone outcrops) and used mainly in cases where the lichens have been mapped in detail (Liška 1994, Liška & Pišút 1990, Liška et al. 1996, 1998a, b, 2006). Criterion B (small geographic range and fragmented area of occupancy, continuing decline or extreme fluctuations in extent of occurrence, area of occupancy, number of locations or subpopulations or number of mature individuals) and criterion C (population size and continuing decline) are used for lichens with a specific ecology (e.g., cupro/ferrophilous, serpentinicolous and lichenicolous lichens) and species on the edge of their distribution area. Criterion D (small population size) is the main criterion of species that have very restricted distribution – last relict occurrences of the boreal-/arctic-montane species (e.g., *Arctoparmelia centrifuga* and *Leptogium rivale*), or rare species confined to specific habitats at one or a few localities, such as diabase and xerothermic serpentine rocks (e.g., *Peccania cernohorskyi* and *Lichinella stipatula*). In previous Red Lists these taxa were classified in category R (rare species). For other, mainly epiphytic species this criterion was used along with criteria A and/or C, e.g., in cases where the species are conspicuous but previously rarely recorded (e.g., *Heterodermia speciosa* and *Lobaria amplissima*). These taxa were placed in category CR. Criterion E (probability of extinction) is not applicable, because data for such an analysis are not available; extrapolation is possible only for epiphytic lichens where survival is dependent on the presence of a specific substrate (particular tree) and they are unable to colonize new substrates.

Strict application of category definitions would result in a high proportion of species in category DD. Including such taxa in the Red List would not increase its information value. Therefore, species were categorized even when the data were incomplete, by a comparison with better documented species. In addition, we tried to resolve the problems concerning the gaps in our knowledge of and changes in the Czech lichen flora by having discussions with other lichenologists. Nevertheless, changes in distribution have not been evaluated for some species with poor data, or where there are uncertainties about the reliability of old records, and such species were included in the category DD (data deficient). Lichens for

which there are no data on their present occurrence, even though the probability of finding them is high (e.g., less sensitive saxicolous microlichens), were also placed in this category along with those that are presumably overlooked, difficult to identify or recently discovered, as change in their distribution is difficult to evaluate. Including these species in the category DD (data deficient) is better than a more fuzzy evaluation based on subjective speculations. Although this is a relatively frequently used category, one purpose of Red Lists is to draw attention to uncertain or missing data and focus attention on these species.

### List of species

In total, 1577 species were evaluated, i.e. all taxa included in the Catalogue (Vězda & Liška 1999) plus additional published records (see list of publications in Liška 2005 and in Appendix 1) and reevaluated taxa (earlier treated as synonyms). The present checklist includes 1497 of the lichenized species in the Czech flora, excluding lichenicolous fungi; the checklist of lichenicolous fungi published by Kocourková (2000) includes 156 species. Intraspecific taxa are not included in this Red List.

#### Excluded species<sup>1</sup>

- Arthonia cinerea* W. Mann – nomen nudum  
*Arthonia punctiformis* Ach. – non-lichenized fungus  
*Arthopyrenia cerasi* (Schrad.) A. Massal. – non-lichenized fungus  
*Arthopyrenia cinereopruinosa* (Schaer.) A. Massal. – non-lichenized fungus  
*Arthopyrenia fraxini* A. Massal. – non-lichenized fungus *Naetrocymbe fraxini* (A. Massal.) R. C. Harris  
*Arthopyrenia grisea* (Schleich. ex Schaer.) Körb. – non-lichenized fungus  
*Arthopyrenia lapponina* Anzi – non-lichenized fungus *Arthopyrenia analepta* (Ach.) A. Massal.  
*Arthopyrenia punctiformis* (Pers.) A. Massal. – non-lichenized fungus *Naetrocymbe punctiformis* (Pers.) R. C. Harris  
*Arthopyrenia rhyponia* (Ach.) A. Massal. – non-lichenized fungus *Naetrocymbe rhyponia* (Ach.) R. C. Harris  
*Aspicilia cheresina* (Müll. Arg.) Hue – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999)  
*Bagliettoa limborioides* A. Massal. – not documented from the Czech Republic (incorrect reports, excluded after revision, see Halda 2003)  
*Bryonora castanea* (Hepp) Poelt – not documented from the Czech Republic (error in excerption, record pertaining to Slovakia)  
*Bryoria jubata* auct. – nomen confusum  
*Bryoria smithii* (Du Rietz) Brodo et D. Hawksw. – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999, record pertaining to Slovakia), see Liška (2005)  
*Bryoria trichodes* (Michx.) Brodo et D. Hawksw. – not documented from the Czech Republic, wrong synonymization of *Alectoria rubens* (Kernst.) Gyeln. (= *B. capillaris* (Ach.) Brodo et D. Hawksw.)  
*Buellia corrugata* Körb. – misidentification – see Stein (1879)  
*Buellia haemosticta* Flot. ex Körb. – not documented from the Czech Republic (incorrect reports)  
*Byssoloma leucoblepharum* (Nyl.) Vain. – not documented from the Czech Republic (incorrect reports)  
*Caloplaca dvorakii* Suza – nomen nudum  
*Caloplaca tetraspora* (Nyl.) H. Olivier – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999, record pertaining to Slovakia)  
*Catinarina “constrictans”* (Nyl.) Zahlbr. – misspelling – see *Catillaria constrictans* (Nyl.) Zahlbr.  
*Cetrariella delisei* (de Bary ex Schaer.) Kärnefelt et A. Thell – a doubtful record, see Liška (2005)  
*Chaenothecopsis epithallina* Tibell – non-lichenized fungus  
*Chaenothecopsis hospitans* (Th. Fr.) Tibell – non-lichenized fungus

<sup>1</sup> Excluded names of species used in the Catalogue (Vězda & Liška 1999)

- Chaenothecopsis nigra* Tibell – non-lichenized fungus  
*Chaenothecopsis pusilla* (Ach.) Alb. Schmidt – non-lichenized fungus  
*Chaenothecopsis pusiola* (Ach.) Vain. – non-lichenized fungus  
*Chaenothecopsis subparaica* (Nyl.) Tibell – non-lichenized fungus  
*Chaenothecopsis tasmanica* Tibell – non-lichenized fungus  
*Chaenothecopsis vainioana* (Nádv.) Tibell – non-lichenized fungus  
*Chaenothecopsis viridireagens* (Nádv.) Alb. Schmidt – non-lichenized fungus  
*Cladonia stricta* auct. – not documented from the Czech Republic (incorrect reports)  
*Dactylina madreporiformis* (Ach.) Tuck. (= *Allocetraria madreporiformis* (Ach.) Kärnefelt et A. Thell) – doubtful records, see Liška (2005)  
*Dermatocarpon intestiniforme* (Körb.) Hasse – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999, record pertaining to Slovakia), see Liška (2005)  
*Dermatocarpon rivulorum* (Arnold) Della Torre et Sarnth. – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999, record pertaining to Slovakia), see Liška (2005)  
*Epigloea medioincrassata* (Grummann) Döbbeler – non-lichenized fungus  
*Graphis elegans* (Borrer ex Sm.) Ach. – a doubtful record, see Liška (2005)  
*Gyalecta foveolaris* (Ach.) Schaer. – not documented from the Czech Republic (incorrect reports), see Liška (2005)  
*Hymenelia coerulea* (DC.) A. Massal. – wrong synonymization of dubious taxon (*Lecanora coerulea* Ach.) reported by Opiz (1825)  
*Lecanora leptacina* Sommerf. – not documented from the Czech Republic (incorrect reports)  
*Lecanora* “*sarcopisoides*” (A. Massal.) A. L. Sm. – misspelling – see *Lecanora sarcopisoides* (A. Massal.) A. L. Sm.  
*Lecanora* “*spodosphaeroides*” Nyl. – misspelling – see *Lecanora spodosphaeroides* Nyl. [= *L. campestris* (Schaer.) Hue]  
*Lecanora umbrina* auct. – nomen confusum  
*Lecanora umbrosa* Degel. – doubtful records for different ecology  
*Lecidea epiphaea* Nyl. – not documented from the Czech Republic (incorrect reports)  
*Lecidella alba* (Schleich.) Hertel – wrong synonymization of *Lecidea alba* auct. (nomen confusum)  
*Lepraria alba* (Roth) Ach. – superfluous name, application uncertain: synonym of *Lepraria lactea* (L.) Hue, which is a species of uncertain identity, see Laundon (1992); revised specimen from the Czech Republic: non *Lepraria*  
*Lepraria byssoidea* (Flörke) Ach. – the type material was not studied, old Bohemian specimens belong to various *Lepraria* species (e.g., *L. borealis*, *L. lobificans*, *L. vouauxii*)  
*Lepraria cinereo-sulphurea* Flörke – misspelling of *L. cinereosulphurea*, application uncertain (type lost), see Laundon (1992)  
*Lepraria farinosa* (Hoffm.) Ach. – the type material was not studied, it might be *Phlyctis argena* (Spreng.) Flot., at least in part (Laundon, pers. comm.), old Bohemian specimens belong to various *Lepraria* species (*L. borealis*, *L. crassissima*, *L. diffusa*, *L. eburnea*, *L. lobificans*, *L. rigidula*, *L. vouauxii*) and *Phlyctis argena*  
“*Lepraria*” *saxatilis* L. – non-existing name, wrong synonymization of *Lepraria segestria* (Neck.) Ach. which is a superfluous name, according to the original description, *Byssus saxatilis* L. (= *Lepra saxatilis* (L.) Weber ex F. H. Wigg.) is probably a mineral deposit, see Laundon (1992)  
*Leptorhaphis atomaria* (Ach.) Szatala – non-lichenized fungus  
*Leptorhaphis lucida* Körb. – non-lichenized fungus  
*Leptorhaphis quercus* (Beltr.) Körb. – non-lichenized fungus  
*Melaspilea urceolata* (Fée) Almb. – not documented from the Czech Republic, wrong synonymization of *Poetschia arthonioides* (Fée) Stein (fungus)  
*Microcalicium ahlneri* Tibell – non-lichenized fungus  
*Microcalicium arenarium* (Hampe ex A. Massal.) Tibell – non-lichenized fungus  
*Microcalicium disseminatum* (Ach.) Vain. – non-lichenized fungus  
*Mycocalicium norvegicum* Vain. – non-lichenized fungus *Chaenothecopsis debilis* (Sm.) Tibell  
*Mycocalicium subtile* (Pers.) Szatala – non-lichenized fungus  
*Omphalina alpina* (Britzelm.) Bresinsky et Stangl (= *Lichenomphalia alpina* (Britzelm.) Redhead et al.) – not documented from the Czech Republic (J. Holec, pers. comm.)  
*Opegrapha rupestris* Pers. – non-lichenized fungus  
*Parmelia fraudans* (Nyl.) Nyl. – not documented from the Czech Republic (incorrect reports), see Liška (2005)



- Parmelia sublaevis* Coutinho – not documented from the Czech Republic (incorrect reports, excluded after revision, see Slezáková 2004)
- Parmelia verrucigera* Nyl. – not documented from the Czech Republic (incorrect report, excluded after revision, see Orthová 2003)
- Pertusaria dactylina* (Ach.) Nyl. – not documented from the Czech Republic (old records of *Isidium dactylinum* Ach. are referable to *Dibaeis baeomyces*; cf. e.g. Koerber 1855)
- Pertusaria glomerata* (Ach.) Schaer. – not documented from the Czech Republic (record out of the Czech Republic and pertaining to Poland)
- Pertusaria isidioides* (Schaer.) Arnold (= *Pertusaria schaeereri* Hafellner) – not documented from the Czech Republic [probably typographic error in original publication by Kovář (1909): “*isidioides*” instead of intended “*isidioidea*”; published as *Pertusaria coccodes* var. *isidioidea* Schaer != *P. coronata* (Ach.) Th.Fr./ in his previous work (Kovář 1906)]
- Phaeocalicium compressulum* (Nyl. ex Vain.) Alb. Schmidt – non-lichenized fungus
- Phaeocalicium praecedens* (Nyl.) Alb. Schmidt – non-lichenized fungus
- Phaeographis dendritica* (Ach.) Müll. Arg. – doubtful records, see Liška (2005)
- Phaeorrhiza nimbosea* (Fr.) H. Mayrhofer et Poelt – a doubtful record
- Pilophorus cereolus* (Ach.) Th. Fr. – doubtful records, see Liška (2005)
- Polyblastia agraria* Th. Fr. – not documented from the Czech Republic (incorrect synonymization of *P. vouauxii* de Lesd.)
- Pyrenocollema bayeriana* (Servít) – apparently non-lichenized fungus
- Pyrenocollema rivularis* (Servít) – apparently non-lichenized fungus
- Pyrenocollema saxicola* (A. Massal.) Coppins – non-lichenized, algicolous fungus *Naetrocymbe saxicola* (A. Massal.) R. C. Harris
- Pyxine endochrysoides* (Nyl.) Degel. (= *Pyxine soreliata* (Ach.) Mont.) – not documented from the Czech Republic (record out of the Czech Republic and pertaining to Germany)
- Rhizocarpon anaperum* (Vain.) Vain. – misidentification (*Rh. lavatum*, O. Peksa in litt.)
- Rinodina albana* (A. Massal.) A. Massal. – not documented from the Czech Republic (incorrect reports)
- Rinodina badiella* (Nyl.) Th. Fr. (= *Rinodina tephraeaspis* (Nyl.) Herre) – a doubtful record, see Liška (2005)
- Sagediopsis aquatica* (Stein) Triebel – non-lichenized fungus
- Sarcopyrenia gibba* (Nyl.) Nyl. – non-lichenized fungus
- Sphinctrina anglica* Nyl. – non-lichenized fungus
- Stenocybe major* Nyl. ex Körb. – non-lichenized fungus
- Stenocybe pullatula* (Ach.) Stein – non-lichenized fungus
- Teloschistes chrysophthalmus* (L.) Th. Fr. – not documented from the Czech Republic, see Liška (2005)
- Thelidium aquaticum* Servít – non-lichenized fungus
- Thelidium velutinum* (Bernh.) Körb. – species of uncertain identity, see Orange (1991)
- Thelocarpon impressellum* Nyl. – non-lichenized fungus
- Thelocarpon lichenicola* (Fuckel) Poelt et Hafellner – non-lichenized fungus
- Thrombium mauroides* (Körb.) Zschacke – not documented from the Czech Republic, wrong synonymization of *Verrucaria mauroides* Schaer. (non Körb.)
- Umbilicaria leiocarpa* DC. – not documented from the Czech Republic (incorrect reports, excluded after revision by E. Lisická), see Liška (2005)
- Usnea andersiana* Nádv. – nomen illegitimum
- Usnea rupicola* Nádv. – nomen illegitimum
- Verrucaria lacerata* Servít – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999)
- Verrucaria podzimekii* Servít – non-lichenized fungus *Roselliniella microthelia* (Wallr.) Nik. Hoffm. et Hafellner
- Xanthoria muscicola* (Savicz) Vězda – not documented from the Czech Republic (erroneously cited by Vězda & Liška 1999)

## Synonyms<sup>2</sup>

*Acarospora fusca* de Lesd. → *Acarospora smaragdula* (Wahlenb.) A. Massal.

*Acarospora heppii* “(Nägeli ex Hepp)” Nägeli ex Körb. → *Myriospora heppii* (Nägeli ex Körb.) Hue

<sup>2</sup> Nomenclatural changes for names of species used in the Catalogue (Vězda & Liška 1999) and forthcoming publications (see list of publications in the appendix)

- Acarospora moraviae* H. Magn. → *Acarospora suzai* H. Magn.  
*Acarospora peliscypha* Th. Fr. p.p. → *Acarospora rugulosa* Körb.  
*Anema cernohorskyi* (Servít) Henssen → *Peccania cernohorskyi* (Servít) Czeika et Guttová  
*Anisomeridium nyssaegenum* (Ellis et Everh.) R. C. Harris → *Anisomeridium polypori* (Ellis et Everh.) M. E. Barr  
*Arthonia lapidicola* auct. → *Arthonia fusca* (A. Massal.) Hepp  
*Arthonia rudereella* Nyl. → *Arthonia fusca* (A. Massal.) Hepp  
*Arthonia tumidula* (Ach.) Ach. → *Arthonia cinnabarina* (DC.) Wallr.  
*Arthopyrenia antecellens* (Nyl.) Arnold → *Mycoporum antecellens* (Nyl.) R. C. Harris  
*Arthothelium ruanum* (A. Massal.) Körb. → *Arthonia ruana* A. Massal.  
*Aspicilia hoffmannii* (Ach.) Flagey → *Aspicilia contorta* (Hoffm.) Kremp.  
*Aspicilia myrinii* (Fr.) Stein → *Aspilidea myrinii* (Fr.) Hafellner  
*Aspicilia pohlii* (Anders) → *Aspicilia erigens* (Anders)  
*Aspicilia obscurata* (Fr.) Arnold → *Aspicilia zonata* (Ach.) R. Sant.  
*Bacidia circumpallens* (Nyl.) Arnold → *Lecania subfuscula* (Nyl.) S. Ekman  
*Bacidia trachona* (Ach.) Lettau p.p. → *Bacidia coprodes* (Körb.) Lettau  
*Bagliettoa baldensis* (A. Massal.) Vězda → *Verrucaria baldensis* A. Massal.  
*Bagliettoa parmigera* (J. Steiner) Vězda et Poelt → *Verrucaria baldensis* A. Massal.  
*Bagliettoa parmigerella* (Zahlbr.) Vězda et Poelt → *Verrucaria parmigerella* Zahlbr.  
*Bellemeria diamarta* (Ach.) Hafellner et Cl. Roux. p.p. → *Bellemeria sanguinea* (Kremp.) Hafellner et Cl. Roux  
*Buellia alboatra* (Hoffm.) Th. Fr. → *Diplotomma alboatrum* (Hoffm.) Flot.  
*Buellia ambigua* (Ach.) Malme → *Diplotomma alboatrum* (Hoffm.) Flot.  
*Buellia bryophila* (Flörke) Körb. → *Tetramelas geophilus* (Flörke ex Sommerf.) Norman  
*Buellia chloroleuca* Körb. → *Tetramelas chloroleucus* (Körb.) A. Nordin  
*Buellia geophila* (Flörke ex Sommerf.) Lyngé → *Tetramelas geophilus* (Flörke ex Sommerf.) Norman  
*Buellia murorum* (A. Massal.) → *Diplotomma murorum* (A. Massal.) Coppins  
*Buellia pharcidia* (Ach.) Malme → *Diplotomma pharcidium* (Ach.) M. Choisy  
*Buellia porphyrica* (Arnold) Mong. → *Diplotomma chlorophaeum* (Hepp ex Leight.) Szatala  
*Buellia triphragmioides* Anzi → *Tetramelas triphragmioides* (Anzi) A. Nordin et Tibell  
*Buellia subdispersa* Mig. → *Diplotomma lutosum* A. Massal.  
*Buellia venusta* (Körb.) Lettau → *Diplotomma venustum* Körb.  
*Caloplaca aurantia* auct. p.p. → *Caloplaca flavescens* (Huds.) J. R. Laundon  
*Caloplaca cerina* (Ehrh. ex Hedw.) Th. Fr. p.p. → *Caloplaca chlorina* (Flot.) H. Olivier  
*Caloplaca cerina* (Ehrh. ex Hedw.) Th. Fr. p.p. → *Caloplaca stillicidiorum* (Vahl) Lyngé  
*Caloplaca ferrarii* auct. → ?*Caloplaca crenulatella* (Nyl.) H. Olivier  
*Caloplaca subpallida* H. Magn. → *Caloplaca oxfordensis* Fink ex J. Hedrick  
*Catapyrenium lachneum* (Ach.) R. Sant. → *Placidium lachneum* (Ach.) de Lesd.  
*Catapyrenium lacinulatum* (Ach.) Breuss → *Placidium lacinulatum* (Ach.) Breuss  
*Catapyrenium pilosellum* Breuss → *Placidium pilosellum* (Breuss) Breuss  
*Catapyrenium rufescens* (Ach.) Breuss → *Placidium rufescens* (Ach.) A. Massal.  
*Catapyrenium squamulosum* (Ach.) Breuss → *Placidium squamulosum* (Ach.) Breuss  
*Catillaria globulosa* (Flörke) Th. Fr. → *Biatora globulosa* (Flörke) Fr.  
*Catillaria rugulosa* (Hepp) Lettau → *Lecania cyrtella* (Ach.) Th. Fr.  
*Catillaria subgrisea* (Nyl.) Flagey → *Toninia philippea* (Mont.) Timdal  
*Catillaria tristis* (Müll. Arg.) Arnold → *Toninia subnitida* (Hellb.) Hafellner et Türk  
*Catillaria vernicea* (Körb.) Lettau → *Lecania cyrtella* (Ach.) Th. Fr.  
*Cetraria chlorophylla* (Willd.) Vain. → *Tuckermanopsis chlorophylla* (Willd.) Hale  
*Cetraria commixta* (Nyl.) Th. Fr. → *Cetrariella commixta* (Nyl.) A. Thell et Kärnefelt  
*Cetraria cucullata* (Bellardi) Ach. → *Flavocetraria cucullata* (Bellardi) Kärnefelt et A. Thell  
*Cetraria hepaticum* (Ach.) Vain. → *Melanelia hepaticum* (Ach.) A. Thell  
*Cetraria laureri* Kremp. → *Nephromopsis laureri* (Kremp.) Kurok.  
*Cetraria nivalis* (L.) Ach. → *Flavocetraria nivalis* (L.) Kärnefelt et A. Thell  
*Cetrelia olivetorum* (Nyl.) W. L. Culb. et C. F. Culb. p.p. → *Cetrelia cetrarioides* (Delise ex Duby) W. L. Culb. et C. F. Culb.  
*Chaenotheca heterospora* (Zahlbr.) → *Chaenotheca chrysocephala* (Turner ex Ach.) Th. Fr.  
*Chromatochlamys muscorum* (Fr.) H. Mayrhofer et Poelt → *Thelenella muscorum* (Fr.) Vain.  
*Chromatochlamys vezdae* H. Mayrhofer et Poelt → *Thelenella vezdae* (H. Mayrhofer et Poelt) Coppins et Fryday

- Cladonia cervicornis* (Ach.) Flot. p.p. → *Cladonia verticillata* (Hoffm.) Schaer.  
*Cladonia macilenta* Hoffm. p.p. → *Cladonia floerkeana* (Fr.) Flörke  
*Cladonia subrangiformis* Sandst. → *Cladonia furcata* (Huds.) Schrad. /ssp. *subrangiformis* (Sandst.) Abbayes/  
*Cladonia symphyrcarpa* auct. → *Cladonia symphyrcarpa* (Flörke) Fr.  
*Dermatocarpon leptophyllum* (Ach.) K. G. W. Lång → *Dermatocarpon miniatum* (L.) W. Mann  
*Dermatocarpon lorenzianum* Anders → *Dermatocarpon leptophyllodes* (Nyl.) Zahlbr.  
*Dimerella lutea* (Dicks.) Trevis. → *Coenogonium luteum* (Dicks.) Kalb et Lüicking  
*Dimerella pineti* (Schrad. ex Ach.) Vězda → *Coenogonium pineti* (Schrad. ex Ach.) Lüicking et Lumbsch  
*Diploicia canescens* (Dicks.) A. Massal. → *Diplotomma canescens* (Dicks.) Flot.  
*Enterographa zonata* (Körb.) Källsten ex Torrente et Egea → *Opegrapha zonata* Körb.  
*Fuscidea maculosa* (H. Magn.) Poelt → *Fuscidea gothoburgensis* (H. Magn.) V. Wirth et Vězda  
*Gonohymenia nigritella* (Lettau) Henssen → *Lichinella nigritella* (Lettau) P. Moreno et Egea  
*Gyalideopsis athalloides* (Nyl.) Vězda → *Diploschistella urceolata* Vain.  
*Hymenelia ceracea* (Arnold) Poelt et Vězda → *Ionaspis ceracea* (Arnold) Hafellner et Türk  
*Hymenelia epulotica* (Ach.) M. Choisy (*Aspicilia epulotica* sensu Koerber 1855 et auct. al.) → *Ionaspis lacustris*  
(With.) Lutzoni  
*Hypocnomyce leucococca* R. Sant. → *Pycnora leucococca* (R. Sant.) R. Sant.  
*Hypocnomyce praestabilis* (Nyl.) Timdal → *Pycnora praestabilis* (Nyl.) Hafellner  
*Hypocnomyce sorophora* (Vain.) P. James et Poelt → *Pycnora sorophora* (Vain.) Hafellner  
*Lauderlindsaya acroglypta* (Norman) R. Sant. → *Normandina acroglypta* (Norman) Aptroot  
*Lecanora allophana* Nyl. p.p. → *Lecanora horiza* (Ach.) Linds.  
*Lecanora cadubriae* (A. Massal.) Hedl. p.p. → *Lecanora phaeostigma* (Körb.) Almb.  
*Lecanora demissa* ("Flot.") Zahlbr. → *Caloplaca demissa* (Körb.) Arup et Grube  
*Lecanora flotowiana* Spreng. → *Lecanora semipallida* H. Magn.  
*Lecanora laatokkaënsis* (Räsänen) Poelt → *Protoparmeliopsis laatokkaënsis* (Räsänen) Moberg et R. Sant.  
*Lecanora leuckertiana* sensu Bayerová et Kukwa 2004 → *Lepraria ecorticata* (J. R. Laundon) Kukwa  
*Lecanora muralis* (Schreb.) Rabenh. → *Protoparmeliopsis muralis* (Schreb.) M. Choisy  
*Lecanora piniperda* Körb. → *Lecanora albellula* Nyl.  
*Lecanora pumilionis* (Arnold) Arnold → *Lecanora sarcopidoides* (A. Massal.) A. L. Sm.  
*Lecanora spodophaeoides* Nyl. → *Lecanora campestris* (Schaer.) Hue  
*Lecanora subrvida* Nyl. → *Lecanora albellula* Nyl.  
*Lecanora symmicta* (Ach.) Ach. p.p. → *Lecanora aitema* (Ach.) Hepp  
*Lecanora symmicta* (Ach.) Ach. p.p. → *Lecidea symmictella* Nyl.  
*Lecidea alboflava* (Körb.) Arnold → *Lecidea sudetica* Körb.  
*Lecidea albohyalina* (Nyl.) Th. Fr. → *Biatora albohyalina* (Nyl.) Bagl. et Carestia  
*Lecidea botryosa* (Fr.) Th. Fr. → *Hertelidea botryosa* (Fr.) Printzen et Kantvilas  
*Lecidea distratula* Zahlbr. → *Lecidella asema* (Nyl.) Knoph et Hertel  
*Lecidea gibberosa* sensu Th. Fr. → *Lecidea exsequens* Nyl.  
*Lecidea fuscoatra* (L.) Ach. p.p. → *Lecidea grisella* Flörke  
*Lecidea limosa* Ach. → *Protomicarea limosa* (Ach.) Hafellner  
*Lecidea lurida* Ach. → *Mycobilimbia lurida* (Ach.) Hafellner et Türk  
*Lecidea meiospora* Nyl. → *Porpidia cinereoatra* (Ach.) Hertel et Knoph  
*Lecidea nodulosa* (Körb.) H. Olivier → *Miriquidica leucophaea* (Flörke ex Rabenh.) Hertel et Rambold  
*Lecidea ocellulata* (Schaer.) Th. Fr. → *Lecidea fuscoatra* (L.) Ach.  
*Lecidea panaeoloides* Nyl. → *Miriquidica leucophaea* (Flörke ex Rabenh.) Hertel et Rambold  
*Lecidea pycnocarpa* (Körb.) Ohlert → *Miriquidica pycnocarpa* (Körb.) Andreev  
*Lecidella bullata* auct. → *Lecanora marginata* agg.  
*Lecidella stigmataea* (Ach.) Hertel et Leuckert p.p. → *Lecidella patavina* (A. Massal.) Knoph et Leuckert  
*Lepraria botryoides* (L.) Ach. → *Lichenomphalia umbellifera* (L.: Fr.) Redhead et al.  
*Lepraria cacuminum* (A. Massal.) Loht. → *Lepraria alpina* (de Lesd.) Tretiach et Baruffo  
*Lepraria citrina* (Schaer.) Rabenh. → *Chrysothrix candelaris* (L.) J. R. Laundon  
*Lepraria neglecta* "auct." p.p. → *Lepraria neglecta* (Nyl.) Erichsen  
*Leptroloma membranaceum* (Dicks.) J. R. Laundon → *Lepraria membranacea* (Dicks.) Vain.  
*Leptroloma vouauxii* (Hue) J. R. Laundon → *Lepraria vouauxii* (Hue) R. C. Harris  
*Leptogium byssinum* (Hoffm.) Zwackh ex Nyl. → *Epiphloea byssina* (Hoffm.) Henssen et P. M. Jørg.  
*Leptogium corniculatum* (Hoffm.) Minks → *Leptogium palmatum* (Huds.) Mont.  
*Lopadium pezizoideum* auct. bohém. → *Lopadium disciforme* (Flot.) Kullh.

- Megalaria pulverea* (Borrer) Hafellner et E. Schreiner → *Catillochroma pulverea* (Borrer) Kalb  
*Micarea assimilata* (Nyl.) Coppins sensu auct. medioeurop. → ?*Helocarpon crassipes* Th. Fr.  
*Micarea granulans* (Vain.) Timdal → *Micarea submilliaria* (Nyl.) Coppins  
*Micarea prasina* Fr. p.p. → *Micarea micrococca* (Körb.) Gams ex Coppins  
*Micarea ternaria* sensu Vězda et auct. al. [non (Nyl.) Vězda] → *Micarea lignaria* (Ach.) Hedl.  
*Miriquidica leucophaea* (Flörke ex Rabenh.) Hertel et Rambold p.p. → *Miriquidica griseoatra* (Flot.) Hertel et Rambold  
*Miriquidica liljenstroemii* (Du Rietz) R. Sant. ined. → *Miriquidica nigroleprosa* (Vain.) Hertel et Rambold /var. *liljenstroemii* (Du Rietz) Owe-Larss./  
*Mycobilimbia berengeriana* (A. Massal.) Hafellner et V. Wirth → *Lecidea berengeriana* (A. Massal.) Th. Fr.  
*Mycobilimbia fusca* (A. Massal.) Hafellner et V. Wirth → *Mycobilimbia tetramera* (De Not.) Vitik. et al.  
*Mycobilimbia hypnorum* (Lib.) Kalb et Hafellner → *Lecidea hypnorum* Lib.  
*Mycobilimbia hypnorum* (Lib.) Kalb et Hafellner p.p. → *Lecidea sanguineoatra* auct.  
*Mycobilimbia lobulata* (Sommerf.) Hafellner → *Bilimbia lobulata* (Sommerf.) Hafellner et Coppins  
*Mycobilimbia microcarpa* (Th. Fr.) Brunnb. → *Bilimbia microcarpa* (Th. Fr.) Th. Fr.  
*Mycobilimbia sabuletorum* (Schreb.) Hafellner → *Bilimbia sabuletorum* (Schreb.) Arnold  
*Mycobilimbia sabuletorum* (Schreb.) Hafellner p.p. → *Bilimbia accedens* Arnold  
*Omphalina hudsoniana* (H. S. Jenn.) H. E. Bigelow → *Lichenomphalia hudsoniana* (H. S. Jenn.) Redhead et al.  
*Omphalina umbellifera* (L: Fr.) Quéf. → *Lichenomphalia umbellifera* (L.: Fr.) Redhead et al.  
*Opegrapha illecebrosa* Dufour → *Lecanographa amylacea* (Ehrh. ex Pers.) Egea et Torrente  
*Opegrapha lyncea* (Sm.) Borrer → *Lecanographa lyncea* (Sm.) Egea et Torrente  
*Pannaria pezizoides* (Weber) Trevis. → *Protopannaria pezizoides* (Weber) P. M. Jørg. et S. Ekman  
*Parmelia acetabulum* (Neck.) Duby → *Pleurosticta acetabulum* (Neck.) Elix et Lumbsch  
*Parmelia caperata* (L.) Ach. → *Flavoparmelia caperata* (L.) Hale  
*Parmelia centrifuga* (L.) Ach. → *Arctoparmelia centrifuga* (L.) Hale  
*Parmelia conspersa* (Ehrh. ex Ach.) Ach. → *Xanthoparmelia conspersa* (Ach.) Hale  
*Parmelia disjuncta* Erichsen → *Melanelia disjuncta* (Erichsen) Essl.  
*Parmelia elegantula* (Zahlbr.) Szatala → *Melanelia elegantula* (Zahlbr.) Essl.  
*Parmelia exasperata* De Not. → *Melanelia exasperata* (De Not.) Essl.  
*Parmelia exasperatula* Nyl. → *Melanelia exasperatula* (Nyl.) Essl.  
*Parmelia flaventior* Stirt. → *Flavopunctelia flaventior* (Stirt.) Hale  
*Parmelia fuliginosa* (Fr. ex Duby) Nyl. → *Melanelia fuliginosa* (Fr. ex Duby) Essl.  
*Parmelia glabra* (Schaer.) Nyl. → *Melanelia glabra* (Schaer.) Essl.  
*Parmelia incurva* (Pers.) Fr. → *Arctoparmelia incurva* (Pers.) Hale  
*Parmelia infumata* Nyl. → *Melanelia infumata* (Nyl.) Essl.  
*Parmelia laciniatula* (Flagey ex H. Olivier) Zahlbr. → *Melanelia laciniatula* (Flagey ex H. Olivier) Essl.  
*Parmelia loxodes* Nyl. → *Xanthoparmelia loxodes* (Nyl.) O. Blanco et al.  
*Parmelia mougeotii* Schaer. ex D. Dietr. → *Xanthoparmelia mougeotii* (Schaer. ex D. Dietr.) Hale  
*Parmelia olivacea* (L.) Ach. → *Melanelia olivacea* (L.) Essl.  
*Parmelia omphalodes* (L.) Ach. p.p. → *Parmelia pinnatifida* Kurok.  
*Parmelia omphalodes* (L.) Ach. p.p. → *Parmelia discordans* Nyl.  
*Parmelia panniformis* (Nyl.) Vain. → *Melanelia panniformis* (Nyl.) Essl.  
*Parmelia pastillifera* (Harm.) R. Schub. et Klem. → *Parmelina pastillifera* (Harm.) Hale  
*Parmelia protomatrae* Gyeln. → *Xanthoparmelia protomatrae* (Gyeln.) Hale  
*Parmelia pseudohungarica* (Gyeln.) Gyeln. → *Xanthoparmelia pulvinaris* (Gyeln.) Ahti et D. Hawksw.  
*Parmelia pulla* Ach. → *Xanthoparmelia pulla* (Ach.) O. Blanco et al.  
*Parmelia quercina* (Willd.) Vain. → *Parmelina quercina* (Willd.) Hale  
*Parmelia revoluta* Flörke → *Hypotrachyna revoluta* (Flörke) Hale  
*Parmelia septentrionalis* (Lyngé) Ahti → *Melanelia septentrionalis* (Lyngé) Essl.  
*Parmelia sinuosa* (Sm.) Ach. → *Hypotrachyna sinuosa* (Sm.) Hale  
*Parmelia somloënsis* Gyeln. → *Xanthoparmelia stenophylla* (Ach.) Ahti et D. Hawksw.  
*Parmelia sorediata* (Ach.) Th. Fr. → *Melanelia sorediata* (Ach.) Goward et Ahti  
*Parmelia stygia* (L.) Ach. → *Melanelia stygia* (L.) Essl.  
*Parmelia subargentifera* Nyl. → *Melanelia subargentifera* (Nyl.) Essl.  
*Parmelia subaurifera* Nyl. → *Melanelia subaurifera* (Nyl.) Essl.  
*Parmelia subrudecta* Nyl. p.p. → *Punctelia jeckeri* (Roum.) Kalb  
*Parmelia tiliacea* (Hoffm.) Ach. → *Parmelina tiliacea* (Hoffm.) Hale

- Parmelia tinctina* Maheu et A. Gillet → *Xanthoparmelia tinctina* (Maheu et A. Gillet) Hale  
*Parmelia verruculifera* Nyl. → *Xanthoparmelia verruculifera* (Nyl.) O. Blanco et al.  
*Parmotrema chinense* (Osbeck) Hale et Ahti → *Parmotrema perlatum* (Huds.) M. Choisy  
*Pertusaria multipuncta* auct. → *Pertusaria ophthalmiza* (Nyl.) Nyl.  
*Petractis hypoleuca* (Ach.) Vězda → *Gyalecta hypoleuca* (Ach.) Zahlbr.  
*Phaeophyscia cernohorskyi* (Nádv.) Essl. → *Phaeophyscia hirsuta* (Mereschk.) Essl.  
*Physcia biziana* (A. Massal.) Zahlbr. (var. *aipolioides* Nádv.) → *Physcia aipolioides* (Nádv.) Breuss et Türk  
*Physcia teretiuscula* (Ach.) Lyngby → *Physcia dubia* (Hoffm.) Lettau  
*Polyblastia abstrahenda* Arnold → *Polyblastia fuscoargillacea* Anzi  
*Polyblastia alpina* (Metzler ex Zschacke) → *Polyblastia albida* Arnold  
*Polyblastia austriaca* (Zschacke) Servít (var. *kovariana* Servít) → *Thelidium incavatum* Mudd  
*Polyblastia microcarpa* (Arnold) Lettau → *Polyblastia cupularis* A. Massal.  
*Polyblastia gelatinosa* (Ach.) Th. Fr. → *Agonimia gelatinosa* (Ach.) M. Brand et Diederich  
*Polyblastia vouauxii* de Lesd. → *Agonimia vouauxii* (de Lesd.) M. Brand et Diederich  
*Porina olivacea* (Pers.) A. L. Sm. → *Porina borrieri* (Trev.) D. Hawksw. et P. James  
*Porina thuretii* (Hepp) Lettau → *Strigula stigmatella* (Ach.) R. C. Harris  
*Porpidia glaucophaea* (Körb.) Hertel et Knoph → *Porpidia rugosa* (Taylor) Coppins et Fryday  
*Porpidia musiva* (Körb.) Hertel et Knoph → *Porpidia cinereoatra* (Ach.) Hertel et Knoph  
*Protoparmelia picea* auct. → *Protoparmelia memnonica* Hafellner et Türk  
*Pyrrhospora cinnabarina* (Sommerf.) M. Choisy → *Ramboldia cinnabarina* (Sommerf.) Kalb, Lumbsch et Elix  
*Pyrrhospora elabens* (Fr.) Hafellner → *Ramboldia elabens* (Fr.) Kantvilas et Elix  
*Rhizocarpon obscuratum* auct. → *Rhizocarpon reductum* Th. Fr.  
*Rinodina gennarii* Bagl. → *Rinodina oleae* Bagl.  
*Rinodina mucronatula* H. Magn. → *Rinodina terrestris* Tomin  
*Sclerophora nivea* (Hoffm.) Tibell → *Sclerophora pallida* (Pers.) Y. J. Jao et Spooner  
*Scoliciosporum schadeanum* (Erichsen) Vězda p.p. → *Bacidia hemipolia* (Nyl.) Malmé  
*Solorinella asteriscus* Anzi → *Gyalidea asteriscus* (Anzi) Aptroot et Lücking  
*Sphaerophorus melanocarpus* (Sw.) DC. → *Bunodophoron melanocarpum* (Sw.) Wedin  
*Stenhammarella turgida* (Ach.) Hertel → *Porpidia turgida* (Ach.) Cl. Roux et P. Clerc  
*Strangospora ochrophora* (Nyl.) R. A. Anderson → *Piccolia ochrophora* (Nyl.) Hafellner  
*Tephromela aglaea* (Sommerf.) Hertel et Rambold → *Calvitimela aglaea* (Sommerf.) Hafellner  
*Tephromela armeniaca* (DC.) Hertel et Rambold → *Calvitimela armeniaca* (DC.) Hafellner  
*Thamnomia subuliformis* (Ehrh.) W. L. Culb. → *Thamnomia vermicularis* (Sw.) Schaer.  
*Thelidium aeneovinosum* (Anzi) Arnold → *Thelidium methorium* (Nyl.) Hellb.  
*Thelidium cataractarum* (Hepp) Lönnr. → *Thelidium fontigenum* A. Massal.  
*Thelidium olivascens* (Zahlbr.) J. Nowak et Tobol. → *Thelidium zwackhii* (Hepp) A. Massal.  
*Trapelia geochroa* (Körb.) Hertel → *Ainoa geochroa* (Körb.) Lumbsch et I. Schmitt  
*Trapelia mooreana* (Carroll) P. James → *Ainoa mooreana* (Carroll) Lumbsch et I. Schmitt  
*Usnea barbata* (L.) Weber ex F. H. Wigg. → *Usnea scabrata* Nyl.  
*Usnea faginea* Motyka → *Usnea intermedia* (A. Massal.) Jatta  
*Usnea rigida* (Ach.) Röhl. → *Usnea intermedia* (A. Massal.) Jatta  
*Verrucaria alutacea* Wallr. → *Verrucaria fuscella* agg.  
*Verrucaria anziana* Garov. → *Verrucaria latebrosa* Körb.  
*Verrucaria boccana* Servít → *Placidium boccanum* (Servít) Breuss  
*Verrucaria brachyspora* Arnold → *Verrucaria murina* Leight.  
*Verrucaria caesiella* Servít → *Verrucaria baldensis* A. Massal.  
*Verrucaria calcaria* (Arnold) Zschacke → *Verrucaria hydrela* Ach.  
*Verrucaria collematodes* Garov. → *Verrucaria nigrescens* Pers.  
*Verrucaria congregata* Hepp → *Verrucaria dolosa* Hepp  
*Verrucaria crassa* (A. Massal.) Eschw. → *Thelidium decipiens* (Nyl.) Kremp.  
*Verrucaria czernaensis* Zschacke → ?*Verrucaria aethiobola* Wahlenb.  
*Verrucaria dolosa* Hepp. p.p. → *Verrucaria floerkeana* Dalla Torre et Sarnth.  
*Verrucaria denudata* Zschacke → *Verrucaria hydrela* Ach.  
*Verrucaria ferruginosa* "Nyl." → *Verrucaria muralis* Ach.  
*Verrucaria funkiana* Servít → *Verrucaria nigrescens* Pers.  
*Verrucaria fuscocinerascens* Nyl. → *Verrucaria aethiobola* Wahlenb.  
*Verrucaria granitica* Servít → *Verrucaria praetermissa* (Trevis.) Anzi

*Verrucaria griseoatra* (Kremp.) Servít → *Verrucaria fuscella* agg.  
*Verrucaria guestphalica* Servít → *Verrucaria praetermissa* (Trevis.) Anzi  
*Verrucaria hochstetteri* Fr. p.p. → *Verrucaria foveolata* (Flörke) A. Massal.  
*Verrucaria krempelhuberi* Lindau → *Verrucaria dolosa* Hepp  
*Verrucaria mauroides* Schaer. → *Verrucaria viridula* (Schrad.) Ach.  
*Verrucaria muralis* Ach. p.p. → *Verrucaria confluens* A. Massal.  
*Verrucaria polygonia* Körb. → *Verrucaria viridula* (Schrad.) Ach.  
*Verrucaria praecellens* (Arnold) Servít → *Verrucaria hochstetteri* Fr.  
*Verrucaria pseudolivacea* Nyl. ex Hue → *Thelidium olivaceum* (Fr.) Körb.  
*Verrucaria rubescens* Timkó → *Placopyrenium rubescens* (Timkó) Breuss  
*Verrucaria sagedioides* Servít → *Verrucaria rheitrophila* Zschacke  
*Verrucaria schistosa* Servít → *Verrucaria aquatilis* Mudd  
*Verrucaria sparsula* Nyl. → *Thelidium zwackhii* (Hepp) A. Massal.  
*Verrucaria subhydrella* Servít → *Verrucaria hydrela* Ach.  
*Verrucaria subfuscella* Nyl. → *Verrucaria polysticta* Borrer  
*Verrucaria subfuscella* sensu Wirth 1995 → *Verrucaria fuscella* (Turner) Winch et Thornhill  
*Verrucaria submersella* Servít → *Verrucaria hydrela* Ach.  
*Verrucaria velana* (A. Massal.) Zahlbr. → *Verrucaria macrostoma* Dufour ex DC.

### Checklist and Red List

- Absconditella celata* Döbbeler et Poelt **DD**  
*Absconditella delutula* (Nyl.) Coppins et H. Kilius **NT**  
*Absconditella lignicola* Vězda et Pišút **LC**  
*Absconditella pauxilla* Vězda et Vivant **DD**  
*Absconditella sphagnum* Vězda et Poelt **VU**  
*Absconditella trivialis* (Willey ex Tuck.) Vězda **DD**  
*Acarospora badiofusca* (Nyl.) Th. Fr. **VU**  
*Acarospora cervina* A. Massal. **NT**  
*Acarospora erythrocarpa* (Malbr.) Hue **NE**  
*Acarospora fuscata* (Schrad.) Th. Fr. **LC**  
*Acarospora gallica* H. Magn. **DD**  
*Acarospora glaucocarpa* (Ach.) Körb. **NT**  
*Acarospora impressula* Th. Fr. **NT**  
*Acarospora insolata* H. Magn. **DD**  
*Acarospora macropora* (Hepp) A. Massal. ex Bagl. **NT**  
*Acarospora nitrophila* H. Magn. **LC**  
*Acarospora oligospora* (Nyl.) Arnold **DD**  
*Acarospora peliscypha* Th. Fr. **NE**  
*Acarospora rugulosa* Körb. **VU**  
*Acarospora sinopica* (Wahlenb.) Körb. **VU**  
*Acarospora smaragdula* (Wahlenb.) A. Massal. **NT**  
*Acarospora suzai* H. Magn. **DD**  
*Acarospora umbilicata* Bagl. **NT**  
*Acarospora veronensis* A. Massal. **NT**  
*Acarospora versicolor* Bagl. et Carestia **VU**  
*Acrocordia conoidea* (Fr.) Körb. **DD**  
*Acrocordia gemmata* (Ach.) A. Massal. **EN**  
*Acrocordia salweyi* (Leight. ex Nyl.) A. L. Sm. **EN**  
*Acrocordia subglobosa* (Vězda) Poelt **DD**  
*Adelolecia pilati* (Hepp) Hertel et Hafellner **VU**  
*Agonimia allobata* (Stizenb.) P. James **DD**  
*Agonimia gelatinosa* (Ach.) M. Brand et Diederich **EN**  
*Agonimia opuntiella* (Buschardt et Poelt) Vězda **NT**  
*Agonimia repleta* Czarnota et Coppins **DD**  
*Agonimia tristicula* (Nyl.) Zahlbr. **LC**
- Agonimia vouauxii* (de Lesd.) M. Brand et Diederich **DD**  
*Ainoa geochroa* (Körb.) Lumbsch et I. Schmitt **CR**  
*Ainoa mooreana* (Carroll) Lumbsch et I. Schmitt **VU**  
*Alectoria nigricans* (Ach.) Nyl. **EN**  
*Alectoria ochroleuca* (Hoffm.) A. Massal. **VU**  
*Alectoria sarmentosa* (Ach.) Ach. **CR**  
*Allantoparmelia alpicola* (Th. Fr.) Essl. **EN**  
*Amandinea punctata* (Hoffm.) Coppins et Scheid. **LC**  
*Anaptychia bryorum* Poelt **RE**  
*Anaptychia ciliaris* (L.) Körb. **CR**  
*Anaptychia crinalis* (Schleich.) Vězda ex J. Nowak **NE**  
*Anema decipiens* (A. Massal.) Forssell **NT**  
*Anema notarisii* (A. Massal.) Forssell **DD**  
*Anema nummularium* (Dufour et Mont.) Nyl. **EN**  
*Anema prodigulum* (Nyl.) Henssen **DD**  
*Anema tumidulum* Henssen ined. **DD**  
*Anisomeridium bifforme* (Borrer) R. C. Harris **DD**  
*Anisomeridium polypori* (Ellis et Everh.) M. E. Barr **LC**  
*Anzina carneonivea* (Anzi) Scheid. **VU**  
*Aphanopsis coenosa* (Ach.) Coppins et P. James **DD**  
*Arctoparmelia centrifuga* (L.) Hale **CR**  
*Arctoparmelia incurva* (Pers.) Hale **NT**  
*Arthonia arthonioides* (Ach.) A. L. Sm. **VU**  
*Arthonia athroa* W. Mann **NE**  
*Arthonia byssacea* (Weigel) Almq. **RE**  
*Arthonia calcicola* Nyl. **DD**  
*Arthonia cinereopruinosa* Schaer. **RE**  
*Arthonia cinnabarina* (DC.) Wallr. **RE**  
*Arthonia didyma* Körb. **VU**  
*Arthonia dispersa* (Schrad.) Nyl. **EN**  
*Arthonia elegans* (Ach.) Almq. **RE**  
*Arthonia endlicheri* (Garov.) Oxner **RE**  
*Arthonia exilis* (Flörke) Anzi s.lat. **EN**  
*Arthonia fuliginosa* (Turner et Borrer) Flot. **RE**  
*Arthonia fusca* (A. Massal.) Hepp **NT**

- Arthonia galactites* (DC.) Dufour **RE**  
*Arthonia helvola* (Nyl.) Nyl. **VU**  
*Arthonia leucopellaea* (Ach.) Almq. **EN**  
*Arthonia mediella* Nyl. **VU**  
*Arthonia muscigena* Th. Fr. **NT**  
*Arthonia pruinata* (Pers.) A. L. Sm. **RE**  
*Arthonia radiata* (Pers.) Ach. **VU**  
*Arthonia reniformis* (Pers.) Röhl. **RE**  
*Arthonia ruana* A. Massal. **VU**  
*Arthonia spadicea* Leight. **NT**  
*Arthonia vinosa* Leight. **VU**  
*Arthopyrenia salicis* A. Massal. **DD**  
*Arthothelium spectabile* Flot. ex A. Massal. **RE**  
*Arthrorhaphis alpina* (Schaer.) R. Sant **DD**  
*Arthrorhaphis citrinella* (Ach.) Poelt **LC**  
*Arthrorhaphis grisea* Th. Fr. **LC**  
*Arthrosporium populorum* A. Massal. **RE**  
*Aspicilia aquatica* Körb. **DD**  
*Aspicilia arenaria* Eitner **NE**  
*Aspicilia caesiocinerea* (Nyl. ex Malbr.) Arnold **LC**  
*Aspicilia calcarea* (L.) Mudd **LC**  
*Aspicilia cinerea* (L.) Körb. **NT**  
*Aspicilia conglomerans* (Nyl.) Kernst. **DD**  
*Aspicilia contorta* (Hoffm.) Kremp. **LC**  
*Aspicilia coronata* (A. Massal.) Anzi **DD**  
*Aspicilia dominiana* (Servít) Szatala **CR**  
*Aspicilia erigens* (Anders) **NE**  
*Aspicilia farinosa* (Flörke) Arnold **DD**  
*Aspicilia gibbosa* (Ach.) Körb. **DD**  
*Aspicilia grisea* Arnold **DD**  
*Aspicilia intermutans* (Nyl.) Arnold **DD**  
*Aspicilia klementii* (Anders) **NE**  
*Aspicilia laevata* (Ach.) Arnold **NT**  
*Aspicilia moenium* (Vain.) G. Thor et Timdal **LC**  
*Aspicilia obscura* (H. Magn.) T. Müll. **DD**  
*Aspicilia recedens* (Taylor) Arnold **VU**  
*Aspicilia sanguinolenta* (Anders) Creveld **DD**  
*Aspicilia serpentinicola* (Suza), nom. nud. **NE**  
*Aspicilia simoënsis* Räsänen **DD**  
*Aspicilia zonata* (Ach.) R. Sant. **NE**  
*Aspilidea myrinii* (Fr.) Hafellner **DD**  
*Bacidia adastrata* Sparrius et Aptroot **DD**  
*Bacidia arceutina* (Ach.) Arnold **EN**  
*Bacidia auerswaldii* (Hepp ex Stizenb.) Mig. **RE**  
*Bacidia bagliettoana* (A. Massal. et De Not.) Jatta **LC**  
*Bacidia beckhausii* Körb. **VU**  
*Bacidia biatorina* (Körb.) Vain. **CR**  
*Bacidia carneoglauca* (Nyl.) A. L. Sm. **VU**  
*Bacidia circumspecta* (Nyl. ex Vain.) Malme **CR**  
*Bacidia coniangioides* (Eitner) Zahlbr. **NE**  
*Bacidia coprodes* (Körb.) Lettau **DD**  
*Bacidia fraxinea* Lönnr. **EN**  
*Bacidia friesiana* (Hepp) Körb. **RE**  
*Bacidia fuscoviridis* (Anzi) Lettau **LC**  
*Bacidia hemipolia* (Nyl.) Malme **VU**  
*Bacidia herbarum* (Stizenb.) Arnold **VU**  
*Bacidia igniarii* (Nyl.) Oxner **RE**  
*Bacidia incompta* (Borrer) Anzi **CR**  
*Bacidia laurocerasi* (Delise ex Duby) Zahlbr. **RE**  
*Bacidia polychroa* (Th. Fr.) Körb. **CR**  
*Bacidia pycnidata* Czarnota et Coppins **DD**  
*Bacidia rosella* (Pers.) De Not. **EN**  
*Bacidia rubella* (Hoffm.) A. Massal. **VU**  
*Bacidia subincompta* (Nyl.) Arnold **VU**  
*Bacidia trachona* (Ach.) Lettau **VU**  
*Bacidia vermifera* (Nyl.) Th. Fr. **CR**  
*Bacidia viridescens* (A. Massal.) Norman **DD**  
*Bacidia viridifarinoso* Coppins et P. James **VU**  
*Bacidina arnoldiana* (Körb.) V. Wirth et Vězda **LC**  
*Bacidina assulata* (Körb.) S. Ekman **DD**  
*Bacidina chlorotricula* (Nyl.) Vězda et Poelt **LC**  
*Bacidina delicata* (Larbal. ex Leight.) V. Wirth et Vězda **DD**  
*Bacidina egenula* (Nyl.) Vězda **DD**  
*Bacidina inundata* (Fr.) Vězda **VU**  
*Bacidina neglecta* (Vězda) Vězda **DD**  
*Bacidina neosquamulosa* (Aptroot et Herk) S. Ekman **DD**  
*Bacidina phacodes* (Körb.) Vězda **EN**  
*Bactrospora dryina* (Ach.) A. Massal. **RE**  
*Baeomyces carneus* Flörke **DD**  
*Baeomyces placophyllus* Ach. **EN**  
*Baeomyces rufus* (Huds.) Rebert. **LC**  
*Bellemerea alpina* (Sommerf.) Clauzade et Cl. Roux **NT**  
*Bellemerea cinereorufescens* (Ach.) Clauzade et Cl. Roux **VU**  
*Bellemerea diamarta* (Ach.) Hafellner et Cl. Roux. **VU**  
*Bellemerea sanguinea* (Kremp.) Hafellner et Cl. Roux **DD**  
*Belonia herculina* (Rehm ex Lojka) Hazsl. **RE**  
*Belonia incarnata* Th. Fr. et Graewe ex Th. Fr. **EN**  
*Belonia russula* Körb. ex Nyl. **EN**  
*Biatora albohyalina* (Nyl.) Bagl. et Carestia **EN**  
*Biatora chrysantha* (Zahlbr.) Printzen **VU**  
*Biatora efflorescens* (Hedl.) Räsänen **VU**  
*Biatora fallax* Hepp **EN**  
*Biatora globulosa* (Flörke) Fr. **VU**  
*Biatora helvola* Körb. ex Hellb. **EN**  
*Biatora mendax* Anzi **CR**  
*Biatora ocelliformis* (Nyl.) Arnold **EN**  
*Biatora sphaeroidiza* (Vain.) Printzen et Holien **EN**  
*Biatora vernalis* (L.) Fr. **NE**  
*Biatorella germanica* A. Massal. ex Körb. **CR**  
*Biatorella hemisphaerica* Anzi **RE**  
*Biatoridium monasteriense* J. Lahm ex Körb. **VU**  
*Bilimbia accedens* Arnold **DD**  
*Bilimbia lobulata* (Sommerf.) Hafellner et Coppins **EN**  
*Bilimbia microcarpa* (Th. Fr.) Th. Fr. **VU**  
*Bilimbia sabuletorum* (Schreb.) Arnold s.str. **LC**  
*Botryolepraria lesdainii* (Hue) Canals et al. **NT**  
*Brigantiaea fuscolutea* (Dicks.) R. Sant. **RE**  
*Brodoa atrofusca* (Schaer.) Goward **CR**  
*Brodoa intestiniformis* (Will.) Goward **NT**

- Bryophagus gloeocapsa* Nitschke ex Arnold **LC**  
*Bryoria bicolor* (Ehrh.) Brodo et D. Hawksw. **CR**  
*Bryoria capillaris* (Ach.) Brodo et D. Hawksw. **CR**  
*Bryoria chalybeiformis* auct. **NE**  
*Bryoria fuscescens* (Gyeln.) Brodo et D. Hawksw. **VU**  
*Bryoria implexa* (Hoffm.) Brodo et D. Hawksw. **EN**  
*Bryoria lanestrus* (Ach.) Brodo et D. Hawksw. **RE**  
*Bryoria nadvornikiana* (Gyeln.) Brodo et D. Hawksw. **EN**  
*Bryoria subcana* (Nyl. ex Stizenb.) Brodo et D. Hawksw. **CR**  
*Buellia aethalea* (Ach.) Th. Fr. **LC**  
*Buellia badia* (Fr.) A. Massal. **NT**  
*Buellia disciformis* (Fr.) Mudd **VU**  
*Buellia epigaea* (Pers.) Tuck. **CR**  
*Buellia erubescens* Arnold **CR**  
*Buellia griseovirens* (Turner et Borrer ex Sm.) Almb. **LC**  
*Buellia leptoclone* (Flot.) A. Massal. **DD**  
*Buellia schaeferi* De Not. **VU**  
*Buellia spuria* (Schaer.) Anzi **DD**  
*Buellia stellulata* (Taylor) Mudd **DD**  
*Buellia uberior* Anzi **DD**  
*Bunodophoron melanocarpum* (Sw.) Wedin **CR**  
*Byssoloma marginatum* (Arnold) Sérus. **DD**  
*Calicium abietinum* Pers. **CR**  
*Calicium adpersum* Pers. **EN**  
*Calicium corynellum* Ach. ex Hepp **DD**  
*Calicium glaucellum* Ach. **NT**  
*Calicium lenticulare* Ach. **RE**  
*Calicium parvum* Tibell **EN**  
*Calicium pinastri* Tibell **VU**  
*Calicium quercinum* Pers. **RE**  
*Calicium salicinum* Pers. **VU**  
*Calicium trabinellum* (Ach.) Ach. **VU**  
*Calicium viride* Pers. **VU**  
*Caloplaca albolutescens* (Nyl.) H. Olivier **VU**  
*Caloplaca alociza* (A. Massal.) Mig. **DD**  
*Caloplaca ammiospila* (Wahlenb.) H. Olivier **RE**  
*Caloplaca aractina* (Fr.) Häyrén **VU**  
*Caloplaca arenaria* (Pers.) Müll. Arg. **NT**  
*Caloplaca arnoldii* (Wedd.) Zahlbr. ex Ginzb. **CR**  
*Caloplaca aurantia* (Pers.) Hellb. **VU**  
*Caloplaca biatorina* (A. Massal.) J. Steiner **EN**  
*Caloplaca cerina* (Ehrh. ex Hedw.) Th. Fr. s.str. **VU**  
*Caloplaca cerinella* (Nyl.) Flagey **VU**  
*Caloplaca cerinelloides* (Erichsen) Poelt **DD**  
*Caloplaca chalybaea* (Fr.) Müll. Arg. **NT**  
*Caloplaca chlorina* (Flot.) H. Olivier **LC**  
*Caloplaca chrysodeta* (Vain. ex Räsänen) Domb. **NT**  
*Caloplaca cirrochroa* (Ach.) Th. Fr. **NT**  
*Caloplaca citrina* (Hoffm.) Th. Fr. **LC**  
*Caloplaca conversa* (Kremp.) Jatta **CR**  
*Caloplaca coronata* (Kremp. ex Körb.) J. Steiner **NT**  
*Caloplaca crenularia* (With.) J. R. Laundon **EN**  
*Caloplaca crenulatella* (Nyl.) H. Olivier **LC**  
*Caloplaca decipiens* (Arnold) Blomb. et Forssell **LC**  
*Caloplaca demissa* (Körb.) Arup et Grube **NT**  
*Caloplaca dichroa* Arup **DD**  
*Caloplaca epithallina* Lyngé **CR**  
*Caloplaca erodens* Tretiach, Pinna et Grube **VU**  
*Caloplaca ferruginea* (Huds.) Th. Fr. **RE**  
*Caloplaca fimbriata* (Eitner) Zahlbr. **NE**  
*Caloplaca flavescens* (Huds.) J. R. Laundon **VU**  
*Caloplaca flavocitrina* (Nyl.) H. Olivier **LC**  
*Caloplaca flavorubescens* (Huds.) J. R. Laundon **RE**  
*Caloplaca flavovirescens* (Wulfen) Della Torre et Sarnth. **NT**  
*Caloplaca granulosa* (Müll. Arg.) Jatta **RE**  
*Caloplaca grimmiae* (Nyl.) H. Olivier **NT**  
*Caloplaca herbidella* (Hue) H. Magn. **CR**  
*Caloplaca holocarpa* (Hoffm. ex Ach.) A. E. Wade s.lat. **LC**  
*Caloplaca inconnexa* (Nyl.) Zahlbr. **VU**  
*Caloplaca irrubescens* (Arnold) Zahlbr. **VU**  
*Caloplaca lactea* (A. Massal.) Zahlbr. **DD**  
*Caloplaca lobulata* (Flörke) Hellb. **CR**  
*Caloplaca lucifuga* G. Thor **EN**  
*Caloplaca luteoalba* (Turner) Th. Fr. **DD**  
*Caloplaca magni-filii* Poelt **CR**  
*Caloplaca marmorata* (Bagl.) Jatta **NT**  
*Caloplaca nivalis* (Körb.) Th. Fr. **RE**  
*Caloplaca obliterans* (Nyl.) Blomb. et Forssell **EN**  
*Caloplaca obscurella* (Körb.) Th. Fr. **NT**  
*Caloplaca ochracea* (Schaer.) Flagey **VU**  
*Caloplaca oxfordensis* Fink ex J. Hedrick **VU**  
*Caloplaca phlogina* (Ach.) Flagey **DD**  
*Caloplaca polycarpa* (A. Massal.) Zahlbr. **VU**  
*Caloplaca rubelliana* (Ach.) Lojka **CR**  
*Caloplaca saxicola* (Hoffm.) Nordin **LC**  
*Caloplaca scotoplaca* (Nyl.) H. Magn. **NE**  
*Caloplaca sinapisperma* (Lam. et DC.) Maheu et A. Gillet **EN**  
*Caloplaca soralifera* Vondrák et Hrouzek **LC**  
*Caloplaca stillicidiorum* (Vahl) Lyngé **VU**  
*Caloplaca teicholyta* (Ach.) J. Steiner **LC**  
*Caloplaca thuringiaca* Söchting et Stordeur **VU**  
*Caloplaca variabilis* (Pers.) Müll. Arg. **LC**  
*Caloplaca velana* (A. Massal.) Du Rietz **LC**  
*Caloplaca vitellinula* auct. **NE**  
*Caloplaca xantholyta* (Nyl.) Jatta **NT**  
*Caloplaca xerica* Poelt et Vězda **VU**  
*Calvitimela aglaea* (Sommerf.) Hafellner **VU**  
*Calvitimela armeniaca* (DC.) Hafellner **VU**  
*Candelaria concolor* (Dicks.) Stein **NT**  
*Candelariella aurella* (Hoffm.) Zahlbr. **LC**  
*Candelariella coralliza* (Nyl.) H. Magn. **LC**  
*Candelariella kuusamoënsis* Räsänen **EN**  
*Candelariella medians* (Nyl.) A. L. Sm. **NT**  
*Candelariella reflexa* (Nyl.) Lettau **NT**  
*Candelariella vitellina* (Hoffm.) Müll. Arg. **LC**  
*Candelariella xanthostigma* (Ach.) Lettau **LC**  
*Carbonea assimilis* (Körb.) Hafellner et Hertel **DD**  
*Carbonea distans* (Kremp.) Hafellner et Obermayer **DD**



- Carbonea vorticosa* (Flörke) Hertel **VU**  
*Catapyrenium cinereum* (Pers.) Körb. **EN**  
*Catapyrenium daedaleum* (Kremp.) Stein **DD**  
*Catapyrenium michelii* (A. Massal.) R. Sant. **RE**  
*Catillaria alba* Coppins et Vězda **EN**  
*Catillaria chalybeia* (Borrer) A. Massal. **NT**  
*Catillaria contristans* (Nyl.) Zahlbr. **RE**  
*Catillaria lenticularis* (Ach.) Th. Fr. **NT**  
*Catillaria minuta* (A. Massal.) Lettau **DD**  
*Catillaria nigroclavata* (Nyl.) Schuler **VU**  
*Catillochroma pulvereae* (Borrer) Kalb **RE**  
*Catinaria atropurpurea* (Schaer.) Vězda et Poelt **EN**  
*Catinaria neuschildii* (Körb.) P. James **DD**  
*Catolechia wahlenbergii* (Ach.) Körb. **RE**  
*Cetraria aculeata* (Schreb.) Fr. **NT**  
*Cetraria ericetorum* Opiz **VU**  
*Cetraria islandica* (L.) Ach. **NT**  
*Cetraria muricata* (Ach.) Eckfeldt **DD**  
*Cetraria sepincola* (Ehrh.) Ach. **EN**  
*Cetrariella commixta* (Nyl.) A. Thell et Kärnefelt **VU**  
*Cetrelia cetrarioides* (Delise ex Duby) W. L. Culb. et C. F. Culb. **EN**  
*Cetrelia monachorum* (Zahlbr.) W. L. Culb. et C. F. Culb. **DD**  
*Cetrelia olivetorum* (Nyl.) W. L. Culb. et C. F. Culb. **DD**  
*Chaenotheca brachypoda* (Ach.) Tibell **VU**  
*Chaenotheca brunneola* (Ach.) Müll. Arg. **NT**  
*Chaenotheca cinerea* (Pers.) Tibell **RE**  
*Chaenotheca chlorella* (Ach.) Müll. Arg. **EN**  
*Chaenotheca chrysocephala* (Turner ex Ach.) Th. Fr. **NT**  
*Chaenotheca ferruginea* (Turner et Borrer) Mig. **LC**  
*Chaenotheca furfuracea* (L.) Tibell **LC**  
*Chaenotheca gracilentia* (Vain.) Mattsson et Middelb. **EN**  
*Chaenotheca hispidula* (Ach.) Zahlbr. **EN**  
*Chaenotheca laevigata* Nád. **CR**  
*Chaenotheca phaeocephala* (Turner) Th. Fr. **VU**  
*Chaenotheca sphaerocephala* Nád. **CR**  
*Chaenotheca stemonea* (Ach.) Müll. Arg. **VU**  
*Chaenotheca subroscida* (Eitner) Zahlbr. **RE**  
*Chaenotheca trichialis* (Ach.) Th. Fr. **NT**  
*Chaenotheca xyloxena* Nád. **VU**  
*Cheiromycina flabelliformis* B. Sutton **DD**  
*Chrysothrix candelaris* (L.) J. R. Laundon **VU**  
*Chrysothrix chlorina* (Ach.) J. R. Laundon **LC**  
*Cladonia acuminata* (Ach.) Norrl. **DD**  
*Cladonia amaurocraea* (Flörke) Schaer. **EN**  
*Cladonia arbuscula* (Wallr.) Flot. s.lat. **NT**  
*Cladonia bellidiflora* (Ach.) Schaer. **VU**  
*Cladonia borealis* S. Stenroos **DD**  
*Cladonia botrytes* (K. G. Hagen) Willd. **CR**  
*Cladonia brevis* (Sandst.) Sandst. **DD**  
*Cladonia caespiticia* (Pers.) Flörke **NT**  
*Cladonia cariosa* (Ach.) Spreng. **EN**  
*Cladonia carneola* (Fr.) Fr. **VU**  
*Cladonia cenotea* (Ach.) Schaer. **LC**  
*Cladonia cervicornis* (Ach.) Flot. s.str. **VU**  
*Cladonia chlorophaea* (Flörke ex Sommerf.) Spreng. **LC**  
*Cladonia ciliata* Stirt. **VU**  
*Cladonia coccifera* (L.) Willd. **LC**  
*Cladonia coniocraea* (Flörke) Spreng. **LC**  
*Cladonia convoluta* (Lam.) Anders **VU**  
*Cladonia cornuta* (L.) Hoffm. **VU**  
*Cladonia crispata* (Ach.) Flot. **EN**  
*Cladonia cryptochlorophaea* Asahina **DD**  
*Cladonia cyanipes* (Sommerf.) Nyl. **RE**  
*Cladonia decorticata* (Flörke) Spreng. **RE**  
*Cladonia deformis* (L.) Hoffm. **NT**  
*Cladonia digitata* (L.) Hoffm. **LC**  
*Cladonia fimbriata* (L.) Fr. **LC**  
*Cladonia floerkeana* (Fr.) Flörke **LC**  
*Cladonia foliacea* (Huds.) Willd. **NT**  
*Cladonia furcata* (Huds.) Schrad. **LC**  
*Cladonia glauca* Flörke **VU**  
*Cladonia gracilis* (L.) Willd. **LC**  
*Cladonia grayi* G. Merr. ex Sandst. **NT**  
*Cladonia incrassata* Flörke **CR**  
*Cladonia humilis* (With.) J. R. Laundon **DD**  
*Cladonia luteoalba* Wheldon et A. Wilson **DD**  
*Cladonia macilenta* Hoffm. **LC**  
*Cladonia macroceras* (Delise) Hav. **NT**  
*Cladonia macrophylla* (Schaer.) Stenh. **VU**  
*Cladonia merochlorophaea* Asahina **DD**  
*Cladonia metacorallifera* Asahina **DD**  
*Cladonia monomorpha* Aptroot, Sipman et Herk **DD**  
*Cladonia norvegica* Tønsberg et Holien **VU**  
*Cladonia ochrochlora* Flörke **LC**  
*Cladonia parasitica* (Hoffm.) Hoffm. **EN**  
*Cladonia peziziformis* (With.) J. R. Laundon **EN**  
*Cladonia phyllophora* Hoffm. **NT**  
*Cladonia pleurota* (Flörke) Schaer. **NT**  
*Cladonia pocillum* (Ach.) Grognot **LC**  
*Cladonia polycarpoides* Nyl. **VU**  
*Cladonia polydactyla* (Flörke) Spreng. **NT**  
*Cladonia portentosa* (Dufour) Coem. **EN**  
*Cladonia pyxidata* (L.) Hoffm. **LC**  
*Cladonia ramulosa* (With.) J. R. Laundon **NT**  
*Cladonia rangiferina* (L.) Weber ex F. H. Wigg. **NT**  
*Cladonia rangiformis* Hoffm. **NT**  
*Cladonia rei* Schaer. **LC**  
*Cladonia scabriuscula* (Delise) Nyl. **VU**  
*Cladonia squamosa* Hoffm. **LC**  
*Cladonia stellaris* (Opiz) Pouzar et Vězda **CR**  
*Cladonia strepsilis* (Ach.) Grognot **VU**  
*Cladonia stygia* (Fr.) Ruoss **NT**  
*Cladonia subcervicornis* (Vain.) Kernst. **CR**  
*Cladonia subulata* (L.) Weber ex F. H. Wigg. **LC**  
*Cladonia sulphurina* (Michx.) Fr. **VU**  
*Cladonia symphyrcarpia* (Flörke) Fr. **VU**  
*Cladonia turgida* Hoffm. **CR**  
*Cladonia uncialis* (L.) Weber ex F. H. Wigg. **NT**  
*Cladonia verticillata* (Hoffm.) Schaer. **NT**

- Cladonia zopffii* Vain. **RE**  
*Clauzadea chondrodes* (A. Massal.) Clauzade et Cl. Roux **DD**  
*Clauzadea immersa* (Hoffm.) Hafellner et Bellem. **DD**  
*Clauzadea metzleri* (Körb.) Clauzade et Cl. Roux ex D. Hawksw. **VU**  
*Clauzadea monticola* (Schaer.) Hafellner et Bellem. **NT**  
*Clauzadeana macula* (Taylor) Coppins et Rambold **VU**  
*Cliostomum corrugatum* (Ach.: Fr.) Fr. **RE**  
*Cliostomum griffithii* (Sm.) Coppins **RE**  
*Coenogonium luteum* (Dicks.) Kalb et Lücking **RE**  
*Coenogonium pineti* (Schrad. ex Ach.) Lücking et Lumbsch **LC**  
*Collema auriforme* (With.) Coppins et J. R. Laundon **NT**  
*Collema callopismum* A. Massal. **RE**  
*Collema coccophorum* Tuck. **EN**  
*Collema conglomeratum* Hoffm. **RE**  
*Collema crispum* (Huds.) Weber ex F. H. Wigg. **NT**  
*Collema cristatum* (L.) Weber ex F. H. Wigg. **NT**  
*Collema dichotomum* (With.) J. R. Laundon **RE**  
*Collema flaccidum* (Ach.) Ach. **NT**  
*Collema fragrans* (Sm.) Ach. **RE**  
*Collema fuscovirens* (With.) J. R. Laundon **LC**  
*Collema glebulentum* (Nyl. ex Cromb.) Degel. **CR**  
*Collema limosum* (Ach.) Ach. **NT**  
*Collema multipartitum* Sm. **RE**  
*Collema nigrescens* (Huds.) DC. **RE**  
*Collema occultatum* Bagl. **CR**  
*Collema polycarpon* Hoffm. **VU**  
*Collema tenax* (Sw.) Ach. **LC**  
*Collema undulatum* Laurer ex Flot. **EN**  
*Cornicularia normoerica* (Gunnerus) Du Rietz **RE**  
*Cresponea premnea* (Ach.) Egea et Torrente **RE**  
*Cresporhaphis wienkampii* (J. Lahm ex Hazsl.) M. B. Aguirre **RE**  
*Cryptothele rhodosticta* (Taylor) Henssen **DD**  
*Cyphelium inquinans* (Sm.) Trevis. **CR**  
*Cyphelium karelicum* (Vain.) Räsänen **CR**  
*Cyphelium lecideinum* (Nyl.) Trevis. **RE**  
*Cyphelium lucidum* (Th. Fr.) Th. Fr. **RE**  
*Cyphelium sessile* (Pers.) Trevis. **RE**  
*Cyphelium tigillare* (Ach.) Ach. **EN**  
*Cystocoleus ebeneus* (Dillwyn) Thwaites **NT**  
*Dermatocarpon bachmannii* Anders **RE**  
*Dermatocarpon leptophyllodes* (Nyl.) Zahlbr. **RE**  
*Dermatocarpon luridum* (With.) J. R. Laundon **VU**  
*Dermatocarpon meiophyllizum* Vain. **RE**  
*Dermatocarpon miniatum* (L.) W. Mann **NT**  
*Dibaëis baeomyces* (L. fil.) Rambold et Hertel **LC**  
*Dictyocatenulata alba* Finley et E. F. Morris **DD**  
*Dimelaena oreina* (Ach.) Norman **VU**  
*Diploschistes gypsaceus* (Ach.) Zahlbr. **DD**  
*Diploschistes muscorum* (Scop.) R. Sant. **LC**  
*Diploschistes scruposus* (Schreb.) Norman **LC**  
*Diploschistella urceolata* Vain. **RE**  
*Diplotomma alboatrum* (Hoffm.) Flot. **NT**  
*Diplotomma canescens* (Dicks.) Flot. **EN**  
*Diplotomma chlorophaeum* (Hepp ex Leight.) Szatala **VU**  
*Diplotomma lutosum* A. Massal. **DD**  
*Diplotomma murorum* (A. Massal.) Coppins **DD**  
*Diplotomma pharcidium* (Ach.) M. Choisy **RE**  
*Diplotomma venustum* Körb. **VU**  
*Dirina stenhammari* (Fr. ex Stenh.) Poelt et Follmann **EN**  
*Eiglera flavida* (Hepp) Hafellner **NT**  
*Elixia flexella* (Ach.) Lumbsch **DD**  
*Endocarpon adscendens* (Anzi) Müll. Arg. **EN**  
*Endocarpon pallidum* Ach. **DD**  
*Endocarpon psorodeum* (Nyl.) Blomb. et Forssell **EN**  
*Endocarpon pusillum* Hedw. **NT**  
*Enterographa hutchinsiae* (Leight.) A. Massal. **EN**  
*Eopyrenula leucoplaca* (Wallr.) R. C. Harris **RE**  
*Ephebe lanata* (L.) Vain. **EN**  
*Epiphloea byssina* (Hoffm.) Henssen et P. M. Jørg. **VU**  
*Evernia divaricata* (L.) Ach. **CR**  
*Evernia mesomorpha* Nyl. **CR**  
*Evernia prunastri* (L.) Ach. **NT**  
*Farnoldia hypocrita* (A. Massal.) Fröberg **DD**  
*Farnoldia jurana* (Schaer.) Hertel **VU**  
*Fellhanera boutellei* (Desm.) Vězda **CR**  
*Fellhanera subtilis* (Vězda) Diederich et Sérus. **NT**  
*Fellhaneropsis myrtillicola* (Erichsen) Sérus. et Coppins **EN**  
*Fellhaneropsis vezdae* (Coppins et P. James) Sérus. et Coppins **VU**  
*Flavocetraria cucullata* (Bellardi) Kärnefelt et A. Thell **EN**  
*Flavocetraria nivalis* (L.) Kärnefelt et A. Thell **EN**  
*Flavoparmelia caperata* (L.) Hale **EN**  
*Flavopunctelia flaventior* (Stirt.) Hale **VU**  
*Frutidella caesioatra* (Schaer.) Kalb **RE**  
*Fulgensia fulgens* (Sw.) Elenkin **EN**  
*Fulgensia schistidii* (Anzi) Poelt **RE**  
*Fuscidea austera* (Nyl.) P. James **VU**  
*Fuscidea cyathoides* (Ach.) V. Wirth et Vězda **NT**  
*Fuscidea gothoburgensis* (H. Magn.) V. Wirth et Vězda **VU**  
*Fuscidea kochiana* (Hepp) V. Wirth et Vězda **NT**  
*Fuscidea lightfootii* (Sm.) Coppins et P. James **DD**  
*Fuscidea lygaea* (Ach.) V. Wirth et Vězda **DD**  
*Fuscidea mollis* (Wahlenb.) V. Wirth et Vězda **DD**  
*Fuscidea praeruptorum* (Du Rietz et H. Magn.) V. Wirth et Vězda **DD**  
*Fuscopannaria leucophaea* (Vahl) P. M. Jørg. **VU**  
*Fuscopannaria praetermissa* (Nyl.) P. M. Jørg. **DD**  
*Graphis scripta* (L.) Ach. **VU**  
*Gyalecta derivata* (Nyl.) H. Olivier **CR**  
*Gyalecta erythrozona* Lettau **DD**  
*Gyalecta flotowii* Körb. **CR**  
*Gyalecta friesii* Flot. ex Körb. **RE**  
*Gyalecta geoica* (Wahlenb. ex Ach.) Ach. **CR**  
*Gyalecta hypoleuca* (Ach.) Zahlbr. **VU**

- Gyalecta jenensis* (Batsch) Zahlbr. **LC**  
*Gyalecta kukriensis* (Räsänen) Räsänen **RE**  
*Gyalecta leucaspis* (Kremp. ex A. Massal.) Zahlbr. **DD**  
*Gyalecta subclausa* Anzi **DD**  
*Gyalecta sudetica* Vězda **RE**  
*Gyalecta truncigena* (Ach.) Hepp **CR**  
*Gyalecta ulmi* (Sw.) Zahlbr. **CR**  
*Gyalidea asteriscus* (Anzi) Aptroot et Lücking **CR**  
*Gyalidea diaphana* (Körb. ex Nyl.) Vězda **NT**  
*Gyalidea fritzei* (Stein) Vězda **EN**  
*Gyalidea lecideopsis* (A. Massal.) Lettau ex Vězda **DD**  
*Gyalideopsis helvetica* Van den Boom et Vězda **DD**  
*Haematomma ochroleucum* (Neck.) J. R. Laundon **VU**  
*Halecania viridescens* Coppins et P. James **DD**  
*Harpidium rutilans* Flot. ex Körb. **CR**  
*Helocarpon crassipes* Th. Fr. **VU**  
*Heppia adglutinata* (Kremp.) A. Massal. **DD**  
*Heppia lutosa* (Ach.) Nyl. **RE**  
*Hertelidea botryosa* (Fr.) Printzen et Kantvilas **CR**  
*Heterodermia speciosa* (Wulfen) Trevis. **CR**  
*Hymenelia melanocarpa* (Kremp.) Lutzoni **DD**  
*Hymenelia prevostii* (Duby) Kremp. **DD**  
*Hymenelia similis* (A. Massal.) M. Choisy **DD**  
*Hyperphyscia adglutinata* (Flörke) H. Mayrhofer et Poelt **EN**  
*Hypocomyce caradocensis* (Leight. ex Nyl.) P. James et Gotth. Schneid. **LC**  
*Hypocomyce friesii* (Ach.) P. James et Gotth. Schneid. **EN**  
*Hypocomyce scalaris* (Ach.) M. Choisy **LC**  
*Hypogymnia bitteri* (Lyngé) Ahti **CR**  
*Hypogymnia farinacea* Zopf **VU**  
*Hypogymnia physodes* (L.) Nyl. **LC**  
*Hypogymnia tubulosa* (Schaer.) Hav. **NT**  
*Hypogymnia vittata* (Ach.) Parrique **EN**  
*Hypotrachyna revoluta* (Flörke) Hale **CR**  
*Hypotrachyna sinuosa* (Sm.) Hale **RE**  
*Icmadophila ericetorum* (L.) Zahlbr. **EN**  
*Immersaria athroocarpa* (Ach.) Rambold et Pietschm. **DD**  
*Imshaugia aleurites* (Ach.) S. L. F. Mey. **VU**  
*Ionaspis ceracea* (Arnold) Hafellner et Türk **DD**  
*Ionaspis lacustris* (With.) Lutzoni **VU**  
*Ionaspis odora* (Ach.) Th. Fr. ex Stein **VU**  
*Ionaspis suaveolens* (Fr.) Th. Fr. ex Stein **DD**  
*Jamesiella anastomosans* (P. James et Vězda) Lücking, Sérus. et Vězda **DD**  
*Japevia subaurifera* Muhr et Tønsberg **NT**  
*Koerberiella wimmeriana* (Körb.) Stein **EN**  
*Lasallia pustulata* (L.) Mérat **NT**  
*Lecanactis abietina* (Ach.) Körb. **EN**  
*Lecanactis dilleniana* (Ach.) Körb. **VU**  
*Lecanactis latebrarum* (Ach.) Arnold **VU**  
*Lecania caeruleorubella* (Mudd) M. Mayrhofer **DD**  
*Lecania cuprea* (A. Massal.) Van den Boom et Coppins **DD**  
*Lecania cyrtella* (Ach.) Th. Fr. **LC**  
*Lecania cyrtellina* (Nyl.) Sandst. **DD**  
*Lecania dubitans* (Nyl.) A. L. Sm. **DD**  
*Lecania erysibe* (Ach.) Mudd **NT**  
*Lecania furfuracea* Vězda **DD**  
*Lecania fuscella* (Schaer.) A. Massal. **RE**  
*Lecania hutchinsiae* (Nyl.) A. L. Sm. **DD**  
*Lecania inundata* (Hepp ex Körb.) M. Mayrhofer **DD**  
*Lecania naegelii* (Hepp) Diederich et Van den Boom **NT**  
*Lecania nylanderiana* A. Massal. **DD**  
*Lecania prasinoides* Elenkin **DD**  
*Lecania rabenhorstii* (Hepp) Arnold **VU**  
*Lecania subfuscata* (Nyl.) S. Ekman **DD**  
*Lecania sylvestris* (Arnold) Arnold **DD**  
*Lecania turicensis* (Hepp) Müll. Arg. **DD**  
*Lecanographa aggregata* Egea et Torrente **DD**  
*Lecanographa amylicata* (Ehrh. ex Pers.) Egea et Torrente **RE**  
*Lecanographa lyncea* (Sm.) Egea et Torrente **RE**  
*Lecanora agardhiana* Ach. **DD**  
*Lecanora aitema* (Ach.) Hepp **DD**  
*Lecanora albella* (Pers.) Ach. **EN**  
*Lecanora albellula* Nyl. **VU**  
*Lecanora albescens* (Hoffm.) Flörke **LC**  
*Lecanora albula* (Nyl.) Hue **DD**  
*Lecanora allophana* Nyl. s.str. **EN**  
*Lecanora argentata* (Ach.) Malme **NT**  
*Lecanora argopholis* (Ach.) Ach. **VU**  
*Lecanora bachmannii* Zahlbr. **NE**  
*Lecanora bicincta* Ramond **EN**  
*Lecanora cadubriae* (A. Massal.) Hedl. s.str. **VU**  
*Lecanora caesiosora* Poelt **EN**  
*Lecanora campestris* (Schaer.) Hue **NT**  
*Lecanora carpinea* (L.) Vain. **NT**  
*Lecanora cateilea* (Ach.) A. Massal. **NE**  
*Lecanora cenisia* Ach. **NT**  
*Lecanora chlarotera* Nyl. **LC**  
*Lecanora circumborealis* Brodo et Vitik. **EN**  
*Lecanora compallens* Herk et Aptroot **DD**  
*Lecanora concolor* Ramond **DD**  
*Lecanora conferta* (Duby ex Fr.) Grognot **DD**  
*Lecanora conizaeoides* Nyl. ex Cromb. **LC**  
*Lecanora crenulata* Hook. **LC**  
*Lecanora dispersa* (Pers.) Sommerf. **LC**  
*Lecanora epanora* (Ach.) Ach. **VU**  
*Lecanora expallens* Ach. **LC**  
*Lecanora frustulosa* (Dicks.) Ach. **EN**  
*Lecanora fungillus* E. Senft **NE**  
*Lecanora gangaleoides* Nyl. **DD**  
*Lecanora garovaglioii* (Körb.) Zahlbr. **NT**  
*Lecanora gisleriana* Müll. Arg. **CR**  
*Lecanora glabrata* (Ach.) Malme **DD**  
*Lecanora hagenii* (Ach.) Ach. **NT**  
*Lecanora handelii* J. Steiner **EN**  
*Lecanora horiza* (Ach.) Linds. **DD**  
*Lecanora hypoptella* (Nyl.) Grummann **DD**  
*Lecanora impudens* Degel. **VU**

- Lecanora intricata* (Ach.) Ach. **LC**  
*Lecanora intumescens* (Rebent.) Rabenh. **VU**  
*Lecanora latro* Poelt **DD**  
*Lecanora leptyroides* (Nyl.) Degel. **DD**  
*Lecanora lojkaeana* Szatala **DD**  
*Lecanora marginata* (Schaer.) Hertel et Rambold **DD**  
*Lecanora minutissima* A. Massal. **NE**  
*Lecanora mughicola* Nyl. **DD**  
*Lecanora orosthea* (Ach.) Ach. **NT**  
*Lecanora persimilis* (Th. Fr.) Nyl. **NT**  
*Lecanora phaeostigma* (Körb.) Almb. **DD**  
*Lecanora plicata* Eitner **NE**  
*Lecanora polytropia* (Ehrh. ex Hoffm.) Rabenh. **LC**  
*Lecanora populicola* (DC.) Duby **DD**  
*Lecanora pruinosa* Chaub. **RE**  
*Lecanora pseudistera* Nyl. **EN**  
*Lecanora pulicaris* (Pers.) Ach. **LC**  
*Lecanora ramulicola* (H. Magn.) Printzen et P. F. May **VU**  
*Lecanora reagens* Norman **DD**  
*Lecanora rouxii* S. Ekman et Tønsberg **DD**  
*Lecanora rugosella* Zahlbr. **DD**  
*Lecanora rupicola* (L.) Zahlbr. **LC**  
*Lecanora saligna* (Schrad.) Zahlbr. **LC**  
*Lecanora sambuci* (Pers.) Nyl. **NT**  
*Lecanora sarcopidoides* (A. Massal.) A. L. Sm. **DD**  
*Lecanora semipallida* H. Magn. **DD**  
*Lecanora soralifera* (Suza) Räsänen **NT**  
*Lecanora strobilina* (Spreng.) Kieff. **CR**  
*Lecanora subaurea* Zahlbr. **VU**  
*Lecanora subcarnea* (Lilj.) Ach. **EN**  
*Lecanora subintricata* (Nyl.) Th. Fr. **NT**  
*Lecanora subrugosa* Nyl. **DD**  
*Lecanora sulphurea* (Hoffm.) Ach. **VU**  
*Lecanora swartzii* (Ach.) Ach. **VU**  
*Lecanora symmicta* (Ach.) Ach. s.str. **NT**  
*Lecanora tephraea* Körb. **NE**  
*Lecanora varia* (Hoffm.) Ach. **VU**  
*Lecidea albofuscescens* Nyl. **RE**  
*Lecidea atrobrunnea* (Ramond ex Lam. et DC.) Schaer. **DD**  
*Lecidea auriculata* Th. Fr. **DD**  
*Lecidea baumgartneri* Zahlbr. **DD**  
*Lecidea berengeriana* (A. Massal.) Th. Fr. **NE**  
*Lecidea betulicola* (Kullh.) H. Magn. **EN**  
*Lecidea chrysellae* Eitner **NE**  
*Lecidea commaculans* Nyl. **VU**  
*Lecidea confluens* (Weber) Ach. **NT**  
*Lecidea erythrophaea* Flörke ex Sommerf. **CR**  
*Lecidea exsequens* Nyl. **EN**  
*Lecidea fuliginosa* Taylor **DD**  
*Lecidea fuscoatra* (L.) Ach. **LC**  
*Lecidea grisella* Flörke **LC**  
*Lecidea hillmannii* Anders **DD**  
*Lecidea huxariensis* (Beckh. ex J. Lahm) Zahlbr. **DD**  
*Lecidea hypnorum* Lib. **VU**  
*Lecidea lapicida* (Ach.) Ach. **NT**  
*Lecidea leprarioides* Tønsberg **EN**  
*Lecidea leucothallina* Arnold **NE**  
*Lecidea lithophila* (Ach.) Ach. **NT**  
*Lecidea margaritella* Hulting **DD**  
*Lecidea nylanderi* (Anzi) Th. Fr. **VU**  
*Lecidea personata* (Körb.) Jatta **NE**  
*Lecidea phaeops* Nyl. **DD**  
*Lecidea plana* (J. Lahm) Nyl. **NT**  
*Lecidea praenubila* Nyl. **DD**  
*Lecidea promixta* Nyl. **DD**  
*Lecidea pullata* (Norman) Th. Fr. **NT**  
*Lecidea pygmaea* Eitner **NE**  
*Lecidea sanguineoatra* auct. **EN**  
*Lecidea sarcogynoides* Körb. **DD**  
*Lecidea silacea* Ach. **VU**  
*Lecidea strasseri* Zahlbr. **DD**  
*Lecidea subdividua* (Arnold ex Lojka) Lettau **NE**  
*Lecidea subgranatina* Mig. **NE**  
*Lecidea sudetica* Körb. **DD**  
*Lecidea symmictella* Nyl. **RE**  
*Lecidea tessellata* Flörke **DD**  
*Lecidea thalloidemoides* (Eitner) Zahlbr. **NE**  
*Lecidea turgidula* Fr. **VU**  
*Lecidea variegatula* Nyl. **NT**  
*Lecidella anomaloides* (A. Massal.) Hertel et H. Kilius **NT**  
*Lecidella asema* (Nyl.) Knoph et Hertel **DD**  
*Lecidella carpathica* Körb. **LC**  
*Lecidella elaeochroma* (Ach.) M. Choisy **NT**  
*Lecidella flavosorediata* (Vězda) Hertel et Leuckert **VU**  
*Lecidella laureri* (Hepp) Körb. **RE**  
*Lecidella patavina* (A. Massal.) Knoph et Leuckert **DD**  
*Lecidella pulveracea* (Schaer.) P. Syd. **RE**  
*Lecidella scabra* (Taylor) Hertel et Leuckert **LC**  
*Lecidella stigmatea* (Ach.) Hertel et Leuckert **LC**  
*Lecidella viridans* (Flot.) Körb. **EN**  
*Lecidoma demissum* (Rutstr.) Goth. Schneid. et Hertel **VU**  
*Lempholemma botryosum* (A. Massal.) Zahlbr. **VU**  
*Lempholemma chalazanum* (Ach.) de Lesd. **VU**  
*Lempholemma polyanthes* (Bernh.) Malme **VU**  
*Lepraria alpina* (de Lesd.) Tretiach et Baruffo **VU**  
*Lepraria borealis* Loht. et Tønsberg **LC**  
*Lepraria caesioalba* (de Lesd.) J. R. Laundon **LC**  
*Lepraria crassissima* (Hue) Lettau **NT**  
*Lepraria diffusa* (J. R. Laundon) Kukwa **NT**  
*Lepraria eburnea* J. R. Laundon **LC**  
*Lepraria ecorticata* (J. R. Laundon) Kukwa **DD**  
*Lepraria elobata* Tønsberg **LC**  
*Lepraria granulata* Slavíková **DD**  
*Lepraria incana* (L.) Ach. **LC**  
*Lepraria jackii* Tønsberg **NT**  
*Lepraria lobificans* Nyl. **LC**  
*Lepraria membranacea* (Dicks.) Vain. **LC**  
*Lepraria neglecta* (Nyl.) Erichsen **LC**  
*Lepraria nivalis* J. R. Laundon **DD**  
*Lepraria nylanderiana* Kümmerl. et Leuckert **VU**

- Lepraria rigidula* (de Lesd.) Tønsberg **LC**  
*Lepraria toensbergiana* Bayerová et Kukwa **DD**  
*Lepraria umbricola* Tønsberg **NT**  
*Lepraria vouauxii* (Hue) R. C. Harris **LC**  
*Leprocaulon microscopicum* (Vill.) Gams **NT**  
*Leptogium biatorinum* (Nyl.) Leight. s.lat. **DD**  
*Leptogium cyanescens* (Rabenh.) Körb. **RE**  
*Leptogium diffractum* Kremp. ex Körb. **CR**  
*Leptogium gelatinosum* (With.) J. R. Laundon **VU**  
*Leptogium lichenoides* (L.) Zahlbr. **LC**  
*Leptogium magnussonii* Degel. et P. M. Jørg. **DD**  
*Leptogium palmatum* (Huds.) Mont. **RE**  
*Leptogium plicatile* (Ach.) Leight. **VU**  
*Leptogium rivale* Tuck. **CR**  
*Leptogium saturninum* (Dicks.) Nyl. **RE**  
*Leptogium schraderi* (Bernh.) Nyl. **VU**  
*Leptogium subtile* (Schrad.) Torss. **EN**  
*Leptogium tenuissimum* (Dicks.) Körb. **VU**  
*Leptogium teretiusculum* (Wallr.) Arnold **EN**  
*Letharia vulpina* (L.) Hue **CR**  
*Lichenomphalia hudsoniana* (H. S. Jenn.) Redhead et al. **EN**  
*Lichenomphalia umbellifera* (L.: Fr.) Redhead et al. **LC**  
*Lichinella nigritella* (Lettau) P. Moreno et Egea **EN**  
*Lichinella stipatula* Nyl. **CR**  
*Lobaria amplissima* (Scop.) Forssell **CR**  
*Lobaria pulmonaria* (L.) Hoffm. **CR**  
*Lobaria scrobiculata* (Scop.) DC. **RE**  
*Lobothallia alphoplaca* (Wahlenb.) Hafellner **VU**  
*Lobothallia melanaspis* (Ach.) Hafellner **RE**  
*Lobothallia praevalida* (Nyl.) Hafellner **VU**  
*Lobothallia radiosa* (Hoffm.) Hafellner **LC**  
*Lopadium disciforme* (Flot.) Kullh. **EN**  
*Loxospora cisonica* (Beltr.) Hafellner **RE**  
*Loxospora elatina* (Ach.) A. Massal. **VU**  
*Macentina abscondita* Coppins et Vězda **LC**  
*Macentina dictyospora* Orange **LC**  
*Massalongia carnosa* (Dicks.) Körb. **RE**  
*Megalaria grossa* (Pers. ex Nyl.) Hafellner **RE**  
*Megaspora verrucosa* (Ach.) Hafellner et V. Wirth **RE**  
*Melanelia disjuncta* (Erichsen) Essl. **NT**  
*Melanelia elegantula* (Zahlbr.) Essl. **VU**  
*Melanelia exasperata* (De Not.) Essl. **EN**  
*Melanelia exasperatula* (Nyl.) Essl. **LC**  
*Melanelia fuliginosa* (Fr. ex Duby) Essl. **LC**  
*Melanelia glabra* (Schaer.) Essl. **CR**  
*Melanelia hepatizon* (Ach.) A. Thell **VU**  
*Melanelia infumata* (Nyl.) Essl. **RE**  
*Melanelia laciniatula* (Flagey ex H. Olivier) Essl. **EN**  
*Melanelia olivacea* (L.) Essl. **RE**  
*Melanelia panniformis* (Nyl.) Essl. **VU**  
*Melanelia septentrionalis* (Lyngé) Essl. **RE**  
*Melanelia soreliata* (Ach.) Goward et Ahti **DD**  
*Melanelia stygia* (L.) Essl. **VU**  
*Melanelia subargentifera* (Nyl.) Essl. **VU**  
*Melanelia subaurifera* (Nyl.) Essl. **VU**  
*Melaspilea granitophila* (Th. Fr.) Coppins **EN**  
*Menegazzia terebrata* (Hoffm.) A. Massal. **CR**  
*Micarea adnata* Coppins **CR**  
*Micarea anterior* (Nyl.) Hedl. **DD**  
*Micarea bauschiana* (Körb.) V. Wirth et Vězda **VU**  
*Micarea botryoides* (Nyl.) Coppins **LC**  
*Micarea cinerea* (Schaer.) Hedl. **RE**  
*Micarea contexta* Hedl. **CR**  
*Micarea diminuta* Coppins **DD**  
*Micarea denigrata* (Fr.) Hedl. **LC**  
*Micarea elachista* (Körb.) Coppins et R. Sant. **EN**  
*Micarea erratica* (Körb.) Hertel, Rambold et Pietschm. **LC**  
*Micarea hedlundii* Coppins **EN**  
*Micarea lapillicola* (Vain.) Coppins et Muhr **DD**  
*Micarea leprosulata* (Th. Fr.) Coppins et A. Fletscher **VU**  
*Micarea lignaria* (Ach.) Hedl. **LC**  
*Micarea lithinella* (Nyl.) Hedl. **LC**  
*Micarea lutulata* (Nyl.) Coppins **VU**  
*Micarea lynceola* (Th. Fr.) Palice **NT**  
*Micarea marginata* Coppins et Muhr **VU**  
*Micarea melaena* (Nyl.) Hedl. **LC**  
*Micarea micrococca* (Körb.) Gams ex Coppins **LC**  
*Micarea misella* (Nyl.) Hedl. **LC**  
*Micarea myriocarpa* V. Wirth et Vězda ex Coppins **NT**  
*Micarea nigella* Coppins **DD**  
*Micarea nitschkeana* (J. Lahm ex Rabenh.) Harm. **NT**  
*Micarea peliocarpa* (Anzi) Coppins et R. Sant. **LC**  
*Micarea polycarpella* (Erichsen) Coppins et Palice **NT**  
*Micarea prasina* Fr. s.str. **LC**  
*Micarea pycnidiphora* Coppins et P. James **CR**  
*Micarea submilliaria* (Nyl.) Coppins **RE**  
*Micarea subviridescens* (Nyl.) Hedl. **DD**  
*Micarea sylvicola* (Flot.) Vězda et V. Wirth **LC**  
*Micarea synotheoides* (Nyl.) Coppins **CR**  
*Micarea tuberculata* (Sommerf.) R. A. Anderson **CR**  
*Micarea turfosa* (A. Massal.) Du Rietz **VU**  
*Micarea viridileprosa* Coppins et Van den Boom **NT**  
*Micarea vulpina* (Nyl.) Muhr **CR**  
*Miriqidica complanata* (Körb.) Hertel et Rambold **DD**  
*Miriqidica garovaglioi* (Schaer.) Hertel et Rambold **VU**  
*Miriqidica griseoatra* (Flot.) Hertel et Rambold **DD**  
*Miriqidica leucophaea* (Flörke ex Rabenh.) Hertel et Rambold **NT**  
*Miriqidica lulensis* (Hellb.) Hertel et Rambold **DD**  
*Miriqidica nigroleprosa* (Vain.) Hertel et Rambold **NT**  
*Miriqidica pycnocarpa* (Körb.) Andreev **EN**  
*Moelleropsis nebulosa* (Hoffm.) Gyeln. **RE**  
*Multiclavula mucida* (Pers.) R. H. Petersen **EN**  
*Mycobilimbia carnealbida* (Müll. Arg.) S. Ekman et Printzen **EN**  
*Mycobilimbia epixanthoides* (Nyl.) Vitik. et al. **EN**  
*Mycobilimbia lurida* (Ach.) Hafellner et Türk **VU**  
*Mycobilimbia tetramera* (De Not.) Vitik. et al. **EN**  
*Mycoblastus affinis* (Schaer.) T. Schauer **CR**  
*Mycoblastus alpinus* (Fr.) Th. Fr. ex Hellb. **EN**  
*Mycoblastus fucatus* (Stirt.) Zahlbr. **LC**

- Mycoblastus sanguinarius* (L.) Norman **EN**  
*Mycoporum antecellens* (Nyl.) R. C. Harris **RE**  
*Myriospora heppii* (Nägeli ex Körb.) Hue **LC**  
*Nephroma bellum* (Spreng.) Tuck. **CR**  
*Nephroma laevigatoides* Gyeln. **NE**  
*Nephroma parile* (Ach.) Ach. **CR**  
*Nephroma resupinatum* (L.) Ach. **CR**  
*Nephromopsis laureri* (Kremp.) Kurok. **CR**  
*Normandina acroglypta* (Norman) Aptroot **DD**  
*Normandina pulchella* (Borrer) Nyl. **EN**  
*Ochrolechia alboflavescens* (Wulfen) Zahlbr. **EN**  
*Ochrolechia androgyna* (Hoffm.) Arnold **VU**  
*Ochrolechia arborea* (Kreyer) Almb. **VU**  
*Ochrolechia frigida* (Sw.) Lyngé **RE**  
*Ochrolechia microstictoides* Räsänen **VU**  
*Ochrolechia pallescens* (L.) A. Massal. **CR**  
*Ochrolechia subviridis* (Høeg) Erichsen **DD**  
*Ochrolechia turneri* (Sm.) Hasselrot **VU**  
*Opegrapha atra* Pers. **EN**  
*Opegrapha calcarea* Sm. **DD**  
*Opegrapha dolomitica* (Körb.) Clauzade et Cl. Roux **DD**  
*Opegrapha fusca* Opiz **NE**  
*Opegrapha gyrocarpa* Flot. **LC**  
*Opegrapha paraxanthodes* Nyl. **DD**  
*Opegrapha rufescens* Pers. **VU**  
*Opegrapha suecica* Källsten ex G. Thor **DD**  
*Opegrapha varia* Pers. **NT**  
*Opegrapha vermicellifera* (Kunze) J. R. Laundon **VU**  
*Opegrapha viridis* (Pers. ex Ach.) Behlen et Desberger **EN**  
*Opegrapha vulgata* Ach. **NT**  
*Opegrapha zonata* Körb. **VU**  
*Ophioparma ventosa* (L.) Norman **VU**  
*Orphniospora moriopsis* (A. Massal.) D. Hawksw. **DD**  
*Orphniospora mosigii* (Körb.) Hertel et Rambold **DD**  
*Pachyphiale carneola* (Ach.) Arnold **RE**  
*Pachyphiale fagicola* (Hepp) Zwackh **EN**  
*Pannaria conoplea* (Ach.) Bory **RE**  
*Pannaria rubiginosa* (Ach.) Bory **RE**  
*Parmelia discordans* Nyl. **DD**  
*Parmelia ernstiae* Feuerer et A. Thell **DD**  
*Parmelia pinnatifida* Kurok. **DD**  
*Parmelia saxatilis* (L.) Ach. **LC**  
*Parmelia submontana* Nádv. ex Hale **EN**  
*Parmelia sulcata* Taylor **LC**  
*Parmeliella triptophylla* (Ach.) Müll. Arg. **CR**  
*Parmelina pastillifera* (Harm.) Hale **CR**  
*Parmelina quercina* (Willd.) Hale **CR**  
*Parmelina tiliacea* (Hoffm.) Hale **NT**  
*Parmeliopsis ambigua* (Wulfen) Nyl. **LC**  
*Parmeliopsis hyperopta* (Ach.) Arnold **NT**  
*Parmotrema crinitum* (Ach.) M. Choisy **RE**  
*Parmotrema perlatum* (Huds.) M. Choisy **CR**  
*Parmotrema stuppeum* (Taylor) Hale **RE**  
*Peccania cernohorskyi* (Servít) Czeika et Guttová **CR**  
*Peccania coralloides* (A. Massal.) A. Massal. **VU**  
*Peltigera aphthosa* (L.) Willd. **CR**  
*Peltigera canina* (L.) Willd. **VU**  
*Peltigera collina* (Ach.) Schrad. **CR**  
*Peltigera degenii* Gyeln. **VU**  
*Peltigera didactyla* (With.) J. R. Laundon **LC**  
*Peltigera elisabethae* Gyeln. **CR**  
*Peltigera horizontalis* (Huds.) Baumg. **EN**  
*Peltigera hymenina* (Ach.) Delise **VU**  
*Peltigera lepidophora* (Nyl. ex Vain.) Bitter **EN**  
*Peltigera leucophlebia* (Nyl.) Gyeln. **CR**  
*Peltigera malacea* (Ach.) Funck **CR**  
*Peltigera membranacea* (Ach.) Nyl. **VU**  
*Peltigera neckeri* Hepp ex Müll. Arg. **VU**  
*Peltigera neopolydactyla* (Gyeln.) Gyeln. **EN**  
*Peltigera polydactylon* (Neck.) Hoffm. **EN**  
*Peltigera praetextata* (Flörke ex Sommerf.) Zopf **NT**  
*Peltigera rufescens* (Weiss) Humb. **NT**  
*Peltigera venosa* (L.) Hoffm. **CR**  
*Peltula euploca* (Ach.) Poelt ex Pišút **EN**  
*Pertusaria albescens* (Huds.) M. Choisy et Werner **NT**  
*Pertusaria alpina* Hepp ex Ahles **RE**  
*Pertusaria amara* (Ach.) Nyl. **NT**  
*Pertusaria amarescens* Nyl. **DD**  
*Pertusaria aspergilla* (Ach.) J. R. Laundon **EN**  
*Pertusaria chiodectonoides* Bagl. ex A. Massal. **EN**  
*Pertusaria coccodes* (Ach.) Nyl. **VU**  
*Pertusaria constricta* Erichsen **CR**  
*Pertusaria corallina* (L.) Arnold **NT**  
*Pertusaria coronata* (Ach.) Th. Fr. **VU**  
*Pertusaria flavida* (DC.) J. R. Laundon **EN**  
*Pertusaria geminipara* (Th. Fr.) C. Knight ex Brodo **NE**  
*Pertusaria hemisphaerica* (Flörke) Erichsen **EN**  
*Pertusaria hymeneae* (Ach.) Schaer. **EN**  
*Pertusaria lactea* (L.) Arnold **NT**  
*Pertusaria leioplaca* DC. **VU**  
*Pertusaria leucosora* Nyl. **DD**  
*Pertusaria ocellata* Körb. **EN**  
*Pertusaria oculata* (Dicks.) Th. Fr. **RE**  
*Pertusaria ophthalmiza* (Nyl.) Nyl. **CR**  
*Pertusaria pertusa* (Weigel) Tuck. **EN**  
*Pertusaria pseudocorallina* (Lilj.) Arnold **RE**  
*Pertusaria pulvereosulphurata* Harm. **NE**  
*Pertusaria pupillaris* (Nyl.) Th. Fr. **VU**  
*Pertusaria trachythallina* Erichsen **RE**  
*Petractis clausa* (Hoffm.) Kremp. **VU**  
*Phaeographis inusta* (Ach.) Müll. Arg. **CR**  
*Phaeophyscia chloantha* (Ach.) Moberg **EN**  
*Phaeophyscia ciliata* (Hoffm.) Moberg **CR**  
*Phaeophyscia constipata* (Norrl. et Nyl.) Moberg **CR**  
*Phaeophyscia endococcina* (Körb.) Moberg **EN**  
*Phaeophyscia endophoenicea* (Harm.) Moberg **EN**  
*Phaeophyscia hirsuta* (Mereschk.) Essl. **CR**  
*Phaeophyscia kairamoi* (Vain.) Moberg **RE**  
*Phaeophyscia nigricans* (Harm.) Moberg **LC**  
*Phaeophyscia orbicularis* (Neck.) Moberg **LC**  
*Phaeophyscia pusilloides* (Zahlbr.) Essl. **RE**  
*Phaeophyscia sciastra* (Ach.) Moberg **NT**

- Phlyctis agelaea* (Ach.) Flot. **RE**  
*Phlyctis argena* (Spreng.) Flot. **LC**  
*Physcia adscendens* (Fr.) H. Olivier **LC**  
*Physcia aipolia* (Ehrh. ex Humb.) Fűrnr. **EN**  
*Physcia aipolioides* (Nádv.) Breuss et Türk **NT**  
*Physcia albinea* (Ach.) Nyl. **RE**  
*Physcia caesia* (Hoffm.) Fűrnr. **LC**  
*Physcia dimidiata* (Arnold) Nyl. **NT**  
*Physcia dubia* (Hoffm.) Lettau **LC**  
*Physcia stellaris* (L.) Nyl. **VU**  
*Physcia tenella* (Scop.) DC. **LC**  
*Physcia tribacia* (Ach.) Nyl. **VU**  
*Physcia vitii* Nádv. **RE**  
*Physcia wainioi* Räsänen **LC**  
*Physconia detersa* (Nyl.) Poelt **DD**  
*Physconia distorta* (With.) J. R. Laundon **VU**  
*Physconia enteroxantha* (Nyl.) Poelt **NT**  
*Physconia grisea* (Lam.) Poelt **LC**  
*Physconia muscigena* (Ach.) Poelt **EN**  
*Physconia perisidiosa* (Erichsen) Moberg **VU**  
*Piccolia ochrophora* (Nyl.) Hafellner **NT**  
*Placidium boccanum* (Servít) Breuss **DD**  
*Placidium lachneum* (Ach.) de Lesd. **DD**  
*Placidium lacinulatum* (Ach.) Breuss **DD**  
*Placidium pilosellum* (Breuss) Breuss **VU**  
*Placidium rufescens* (Ach.) A. Massal. **NT**  
*Placidium squamulosum* (Ach.) Breuss **LC**  
*Placocarpus schaereri* (Fr.) Breuss **VU**  
*Placopsis gelida* (L.) Linds. **NE**  
*Placopsis lambii* Hertel et V. Wirth **DD**  
*Placopyrenium rubescens* (Timkó) Breuss **DD**  
*Placopyrenium trachyticum* (Hazsl.) Breuss **EN**  
*Placynthiella dasaea* (Stirt.) Tønsberg **LC**  
*Placynthiella icmalea* (Ach.) Coppins et P. James **LC**  
*Placynthiella oligotropa* (J. R. Laundon) Coppins et P. James **LC**  
*Placynthiella uliginosa* (Schrad.) Coppins et P. James **LC**  
*Placynthium dolichoterum* (Nyl.) Trevis. **DD**  
*Placynthium filiforme* (Garov.) M. Choisy **DD**  
*Placynthium flabellousum* (Tuck.) Zahlbr. **CR**  
*Placynthium garovaglioii* (A. Massal.) Zahlbr. **EN**  
*Placynthium hungaricum* Gyelnik **DD**  
*Placynthium nigrum* (Huds.) Gray **NT**  
*Placynthium subradiatum* (Nyl.) Arnold **EN**  
*Placynthium tremniacum* (A. Massal.) Jatta **DD**  
*Platismatia glauca* (L.) W. L. Culb. et C. F. Culb. **NT**  
*Pleopsidium flavum* (Bellardi) Körb. **VU**  
*Pleopsidium chlorophanum* (Wahlenb.) Zopf **VU**  
*Pleurosticta acetabulum* (Neck.) Elix et Lumbsch **VU**  
*Poeltinula interjecta* (Leight.) Hafellner **EN**  
*Polyblastia albida* Arnold **EN**  
*Polyblastia bayeriana* Servít **NE**  
*Polyblastia brunnenensis* Vězda **NE**  
*Polyblastia cruenta* (Körb.) P. James et Swinscow **VU**  
*Polyblastia cupularis* A. Massal. **NT**  
*Polyblastia dermatodes* A. Massal. **EN**  
*Polyblastia fuscoargillacea* Anzi **DD**  
*Polyblastia gothica* Th. Fr. **EN**  
*Polyblastia intermedia* Th. Fr. **DD**  
*Polyblastia melaspora* (Taylor) Zahlbr. **EN**  
*Polyblastia moravica* Zschacke **DD**  
*Polyblastia muscorum* (Servít) **DD**  
*Polyblastia peminosa* (Nyl.) Zahlbr. **EN**  
*Polyblastia pseudoalbida* (Servít) J. Nowak **NE**  
*Polyblastia sendtneri* Kremp. **RE**  
*Polyblastia sepulta* A. Massal. **DD**  
*Polyblastia sublatebrosa* Servít **NE**  
*Polyblastia suzae* Servít **DD**  
*Polyblastia theleodes* (Sommerf.) Th. Fr. **EN**  
*Polyblastia ventosa* Arnold **DD**  
*Polychidium muscicola* (Sw.) Gray **CR**  
*Polysporina cyclocarpa* (Anzi) Vězda **DD**  
*Polysporina lapponica* (Ach. ex Schaer.) Degel. **LC**  
*Polysporina pusilla* (Anzi) M. Steiner **DD**  
*Polysporina simplex* (Davies) Vězda **LC**  
*Porina aenea* (Wallr.) Zahlbr. **LC**  
*Porina borrieri* (Trev.) D. Hawksw. et P. James **RE**  
*Porina byssophila* (Körb. ex Hepp) Zahlbr. **DD**  
*Porina chlorotica* (Ach.) Müll. Arg. **LC**  
*Porina grandis* (Körb.) Zahlbr. **DD**  
*Porina guentheri* (Flot.) Zahlbr. **EN**  
*Porina hibernica* P. James et Swinscow **CR**  
*Porina lectissima* (Fr.) Zahlbr. **VU**  
*Porina leptalea* (Durieu et Mont.) A. L. Sm. **EN**  
*Porina linearis* (Leight.) Zahlbr. **DD**  
*Porina mammillosa* (Th. Fr.) Vain. **RE**  
*Porina sudetica* (Körb.) Lettau **DD**  
*Porocyphus coccodes* (Flot.) Körb. **DD**  
*Porpidia albocaerulescens* (Wulfen) Hertel et Knoph **EN**  
*Porpidia cinereoatra* (Ach.) Hertel et Knoph **EN**  
*Porpidia crustulata* (Ach.) Hertel et Knoph **LC**  
*Porpidia flavicunda* (Ach.) Gowan **DD**  
*Porpidia hydrophila* (Fr.) Hertel et A. J. Schwab **DD**  
*Porpidia macrocarpa* (DC.) Hertel et A. J. Schwab **LC**  
*Porpidia nadvornikiana* (Vězda) Hertel **EN**  
*Porpidia ochrolemma* (Vain.) Brodo et R. Sant. **VU**  
*Porpidia platycarpoides* (Bagl.) Hertel **DD**  
*Porpidia rugosa* (Taylor) Coppins et Fryday **NT**  
*Porpidia soredizodes* (Lamy ex Nyl.) J. R. Laundon **LC**  
*Porpidia speirea* (Ach.) Kremp. **VU**  
*Porpidia superba* (Körb.) Hertel et Knoph **VU**  
*Porpidia trullisata* (Kremp.) Körb. **RE**  
*Porpidia tuberculosa* (Sm.) Hertel et Knoph **LC**  
*Porpidia turgida* (Ach.) Cl. Roux et P. Clerc **RE**  
*Protoblastenia calva* (Dicks.) Zahlbr. **VU**  
*Protoblastenia incrustans* (DC.) J. Steiner **NT**  
*Protoblastenia laeta* (Poelt) Kainz et Rambold **DD**  
*Protoblastenia rupestris* (Scop.) J. Steiner **LC**  
*Protoblastenia siebenhaariana* (Körb.) J. Steiner **EN**  
*Protomicarea limosa* (Ach.) Hafellner **EN**  
*Protopannaria pezizoides* (Weber) P. M. Jørg. et S. Ekman **CR**

- Protoparmelia atriseda* (Fr.) R. Sant. et V. Wirth **NT**  
*Protoparmelia badia* (Hoffm.) Hafellner **LC**  
*Protoparmelia memnonica* Hafellner et Türk **DD**  
*Protoparmelia phaeonesos* Poelt **DD**  
*Protoparmeliopsis laatokkaensis* (Räsänen) Moberg et R. Sant. **DD**  
*Protoparmeliopsis muralis* (Schreb.) M. Choisy **LC**  
*Protothelenella corrossa* (Körb.) H. Mayrhofer et Poelt **LC**  
*Protothelenella leucothelia* (Nyl.) H. Mayrhofer et Poelt **RE**  
*Protothelenella sphinctrinoidella* (Nyl.) H. Mayrhofer et Poelt **NT**  
*Protothelenella sphinctrinoides* (Nyl.) H. Mayrhofer et Poelt **VU**  
*Pseudephebe pubescens* (L.) M. Choisy **VU**  
*Pseudevernia furfuracea* (L.) Zopf **NT**  
*Psilolechia clavulifera* (Nyl.) Coppins **LC**  
*Psilolechia lucida* (Ach.) M. Choisy **LC**  
*Psora decipiens* (Hedw.) Hoffm. **VU**  
*Psora testacea* Hoffm. **VU**  
*Psora vallesiaca* (Schaer.) Timdal **RE**  
*Psorinia conglomerata* (Ach.) Gotth. Schneid. **EN**  
*Psoroglaena stigonemoides* (Orange) Henssen **DD**  
*Psoroma hypnorum* (Vahl) Gray **CR**  
*Psorotichia lugubris* (A. Massal.) Arnold **DD**  
*Psorotichia lutophila* Arnold **DD**  
*Psorotichia moravica* Zahlbr. **DD**  
*Psorotichia murorum* A. Massal. **EN**  
*Psorotichia schaeferi* (A. Massal.) Arnold **VU**  
*Psorotichia taurica* (Nyl.) Vain. **CR**  
*Pterygiopsis umbilicata* (Vězda) Henssen **CR**  
*Punctelia jeckeri* (Roum.) Kalb **VU**  
*Punctelia subrudecta* (Nyl.) Krog **VU**  
*Pycnora leucococca* (R. Sant.) R. Sant. **VU**  
*Pycnora praestabilis* (Nyl.) Hafellner **VU**  
*Pycnora sorophora* (Vain.) Hafellner **NT**  
*Pycnothelia papillaria* (Ehrh.) Dufour **VU**  
*Pyrenula coryli* A. Massal. **RE**  
*Pyrenula laevigata* (Pers.) Arnold **RE**  
*Pyrenula nitida* (Weigel) Ach. **EN**  
*Pyrenula nitidella* (Flörke ex Schaer.) Müll. Arg. **EN**  
*Pyrrhospora quemea* (Dicks.) Körb. **DD**  
*Racodium rupestre* Pers. **NT**  
*Ramalina baltica* Lettau **RE**  
*Ramalina calicaris* (L.) Fr. **DD**  
*Ramalina capitata* (Ach.) Nyl. **VU**  
*Ramalina farinacea* (L.) Ach. **VU**  
*Ramalina fastigiata* (Pers.) Ach. **EN**  
*Ramalina fraxinea* (L.) Ach. **EN**  
*Ramalina obtusata* (Arnold) Bitter **RE**  
*Ramalina pollinaria* (Westr.) Ach. **NT**  
*Ramalina thrausta* (Ach.) Nyl. **CR**  
*Ramboldia cinnabarina* (Sommerf.) Kalb, Lumbsch et Elix **RE**  
*Ramboldia elabens* (Fr.) Kantvilas et Elix **RE**  
*Ramonia chrysophaea* (Pers.) Vězda **DD**  
*Ramonia interjecta* Coppins **DD**  
*Reichlingia leopoldii* Diederich et Scheid. **DD**  
*Rhizocarpon alpicola* (Anzi) Rabenh. **NT**  
*Rhizocarpon badioatrum* (Flörke ex Spreng.) Th. Fr. **NT**  
*Rhizocarpon cinereovirens* (Müll. Arg.) Vain. **VU**  
*Rhizocarpon copelandii* (Körb.) Th. Fr. **DD**  
*Rhizocarpon disporum* (Nägeli ex Hepp) Müll. Arg. **NT**  
*Rhizocarpon distinctum* Th. Fr. **LC**  
*Rhizocarpon eupetraeum* (Nyl.) Arnold **VU**  
*Rhizocarpon geminatum* Körb. **VU**  
*Rhizocarpon geographicum* (L.) DC. **LC**  
*Rhizocarpon grande* (Flörke) Arnold **VU**  
*Rhizocarpon hochstetteri* (Körb.) Vain. **NT**  
*Rhizocarpon lavatum* (Fr.) Hazsl. **VU**  
*Rhizocarpon lecanorinum* Anders **LC**  
*Rhizocarpon leptolepis* Anzi **VU**  
*Rhizocarpon macrosporium* Räsänen **DD**  
*Rhizocarpon melaenum* Körb. **NE**  
*Rhizocarpon oederi* (Weber) Körb. **VU**  
*Rhizocarpon parasiticum* Eitner **NE**  
*Rhizocarpon petraeum* (Wulfen) A. Massal. **VU**  
*Rhizocarpon polycarpum* (Hepp) Th. Fr. **LC**  
*Rhizocarpon postumum* (Nyl.) Arnold **DD**  
*Rhizocarpon pseudorivulare* Eitner **NE**  
*Rhizocarpon pusillum* Runemark **DD**  
*Rhizocarpon reductum* Th. Fr. **LC**  
*Rhizocarpon ridescens* (Nyl.) Zahlbr. **CR**  
*Rhizocarpon simillimum* (Anzi) Lettau **DD**  
*Rhizocarpon subcaeruleum* Eitner **NE**  
*Rhizocarpon subgeminatum* Eitner **DD**  
*Rhizocarpon subpostumum* (Nyl.) Arnold **DD**  
*Rhizocarpon umbilicatum* (Ramond) Flagey **EN**  
*Rhizocarpon viridiatrum* (Wulfen) Körb. **VU**  
*Rhizoplaca chrysoleuca* (Sm.) Zopf **CR**  
*Rimularia badioatra* (Kremp.) Hertel et Rambold **DD**  
*Rimularia furvella* (Nyl. ex Mudd) Hertel et Rambold **VU**  
*Rimularia gibbosa* (Ach.) Coppins, Rambold et Hertel **NT**  
*Rimularia insularis* (Nyl.) Rambold et Hertel **NT**  
*Rinodina archaea* (Ach.) Arnold **CR**  
*Rinodina aspersa* (Borrer) J. R. Laundon **NT**  
*Rinodina atrocinerea* (Hook.) Körb. **DD**  
*Rinodina bischoffii* (Hepp) A. Massal. **LC**  
*Rinodina calcarea* (Arnold) Arnold **VU**  
*Rinodina castanomelodes* H. Mayrhofer et Poelt **CR**  
*Rinodina colobina* (Ach.) Th. Fr. **EN**  
*Rinodina confragosa* (Ach.) Körb. **VU**  
*Rinodina conradii* Körb. **EN**  
*Rinodina dubyana* (Hepp) J. Steiner **DD**  
*Rinodina efflorescens* Malme **VU**  
*Rinodina exigua* (Ach.) Gray **VU**  
*Rinodina griseosoralifera* Coppins **EN**  
*Rinodina immersa* (Körb.) Zahlbr. **NT**  
*Rinodina interpolata* (Stirt.) Sheard **CR**  
*Rinodina lecanorina* (A. Massal.) A. Massal. **VU**



- Rinodina milvina* (Wahlenb.) Th. Fr. **CR**  
*Rinodina mniaraea* (Ach.) Körb. **RE**  
*Rinodina occulta* (Körb.) Sheard **CR**  
*Rinodina oleae* Bagl. **LC**  
*Rinodina orculata* Poelt et M. Steiner **EN**  
*Rinodina oxydata* (A. Massal.) A. Massal. **NT**  
*Rinodina pityrea* Ropin et H. Mayrhofer **LC**  
*Rinodina pyrina* (Ach.) Arnold **VU**  
*Rinodina rinodinoides* (Anzi) H. Mayrhofer et Scheid. **EN**  
*Rinodina septentrionalis* Malme **EN**  
*Rinodina sophodes* (Ach.) A. Massal. **EN**  
*Rinodina terrestris* Tomim **RE**  
*Rinodina turfacea* (Wahlenb.) Körb. **RE**  
*Rinodina vezdae* H. Mayrhofer **DD**  
*Rinodina zwackhiana* Körb. **EN**  
*Rinodiniella controversa* (A. Massal.) H. Mayrhofer et Poelt **DD**  
*Sagirolechia protuberans* (Ach.) A. Massal. **RE**  
*Sarcogyne clavus* (DC.) Kremp. **NT**  
*Sarcogyne privigna* (Ach.) A. Massal. **NT**  
*Sarcogyne regularis* Körb. **LC**  
*Sarcosagium campestre* (Fr.) Poetsch et Schied. **LC**  
*Schaereria cinereorufa* (Schaer.) Th. Fr. **VU**  
*Schaereria fuscocinerea* (Nyl.) Clauzade et Cl. Roux **LC**  
*Schismatomma pericleum* (Ach.) Branth et Rostr. **EN**  
*Sclerophora coniophaea* (Norman) Mattsson et Middelb. **CR**  
*Sclerophora farinacea* (Chevall.) Chevall. **RE**  
*Sclerophora pallida* (Pers.) Y. J. Jao et Spooner **CR**  
*Sclerophora peronella* (Ach.) Tibell **EN**  
*Scoliciosporum chlorococcum* (Graewe ex Stenh.) Vězda **LC**  
*Scoliciosporum curvatum* Sérus. **VU**  
*Scoliciosporum galluriae* Vězda et Poelt **DD**  
*Scoliciosporum perpusillum* J. Lahm ex Körb. **NE**  
*Scoliciosporum sarothami* (Vain.) Vězda **LC**  
*Scoliciosporum schadeanum* (Erichsen) Vězda **DD**  
*Scoliciosporum umbrinum* (Ach.) Arnold **LC**  
*Solenopsis carpatica* Pišút et Vězda **CR**  
*Solorina crocea* (L.) Ach. **RE**  
*Solorina saccata* (L.) Ach. **EN**  
*Solorina spongiosa* (Sm.) Anzi **EN**  
*Sphaerophorus fragilis* (L.) Pers. **CR**  
*Sphaerophorus globosus* (Huds.) Vain. **CR**  
*Spilonema paradoxum* Bornet **DD**  
*Sporastatia polyspora* (Nyl.) Grummann **NT**  
*Sporastatia testudinea* (Ach.) A. Massal. **DD**  
*Squamarina cartilaginea* (With.) P. James **EN**  
*Squamarina gypsacea* (Sm.) Poelt **RE**  
*Squamarina lentigera* (Weber) Poelt **CR**  
*Staurothele ambrosiana* (A. Massal.) Zschacke **DD**  
*Staurothele areolata* (Ach.) Lettau **DD**  
*Staurothele caesia* (Arnold) Arnold **DD**  
*Staurothele fissa* (Taylor) Zwackh **EN**  
*Staurothele frustulenta* Vain. **LC**  
*Staurothele fuliginea* Zwackh **DD**  
*Staurothele hymenogonia* (Nyl.) Th. Fr. **DD**  
*Staurothele rufa* (A. Massal.) Zschacke **DD**  
*Staurothele rugulosa* (A. Massal.) Arnold **DD**  
*Staurothele succedens* (Rehm ex Arnold) Arnold **EN**  
*Steinia geophana* (Nyl.) Stein **LC**  
*Stereocaulon alpinum* Laurer **CR**  
*Stereocaulon botryosum* Ach. **RE**  
*Stereocaulon condensatum* Hoffm. **VU**  
*Stereocaulon dactylophyllum* Flörke **VU**  
*Stereocaulon evolutum* Graewe **CR**  
*Stereocaulon incrustatum* Flörke **DD**  
*Stereocaulon nanodes* Tuck. **NT**  
*Stereocaulon paschale* (L.) Hoffm. **RE**  
*Stereocaulon pileatum* Ach. **VU**  
*Stereocaulon saxatile* H. Magn. **CR**  
*Stereocaulon subcoralloides* (Nyl.) Nyl. **NE**  
*Stereocaulon tomentosum* Fr. **RE**  
*Stereocaulon vesuvianum* Pers. **VU**  
*Sticta fuliginosa* (Hoffm.) Ach. **CR**  
*Sticta sylvatica* (Huds.) Ach. **RE**  
*Strangospora deplanata* (Almq.) Clauzade et Cl. Roux **DD**  
*Strangospora microhaema* (Norman) R. A. Anderson **DD**  
*Strangospora moriformis* (Ach.) Stein **NT**  
*Strangospora pinicola* (A. Massal.) Körb. **NT**  
*Strigula stigmatella* (Ach.) R. C. Harris **EN**  
*Strigula synchogonoides* (Nitschke) R. C. Harris **DD**  
*Synalissa symphorea* (Ach.) Nyl. **NT**  
*Tephromela atra* (Huds.) Hafellner **NT**  
*Tephromela grumosa* (Pers.) Hafellner et Cl. Roux **LC**  
*Tetramelas chloroleucus* (Körb.) A. Nordin **EN**  
*Tetramelas geophilus* (Flörke ex Sommerf.) Norman **DD**  
*Tetramelas triphragmioides* (Anzi) A. Nordin et Tibell **DD**  
*Thamnolia vermicularis* (Sw.) Schaer. **EN**  
*Thelenella muscorum* (Fr.) Vain. **VU**  
*Thelenella vezdae* (H. Mayrhofer et Poelt) Coppins et Fryday **NT**  
*Thelidium corconticum* Servít **NE**  
*Thelidium decipiens* (Nyl.) Kremp. **NT**  
*Thelidium dionantense* (Hue) Zschacke **DD**  
*Thelidium eimeri* Zahlbr. **NE**  
*Thelidium fontigenum* A. Massal. **DD**  
*Thelidium fulloensis* Servít **NE**  
*Thelidium incavatum* Mudd **DD**  
*Thelidium methorium* (Nyl.) Hellb. **VU**  
*Thelidium minimum* (A. Massal. ex Körb.) Arnold **DD**  
*Thelidium minutulum* Körb. **LC**  
*Thelidium olivaceum* (Fr.) Körb. **DD**  
*Thelidium papulare* (Fr.) Arnold **VU**  
*Thelidium pyrenophorum* (Ach.) Mudd **VU**  
*Thelidium rehmsii* Zschacke **DD**  
*Thelidium schadeanum* Servít **NE**  
*Thelidium schleicheri* (Müll. Arg.) Zschacke **NE**

- Thelidium sublacteum* Eitner **NE**  
*Thelidium zahlbruckneri* Servít **NE**  
*Thelidium zwackhii* (Hepp) A. Massal. **NT**  
*Thelignya lignyota* (Wahlenb.) P. M. Jørg. et Henssen **DD**  
*Thelocarpon epibolum* Nyl. **LC**  
*Thelocarpon intermediellum* Nyl. **NT**  
*Thelocarpon laureri* (Flot.) Nyl. **LC**  
*Thelocarpon olivaceum* de Lesd. **NT**  
*Thelocarpon pallidum* G. Salisb. **EN**  
*Thelocarpon superellum* Nyl. **EN**  
*Thelomma ocellatum* (Körb.) Tibell **VU**  
*Thelopsis flaveola* Arnold **CR**  
*Thelopsis melathelia* Nyl. **CR**  
*Thelopsis rubella* Nyl. **RE**  
*Thelotrema lepadinum* (Ach.) Ach. **EN**  
*Thermutis velutina* (Ach.) Flot. **DD**  
*Thrombium epigaeum* (Pers.) Wallr. **LC**  
*Thyrea confusa* Henssen **VU**  
*Toninia aromatica* (Sm.) A. Massal. **EN**  
*Toninia athallina* (Hepp) Timdal **DD**  
*Toninia candida* (Weber) Th. Fr. **NT**  
*Toninia cinereovirens* (Schaer.) A. Massal. **EN**  
*Toninia diffracta* (A. Massal.) Zahlbr. **EN**  
*Toninia philippea* (Mont.) Timdal **RE**  
*Toninia physaroides* (Opiz) Zahlbr. **CR**  
*Toninia sedifolia* (Scop.) Timdal **LC**  
*Toninia squalescens* (Nyl.) Th. Fr. **RE**  
*Toninia squalida* (Schleich. ex Ach.) A. Massal. **RE**  
*Toninia subnitida* (Hellb.) Hafellner et Türk **DD**  
*Toninia taurica* (Szatata) Oxner **CR**  
*Toninia toniniana* (A. Massal.) Zahlbr. **RE**  
*Toninia tristis* (Th. Fr.) Th. Fr. **EN**  
*Toninia tumidula* (Sm.) Zahlbr. **VU**  
*Toninia verrucarioides* (Nyl.) Timdal **CR**  
*Trapelia coarctata* (Sm.) M. Choisy **LC**  
*Trapelia corticola* Coppins et P. James **EN**  
*Trapelia glebulosa* (A. L. Sm.) J. R. Laundon **LC**  
*Trapelia obtegens* (Th. Fr.) Hertel **LC**  
*Trapelia placodioides* Coppins et P. James **LC**  
*Trapeliopsis aeneofusca* (Flörke ex Flot.) Coppins et P. James **DD**  
*Trapeliopsis flexuosa* (Fr.) Coppins et P. James **LC**  
*Trapeliopsis gelatinosa* (Flörke) Coppins et P. James **NT**  
*Trapeliopsis glaucolepidea* (Nyl.) Gotth. Schneid. **NT**  
*Trapeliopsis granulosa* (Hoffm.) Lumbsch **LC**  
*Trapeliopsis pseudogranulosa* Coppins et P. James **LC**  
*Trapeliopsis viridescens* (Schrad.) Coppins et P. James **VU**  
*Trapeliopsis wallrothii* (Flörke) Hertel et Gotth. Schneid. **RE**  
*Tremolecia atrata* (Ach.) Hertel **VU**  
*Tuckermannopsis chlorophylla* (Willd.) Hale **NT**  
*Umbilicaria crustulosa* (Ach.) Frey **EN**  
*Umbilicaria cylindrica* (L.) Delise ex Duby **NT**  
*Umbilicaria deusta* (L.) Baumg. **LC**  
*Umbilicaria hirsuta* (Sw. ex Westr.) Hoffm. **LC**  
*Umbilicaria hyperborea* (Ach.) Hoffm. **VU**  
*Umbilicaria nylanderiana* (Zahlbr.) H. Magn. **EN**  
*Umbilicaria polyphylla* (L.) Baumg. **LC**  
*Umbilicaria proboscidea* (L.) Schrad. **CR**  
*Umbilicaria subglabra* (Nyl.) Harm. **CR**  
*Umbilicaria torrefacta* (Lightf.) Schrad. **CR**  
*Umbilicaria vellea* (L.) Hoffm. **EN**  
*Usnea articulata* (L.) Hoffm. **RE**  
*Usnea ceratina* Ach. **RE**  
*Usnea cornuta* Körb. **RE**  
*Usnea diplotypus* Vain. **EN**  
*Usnea filipendula* Stirt. **VU**  
*Usnea florida* (L.) Weber ex F. H. Wigg. **EN**  
*Usnea fulvovirens* (Räsänen) Räsänen **DD**  
*Usnea glabrata* (Ach.) Vain. **RE**  
*Usnea glabrescens* (Nyl. ex Vain.) Vain. **EN**  
*Usnea hirta* (L.) Weber ex F. H. Wigg. **VU**  
*Usnea intermedia* (A. Massal.) Jatta **CR**  
*Usnea lapponica* Vain. **CR**  
*Usnea longissima* Ach. **RE**  
*Usnea rugulosa* Vain. **NE**  
*Usnea scabrata* Nyl. **CR**  
*Usnea subfloridana* Stirt. **EN**  
*Varicellaria rhodocarpa* (Körb.) Th. Fr. **RE**  
*Verrucaria acrotella* Ach. **DD**  
*Verrucaria aemula* Servít **NE**  
*Verrucaria aethiobola* Wahlenb. **VU**  
*Verrucaria albofusca* Servít **NE**  
*Verrucaria amylacea* Hepp **DD**  
*Verrucaria anceps* Kremp. **DD**  
*Verrucaria andesiatica* Servít **DD**  
*Verrucaria anemoides* Servít **NE**  
*Verrucaria apomelaena* (A. Massal.) Hepp **DD**  
*Verrucaria applanata* Hepp ex Zschacke **DD**  
*Verrucaria aquatilis* Mudd **VU**  
*Verrucaria asperula* Servít **NE**  
*Verrucaria atroviridis* Servít ex J. Nowak et Tobol. **DD**  
*Verrucaria bakonyensis* Servít **NE**  
*Verrucaria baldensis* A. Massal. **NT**  
*Verrucaria barrandei* Servít **NE**  
*Verrucaria basaltica* Servít **NE**  
*Verrucaria bayeriana* (Servít) **NE**  
*Verrucaria beltramintiana* (A. Massal.) Trevis. **DD**  
*Verrucaria bernaicensis* Malbr. **DD**  
*Verrucaria bryoctona* (Th. Fr.) Orange **VU**  
*Verrucaria buellioides* Servít **DD**  
*Verrucaria caerulea* DC. **VU**  
*Verrucaria calciseda* DC. **NT**  
*Verrucaria cambrini* Servít **NE**  
*Verrucaria cavificans* Servít **NE**  
*Verrucaria compacta* (A. Massal.) Jatta **DD**  
*Verrucaria conchea* Servít **NE**  
*Verrucaria confluens* A. Massal. **DD**  
*Verrucaria consociata* Servít **NE**  
*Verrucaria corcontica* Servít **DD**  
*Verrucaria corticola* (Arnold) Servít **DD**  
*Verrucaria crustulosa* Nyl. **NE**

- Verrucaria cyanea* A. Massal. **EN**  
*Verrucaria dalejensis* Servít **NE**  
*Verrucaria diminuta* (Servít) Servít **DD**  
*Verrucaria detersa* (Kremp.) Stizenb. **DD**  
*Verrucaria diabasica* Servít **NE**  
*Verrucaria disjuncta* Arnold **DD**  
*Verrucaria dolosa* Hepp **LC**  
*Verrucaria dufourii* DC. **VU**  
*Verrucaria fagicola* (Servít) **NE**  
*Verrucaria floerkeana* Dalla Torre et Sarnth. **DD**  
*Verrucaria foveolata* (Flörke) A. Massal. **DD**  
*Verrucaria funckii* (Spreng.) Zahlbr. **VU**  
*Verrucaria fusca* Pers. **DD**  
*Verrucaria fuscata* Servít **NE**  
*Verrucaria fuscella* (Turner) Winch et Thornhill **VU**  
*Verrucaria fuscoatroides* Servít **DD**  
*Verrucaria glauconephela* Nyl. **DD**  
*Verrucaria glaucovirens* Grummann **DD**  
*Verrucaria hegetschweileri* Körb. **DD**  
*Verrucaria hemisphaerica* Servít **NE**  
*Verrucaria hochstetteri* Fr. **VU**  
*Verrucaria hydrela* Ach. **VU**  
*Verrucaria jizerae* (Servít) J. Nowak et Tobol. **NE**  
*Verrucaria jodophila* Servít **NE**  
*Verrucaria kalenskyi* Servít **NE**  
*Verrucaria kutakii* Servít **NE**  
*Verrucaria laevigata* (Arnold) **NE**  
*Verrucaria lamyana* Servít **NE**  
*Verrucaria latebrosa* Körb. **EN**  
*Verrucaria latebrosoides* Servít **NE**  
*Verrucaria lecideoides* Trevis. **VU**  
*Verrucaria lojkae* Servít **NE**  
*Verrucaria luctuosa* Servít **NE**  
*Verrucaria macochae* Servít **NE**  
*Verrucaria macrostoma* Dufour ex DC. **NT**  
*Verrucaria macrostomoides* Servít **NE**  
*Verrucaria maculiformis* Kremp. **DD**  
*Verrucaria margacea* (Wahlenb.) Wahlenb. **VU**  
*Verrucaria marmorea* (Scop.) Arnold **DD**  
*Verrucaria minor* (Servít) **NE**  
*Verrucaria minuta* (Hepp) Zschacke **DD**  
*Verrucaria molaris* Servít **NE**  
*Verrucaria moravica* Servít **NE**  
*Verrucaria mortarii* (Arnold) Lamy **NE**  
*Verrucaria muralis* Ach. **LC**  
*Verrucaria muricola* Servít **NE**  
*Verrucaria murina* Leight. **DD**  
*Verrucaria murorum* (Arnold) Lindau **DD**  
*Verrucaria nigrescens* Pers. **LC**  
*Verrucaria nigrofusca* Servít **DD**  
*Verrucaria nigroumbrina* Servít **NE**  
*Verrucaria obfuscans* Nyl. **DD**  
*Verrucaria ochrostoma* (Borrer et Leight.) Trevis. **LC**  
*Verrucaria olivascens* Servít **NE**  
*Verrucaria opiziana* Servít **NE**  
*Verrucaria pachyderma* Arnold **EN**  
*Verrucaria pachyspora* Servít **NE**  
*Verrucaria pallidocarpa* (Servít) **NE**  
*Verrucaria paramauroides* Servít **DD**  
*Verrucaria parmigerella* Zahlbr. **VU**  
*Verrucaria piliscsabensis* Servít **NE**  
*Verrucaria pilisensis* Servít **NE**  
*Verrucaria pingucula* A. Massal. **CR**  
*Verrucaria polita* (Servít) **NE**  
*Verrucaria polysticta* Borrer **DD**  
*Verrucaria praetermissa* (Trevis.) Anzi **VU**  
*Verrucaria procopii* Servít **NE**  
*Verrucaria pseudocrotella* Servít **NE**  
*Verrucaria pseudominuta* Servít **NE**  
*Verrucaria pseudomyriocarpa* Servít **NE**  
*Verrucaria pseudonigrescens* Servít **NE**  
*Verrucaria pseudoschistosa* Servít **NE**  
*Verrucaria refugii* Servít **NE**  
*Verrucaria rheitrophila* Zschacke **EN**  
*Verrucaria rimulosa* Servít **NE**  
*Verrucaria rivalis* Zschacke **DD**  
*Verrucaria ruderum* DC. **DD**  
*Verrucaria ruinicola* Servít **NE**  
*Verrucaria saphrophila* (A. Massal.) Trevis. **DD**  
*Verrucaria saxivora* Servít **NE**  
*Verrucaria schindleri* Servít **DD**  
*Verrucaria serpentinei* (Servít) **NE**  
*Verrucaria simplex* P. M. McCarthy **DD**  
*Verrucaria sphaerospora* Anzi **VU**  
*Verrucaria subcontinua* (Nyl.) Zschacke **NE**  
*Verrucaria subdecussata* Servít **NE**  
*Verrucaria subdolosia* Servít **NE**  
*Verrucaria subglobulata* Eitner ex Servít **DD**  
*Verrucaria subpruinosa* (Servít) **NE**  
*Verrucaria suzae* (Servít) **NE**  
*Verrucaria sylvatica* (Arnold) Zschacke **DD**  
*Verrucaria tapetica* Körb. **NE**  
*Verrucaria tectorum* (A. Massal.) Körb. **DD**  
*Verrucaria timkoi* Servít **NE**  
*Verrucaria trachyticola* Servít **NE**  
*Verrucaria turgida* Servít **NE**  
*Verrucaria umbrinula* Nyl. **DD**  
*Verrucaria verruculifera* Servít **NE**  
*Verrucaria vindobonensis* Zschacke **DD**  
*Verrucaria viridula* (Schrad.) Ach. **NT**  
*Verrucaria xyloxena* Norman **VU**  
*Verrucaria zlichovensis* Servít **NE**  
*Veizdaea acicularis* Coppins **LC**  
*Veizdaea aestivalis* (Ohlert) Tscherm.-Woess et Poelt **NT**  
*Veizdaea cobria* Giralto, Poelt et Suanjak **DD**  
*Veizdaea leprosa* (P. James) Vězda **DD**  
*Veizdaea retigera* Poelt et Döbbeler **DD**  
*Veizdaea rheocarpa* Poelt et Döbbeler **DD**  
*Veizdaea stipitata* Poelt et Döbbeler **DD**  
*Vulpicida pinastri* (Scop.) J.-E. Mattsson et M. J. Lai **NT**  
*Vulpicida tubulosus* (Schaer.) J.-E. Mattsson et M. J. Lai **NE**

- Xanthoparmelia angustiphylla* (Gyeln.) Hale **DD**  
*Xanthoparmelia conspersa* (Ach.) Hale **LC**  
*Xanthoparmelia loxodes* (Nyl.) O. Blanco et al. **LC**  
*Xanthoparmelia mougeotii* (Schaer. ex D. Dietr.) Hale **EN**  
*Xanthoparmelia protomatrae* (Gyeln.) Hale **NT**  
*Xanthoparmelia pulla* (Ach.) O. Blanco et al. **LC**  
*Xanthoparmelia pulvinaris* (Gyeln.) Ahti et D. Hawksw. **NE**  
*Xanthoparmelia stenophylla* (Ach.) Ahti et D. Hawksw. **LC**  
*Xanthoparmelia tinctina* (Maheu et A. Gillet) Hale **NE**  
*Xanthoparmelia verruculifera* (Nyl.) O. Blanco et al. **LC**
- Xanthoria calcicola* Oxner **CR**  
*Xanthoria candelaria* (L.) Th. Fr. **LC**  
*Xanthoria elegans* (Link) Th. Fr. **LC**  
*Xanthoria fallax* (Hepp) Arnold **NT**  
*Xanthoria fulva* (Hoffm.) Poelt et Petut. **VU**  
*Xanthoria parietina* (L.) Th. Fr. **LC**  
*Xanthoria polycarpa* (Hoffm.) Th. Fr. ex Rieber **NT**  
*Xanthoria sorediata* (Vain.) Poelt ex Vězda **EN**  
*Xanthoria ulophyllodes* Räsänen **DD**  
*Xylographa minutula* Körb. **NE**  
*Xylographa parallela* (Ach.: Fr.) Behlen et Desberger **VU**  
*Xylographa vitiligo* (Ach.) J. R. Laundon **VU**

## Discussion

Based on a detailed evaluation, 98 species were excluded for various reasons (non-lichenized fungus, not recorded in the country, misidentification and other errors) from the previous list of species published for the Czech Republic (Vězda & Liška 1999). Nevertheless, doubts persist for certain taxa, which need further study in herbaria or are problematic taxonomically. These species were not evaluated according to IUCN criteria and are in the category NE (120 species in total, 8%). Species for which there are insufficient data for a categorization are treated as data deficient (DD – 313 species, 20.9%). The category of regionally extinct species includes 140 lichens (9.4%). In total 560 species (37.4%) are threatened (see Table 1). A comparison with neighbouring countries is difficult, because different concepts are used there. In Germany and Austria (Wirth et al. 1996, Türk & Hafellner 1999), a different scale and categorization are used, because the first Red Lists for these countries were published prior to the publication of the newly defined IUCN categories. However, comparison is difficult even with countries in which the new IUCN categories (version 3.1, IUCN 2001) are used, such as Slovakia (Pišút et al. 2001) and Poland (Cieśliński et al. 2003), because red listed species form only a part of the lichen flora.

Table 1. – Number of species in IUCN categories and percentage of the total number of redlist-evaluated taxa.

Category	Number of species	%
RE (regionally extinct)	140	9.4
CR (critically endangered)	130	8.7
EN (endangered)	184	12.3
VU (vulnerable)	246	16.4
NT (near threatened)	174	11.6
LC (least concern)	190	12.7
DD (data deficient)	313	20.9
NE (not evaluated)	120	8.0
Total	1497	100.0
Threatened (CR+EN+VU)	560	37.4

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## Souhrn

Předkládaný červený seznam představuje první verzi zhodnocení míry ohrožení lišejníkové flóry ČR. Použitá kategorizace je podle nových kritérií IUCN (verze 3.1). Červený seznam je publikován jako součást aktualizovaného kompletního seznamu druhů lišejníků ČR a slouží tedy zároveň jako checklist s vyznačenými změnami oproti předchozímu soupisu (Katalog lišejníků ČR, Vězda & Liška 1999). Seznam zahrnuje pouze kategorii druhu a infraspecifické taxony nejsou samostatně pojednány. Celkový počet zahrnutých druhů je 1497 lišejníků (lichenizovaných hub bez hub lichenizovaných). Ve srovnání s dříve publikovaným Katalogem bylo 98 druhů vyloučeno (nelichenizované houby, nedoložený výskyt, chybná determinace a jiné omyly). Nehodnoceny byly taxony, u jejichž výskytu jsou pochybnosti, taxony málo známé a taxonomicky nejasné (kategorie NE) – celkem 120 druhů (8% z celkového počtu lišejníků). Celkem ohrožených druhů je 560 (37.4%), z toho kriticky ohrožených (kategorie CR) je 130 (8.7%), ohrožených (EN) je 184 (12.3%) a zranitelných (VU) je 246 (16.4%). Mimo to 140 druhů (9.4%) bylo zařazeno do kategorie vyhynulých (RE). Taxonů blízkých ohrožení (NT) je celkem 174 druhů (11.6%). Neohrožených taxonů (LC) je 190 (12.7%). Taxonů s nedostatečně známými údaji pro kategorizaci (DD) je 313 (20.9%). Nomenklatorické změny oproti Katalogu jsou uvedeny samostatně v soupisu synonym.

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Appendix 1. – References that contain additional new lichen Czech records not included neither in Vězda & Liška (1999) nor in Liška (2005)

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