

## Red List of vascular plants of the Czech Republic – 2000

Červený seznam cévnatých rostlin České republiky (stav v roce 2000)

† Josef Holub & František Procházka<sup>1</sup>

<sup>1</sup>Eko-Agency KOPR, Pivovarská 61, CZ-385 01 Vimperk, Czech Republic, e-mail: frantisek.prochazka@kaleidoscope.cz

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After more than 20 years since the publication of the first version of the list of extinct, endemic and endangered taxa of vascular plants of the Czech Republic, a new version is presented to the botanical and nature conservation public. This version includes much new data on the flora of the Czech Republic which has been accumulated since 1979. A number of taxa are included which were not considered in the previous version (i. e. newly described species, and taxa known from other territories but only discovered in the Czech Republic in the last two decades). The threat classification of some taxa been changed on the basis of much more detailed knowledge of their present distribution.

**Key words:** Red list, vascular plants, threatened plants, Czech Republic

### Introduction

The first version of the list of extinct and endangered taxa of the Czech flora was published more than twenty years ago (Holub et al. 1979). Even at the time of its publication, the authors knew that some facts would either change the status of some species included (e. g. *Isoetes lacustris* was erroneously included since the authors were not aware that its occurrence in the only locality had been confirmed after more than 50 years – see Tomšovic 1979) or add other taxa to the list (e. g. *Hypochaeris glabra*, *Androsace septentrionalis* were omitted by mistake).

Publication of the list, as well as of its modifications aimed at a broader public (Čeřovský et al. 1979, 1980, Procházka et al. 1983) stimulated interest among botanists and nature conservationists which lead to a rapid accumulation of numerous new records. This new information substantially changed the situation reflected in the work from 1979 which was based on the knowledge available in 1978. Also, work on several volumes of the Flora of the Czech Republic (Hejný & Slavík 1988, 1990, 1992, Slavík 1995), which has not been completed as yet, yielded further new records and contributed remarkably to a better knowledge of the current state.

Soon it became obvious that some taxa were included on the list by mistake because at the time of its publication, they were still growing in their known localities (e. g. *Astragalus arenarius*, *Eragrostis pilosa*, *Kochia prostrata*, *Ostericum palustre*, *Poa riphaea*, *Verbascum speciosum*). Other species disappeared from their historical locations but were found elsewhere later on so it was necessary – to the delight of botanists and nature conservationists – to move them to the category of “only” critically threatened species (e. g. *Adonis flammea*, *Lathyrus pisiformis*, *Nasturtium microphyllum*, *Phelipanche*

*caesia*, *Pilosella macrantha*, *Salix myrtilloides*, *Spergula pentandra*, *Wolffia arrhiza*). A more detailed research of taxonomically complicated groups such as *Epipactis helleborine* agg., *Minuartia verna* agg., *Rubus fruticosus* agg., *Taraxacum* sect. *Palustria* et sect. *Ruderalia* yielded recognition of a number of species which had not been previously reported from the territory of the Czech Republic (*Epipactis greuteri*, *Himantoglossum adriaticum*, *Minuartia caespitosa*, *Rubus* sp. div., *Taraxacum* sp. div., *Vandenboschia speciosa*), and some species were newly described from here (*Dactylorhiza bohémica* Businský, *Minuartia smejkalii* Dvořáková, *Rubus angustipaniculatus* Holub, *R. austromoravicus* Holub, *R. barrandienicus* Holub et Palek, *R. henrici-egonis* Holub, *R. bohemiicola* Holub, *R. brdensis* Holub, *R. centrobohemicus* Holub, *R. crispomarginatus* Holub, *R. josefianus* H. E. Weber, *R. perrobustus* Holub, *R. vratnensis* Holub, *Taraxacum bohemicum* Kirschner et Štěpánek, *T. dentatum* Kirschner et Štěpánek, *T. irrigatum* Kirschner et Štěpánek, *T. madidum* Kirschner et Štěpánek, *T. mendax* Kirschner et Štěpánek). For these new species, it was necessary to evaluate the degree of threat and include them in the new version of the list.

On the other hand, it appeared necessary to discard some taxa from the list because they were found to have been erroneously reported from the region (e. g. *Lonicera caerulea*). A different story is that of *Potamogeton polygonifolius* which had to be transferred from the category of unclear cases of extinct and missing taxa to the category of critically threatened, because it has recently been proved to be occurring in western Bohemia (surroundings of the town of Aš). There were more shifts to be made among particular categories, justified by new information. For example *Sparganium angustifolium*, *Herminium monorchis* or *Xeranthemum annuum* were moved from critically threatened to extinct taxa, *Utricularia bremii* and *Hippochaete ×meridionalis* from critically threatened to missing taxa, *Goodyera repens*, *Daphne cneorum* or *Illecebrum verticillatum* from strongly threatened to critically threatened, and the status of *Ajuga pyramidalis*, originally classified as merely threatened, had to be changed to critically threatened. Opposite trends are represented by lowering the degree of threat of some species. Hence e. g. *Iris humilis* subsp. *arenaria*, *Orobancha alsatica* or *O. reticulata* were moved from critically threatened to “merely” threatened taxa.

Publications focused, from various point of view, on endangered species in particular regions of the Czech Republic became another source of new information, often leading to re-classification of the originally reported degree of threat. The following regions deserve to be mentioned, i. e. northern Bohemia (Kubát 1986), eastern Bohemia (Faltys 1993), the region of Prachatice (Procházka 1990), Jeseníky Mts (Bureš et al. 1989), Bílé Karpaty Mts (Jongepierová & Grulich 1992) and the district of Zlín (Elsnerová 1995).

The new knowledge accumulated during the 1980s and the first half of 1990s as a result of a better insight into the state of the Czech flora and its level of danger was utilized for the second version of the Red List of Czech flora (Holub et al. 1995). This document was first thoroughly discussed at the workshop organized by the Czech Botanical Society specifically on this topic on 24–25 March 1995 (cf. Kubát 1996), and was provided to the Ministry of Environment not long afterwards. Although it has never been officially published, it has been circulating among the botanical and conservation community as unofficial copies and it is often referred to in scientific papers. This working version of the Red List differs from the first one, published in 1979, not only in the numerous changes in classification of some taxa into particular categories but also in that it contains neither the cate-

gory of uncertain cases of extinct taxa (A3) nor that of least endangered taxa (C4, i.e. rare taxa requiring further study).

A list of species representing these two omitted categories was made available later (Holub 1996), however, only in the form of a working document submitted for discussion to a broader botanical public. Compared to the first version (Holub et al. 1979), the newer list shows remarkably fewer taxa in C4 category. This is because in some taxa, originally ranked under this category, a higher degree of threat was found leading to their transfer to categories C1, C2 or C3. On the contrary, other taxa were excluded from C4 as it became clear that they are not endangered at all (e. g. *Circaea intermedia*, *Juncus squarrosus* and others).

The work on the unpublished, second version of the Red List was carried out from May 1994 to April 1995. In the course of the few years that have passed since then, a number of new data became available, making it necessary to compile a new version which is presented in the present paper. These new data were partly published, some in the fifth volume of the Flora of the Czech Republic (Slavík 1997), others in various studies on those groups of the Czech flora which had not been sufficiently known up to then (*Diphasiastrum* – Procházka 1997; *Euphrasia* – Dvořáková 1999b; *Hypericum* – Mártonfi et al. 1999; *Lemna* – Kaplan 2000; *Minuartia* – Dvořáková 1999a; *Orchidaceae* – Batoušek 1998, 1999, Batoušek & Kreutz 1999, Jatiová & Šmiták 1996; *Orobanchae* – Holub & Zázvorka 1999; *Primula* – Kovanda 1997b; *Rubus* – Weber 2000; *Sorbus* – Kovanda 1996a, b, 1997a, 1998; *Stipa* – Danihelka et al. 2000; *Taraxacum* sect. *Palustria* – Kirschner & Štěpánek 1998, etc.). Also, there have been many new species discovered in the territory of the Czech Republic since 1995; some of them have been described from other regions of Europe as late as in the last few years [*Diphasiastrum oellgaardii* Stoor, Boudrie, Jérôme, Horn et Bennert, *Epipactis distans* C. Arvet-Touvet, *E. nordeniorum* Robatsch, *E. pontica* Taubenheim, *E. pseudopurpurata* Mered'a, *E. tallosii* A. Molnár et K. Robatsch, *Hypericum dubium* Leers, *Orobanchae teucris* Holandre, *Rubus amphimalacus* H. E. Weber, *R. caflischii* Focke, *R. sendtneri* Progel, *R. nessensis* subsp. *scissoides* H. E. Weber, *R. ortostachyoides* H. E. Weber, *R. wessbergii* A. Pedersen et Walsemann, *R. pseudidaeus* (Weihe) Lej., *Stipa eriocaulis* Borbás, *Taraxacum fartoris* Kirschner et Štěpánek, *T. fascians* Kirschner et Štěpánek, *T. litigiosum* Kirschner et Štěpánek, *T. ranunculus* Kirschner et Štěpánek]. Numerous species and subspecies have even been described as new to science from the Czech Republic since 1995 (*Dactylorhiza traunsteineri* subsp. *carpatica* Batoušek et Kreutz, *Minuartia corcontica* Dvořáková, *Rubus josholubii* H. E. Weber, *Taraxacum ambrosium* Kirschner et Štěpánek, *T. indigenum* Kirschner et Štěpánek, *T. inundatum* Kirschner et Štěpánek, *T. paludem-ornans* Kirschner et Štěpánek, *T. portentosum* Kirschner et Štěpánek, *T. tragopogon* Kirschner et Štěpánek, *T. uvidum* Kirschner et Štěpánek), some were re-classified at the species [*Euphrasia corcontica* (Smejkal) Smejkal et Dvořáková] or subspecies [*Primula elatior* subsp. *corcontica* (Domin) Kovanda] level. The present list includes some taxa which were found in the Czech Republic so recently that the respective records have not been published as yet [*Cystopteris dickieana* R. Sim – K. Kubát, personal communication; *Dactylorhiza maculata* subsp. *ericetorum* (E. F. Linton) Averyanov – P. Batoušek, personal communication].

Of the species considered in 1995 as extinct or missing, some have been found in the Czech Republic since then, i. e. *Linaria arvensis* (southern Bohemia – Suda 1999), *Hypericum pulchrum* and *Luronium natans* (northern Bohemia – J. Hadinec & J. Suda, unpubl.), *Triglochin maritimum* (salt marsh at the Nesyt fishpond – P. Šmarda, J. Danihelka

et al., unpubl.), *Utricularia bremii* (southern Bohemia – M. Štech, unpubl.). On the other hand, it appeared necessary to exclude the only one historical record of *Himantoglossum hircinum* from the Czech flora because the plant on a herbarium specimen from northern Bohemia from 1874 (leg. Brandeis), surprisingly discovered quite recently by R. Hendrych in the Herbarium of National Museum Praha (PR) (cf. Hendrych 2000) is *H. adriaticum* (rev. F. Procházka, 17 February 2000) not *H. hircinum* (see Preslia 72: 562, 2000).

The necessity to update the list of extinct, missing and endangered taxa of the Czech flora, presented here to the botanical and nature-conservation community resulted from a large body of new data published recently in relevant, conservation oriented publications. Among the most important are the fifth volume of the Red Data Book of endangered plant and animal species of the Czech Republic, dealing with vascular plants (Čeřovský et al. 1999), the extensive Commented Red List of endangered flora of the southern part of Bohemia (Chán 1999), the new version of the Black List of the flora of Czech Republic (Holub et al. 1999, Holub 2000) and the Red List of brambles of the Czech Republic (Holub 1999).

## Structure of the Red List

Concerning particular categories of endangerment, we follow the common classification used in previous versions (A1 to A3, C1 to C4) which has gradually converged with internationally used criteria (IUCN 1994, Holub 1996). However, in comparison to previous versions, we have changed the classification of taxa into particular categories in order to adapt our system to the international one. Unlike the Red List from 1979 (Holub, Procházka & Čeřovský 1979), the present one does not contain the B section (endemic and subendemic taxa). This is because nothing has changed with long known endemic/subendemic taxa while in those taxa described recently, the distribution status is only partially known (e.g. *Dactylorhiza bohemica*, *Euphrasia corcontica*, *Minuartia smejkalii*, *M. corcontica*, *Rubus bohemicola*). Although it can be assumed that many other newly described taxa belonging to taxonomically complicated genera such as *Dactylorhiza*, *Rubus*, *Taraxacum*, and *Sorbus* will have an endemic distribution, the present knowledge of their total distribution is too vague to be certain.

### A. Extinct and missing taxa (IUCN: extinct = EX)<sup>1</sup>

#### A1. Definitely extinct taxa (EX)

This category includes taxa which (i) have not been found within the territory of the Czech Republic for a very long time (25–50 years, but in some cases more than 100 years), (ii) were not found in their well known, but scarce localities despite habitat conditions in these localities remaining essentially unchanged in the last 50 years, (there was an effort to revise the occurrence of these species,) or taxa which (iii) have distinct and specialized ecological demands which have gone extinct in their usually scarce localities because of changed habitat conditions. In the latter case, the time criterion is not relevant.

<sup>1</sup> Currently valid IUCN categories (better suited to zoological than botanical needs) correspond only in part to the categories which are commonly used in the Czech Republic. The categories which were adopted for the purpose of the present paper are similar to those used in most neighbouring Central European countries. For the differences between IUCN categories and those used in the present paper, see the criteria described in the text.

## A2. Missing (probably extinct) taxa (?EX)

The group of missing (= probably extinct) taxa contains plants which were not found in their well known localities for more than 20–30 years (or less if relevant) but a possibility of their re-appearance in these localities or of discovering new localities cannot be discounted. This particularly concerns species which can be easily overlooked, occur only ephemeraly or their occurrence is of such a kind that typically, some of their localities disappear and others can appear elsewhere. Taxa which have not been paid sufficient attention for some time are also often included here. In the future, it is probable that some representatives of this category will be moved to that of critically threatened or extinct, once reliable data on their current distribution have been accumulated.

## A3. Uncertain cases of extinct or missing taxa (?EX?)

This very heterogeneous category includes cases qualified by the fact that there is no reliable evidence of their presence in our flora, it is not known whether they appeared accidentally or their presence is of a more long term character, or whether they are introduced or native. Further, taxa with uncertain taxonomic positions belong here as well as those which could have been misdetermined. A more detailed study of each particular case is needed to decide whether such a taxon belongs to category A1 (or possibly A2) or should be included among taxa under a different degree of threat. The A3 category certainly contains a number of species which never grew in the Czech Republic (since they were reported by mistake) or those that are of very low taxonomical value. Only research aimed on such a species can yield results needed for a decision to be made about its transfer to another category or definite removal from our flora (both in terms of historical and present state).

## C. Taxa under a different degree of threat

### C1. Critically threatened taxa (IUCN: critically endangered = CR)

Primarily, this category includes taxa which are both very rare and seriously threatened, represented by only one or few (usually up to 5) local populations, confined mostly to habitats endangered by human activities (such as fens, peat bogs, oligotrophic pastures, regularly managed semi-natural grasslands) but sometimes also by natural factors (rock falls, avalanches, successional changes, etc.). Populations of these species are mostly not abundant (in some cases, the population size has already dropped below the critical threshold), they are often fragmented, isolated, and formed by individuals which flower only occasionally, rarely bear viable seed or persist in localities only by vegetative means. Taxa whose occurrence exhibits such pattern are classified here even if the number of their localities exceeds 5 because in order to conserve their gene pool, a strict limit in the number of localities is of no use. The category further consists of taxa which were common or very common in the past but must now be considered rare due to a substantial decrease in number, size and density of local populations. Some of them have declined to only 10% (or even less) of their former occurrence and it can be assumed that this trend will continue. Many weeds of arable fields, flax-associated weeds, and species of emergent bottoms of water bodies are examples here. If relevant conservation measures are not immediately

implemented to protect taxa of this category (some do not grow in areas protected for nature conservation), it is highly probable that under the continuing influence of threatening factors many of them will disappear from our flora.

## C2. Strongly threatened taxa (IUCN: endangered = EN)

Taxa with a proven and consistent trend of decline are classified in this category. Their retreat has been most marked in the last period and is accompanied by a clear decrease in number, size and density of populations within a large part of the country or over its whole territory. In some cases, taxa belonging to this category have already disappeared from some large-scale regions. A decrease to 50%, or even less, of the original status can happen. Unlike in the previous category (C1), however, such decline does not usually happen in all populations. Further, some rare species with only a few known localities (usually 5–20) belong here. The low number of localities is a threat in itself, especially if some of the localities are endangered, but the situation is not considered critical as yet. These taxa are not threatened by complete extinction from the Czech flora but if efficient conservation measures are not adopted, they might become critically endangered in the future.

## C3. Threatened taxa (IUCN: vulnerable = VU)

The taxa included into this category have been declining less markedly than those in the previous group but their retreat is proven and appears to be permanent. Over the whole territory of the Czech Republic, or at least in part of it, local populations have decreased and can even disappear from localities where the species is less abundant. This leads to the species being less frequent than in the past (available figures suggest that the reduction varies between 20 to 50% of the original occurrence). Taxa belonging to this group are often confined to habitats which are decreasing in the contemporary landscape.

## C4. Rare or scattered taxa, requiring further study and monitoring (IUCN: lower risk = LR + data deficient = DD)

This category contains rather rare taxa which cannot, at the moment, be placed in any of the groups given above. It can be assumed that they will be threatened in the near future because of numerous potential threats. For example, some relatively common species are attractive and thus endangered by being picked during flowering. Also, taxa belong here for which sufficient taxonomical, phytogeographical and ecological information is not available and hence the degree of threat cannot be more precisely decided.

## Remarks on the Red List

The nomenclature used in this paper follows the opinion of J. Holub whose taxonomical conception was that of a splitter. This means that some narrow genera (such as *Carex* excl. *Vigneae*, *Cornus* excl. *Swida*, *Filago* excl. *Logfia* or *Cerastium* excl. *Dichodon*) are accepted that would usually be treated at lower taxonomical levels (generally subgenus or section) by workers abroad. Similarly, some taxa treated here as species are more usually

accepted at the subspecific level (*Zannichellia palustris*, *Z. pedicellata* or *Potentilla thyrsiflora*, *P. hedrichii* etc.). The use of names other than those in common use (e. g. *Genistella sagittalis* instead of *Chamaespartium sagittale*, *Kengia serotina* instead of *Cleistogenes serotina*, *Kadenia dubia* instead of *Cnidium dubium*, *Spergularia media* instead of *S. maritima*, *Struthiopteris spicant* instead of *Blechnum spicant*, *Vandenboschia speciosa* instead of *Trichomanes speciosum*) is either a reflection of Holub's opinion or is an indication of doubt about the correctness of the more usually applied names, whether for taxonomic (e. g. *Mutellina purpurea*, *Tithymalus virgultosus*) or purely nomenclatural reasons. Many of these examples, along with those taxa followed by the abbreviations "tax." or "nom." in the list would make convenient and worthwhile subjects for future detailed studies.

The Agency of Nature and Landscape Protection of the Czech Republic is preparing for publication an extended version of the present list for the purpose of practical nature conservation. In that version, a broader generic concept which is common in Europe will be used, and national nomenclature (common names) as well as an alphabetical list of all taxa with references to both Czech (Regulation of the Ministry of Environment of the Czech Republic No. 395/1992) and international (Bern Convention, Washington Convention, Regulation of the European Community No. 92/43/EEC from 1992) legislation will be added.

The present list uses species as the basic systematic unit. Where required, subspecies are also given. If a species is listed which has more than one subspecies growing in the Czech Republic and none of these subspecies is specifically mentioned, then all its subspecies belong to given category into which the species is classified. Hybrids are included only when their populations are already completely independent of parental populations or when they represent rare hybrid combinations of woody plants described from the Czech Republic (e. g. the extremely rare pine *Pinus × celakovskiorum* which has been growing in its locus classicus on boulder scree near the Plešné jezero lake in the Šumava Mts for more than 100 years).

Names of some taxa are followed by abbreviations:

- „ind.“ – only native occurrence considered
- „ind.?“ – unclear if the species is a native of the Czech Republic
- „tax.“ – taxon is problematic from the taxonomic point of view
- „s. l.“ – broad conception of the given taxon
- „s. s.“ – narrow conception of the given taxon (microspecies or typical subspecies)
- „agg.“ – a group of insufficiently known taxa (often microspecies)
- „nom.“ – nomenclature of the taxon is problematic

## List of extinct, missing and endangered taxa of vascular plants of the Czech Republic

### A1. Definitely extinct taxa

*Alchemilla corcontica* Plocek  
*Aldrovanda vesiculosa* L.  
*Androsace maxima* L.  
*Apera interrupta* L.  
*Asperula arvensis* L.

- Astragalus asper* Jacq. (ind.)  
*Betula humilis* Schrank  
*Botrychium simplex* E. Hitchc.  
*Camelina alyssum* (Mill.) Thell.  
*Camelina macrocarpa* Reichenb. [*C. alyssum* subsp. *integerrima* (Čelak.) Smejkal, *C. alyssum* subsp. *macrocarpa* (Wierzb.) Hiit., *C. sativa* subsp. *macrocarpa* (Wierzb.) Soó]  
*Ceratocephala orthoceras* DC. [*C. testiculata* auct.]  
*Ciminalis acaulis* (L.) Borkh. [*Gentiana acaulis* L.]  
*Clematis* vide *Coriflora*  
*Conringia austriaca* (Jacq.) Sweet  
*Coriflora integrifolia* (L.) W. A. Weber [*Clematis integrifolia* L., *Viorna integrifolia* (L.) Spach]  
*Cuscuta epilinum* Weihe  
*Cystopteris sudetica* A. Braun et Milde  
*Dactylorhiza russowii* (Klinge) Holub  
*Euphrasia corcontica* (Smejkal) Smejkal et Dvořáková [*E. micrantha* Reichenb. var. *corcontica* Smejkal]  
*Galatella cana* (Waldst. et Kit.) Nees [*Aster canus* Waldst. et Kit.]  
*Galium verrucosum* Hudson  
*Gentianella campestris* (L.) Börner subsp. *campestris*  
*Gentianella campestris* (L.) Börner subsp. *suecica* (Froel.) Tzvelev  
*Gentianella germanica* (Willd.) Börner subsp. *solstitialis* (Wettst.) Holub  
*Gentianella praecox* (A. Kerner et J. Kerner) E. Mayer subsp. *praecox* [*G. gabretae* Skalický]  
*Geranium bohemicum* L.  
*Geranium lucidum* L.  
*Gladiolus felicis* Mirek  
*Gymnadenia odoratissima* (L.) L. C. Richard  
*Helianthemum* vide *Rhodax*  
*Heliotropium europaeum* L.  
*Herminium monorchis* (L.) R. Br.  
*Hieracium purkynei* Čelak.  
*Iris spuria* L.  
*Linnaea borealis* L.  
*Linum perenne* L.  
*Melampyrum barbatum* Willd.  
*Moehringia muscosa* L.  
*Moenchia erecta* (L.) P. Gaertn., E. Meyer et Scherb.  
*Montia arvensis* Wallr. [*M. fontana* subsp. *chondrosperma* (Fenzl) Walters, *M. fontana* subsp. *verna* Dostál]  
*Myagrum perfoliatum* L.  
*Narthecium ossifragum* (L.) Hudson  
*Oenanthe fistulosa* L.  
*Oenanthe silaifolia* M. Bieb.  
*Orchis coriophora* L.  
*Pedicularis sceptrum-carolinum* L.  
*Peucedanum arenarium* Waldst. et Kit.  
*Pilularia globulifera* L.  
*Plantago altissima* L.  
*Potamogeton coloratus* Hornem.  
*Potamogeton compressus* L.  
*Primula farinosa* L.  
*Rhodax rupifragum* (Kerner) Holub [*Helianthemum rupifragum* Kerner]  
*Rosa arvensis* Hudson  
*Salicornia prostrata* Pallas  
*Schoenoplectus supinus* (L.) Palla  
*Schoenoplectus triquetus* (L.) Palla  
*Scirpus* vide *Schoenoplectus*  
*Scleranthus verticillatus* Tausch [*S. collinus* Opiz]  
*Senecio* vide *Tephrosieris*  
*Silene bupleuroides* L. (ind.?)

*Silene cretica* L. subsp. *annulata* (Thore) Hayek (tax.)  
*Sparganium angustifolium* Michx.  
*Spergula linicola* Boreau  
*Suaeda prostrata* Pallas [*S. pannonica* auct. fl. morav. non (L.) Dumort.]  
*Tephroseris palustris* (L.) Fourr.  
*Trinia ucrainica* Šiškin [*T. kitaibelii* auct., *T. ramosissima* auct.]  
*Typha minima* Hoppe  
*Typha shuttleworthii* Koch et Sonder  
*Urtica kioviensis* Rogow.  
*Veronica pumila* All.  
*Viorna* vide *Coriflora*  
*Woodsia alpina* (Bolton) S. F. Gray  
*Xeranthemum annuum* L. (ind.)

## A2. Missing (probably extinct) taxa

*Ajuga* vide *Chamaepitys*  
*Alchemilla filicaulis* Buser subsp. *vestita* (Buser) Bradshaw  
*Bassia* vide *Kochia*  
*Camelina pilosa* (DC.) Zinger [*C. sativa* subsp. *pilosa* auct., *C. sativa* subsp. *zingeri* (Mirek) Smejkal]  
*Camelina sativa* (L.) Crantz  
*Caucalis platycarpus* L. subsp. *muricata* (Čelak.) Holub  
*Chamaepitys chia* (Schreber) Holub subsp. *glabra* (C. Presl) Dostál [*Ajuga pseudochia* Desj.-Šost.,  
*A. chamaepitys* (L.) Schreber subsp. *ciliata* (Briq.) Smejkal]  
*Chenopodium botryodes* Sm. [*Ch. crassifolium* Hornem., *Ch. chenopodioides* auct.]  
*Colobium taraxacoides* (Vill.) Holub [*C. saxatile* (Lam.) Holub, *Leontodon nudicaulis* auct., *L. taraxacoides*  
(Vill.) Mérat, *Thrinicia hirta* Roth, *T. saxatilis* (Lam.) Holub et Moravec]  
*Crypsis* vide *Heleochloa*  
*Elatine hydropiper* L. emend. Oeder subsp. *orthosperma* (Meinsh.) Hermann  
*Eleocharis uniglumis* (Link) Schultes subsp. *sternerii* Strandh.  
*Epilobium lanceolatum* Sebastini et Mauri (ind.)  
*Equisetum* vide *Hippochaete*  
*Erigeron angulosus* Gaud.  
*Euclidium syriacum* (L.) R. Br.  
*Galium parisiense* L.  
*Gentianella amarella* (L.) Börner subsp. *lingulata* (C. Agardh) Holub  
*Geum aleppicum* Jacq. (ind.)  
*Heleocharis* vide *Eleocharis*  
*Heleochloa alopecuroides* (Piller et Mitterp.) Roemer (ind.)  
*Hieracium grabowskianum* Naegeli et Peter  
*Hieracium* vide etiam *Pilosella*  
*Hippochaete × meridionalis* (Milde) Holub [*Equisetum × meridionale* (Milde) Chiov.]  
*Inula salicina* L. subsp. *aspera* (Lam.) Hayek  
*Kochia laniflora* (S. G. Gmelin) Borbás (ind.) [*Bassia laniflora* (S. G. Gmelin) A. J. Scott]  
*Lactuca saligna* L.  
*Leontodon* vide *Colobium*  
*Lolium remotum* Schrank  
*Lolium temulentum* L.  
*Lycopodioides helveticum* (L.) O. Kuntze [*Selaginella helvetica* (L.) Spring.]  
*Pilosella anchusoides* (Arvet-Touvet) Soják [*Hieracium anchusoides* Arvet-Touvet]  
*Pilosella pseudocalodon* (Peter) Soják [*Hieracium pseudocalodon* Peter]  
*Pilosella stenosoma* (Naegeli et Peter) Soják [*Hieracium brachiatum* Bertol. ex DC. subsp. *stenosoma* Naegeli et  
Peter, *H. suprafloccosum* (Naegeli et Peter) Zahn]  
*Pilosella tephrophyton* (Oborny et Zahn) Soják [*Hieracium tephrophyton* Oborny et Zahn]  
*Pleconax conica* (L.) Šourková [*Silene conica* L.]  
*Polycnemum heuffelii* Láng

*Potamogeton friesii* Rupr.  
*Rubus barberi* H. E. Weber  
*Rubus curvaciculatus* Walsemann ex H. E. Weber [*R. dethardingii* auct.]  
*Rubus hercynicus* G. Braun  
*Sagina apetala* Ard.  
*Sagina micropetala* Rauschert  
*Salix starkeana* Willd.  
*Scandix pecten-veneris* L.  
*Sceptridium multifidum* (S. G. Gmelin) Tagawa [*Botrychium multifidum* (S. G. Gmelin) Rupr.]  
*Scorzonera* vide *Podospermum*  
*Selaginella* vide *Lycopodioides*  
*Senecio rupestris* Waldst. et Kit.  
*Silene* vide *Pleconax*  
*Spergula maxima* Weihe s. s.  
*Taraxacum inundatum* Kirschner et Štěpánek  
*Taraxacum limosum* Soest (tax.)  
*Taraxacum olivaceum* Soest  
*Taraxacum portentosum* Kirschner et Štěpánek  
*Taraxacum trilobifolium* Hudziok [*T. hemiparabolicum* Hudziok]  
*Thrinia* vide *Colobium*  
*Turgenia latifolia* (L.) Hoffm. (ind.)  
*Vaccaria hispanica* (Miller) Rauschert s. l. (ind.)  
*Veronica scardica* Griseb.

### A 3. Uncertain cases of extinct or missing taxa

*Althaea* vide *Dinacrusa*  
*Alyssum turkestanicum* Regel et Schmalh. [*Alyssum desertorum* Stapf]  
*Anthemis montana* L.  
*Artemisia alba* Turra  
*Artemisia austriaca* Jacq. (ind.)  
*Aster* vide *Galatella*  
*Astragalus sulcatus* L.  
*Betula tortuosa* Ledeb.  
*Campanula rapunculus* L.  
*Capsella heegeri* Solms (tax.)  
*Carex brevicollis* DC.  
*Carex* vide etiam *Vigneia*  
*Cerastium litigiosum* Loisel.  
*Cerastium sylvaticum* Waldst. et Kit.  
*Ceratocephala falcata* (L.) Cramer  
*Ceratoides* vide *Krascheninnikovia*  
*Chamaecytisus falcatus* (Waldst. et Kit.) Holub [*Ch. hirsutus* subsp. *ciliatus* (Wahlenb.) Klášková, *Ch. triflorus* subsp. *ciliatus* (Wahlenb.) Holub, *Cytisus ciliatus* Wahlenb.]  
*Coronilla moravica* Chrtková et Stavělová (tax.)  
*Crepis succisifolia* All. subsp. *velenovskyi* Domin (tax.)  
*Cytisus* vide *Chamaecytisus*  
*Dinacrusa hirsuta* (L.) G. Krebs [*Althaea hirsuta* L.]  
*Epilobium hypericifolium* Tausch (tax.)  
*Euphrasia frigida* Pugsley  
*Euphrasia salisburgensis* Hoppe  
*Eurotia* vide *Krascheninnikovia*  
*Fritillaria meleagris* L.  
*Galatella punctata* (Waldst. et Kit.) Nees [*Aster punctatus* Waldst. et Kit.]  
*Galium aristatum* L.  
*Galium lucidum* All.

- Galium rubioides* L.  
*Genista tinctoria* L. subsp. *elatior* (W. D. J. Koch) Nyman  
*Gentiana* vide *Ciminalis*, *Gentianella*  
*Gentianella obtusifolia* (F. W. Schmidt) Holub subsp. *norica* (A. Kerner et J. Kerner) Holub  
*Gentianella uliginosa* (Willd.) Börner  
*Herniaria incana* Lam. (ind.)  
*Hieracium chamaeadenium* Oborny et Zahn (tax.)  
*Hieracium liptoviense* Borbás s. l. (tax.)  
*Hieracium riphaeoides* Bornm. et Zahn (tax.)  
*Hieracium* vide etiam *Pilosella*  
*Hierochloë hirta* (Schränk) Borbás  
*Hordeum secalinum* Schreber  
*Hylotelephium argutum* (Haw.) Holub [*H. telephium* subsp. *fabaria* (W. D. J. Koch) Ohba, *Sedum argutum* (Haw.) Sweet, *S. carpaticum* G. Reuss, *S. fabaria* subsp. *carpaticum* (G. Reuss) Dostál, *S. fabaria* W. D. J. Koch]  
*Hymenophyllum tunbridgense* (L.) Sm.  
*Hyoscyamus bohemicus* F. W. Schmidt (tax.)  
*Isatis praecox* Tratt.  
*Krascheninnikovia ceratoides* (L.) Gueldenst. [*Ceratoides latens* (J. F. Gmelin) Reveal et Holmgren, *Eurotia ceratoides* (L.) C. A. Meyer]  
*Lamium molucellifolium* Fries  
*Leontodon incanus* (L.) Schrank  
*Libanotis pyrenaica* (L.) Bourgeau subsp. *intermedia* (Rupr.) Soó  
*Linum hirsutum* L. subsp. *glabrescens* (Rochel) Soó (tax.)  
*Ludwigia palustris* (L.) Elliott  
*Mibora minima* (L.) Desv.  
*Minuartia glauca* Dvořáková [*M. verna* (L.) Wahlenb. subsp. *collina* (Neilr.) Halliday]  
*Muscari botryoides* (L.) Mill.  
*Muscari neglectum* Ten. [*M. racemosum* auct.]  
*Myosotis alpestris* F. W. Schmidt  
*Ononis foetens* All. [*O. spinosa* subsp. *austriaca* (Beck) Gams, *O. spinosa* subsp. *foetens* (All.) Širj.]  
*Ophioglossum azoricum* C. Presl  
*Ophrys sphegodes* Miller  
*Osmunda regalis* L.  
*Orites borysthenea* (Gruner) Klokov subsp. *parviflora* (Hornem.) Holub [*Silene borysthenea* (Gruner) Walters subsp. *parviflora* (Hornem.) Šourková]  
*Petrorhagia saxifraga* (L.) Link (ind.)  
*Peucedanum officinale* L.  
*Pilosella calomastix* (Peter) Soják [*Hieracium calomastix* Peter]  
*Podospermum laciniatum* (L.) DC. [*Scorzonera laciniata* L.]  
*Polycnemum verrucosum* Láng (tax.)  
*Polygonatum latifolium* Desf.  
*Pseudolysimachion spurium* (L.) Rauschert subsp. *spurium* [*Veronica spuria* L. subsp. *spuria*]  
*Quercus frainetto* Ten. (ind.?)  
*Rhinanthus borbásii* (Dörfler) Soó  
*Rhinanthus glacialis* Personat  
*Rubus hypomalacus* Focke  
*Saxifraga hirculus* L.  
*Saxifraga moschata* Wulfen (ind.?)  
*Sedum* vide *Hylotelephium*  
*Schoenoplectus americanus* (Pers.) Volkart  
*Seseli austriacum* (Beck) Wöhlf.  
*Silene* vide *Orites*  
*Spiranthes aestivalis* (Poir.) L. C. Richard  
*Thalictrum baubini* Crantz  
*Thlaspi alliaceum* L. (ind.?)  
*Tragus racemosus* (L.) All. (ind.)

*Trifolium diffusum* Ehrh.  
*Trifolium pannonicum* Jacq.  
*Tunica* vide *Petrorrhagia*  
*Valeriana montana* L.  
*Vigna brunescens* (Pers.) Soják [*Carex brunescens* (Pers.) Poir.]  
*Vigna praecox* (Schreber) Soják subsp. *velenovskyi* (Domin) Dostál (tax.) [*Carex praecox* subsp. *velenovskyi* (Domin) Jilek]  
*Viola epipsila* Ledeb.  
*Viola uliginosa* Besser  
*Xanthium ripicola* Holub

## C1. Critically threatened taxa

*Achillea asplenifolia* Vent.  
*Achroanthus* vide *Malaxis*  
*Aconitum altissimum* Miller subsp. *penninum* (Ser.) Holub [*A. vulparia* subsp. *penninum* (Ser.) Gáyer]  
*Adenophora liliifolia* (L.) Ledeb. ex DC.  
*Adonis flammea* Jacq.  
*Agropyron pectinatum* (M. Bieb.) Beauv. (ind.)  
*Agrostemma githago* L.  
*Agrostis alpina* Scop.  
*Aira caryophyllea* L.  
*Ajuga pyramidalis* L.  
*Alchemilla baltica* Sam. ex Juz.  
*Alchemilla fissa* Günther et Schummel  
*Alectorolophus* vide *Rhinanthus*  
*Alisma* vide *Luronium*  
*Amygdalus nana* L.  
*Anacamptis pyramidalis* (L.) L. C. Richard  
*Anemonastrum narcissiflorum* (L.) Holub [*Anemone narcissiflora* L.]  
*Anemone* vide *Anemonastrum*  
*Angelica* vide *Ostericum*  
*Androsace septentrionalis* L.  
*Aphanes australis* Rydb. [*Alchemilla microcarpa* Boiss. et Reuter]  
*Aposeris foetida* (L.) Less.  
*Arabis nemorensis* (Hoffm.) Koch  
*Arabis sudetica* Tausch  
*Arenaria grandiflora* L. [*Cernohorskya grandiflora* (L.) Á. Löve et D. Löve]  
*Arnoseris minima* (L.) Schweigger et Koerte  
*Artemisia pancicii* (Janka) Ronniger  
*Artemisia scoparia* Waldst. et Kit.  
*Asplenium adiantum-nigrum* L.  
*Asplenium adulterinum* Milde  
*Asplenium trichomanes* L. subsp. *pachyrhachis* (Christ) Lovis et Reichst. in Greuter  
*Asplenium* vide etiam *Ceterach*, *Phyllitis*  
*Aster alpinus* L.  
*Aster* vide etiam *Tripolium*  
*Astragalus arenarius* L.  
*Atriplex rosea* L.  
*Batrachium baudotii* (Godron) F. W. Schulz  
*Batrachium penicillatum* Dumort.  
*Beckmannia eruciformis* (L.) Host (ind.?)  
*Betula oycoviensis* Besser  
*Betula* × *seideliana* Missbach  
*Botrychium matricariifolium* A. Br. ex Koch  
*Brassica elongata* Ehrh. (ind.?)

*Bromus arvensis* L.  
*Bromus racemosus* L.  
*Bromus secalinus* L.  
*Bromus squarrosus* L.  
*Bulliardia* vide *Tillaea*  
*Bupthalmum salicifolium* L.  
*Bupleurum affine* Sadler  
*Bupleurum longifolium* L. subsp. *vapincense* (Vill.) Todor  
*Bupleurum rotundifolium* L.  
*Bupleurum tenuissimum* L.  
*Calamagrostis phragmitoides* Hartman [*C. purpurea* (Trin.) Trin. subsp. *phragmitoides* (Hartman) Tzvelev]  
*Calamagrostis pseudophragmites* (Haller fil.) Koeler  
*Calamagrostis stricta* (Timm) Koeler  
*Calamagrostis varia* (Schrader) Host  
*Calathiana verna* (L.) Holub [*Gentiana verna* L.]  
*Callitriche hermaphroditica* L.  
*Callitriche platycarpa* Kütz. in Reichenb. (tax.)  
*Campanula cervicaria* L.  
*Campanula gelida* Kovanda [*C. bohemia* Hruby subsp. *gelida* (Kovanda) Kovanda]  
*Cardamine opizii* J. Presl et C. Presl  
*Cardamine parviflora* L.  
*Cardamine resedifolia* L.  
*Cardaminopsis petraea* (L.) Hiitonen in Hylander  
*Carex alba* L.  
*Carex atrata* L. s. s.  
*Carex buxbaumii* Wahlenb. s. s.  
*Carex capillaris* L.  
*Carex hordeistichos* Vill.  
*Carex macroura* Meinsh. (tax.) [*C. pediformis* subsp. *macroura* (Meinsh.) Podpěra]  
*Carex rupestris* All.  
*Carex vaginata* Tausch  
*Carex viridula* Michx. subsp. *pseudoscandinavica* Holub ined.  
*Carex* vide etiam *Vignea*  
*Carlina biebersteinii* Bernh. ex Hornem.  
*Carlina caulescens* Lam.  
*Catabrosa aquatica* (L.) Beauv.  
*Caulinia minor* (All.) Cosson et Germ. [*Najas minor* All.]  
*Centaurea* vide *Cyanus*, *Jacea*  
*Centaurium littorale* (D. Turner) Gilmour subsp. *compressum* (Hayne in Kunth) Kirschner [*C. l.* (D. Turner) Gilmour subsp. *uliginosum* (Waldst. et Kit.) Rothm. ex Melderis, *C. uliginosum* (Waldst. et Kit.) Laus]  
*Cerastium alsinifolium* Tausch  
*Cerastium fontanum* Baumg.  
*Cerastium tenoreanum* Ser.  
*Ceratophyllum submersum* L.  
*Cernohorskya* vide *Arenaria*  
*Ceterach officinarum* DC. in Lam. et DC.  
*Chamaecytisus albus* (Hacq.) Rothm.  
*Chamaespartium* vide *Genistella*  
*Chenopodium murale* L.  
*Chimaphila umbellata* (L.) Barton  
*Chrysanthemum* vide *Leucanthemum*  
*Chrysaspis badia* (Schreber) Greene (ind.?) [*Trifolium badium* Schreber]  
*Chrysaspis patens* (Schreber) Holub (ind.) [*Trifolium patens* Schreber]  
*Cimicifuga europaea* Šipč.  
*Cirsium brachycephalum* Juratzka  
*Cladium mariscus* (L.) Pohl  
*Cleistogenes* vide *Kengia*

- Conioselinum tataricum* Hoffm.  
*Conringia orientalis* (L.) Dumort.  
*Corrigiola litoralis* L.  
*Cortusa matthioli* L. subsp. *moravica* Soják (tax.)  
*Crassula* vide *Tillaea*  
*Crataegus lindmanii* Hrab.-Uhr.  
*Crepis mollis* (Jacq.) Ascherson s. s.  
*Crepis pannonica* (Jacq.) K. Koch  
*Crepis setosa* Haller fil.  
*Crepis sibirica* L.  
*Crocus albiflorus* Kit. (ind.)  
*Crocus heuffelianus* Herbert (tax.)  
*Crypsis aculeata* (L.) Aiton  
*Crypsis* vide etiam *Heleochloa*  
*Cryptogramma crispa* (L.) R. Br. ex Hooker  
*Cuscuta approximata* Bab.  
*Cuscuta* vide etiam *Monogynella*  
*Cyanus mollis* (Waldst. et Kit.) J. Presl et C. Presl [*Centaurea mollis* Waldst. et Kit.]  
*Cyperus* vide *Dichostylis*, *Pycneus*  
*Cystopteris dickiana* R. Sim (tax.)  
*Cytisus* vide *Chamaecytisus*  
*Dactylorhiza bohemica* Businský  
*Dactylorhiza comosa* (Scop.) P. D. Sell in P. Sell et G. Murrell subsp. *turfosa* (Procházka) Holub [*D. majalis* subsp. *turfosa* Procházka]  
*Dactylorhiza fuchsii* (Druce) Soó subsp. *sooana* (Borsos) Borsos (tax.)  
*Dactylorhiza incarnata* (L.) Soó subsp. *serotina* (Hausskn.) Soó et Moresby Moore (tax.)  
*Dactylorhiza maculata* (L.) Soó subsp. *ericetorum* (E. F. Linton) Averyanov (tax.)  
*Dactylorhiza maculata* (L.) Soó subsp. *maculata*  
*Dactylorhiza maculata* (L.) Soó subsp. *transsilvanica* (Schur) Soó  
*Dactylorhiza traunsteineri* (Sauter) Soó subsp. *traunsteineri*  
*Dactylorhiza traunsteineri* (Sauter) Soó subsp. *carpatica* Batoušek et Kreutz (tax.)  
*Danthonia alpina* Vest  
*Daphne cneorum* L.  
*Dianthus arenarius* L. subsp. *bohemicus* (Novák) O. Schwarz  
*Dianthus carthusianorum* L. subsp. *capillifrons* (Borbás) Neumayer  
*Dianthus carthusianorum* L. subsp. *sudeticus* Kovanda  
*Dianthus superbus* L. subsp. *superbus*  
*Dichostylis micheliana* (L.) Nees [*Cyperus michelianus* (L.) Link]  
*Diphasiastrum oellgaardii* Stoor, Boudrie, Jérôme, Horn et Bennert  
*Diphasiastrum tristachyum* (Pursh) Holub  
*Diplachne* vide *Kengia*  
*Draba nemorosa* L.  
*Dracocephalum austriacum* L.  
*Drosera anglica* Hudson  
*Drosera intermedia* Hayne  
*Drymocallis rupestris* (L.) Soják [*Potentilla rupestris* L.]  
*Drymochloa drymeia* (Mert. et Koch) Holub [*Festuca drymeia* Mert. et Koch in Röhlings]  
*Dryopteris cristata* (L.) A. Gray  
*Echium russicum* J. F. Gmelin  
*Elatine alsinastrum* L.  
*Eleocharis quinqueflora* (F. X. Hartmann) O. Schwarz  
*Epipactis distans* C. Arvet-Touvet  
*Epipactis greuteri* H. Baumann et Künkele  
*Epipactis leptochila* (Godfery) Godfery subsp. *neglecta* Kümpel  
*Epipactis nordeniorum* Robatsch  
*Epipactis microphylla* (Ehrh.) Swartz  
*Epipactis pontica* Taubenheim

*Epipactis pseudopurpurata* Mered'a  
*Epipactis tallosii* A. Molnár et K. Robatsch (tax.)  
*Epipogium aphyllum* Swartz  
*Equisetum* vide *Hippochaete*  
*Eragrostis pilosa* (L.) Beauv. (ind.)  
*Erica tetralix* L. (ind.)  
*Eriophorum gracile* Koch ex Roth  
*Eryngium planum* L.  
*Erysimum repandum* L.  
*Erythronium dens-canis* L. (ind.)  
*Euphorbia* vide *Tithymalus*  
*Euphrasia micrantha* Reichenb.  
*Euphrasia picta* Wimmer  
*Euphrasia slovacica* (Yeo) Holub  
*Festuca amethystina* L.  
*Festuca psammophila* (Hackel ex Čelak.) Fritsch  
*Festuca trichophylla* (Ducros ex Gaudin) K. Richter  
*Festuca vaginata* Waldst. et Kit. ex Willd. subsp. *dominii* (Krajina) Soó  
*Festuca versicolor* Tausch  
*Festuca* vide etiam *Drymochloa*  
*Filago lutescens* Jordan  
*Filago vulgaris* Lam.  
*Filipendula stepposa* Juz.  
*Gagea bohémica* (Zauschner) Schultes et Schultes fil. subsp. *saxatilis* (Mert. et Koch) Pascher  
*Galium austriacum* Jacq.  
*Galium sudeticum* Tausch  
*Galium tricornerutum* Dandy  
*Genista* vide *Genistella*  
*Genistella sagittalis* (L.) Gams (ind?) [*Chamaespartium sagittale* (L.) Gibbs]  
*Gentiana punctata* L.  
*Gentiana* vide etiam *Calathiana*, *Gentianella*  
*Gentianella amarella* (L.) Börner subsp. *amarella*  
*Gentianella campestris* (L.) Börner subsp. *baltica* (Murb.) Á. Löve et D. Löve [*G. baltica* (Murb.) Börner]  
*Gentianella germanica* (Willd.) Börner subsp. *germanica*  
*Gentianella lutescens* (Velen.) Holub subsp. *carpatica* (Wettst.) Holub [*Gentiana polymorpha* Wettst. subsp. *carpatica* (Wettst.) Wettst.]  
*Gentianella lutescens* (Velen.) Holub subsp. *lutescens* [*Gentiana praecox* sensu auct. non sensu A. Kerner et J. Kerner orig., *G. polymorpha* Wettst. subsp. *praecox* (A. Kerner et J. Kerner) Wettst.]  
*Gentianella obtusifolia* (F. W. Schmidt) Holub subsp. *sturmiana* (A. Kerner et J. Kerner) Holub  
*Gentianella praecox* (A. Kerner et J. Kerner in J. Kerner) E. Mayer subsp. *bohémica* (Skalický) Holub  
[*G. bohémica* Skalický]  
*Geranium divaricatum* Ehrh.  
*Gladiolus palustris* Gaudin  
*Glaucium corniculatum* (L.) Rudolph (ind.)  
*Glaux maritima* L.  
*Gnaphalium luteo-album* L.  
*Gnaphalium* vide etiam *Omalotheca*  
*Goodyera repens* (L.) R. Br.  
*Groenlandia densa* (L.) Fourr.  
*Gymnadenia densiflora* (Wahlenb.) A. Dietr.  
*Gymnadenia conopsea* (L.) R. Br. subsp. "*montana*" (tax.)  
*Gypsophila paniculata* L.  
*Hackelia deflexa* (Wahlenb.) Opiz [*Lappula deflexa* (Wahlenb.) Garcke]  
*Hammarbya paludosa* (L.) Kuntze  
*Hedysarum hedysaroides* (L.) Schinz et Thellung  
*Heleocharis* vide *Eleocharis*  
*Heleochoa schoenoides* (L.) Host ex Roemer

- Conioselinum tataricum* Hoffm.  
*Conringia orientalis* (L.) Dumort.  
*Corrigiola litoralis* L.  
*Cortusa matthioli* L. subsp. *moravica* Soják (tax.)  
*Crassula* vide *Tillaea*  
*Crataegus lindmanii* Hrab.-Uhr.  
*Crepis mollis* (Jacq.) Ascherson s. s.  
*Crepis pannonica* (Jacq.) K. Koch  
*Crepis setosa* Haller fil.  
*Crepis sibirica* L.  
*Crocus albiflorus* Kit. (ind.)  
*Crocus heuffelianus* Herbert (tax.)  
*Crypsis aculeata* (L.) Aiton  
*Crypsis* vide etiam *Heleochoila*  
*Cryptogramma crispa* (L.) R. Br. ex Hooker  
*Cuscuta approximata* Bab.  
*Cuscuta* vide etiam *Monogynella*  
*Cyanus mollis* (Waldst. et Kit.) J. Presl et C. Presl [*Centaurea mollis* Waldst. et Kit.]  
*Cyperus* vide *Dichostylis*, *Pycneus*  
*Cystopteris dickieana* R. Sim (tax.)  
*Cytisus* vide *Chamaecytisus*  
*Dactylorhiza bohemica* Businský  
*Dactylorhiza comosa* (Scop.) P. D. Sell in P. Sell et G. Murrell subsp. *turfosa* (Procházka) Holub [*D. majalis* subsp. *turfosa* Procházka]  
*Dactylorhiza fuchsii* (Druce) Soó subsp. *sooana* (Borsos) Borsos (tax.)  
*Dactylorhiza incarnata* (L.) Soó subsp. *serotina* (Hauskn.) Soó et Moresby Moore (tax.)  
*Dactylorhiza maculata* (L.) Soó subsp. *ericetorum* (E. F. Linton) Averyanov (tax.)  
*Dactylorhiza maculata* (L.) Soó subsp. *maculata*  
*Dactylorhiza maculata* (L.) Soó subsp. *transsilvanica* (Schur) Soó  
*Dactylorhiza traunsteineri* (Sauter) Soó subsp. *traunsteineri*  
*Dactylorhiza traunsteineri* (Sauter) Soó subsp. *carpatica* Batoušek et Kreutz (tax.)  
*Danthonia alpina* Vest  
*Daphne cneorum* L.  
*Dianthus arenarius* L. subsp. *bohemicus* (Novák) O. Schwarz  
*Dianthus carthusianorum* L. subsp. *capillifrons* (Borbás) Neumayer  
*Dianthus carthusianorum* L. subsp. *sudeticus* Kovanda  
*Dianthus superbus* L. subsp. *superbus*  
*Dichostylis micheliana* (L.) Nees [*Cyperus michelianus* (L.) Link]  
*Diphasiastrum oellgaardii* Stoor, Boudrie, Jérôme, Horn et Bennet  
*Diphasiastrum tristachyum* (Pursh) Holub  
*Diplachne* vide *Kengia*  
*Draba nemorosa* L.  
*Dracocephalum austriacum* L.  
*Drosera anglica* Hudson  
*Drosera intermedia* Hayne  
*Drymocallis rupestris* (L.) Soják [*Potentilla rupestris* L.]  
*Drymochloa drymeia* (Mert. et Koch) Holub [*Festuca drymeia* Mert. et Koch in Röhlings]  
*Dryopteris cristata* (L.) A. Gray  
*Echium russicum* J. F. Gmelin  
*Elatine alsinastrum* L.  
*Eleocharis quinqueflora* (F. X. Hartmann) O. Schwarz  
*Epipactis distans* C. Arvet-Touvet  
*Epipactis greuteri* H. Baumann et Künkele  
*Epipactis leptochila* (Godfery) Godfery subsp. *neglecta* Kümpel  
*Epipactis nordeniorum* Robatsch  
*Epipactis microphylla* (Ehrh.) Swartz  
*Epipactis pontica* Taubenheim

- Epipactis pseudopurpurata* Mered'a  
*Epipactis tallosii* A. Molnár et K. Robatsch (tax.)  
*Epipogium aphyllum* Swartz  
*Equisetum* vide *Hippochaete*  
*Eragrostis pilosa* (L.) Beauv. (ind.)  
*Erica tetralix* L. (ind.)  
*Eriophorum gracile* Koch ex Roth  
*Eryngium planum* L.  
*Erysimum repandum* L.  
*Erythronium dens-canis* L. (ind.)  
*Euphorbia* vide *Tithymalus*  
*Euphrasia micrantha* Reichenb.  
*Euphrasia picta* Wimmer  
*Euphrasia slovacica* (Yeo) Holub  
*Festuca amethystina* L.  
*Festuca psammophila* (Hackel ex Čelak.) Fritsch  
*Festuca trichophylla* (Ducros ex Gaudin) K. Richter  
*Festuca vaginata* Waldst. et Kit. ex Willd. subsp. *dominii* (Krajina) Soó  
*Festuca versicolor* Tausch  
*Festuca* vide etiam *Drymochloa*  
*Filago lutescens* Jordan  
*Filago vulgaris* Lam.  
*Filipendula stepposa* Juz.  
*Gagea bohémica* (Zauschner) Schultes et Schultes fil. subsp. *saxatilis* (Mert. et Koch) Pascher  
*Galium austriacum* Jacq.  
*Galium sudeticum* Tausch  
*Galium tricornerutum* Dandy  
*Genista* vide *Genistella*  
*Genistella sagittalis* (L.) Gams (ind?) [*Chamaespartium sagittale* (L.) Gibbs]  
*Gentiana punctata* L.  
*Gentiana* vide etiam *Calathiana*, *Gentianella*  
*Gentianella amarella* (L.) Börner subsp. *amarella*  
*Gentianella campestris* (L.) Börner subsp. *baltica* (Murb.) Á. Löve et D. Löve [*G. baltica* (Murb.) Börner]  
*Gentianella germanica* (Willd.) Börner subsp. *germanica*  
*Gentianella lutescens* (Velen.) Holub subsp. *carpatica* (Wettst.) Holub [*Gentiana polymorpha* Wettst. subsp. *carpatica* (Wettst.) Wettst.]  
*Gentianella lutescens* (Velen.) Holub subsp. *lutescens* [*Gentiana praecox* sensu auct. non sensu A. Kerner et J. Kerner orig., *G. polymorpha* Wettst. subsp. *praecox* (A. Kerner et J. Kerner) Wettst.]  
*Gentianella obtusifolia* (F. W. Schmidt) Holub subsp. *sturmiiana* (A. Kerner et J. Kerner) Holub  
*Gentianella praecox* (A. Kerner et J. Kerner in J. Kerner) E. Mayer subsp. *bohémica* (Skalický) Holub  
    [*G. bohémica* Skalický]  
*Geranium divaricatum* Ehrh.  
*Gladiolus palustris* Gaudin  
*Glaucium corniculatum* (L.) Rudolph (ind.)  
*Glaux maritima* L.  
*Gnaphalium luteo-album* L.  
*Gnaphalium* vide etiam *Omalotheca*  
*Goodyera repens* (L.) R. Br.  
*Groenlandia densa* (L.) Fourr.  
*Gymnadenia densiflora* (Wahlenb.) A. Dietr.  
*Gymnadenia conopsea* (L.) R. Br. subsp. "*montana*" (tax.)  
*Gypsophila paniculata* L.  
*Hackelia deflexa* (Wahlenb.) Opiz [*Lappula deflexa* (Wahlenb.) Garcke]  
*Hammarbya paludosa* (L.) Kuntze  
*Hedysarum hedysaroides* (L.) Schinz et Thellung  
*Heleocharis* vide *Eleocharis*  
*Heleochoa schoenoides* (L.) Host ex Roemer

*Helianthemum grandiflorum* (Scop.) DC. s. s.  
*Herniaria hirsuta* L.  
*Hesiodia* vide *Sideritis*  
*Hibiscus trionum* L.  
*Hieracium albinum* Fries  
*Hieracium asperulum* Freyn  
*Hieracium chlorocephalum* Wimmer ex Uechtr.  
*Hieracium chrysostyloides* (Zahn) Chrtek jun.  
*Hieracium corconticum* Knaf fil. ex Čelak.  
*Hieracium engleri* Uechtr.  
*Hieracium kablikianum* Zlatník (tax.)  
*Hieracium inuloides* Tausch  
*Hieracium luteistylum* Zlatník (tax.)  
*Hieracium nigrostylum* Zlatník  
*Hieracium nivimontis* (Oborny et Zahn) Chrtek jun.  
*Hieracium pedunculare* Tausch  
*Hieracium pseudalbinum* G. Schneider  
*Hieracium rippaeum* Uechtr.  
*Hieracium schustleri* Zlatník  
*Hieracium silesiacum* Krause  
*Hieracium subortum* G. Schneider  
*Hieracium tortuosum* Tausch (tax.)  
*Hieracium villosum* Jacq.  
*Hieracium* vide etiam *Pilosella*  
*Hierochloë odorata* (L.) Beauv.  
*Hierochloë repens* (Host) Simonkai  
*Himantoglossum adriaticum* Baumann  
*Hippochaete variegata* (Schleicher) Bruhin [*Equisetum variegatum* Schleicher]  
*Hippocrepis comosa* L.  
*Hippuris vulgaris* L.  
*Hypericum elegans* Stephan ex Willd.  
*Hypericum pulchrum* L.  
*Hypochaeris glabra* L.  
*Illecebrum verticillatum* L.  
*Iris aphylla* L. subsp. *fieberi* (Seidl in Opiz) Dostál (tax.)  
*Iris aphylla* L. subsp. *novakii* Soó (tax.)  
*Isoëtes echinospora* Durieu  
*Isoëtes lacustris* L.  
*Jacea stenolepis* (A. Kerner) Soják [*Centaurea stenolepis* A. Kerner]  
*Juncus atratus* Krockner  
*Juncus capitatus* Weigel  
*Juncus gerardii* Loisel.  
*Juncus sphaerocarpus* Nees  
*Juncus subnodulosus* Schrank  
*Juncus tenageia* L. fil.  
*Juniperus sibirica* Burgsd.  
*Jurinea cyanoides* (L.) Reichenb.  
*Kengia serotina* (L.) Parker [*Cleistogenes serotina* (L.) Keng]  
*Klasea lycopifolia* (Vill.) Á. Löve et D. Löve [*Serratula lycopifolia* (Vill.) A. Kerner]  
*Knautia* vide *Trichera*  
*Kochia prostrata* (L.) Schrader  
*Lappula heteracantha* (Ledeb.) Gürke subsp. *heterocarpa* (Klokov et Artemčuk) Holub  
*Lappula* vide etiam *Hackelia*  
*Laser trilobum* (L.) Borkh.  
*Laserpitium archangelica* Wulfen (ind.)  
*Lathyrus aphaca* L.  
*Lathyrus heterophyllus* L.

- Lathyrus hirsutus* L.  
*Lathyrus nissolia* L. (ind.)  
*Lathyrus palustris* L.  
*Lathyrus pannonicus* (Jacq.) Garcke s. s.  
*Lathyrus pisiformis* L.  
*Leucanthemum adustum* (Koch) Gremli subsp. *adustum* (tax.)  
*Leucorum aestivum* L.  
*Ligularia sibirica* (L.) Cass.  
*Limodorum abortivum* (L.) Swartz  
*Linaria arvensis* (L.) Desf.  
*Lindernia procumbens* (Krocker) Philcox  
*Linum hirsutum* L. subsp. *hirsutum*  
*Liparis loeselii* (L.) L. C. Richard  
*Listera cordata* (L.) R. Br.  
*Littorella uniflora* (L.) Ascherson  
*Loncomelos pyrenaicus* (L.) Hrouda subsp. *sphaerocarpus* (Kerner) Holub [*Ornithogalum pyrenaicum* L. subsp. *sphaerocarpus* (Kerner) Hegi]  
*Luronium natans* (L.) Rafin. [*Alisma natans* L.]  
*Luzula spicata* (L.) DC. in Lam. et DC. subsp. *spicata*  
*Lycopodium* vide *Diphasiastrum*  
*Malaxis monophyllos* (L.) Swartz  
*Marrubium peregrinum* L.  
*Marrubium vulgare* L.  
*Melandrium viscosum* (L.) Čelak. [*Silene viscosa* (L.) Pers.]  
*Mentha* vide *Pulegium*  
*Mercurialis ovata* Sternberg et Hoppe  
*Minuartia caespitosa* (Willd.) Degen [*M. verna* subsp. *hercynica* (Willk.) O. Schwarz]  
*Minuartia corcontica* Dvořáková [*M. gerardii* auct. fl. corcont. non (Willd.) Hayek]  
*Minuartia smejkalii* Dvořáková [*M. verna* (L.) Hiern. subsp. *montana* (Fenzl) Hayek sensu auct. fl. bohém. p. p.]  
*Minuartia viscosa* (Schreber) Schinz et Thell.  
*Misopates orontium* (L.) Rafin.  
*Moneses uniflora* (L.) A. Gray  
*Monogynella lupuliformis* (Krocker) Hadač et Chrték [*Cuscuta lupuliformis* Krocker]  
*Montia fontana* L.  
*Myosotis stenophylla* Knaf [*M. podperae* Domin]  
*Myricaria germanica* (L.) Desv. (ind.)  
*Najas* vide *Caulinia*  
*Nasturtium microphyllum* (Boenn.) Reichenb. (ind.?)  
*Nigella arvensis* L.  
*Notholaena marantae* (L.) Desv.  
*Nuphar pumila* (Timm) DC.  
*Nymphaea alba* L.  
*Nymphaea candida* J. Presl in Bercht. et J. Presl  
*Nymphoides peltata* (S. F. Gmelin) O. Kuntze  
*Omalotheca supina* (L.) DC. [*Gnaphalium supinum* L.]  
*Onosma arenaria* Waldst. et Kit.  
*Ophrys apifera* Hudson  
*Ophrys fuciflora* (F. W. Schmidt) Moench subsp. *holubyana* (Andrasovszky) Jáv. [*O. holosericea* (Burm. f.) Greuter subsp. *holubyana* (Andrasovszky) Dostál]  
*Ophrys insectifera* L.  
*Orchis mascula* (L.) L. subsp. *mascula*  
*Orchis palustris* Jacq.  
*Orchis tridentata* Scop.  
*Orchis ustulata* L. subsp. *aestivalis* (Kümpel) Kümpel et Mrkvicka  
*Orchis ustulata* L. subsp. *ustulata*  
*Oreosedum villosum* (L.) Grulich [*Sedum villosum* L.]  
*Ornithogalum* vide *Loncomelos*

- Orobanche artemisiae-campestris* Vaucher ex Gaudin [*O. loricata* Reichenb.]  
*Orobanche coerulescens* Stephan ex Willd.  
*Orobanche picridis* F. W. Schultz  
*Orobanche teucarii* Holandre  
*Orobanche* vide etiam *Phelipanche*  
*Ostericum palustre* (Besser) Besser [*Angelica palustris* (Besser) Hoffm.]  
*Padus avium* Miller subsp. *petraea* (Tausch) Pawł. ex Holub [*Prunus padus* L. subsp. *petraea* (Tausch) Domin]  
*Papaver lecoqii* Lamotte  
*Pedicularis exaltata* Besser  
*Pedicularis sudetica* Willd. subsp. *sudetica*  
*Peucedanum carvifolia* Vill.  
*Phelipanche arenaria* (Borkh.) Pomel [*Orobanche arenaria* Borkh.]  
*Phelipanche bohemica* (Čelak.) Holub et Zázvorka [*Orobanche bohemica* Čelak.]  
*Phelipanche caesia* (Reichenb.) Soják [*Orobanche caesia* Reichenb.]  
*Phelipanche purpurea* (Jacq.) Soják [*Orobanche purpurea* Jacq.]  
*Phyllitis scolopendrium* (L.) Newman  
*Phyteuma orbiculare* L. subsp. *montanum* R. Schulz  
*Pilosella blyttiana* (Fries) F. W. Schultz et C. H. Schultz [*Hieracium blyttianum* Fries]  
*Pilosella kalksburgensis* (Wiesb.) Soják [*Hieracium kalksburgense* Wiesb., *H. canum* Naegeli et Peter]  
*Pilosella rubra* (Peter) Soják [*Hieracium rubrum* Peter]  
*Pilosella rubripilosella* (G. Schneider) Soják [*Hieracium rubripilosella* G. Schneider]  
*Pinguicula vulgaris* L. subsp. *bohemica* (Krajina) Domin [*P. bohemica* Krajina]  
*Pinus ×celakovskiorum* Ascherson et Graebner  
*Plantago atrata* Hoppe subsp. *sudetica* (Pilger) Holub  
*Plantago maritima* L. subsp. *salsa* Soják (tax.)  
*Poa alpina* L.  
*Poa crassipes* Domin ex Šourek (tax.)  
*Poa riphaea* (Ascherson et Graebner) Fritsch  
*Polycnemum arvense* L.  
*Polycnemum majus* A. Br.  
*Polygala amara* L. subsp. *brachyptera* (Chodat) Hayek  
*Polygala serpyllifolia* Hose  
*Potamogeton polygonifolius* Pourret  
*Potamogeton praelongus* Wulfen  
*Potamogeton ×angustifolius* J. Presl  
*Potamogeton* vide etiam *Groenlandia*  
*Potentilla crantzii* (Crantz) Beck ex Fritsch subsp. *serpentini* (Borbás) Neumayer (tax.)  
*Potentilla patula* Waldst. et Kit.  
*Potentilla sterilis* (L.) Garcke  
*Potentilla* vide etiam *Drymocallis*  
*Primula elatior* (L.) Hill subsp. *corcontica* (Domin) Kovanda (tax.)  
*Primula minima* L.  
*Prunus* vide *Amygdalus*, *Padus*  
*Pseudolysimachion spurium* (L.) Rauschert subsp. *foliosum* (Waldst. et Kit.) Holub [*Veronica paniculata* L. subsp. *foliosa* (Waldst. et Kit.) Skalický]  
*Puccinellia limosa* (Schur) Holmberg  
*Pulegium vulgare* Miller [*Mentha pulegium* L.]  
*Pulicaria dysenterica* (L.) Bernh.  
*Pulicaria vulgaris* Gaertner  
*Pulsatilla patens* (L.) Miller  
*Pulsatilla vernalis* (L.) Miller  
*Pycreus flavescens* (L.) Beauv. ex Reichenb. [*Cyperus flavescens* L.]  
*Pyrola chlorantha* (Custer) Swartz  
*Pyrola media* Swartz  
*Quercus virgiliana* (Ten.) Ten. (tax.)  
*Radiola linoides* Roth  
*Ranunculus sardous* Crantz s. l.

*Ranunculus* vide etiam *Batrachium*  
*Reseda phyteuma* L.  
*Rhinanthus serotinus* (Schönh.) Oborny subsp. *vernalis* (Zinger) Hylander  
*Rhodiola rosea* L.  
*Rhynchospora fusca* (L.) Aiton fil.  
*Ribes petraeum* Wulfen  
*Rubus ambrosius* Trávníček ined.  
*Rubus amphimalacus* H. E. Weber  
*Rubus caflischii* Focke  
*Rubus chaerophylloides* Spribille  
*Rubus chamaemorus* L.  
*Rubus geminatus* H. E. Weber  
*Rubus lividus* G. Braun  
*Rubus lusaticus* Rostock  
*Rubus pyramidalis* Kaltenb.  
*Rubus scaber* Weihe  
*Rubus vestitus* Weihe  
*Rumex palustris* Sm. (ind.)  
*Rumex stenophyllus* Ledeb. (ind.)  
*Sagina nodosa* (L.) Fenzl  
*Sagina subulata* (Swartz) C. Presl  
*Salix appendiculata* Vill.  
*Salix bicolor* Willd.  
*Salix daphneola* Tausch (tax.)  
*Salix herbacea* L.  
*Salix myrsinifolia* Salisb.  
*Salix myrtilloides* L.  
*Salix repens* L. s. s.  
*Salvia aethiopis* L.  
*Salvia austriaca* Jacq. (ind.)  
*Samolus valerandi* L.  
*Saxifraga oppositifolia* L.  
*Saxifraga rosacea* Moench subsp. *steinmannii* (Tausch) Holub [*S. decipiens* Ehrh. subsp. *steinmannii* (Tausch) Br.-Bl. in Hegi]  
*Scabiosa lucida* Vill. subsp. *calvicola* Blonski (tax.)  
*Scheuchzeria palustris* L.  
*Schoenus ferrugineus* L.  
*Schoenus nigricans* L.  
*Scorzonera parviflora* Jacq.  
*Scrophularia vernalis* L.  
*Sedum* vide *Oreosedum*, *Rhodiola*  
*Senecio doria* L.  
*Senecio erucifolius* L.  
*Senecio paludosus* L.  
*Senecio* vide etiam *Tephrosieris*  
*Serratula* vide *Klasea*  
*Sideritis montana* L.  
*Silene gallica* L.  
*Silene rupestris* L. (ind.?)  
*Sorbus alnifrons* Kovanda  
*Sorbus gemella* Kovanda  
*Sorbus graeca* (Spach) Schauer  
*Sorbus hardeggensis* Kovanda  
*Sorbus querneae* Kovanda  
*Sorbus rhodanthera* Kovanda  
*Sorbus sudetica* (Tausch) Fritsch  
*Spergula pentandra* L.

*Trifolium retusum* L.  
*Trifolium striatum* L.  
*Trifolium* vide etiam *Chrysaspis*  
*Triglochin maritimum* L.  
*Trigonella monspeliaca* L.  
*Trinia glauca* (L.) Dumort.  
*Utricularia pannonicum* (Jacq.) Dobroř. [*Aster pannonicus* Jacq.]  
*Typha laxmannii* L.  
*Utricularia bremii* Heer in Koeliker (tax.)  
*Utricularia intermedia* Hayne  
*Utricularia ochroleuca* R. Hartman  
*Utricularia vulgaris* L.  
*Valerianella carinata* Loisel.  
*Vandenboschia speciosa* (Willd.) Kunkel [*Trichomanes speciosum* Willd.]  
*Veratrum nigrum* L.  
*Verbascum speciosum* Schrader  
*Veronica bellidioides* L.  
*Veronica opaca* Fries  
*Veronica* vide etiam *Pseudolysimachion*  
*Vicia oreophila* Žertová (tax.)  
*Vignea chordorrhiza* (Ehrh. in L. fil.) Reichenb. in Mössler [*Carex chordorrhiza* Ehrh. in L. fil.]  
*Vignea dioica* (L.) Reichenb. in Mössler [*Carex dioica* L.]  
*Vignea reichenbachii* (Bonnet) Soják [*Carex reichenbachii* Bonnet, *C. pseudobrizzoides* Clav.]  
*Vignea stenophylla* (Wahlenb.) Reichenb. in Mössler [*Carex stenophylla* Wahlenb.]  
*Viola alba* Besser  
*Viola elatior* Fries  
*Viola kitaibeliana* Schultes in Roemer et Schultes  
*Viola saxatilis* F. W. Schmidt subsp. *curtisii* (Forst.) Kirschner et Skalický  
*Vitis sylvestris* C. C. Gmelin  
*Vulpia bromoides* (L.) S. F. Gray  
*Wolffia arrhiza* (L.) Horkel ex Wimmer

## C2. Strongly threatened taxa

*Achillea tanacetifolia* All. [*A. "bohemica"*] (tax.)  
*Aconitum firmum* Reichenb. subsp. *moravicum* Skalický  
*Adonanthe* vide *Chrysocyathus*  
*Adonis aestivalis* L.  
*Adonis* vide etiam *Chrysocyathus*  
*Agrostis rupestris* All.  
*Aira praecox* L.  
*Ajuga* vide *Chamaepitys*  
*Alcea biennis* Winterl  
*Alchemilla flabellata* Buser  
*Alchemilla obtusa* Buser subsp. *trapezialis* Plocek  
*Alchemilla reniformis* Buser  
*Alchemilla ursina* Fröhner  
*Alectorolophus* vide *Rhinanthus*  
*Alisma gramineum* Lej.  
*Allium angulosum* L.  
*Allium carinatum* L.  
*Allium rotundum* L.  
*Allium sphaerocephalon* L.  
*Allium strictum* Schrader  
*Allium victorialis* L.  
*Alnus* vide *Duschekia*

*Alsine pallida* Dumort. [*Stellaria palida* (Dumort.) Pire]  
*Althaea officinalis* L. (ind.)  
*Andromeda polifolia* L.  
*Androsace elongata* L.  
*Antennaria dioica* (L.) Gaertn.  
*Anthriscus caucalis* Bieb.  
*Arabis auriculata* Lam.  
*Arabis pauciflora* (Grimm) Garcke  
*Arabis turrata* L.  
*Arctostaphylos uva-ursi* (L.) Sprengel  
*Aremonia agrimonoides* (L.) DC.  
*Armeria vulgaris* Willd. subsp. *serpentini* (Gauckler) Holub  
*Asperula* vide *Galium*  
*Asplenium cuneifolium* Viv.  
*Astragalus exscapus* L.  
*Avenula planiculmis* (Schrader) W. Sauer et Chmelitschek  
*Baeothryon* vide *Trichophorum*  
*Bartsia alpina* L.  
*Batrachium rionii* (Lagger) Nyman  
*Betula nana* L.  
*Betula obscura* A. Kotula  
*Bifora radians* Bieb.  
*Blysmus compressus* (L.) Panzer ex Link  
*Botrychium lunaria* (L.) Swartz  
*Bromus commutatus* Schrader  
*Bupleurum longifolium* L. subsp. *longifolium*  
*Campanula barbata* L.  
*Campanula bohémica* Hruby  
*Campanula bononiensis* L.  
*Campanula tatrae* Borbás subsp. *sudetica* (Hruby) Kovanda  
*Cardamine dentata* Schultes  
*Carex aterrima* Hoppe  
*Carex distans* L.  
*Carex fritschii* Waisb.  
*Carex hostiana* DC.  
*Carex lasiocarpa* Ehrh.  
*Carex lepidocarpa* Tausch  
*Carex limosa* L.  
*Carex melanostachya* Bieb. ex Willd.  
*Carex ornithopoda* Willd.  
*Carex paupercula* Michaux  
*Carex pulicaris* L. [*Vignea pulicaris* (L.) Reichenb.]  
*Carex secalina* Willd. ex Wahlenb.  
*Carex viridula* Michx. subsp. *serotina* (Mérat) Malyšev [*C. serotina* Mérat, *C. oederi* auct.]  
*Carex strigosa* Hudson  
*Carex* vide etiam *Vignea*  
*Caucalis platycarpus* L. subsp. *platycarpus*  
*Centaurea* vide *Cyanus*  
*Centaurium pulchellum* (Swartz) Druce  
*Centunculus minimus* L.  
*Cephalanthera rubra* (L.) L. C. Richard  
*Cerastium* vide *Dichodon*  
*Cerasus fruticosa* (Pallas) Woronow [*Prunus fruticosa* Pallas]  
*Chaiturus marrubiastrum* (L.) Reichenb. [*Leonurus marrubiastrum* L.]  
*Chamaepitys chia* (Schreber) Holub subsp. *trifida* (Dumort.) Kmeťová [*Ajuga chamaepitys* (L.) Schreber]  
*Chenopodium urbicum* L.  
*Chenopodium vulvaria* L.

*Chenopodium* vide etiam *Teloxys*  
*Chrysanthemum* vide *Leucanthemum*  
*Chrysocyathus vernalis* (L.) Holub [*Adonis vernalis* L., *Adonanthe vernalis* (L.) Spach]  
*Cicuta virosa* L.  
*Cnidium* vide *Kadenia*  
*Coeloglossum viride* (L.) Hartman  
*Coleanthus subtilis* (Tratt.) Seidl in Roemer et Schultes  
*Corallorhiza trifida* Châtel.  
*Cornus* vide *Swida*  
*Coronilla vaginalis* Lam.  
*Coronopus squamatus* (Forssk.) Ascherson  
*Crambe tataria* Sebeók  
*Crepis praemorsa* (L.) Tausch  
*Cruciata pedemontana* (Bellardi) Ehrend.  
*Cyanus montanus* (L.) Hill (ind.) [*Centaurea montana* L.]  
*Cynoglossum hungaricum* Simonkai  
*Cypripedium calceolus* L.  
*Dactylorhiza incarnata* (L.) Soó subsp. *incarnata*  
*Dactylorhiza fuchsii* (Druce) Soó subsp. *sudetica* (Reichenb. f.) Verm.  
*Dactylorhiza sambucina* (L.) Soó  
*Dasystephana pneumonanthe* (L.) Soják [*Gentiana pneumonanthe* L., *Pneumonanthe vulgaris* F. W. Schmidt]  
*Deilosma* vide *Hesperis*  
*Delphinium elatum* L.  
*Dianthus gratianopolitanus* Vill.  
*Dianthus lumnitzeri* Wiesb. [*D. hungaricus* Pers. subsp. *lumnitzeri* (Wiesb.) Holub]  
*Dianthus moravicus* Kovanda [*D. gratianopolitanus* Vill. subsp. *moravicus* (Kovanda) Holub]  
*Dianthus seguieri* Vill. subsp. *glaber* Čelak. [*D. sylvaticus* Hoppe]  
*Dianthus superbus* L. subsp. *alpestris* Čelak.  
*Dianthus superbus* L. subsp. *sylvestris* Čelak. (tax.)  
*Dichodon viscidum* (Bieb.) Holub [*Cerastium dubium* (Bast.) Guépin]  
*Diphasiastrum issleri* (Rouy) Holub  
*Diphasiastrum zeilleri* (Rouy) Holub  
*Dipsacus laciniatus* L.  
*Draba muralis* L.  
*Duschekia alnobetula* (Ehrh.) Pouzar (ind.) [*Alnus viridis* (Chaix.) DC.]  
*Elatine hexandra* (Lappierre) DC.  
*Elatine triandra* Schkuhr  
*Eleocharis uniglumis* (Link) Schultes subsp. *uniglumis*  
*Empetrum hermaphroditum* (Lange) Hagerup  
*Epilobium anagallidifolium* Lam.  
*Epilobium nutans* F. W. Schmidt  
*Epipactis albensis* Nováková et Rydlo  
*Epipactis muelleri* Godfery  
*Epipactis palustris* (L.) Crantz  
*Equisetum* vide *Hippochaete*  
*Eriophorella* vide *Trichophorum*  
*Eriophorum latifolium* Hoppe  
*Euphrasia coerulea* Hoppe et Fürnrohr  
*Euphrasia curta* (Fries) Wettst. subsp. *glabrescens* (Wettst.) Smejkal  
*Euphrasia kernerii* Wettst. (tax.)  
*Euphrasia rostkoviana* Hayne subsp. *monticola* Silverside [*E. rostkoviana* subsp. *montana* (Jord.) Wettst.]  
*Euphrasia tatarica* Wettst.  
*Euphorbia* vide *Tithymalus*  
*Fumana procumbens* (Dunal.) Gren. et Godron  
*Gagea bohémica* (Zauschner) Schultes et Schultes fil. subsp. *bohémica*  
*Gagea pusilla* (F. W. Schmidt) Schultes et Schultes fil.  
*Gagea transversalis* Steven (tax.)

- Gagea villosa* (Bieb.) Duby  
*Galium exoletum* Klokov  
*Galium* vide etiam *Cruciata*  
*Gentiana pannonica* Scop.  
*Gentiana* vide etiam *Dasystephana*, *Gentianella*, *Tretorrhiza*  
*Geranium molle* L.  
*Geum* vide *Oreogeum*  
*Gladiolus imbricatus* L.  
*Globularia punctata* Lapeyr.  
*Gratiola officinalis* L.  
*Guepinia* vide *Teesdalia*  
*Gypsophila fastigiata* L.  
*Heleocharis* vide *Eleocharis*  
*Helianthemum* vide *Rhodax*  
*Helichrysum arenarium* (L.) Moench  
*Helictotrichon desertorum* (Less.) Něvskij subsp. *basalticum* (Podp.) Holub  
*Helictotrichon* vide etiam *Avenula*  
*Hesperis sylvestris* Crantz  
*Hesperis tristis* L.  
*Hieracium apiculatum* Tausch  
*Hieracium fritzei* F. W. Schultz  
*Hieracium glandulosodentatum* Uechtr.  
*Hieracium krajinae* Zlatník (tax.)  
*Hieracium melanocephalum* Tausch  
*Hieracium moravicum* Fries (tax.)  
*Hieracium nigrescens* Willd.  
*Hieracium rohlenaе* Zlatník  
*Hieracium schneiderianum* Zlatník  
*Hieracium tubulosum* (Tausch) Tausch  
*Hieracium uechtritizianum* G. Schneider  
*Hieracium wimmeri* Uechtr.  
*Hieracium* vide etiam *Pilosella*  
*Hippochaete ×moorei* (Newman) H. P. Fuchs [*Equisetum ×moorei* Newman]  
*Holoschoenus* vide *Scirpoides*  
*Hydrocharis morsus-ranae* L.  
*Hypericum dubium* Leers [*H. maculatum* Crantz subsp. *obtusiusculum* (Tourlet) Hayek]  
*Inula germanica* L.  
*Iris aphylla* L. subsp. *bohemica* (F. W. Schmidt) Dostál (tax.)  
*Iris graminea* L.  
*Iris humilis* Georgi subsp. *arenaria* (Waldst. et Kit.) Á. Löve et D. Löve  
*Iris pumila* L.  
*Iris variegata* L.  
*Juncus trifidus* L.  
*Jurinea mollis* (L.) Reichenb.  
*Kadenia dubia* (Schkuhr) Lavrova et Tichomirov [*Cnidium dubium* (Schkuhr) Thell.]  
*Kickxia elatine* (L.) Dumort. subsp. *elatine*  
*Kickxia spuria* (L.) Dumort.  
*Koeleria glauca* (Schrader) DC.  
*Lathyrus lacteus* (Bieb.) Vissjul. [*L. pannonicus* subsp. *collinus* (Ortmann) Soó]  
*Leonurus* vide *Chaiturus*  
*Leopoldia tenuiflora* (Tausch) Heldr. [*Muscari tenuiflorum* Tausch]  
*Leucanthemum adustum* (Koch) Gremli subsp. *margaritae* (Gäyer in Jáv.) Holub  
*Leucorchis* vide *Pseudorchis*  
*Lilium bulbiferum* L.  
*Linum flavum* L.  
*Lithospermum officinale* L.  
*Loncomelos brevistylus* (Wolfner) Dostál [*Ornithogalum brevistylum* Wolfner]

*Lotus borbasii* Ujhelyi  
*Luzula luzulina* (Vill.) Raciborski  
*Lycopodiella inundata* (L.) Holub  
*Lycopodium* vide *Diphasiastrum*, *Lycopodiella*  
*Lycopus exaltatus* L. fil.  
*Lygia* vide *Thymelaea*  
*Lysimachia punctata* L. (ind.)  
*Lythrum hyssopifolia* L.  
*Lythrum virgatum* L.  
*Malus sylvestris* Miller (ind.)  
*Medicago prostrata* Jacq.  
*Melilotus dentata* (Waldst. et Kit.) Pers.  
*Minuartia fastigiata* (Sm.) Reichenb.  
*Monotropa hypophegea* Wallr.  
*Montia hallii* (A. Gray) Greene  
*Muscari racemosum* (L.) Lam. et DC. (nom.)  
*Muscari* vide etiam *Leopoldia*  
*Myriophyllum alterniflorum* DC. in Lam.  
*Najas marina* L.  
*Nasturtium ×sterile* (Airy Shaw) Oefelein  
*Nepeta pannonica* L.  
*Odontites verna* (Bellardi) Dumort.  
*Onobrychis arenaria* (Kit.) DC.  
*Ononis arvensis* L.  
*Ophioglossum vulgatum* L.  
*Orchis militaris* L.  
*Orchis morio* L.  
*Orchis pallens* L.  
*Orchis purpurea* Hudson  
*Oreogalum montanum* (L.) Golubkova [*Geum montanum* L., *Parageum montanum* (L.) Hara]  
*Orlaya grandiflora* (L.) Hoffm.  
*Ornithogalum* vide *Loncomelos*  
*Orobancha alsatica* Kirschleger  
*Orobancha flava* Mart. ex F. W. Schultz  
*Orobancha reticulata* Wallr.  
*Oxycoccus microcarpus* Turcz. ex Rupr.  
*Papaver maculatum* Schur subsp. *austromoravicum* (Kubát) Kubát ined.  
*Parageum* vide *Oreogalum*  
*Parietaria officinalis* L. (ind.)  
*Parnassia palustris* L.  
*Pedicularis palustris* L.  
*Phlomis* vide *Phlomoidea*  
*Phlomoidea tuberosa* (L.) Moench [*Phlomis tuberosa* L.]  
*Phyteuma orbiculare* L. subsp. *orbiculare*  
*Pilosella bifurca* (M. Bieb.) F. W. Schultz et C. H. Schultz [*Hieracium bifurcum* M. Bieb.]  
*Pilosella euchaetia* (Naegeli et Peter) Soják [*Hieracium euchaetia* Naegeli et Peter]  
*Pilosella fallax* (Willd.) Arvet-Touvet [*Hieracium fallax* Willd.]  
*Pilosella heterodoxa* (Tausch) Soják [*Hieracium heterodoxum* Tausch]  
*Pilosella koernickeana* (Naegeli et Peter) Soják [*Hieracium koernickeanum* (Naegeli et Peter) Zahn]  
*Pilosella macrantha* (Ten.) F. W. Schultz et C. H. Schultz [*Hieracium macranthum* Ten.]  
*Pilosella paragoga* (Naegeli et Peter) Soják [*Hieracium paragogum* Naegeli et Peter]  
*Pilosella stoloniflora* (Waldst. et Kit.) F. W. Schultz et C. H. Schultz [*Hieracium stoloniflorum* Waldst. et Kit.]  
*Pilosella sulphurea* (Döll) F. W. Schultz et C. H. Schultz [*Hieracium sulphureum* Döll]  
*Pinguicula vulgaris* L. subsp. *vulgaris*  
*Plantago* vide *Psyllium*  
*Pleurospermum austriacum* (L.) Hoffm.  
*Pneumonanthe* vide *Dasystephana*

- Poa badensis* Haenke ex Willd.  
*Poa laxa* Haenke  
*Podospermum canum* C. A. Meyer [*Scorzonera cana* (C. A. Meyer) O. Hoffm.]  
*Polygala amarella* Crantz subsp. *amarella*  
*Polygala amarella* Crantz subsp. *austriaca* (Crantz) Janchen  
*Polypodium interjectum* Shivas  
*Polystichum braunii* (Spenner) Fée  
*Polystichum lonchitis* (L.) Roth  
*Populus nigra* L. (ind.)  
*Potamogeton alpinus* Balbis  
*Potamogeton acutifolius* Link in Roemer et Schultes  
*Potamogeton perfoliatus* L.  
*Potamogeton gramineus* L.  
*Potamogeton nodosus* Poiret  
*Potamogeton trichoides* Cham. et Schlechtendal  
*Potentilla lindackeri* Tausch (tax.)  
*Potentilla micrantha* Ramond ex DC. in Lam. et DC.  
*Potentilla thuringiaca* Bernh. ex Link  
*Prunus* vide *Cerasus*  
*Pseudorchis albida* (L.) Á. Löve et D. Löve [*Leucorchis albida* (L.) A. Meyer]  
*Psyllium scabrum* (Moench) Holub [*Plantago arenaria* Waldst. et Kit.]  
*Pulmonaria angustifolia* L.  
*Pulsatilla grandis* Wenderoth  
*Pulsatilla pratensis* (L.) Miller subsp. *bohémica* Skalický  
*Pyrola rotundifolia* L.  
*Pyrus nivalis* Jacq. (ind.)  
*Quercus cerris* L. (ind.)  
*Ranunculus illyricus* L.  
*Ranunculus lingua* L.  
*Ranunculus* vide etiam *Batrachium*  
*Rhinanthus pulcher* Sprengel  
*Rhodax canus* (L.) Fuss [*Helianthemum canum* (L.) Baumg.]  
*Rhynchospora alba* (L.) Vahl  
*Rosa majalis* J. Herrmann  
*Rosa micrantha* Borrer ex Sm. in Sowerby  
*Rosa pimpinellifolia* L.  
*Rosa sherardii* H. Davies  
*Rubus bertramii* G. Braun  
*Rubus camptostachys* G. Braun  
*Rubus divaricatus* P. J. Mueller  
*Rubus evestigatus* Trávníček ined. [*R. "parawimmerianus"*]  
*Rubus hadracanthos* G. Braun  
*Rubus macrophyllus* Weihe et Nees  
*Rubus micans* Godron  
*Rubus nemoralis* P. J. Mueller  
*Rubus orthostachyoides* H. E. Weber  
*Rubus posnaniensis* Spribille  
*Rubus semmonicus* H. E. Weber ined. [*R. heweberi* Holub ined., *R. fasciculatiformis* auct.]  
*Rubus sendtneri* Progel  
*Rubus senticosus* Weihe  
*Rubus thelybates* Caillich  
*Rubus wahlbergii* Arrhenius  
*Rubus wessbergii* A. Pedersen et Walsemann  
*Salix elaeagnos* Scop.  
*Salix hastata* L.  
*Salix lapponum* L.  
*Salvinia natans* (L.) All. (ind.)

*Saxifraga rosacea* Moench subsp. *sponhemica* (C. C. Gmelin) D. A. Webb  
*Scabiosa columbaria* L.  
*Scabiosa lucida* Vill. subsp. *lucida*  
*Schoenoplectus tabernaemontani* (C. C. Gmelin) Palla  
*Scilla drunensis* (Speta) Speta  
*Scilla kladnii* Schur  
*Scirpoides holoschoenus* (L.) Soják  
*Scirpus radicans* Schkuhr  
*Scirpus* vide etiam *Schoenoplectus*, *Scirpoides*, *Trichophorum*  
*Sclerochloa dura* (L.) Beauv.  
*Scorzonera hispanica* L.  
*Scorzonera purpurea* L.  
*Scorzonera* vide etiam *Podospermum*  
*Scutellaria hastifolia* L.  
*Selaginella selaginoides* (L.) Link  
*Senecio fluviatilis* Wallr.  
*Senecio subalpinus* Koch  
*Senecio umbrosus* Waldst. et Kit.  
*Senecio* vide etiam *Tephroseris*  
*Seseli pallasii* Besser [*S. varium* Trevir.]  
*Sesleria caerulea* (L.) Ard. [*S. uliginosa* Opiz ex Bертold in Seidl]  
*Silene nemoralis* Waldst. et Kit.  
*Sisymbrium orientale* L.  
*Sium latifolium* L.  
*Sonchus palustris* L.  
*Sorbus austriaca* (Beck) Prain et al.  
*Sorbus bohemica* Kovanda  
*Sorbus eximia* Kovanda  
*Sparganium minimum* Wallr.  
*Spergularia echinosperma* (Čelak.) Ascherson et Graebner  
*Stachys annua* (L.) L.  
*Stellaria* vide *Alsine*  
*Stipa dasyphylla* (Lindem.) Trautv.  
*Stipa tirsia* Steven  
*Stratiotes aloides* L.  
*Swertia perennis* L.  
*Swida australis* (C. A. Meyer) Pojarkova in Grossgejm [*Cornus australis* C. A. Meyer]  
*Symphytum bohemicum* F. W. Schmidt  
*Taraxacum bohemicum* Kirschner et Štěpánek  
*Taraxacum hamatum* Raunk.  
*Taraxacum lacistophyllum* (Dahlst.) Raunk.  
*Taraxacum paucilobum* Hudziok  
*Taraxacum rubicundum* (Dahlst.) Dahlst.  
*Taraxacum serotinum* (Waldst. et Kit.) Poiret  
*Taraxacum vindobonense* Soest  
*Teesdalia nudicaulis* (L.) R. Br. [*Guepinia nudicaulis* (L.) Bast.]  
*Teloxys botrys* (L.) W. A. Weber [*Chenopodium botrys* L.]  
*Tephroseris integrifolia* (L.) Holub  
*Teucrium montanum* L.  
*Teucrium scordium* L.  
*Teucrium scorodonia* L. (ind.)  
*Thalictrum flavum* L. s. s.  
*Thalictrum foetidum* L.  
*Thesium bavarum* Schrank  
*Thesium pyrenaicum* Pourret  
*Thymelaea passerina* (L.) Cosson et Germ.  
*Thymus alpestris* Tausch ex A. Kerner

*Tithymalus angulatus* (Jacq.) Rafin. [*Euphorbia angulata* Jacq.]  
*Tithymalus lucidus* (Waldst. et Kit.) Klotzsch et Garcke [*Euphorbia lucida* Waldst. et Kit.]  
*Tithymalus palustris* (L.) Hill [*Euphorbia palustris* L.]  
*Tithymalus seguierianus* (Necker) Prochanov subsp. *seguierianus* [*Euphorbia seguieriana* Necker subsp. *seguieriana*]  
*Tithymalus villosus* (Willd.) Pacher [*Euphorbia villosa* Willd.]  
*Trautsteinera globosa* (L.) Reichenb.  
*Tretorrhiza cruciata* (L.) Delarbre [*Gentiana cruciata* L.]  
*Triglochin palustre* L.  
*Trichophorum alpinum* (L.) Pers.  
*Utricularia minor* L.  
*Vaccinium* vide *Oxycoccus*  
*Valeriana simplicifolia* (Reichenb.) Kabath  
*Valeriana tripteris* L.  
*Valerianella ramosa* Bast.  
*Ventenata dubia* (Leers) Cosson  
*Veratrum album* L. subsp. *album*  
*Verbascum lychnitis* L. subsp. *moenchii* (C. F. Schultz) Holub et Mladý (nom.)  
*Veronica agrestis* L.  
*Veronica anagalloides* Guss.  
*Veronica dentata* F. W. Schmidt  
*Veronica triloba* (Opiz) Kerner  
*Vicia pannonica* Crantz s. s. (ind.)  
*Vicia striata* Bieb.  
*Vigna appropinquata* (Schumacher) Soják [*Carex appropinquata* Schumacher]  
*Vigna davalliana* (Sm.) Reichenb. in Mössler [*Carex davalliana* Sm.]  
*Vigna diandra* (Schrank) Soják [*Carex diandra* Schrank]  
*Vigna divulsa* (Stokes in With.) Reichenb. [*Carex divulsa* Stokes in With.]  
*Viola ambigua* Waldst. et Kit.  
*Viola lutea* Hudson subsp. *sudetica* (Willd.) W. Becker  
*Viola pumila* Chaix in Vill.  
*Viola stagnina* Kit.  
*Woodsia ilvensis* (L.) R. Br.

### C3. Threatened taxa

*Achillea nobilis* L.  
*Achillea pannonica* Scheele  
*Achillea setacea* Waldst. et Kit.  
*Achyrophorus* vide *Trommsdorffia*  
*Aconitum anthora* L.  
*Aconitum callibotryon* Reichenb.  
*Aconitum variegatum* L.  
*Aegonychon purpureocaeruleum* (L.) Holub [*Lithospermum purpureocaeruleum* L.]  
*Agrimonia procera* Wallr.  
*Alchemilla obtusa* Buser subsp. *obtusa*  
*Alchemilla plicata* Buser  
*Alchemilla straminea* Buser  
*Alchemilla suavis* Plocek  
*Alectorolophus* vide *Rhinanthus*  
*Allium flavum* L.  
*Allium schoenoprasum* L. subsp. *alpinum* (DC.) Čelak.  
*Alsine neglecta* (Weihe in Bluff et Fingerh.) Á. Löve et D. Löve [*Stellaria neglecta* Weihe in Bluff et Fingerh.]  
*Alyssum montanum* L. subsp. *gmelini* (Jordan et Fourr.) E. Schmid  
*Anagallis foemina* Miller  
*Anemone sylvestris* L.

*Anthemis cotula* L.  
*Anthemis ruthenica* Bieb.  
*Anthemis* vide etiam *Cota*  
*Anthericum liliago* L.  
*Aphanes arvensis* L.  
*Aquilegia vulgaris* L.  
*Arabis sagittata* (Bertol.) DC. in Lam. et DC.  
*Arnica montana* L.  
*Artemisia pontica* L.  
*Arum maculatum* L.  
*Asperula tinctoria* L.  
*Asplenium viride* Hudson  
*Aster amellus* L. s. l.  
*Aster* vide etiam *Crinitina*  
*Astragalus austriacus* Jacq.  
*Astragalus danicus* Retz.  
*Astragalus onobrychis* L.  
*Baeothryon* vide *Trichophorum*  
*Batrachium fluitans* (Lam.) Wimmer  
*Batrachium trichophyllum* (Chaix in Vill. emend. Freyn) van den Bosch  
*Biscutella laevigata* agg.  
*Bolboschoenus maritimus* (L.) Palla subsp. *cymosus* (Reichenb.) Soják (tax.)  
*Bolboschoenus maritimus* (L.) Palla subsp. *maritimus* (tax.)  
*Bromopsis ramosa* (Hudson) Holub s. s.  
*Bromus* vide *Bromopsis*  
*Buglossoides* vide *Aegonychon*  
*Butomus umbellatus* L.  
*Calla palustris* L.  
*Calycocorsus* vide *Willemetia*  
*Campanula gentilis* Kovanda  
*Campanula glomerata* L. subsp. *farinosa* (Rochel) Kirschleger  
*Campanula latifolia* L. (ind.)  
*Campanula sibirica* L.  
*Cardamine matthioli* Moretti  
*Cardamine trifolia* L.  
*Carex bigelowii* Torrey ex Schweinitz subsp. *rigida* Schultze-Motel  
*Carex elata* All.  
*Carex ericetorum* Pollich  
*Carex hartmanii* Cajander  
*Carex michelii* Host  
*Carex pauciflora* Lightf.  
*Carex rhizina* Blytt ex Lindblom [*C. pediformis* subsp. *rhizina* (Blytt) Podpěra]  
*Carex supina* Willd. ex Wahlenb.  
*Carex umbrosa* Host  
*Carex* vide etiam *Vigneia*  
*Centaurea* vide *Cyanus*  
*Cephalanthera damasonium* (Miller) Druce  
*Cephalanthera longifolia* (L.) Fritsch  
*Cerastium brachypetalum* Pers.  
*Cerastium semidecandrum* L.  
*Cerasus mahaleb* (L.) Miller subsp. *simonkaii* (Pérez) Terpó [*Prunus mahaleb* L. subsp. *simonkaii* Pérez]  
*Chamaebuxus* vide *Polygaloides*  
*Chamaecytisus austriacus* (L.) Link  
*Chamaecytisus ×virescens* (Kováts ex Neilr.) Dostál  
*Chrysaspis spadicea* (L.) Greene [*Trifolium spadiceum* L.]  
*Cirsium eriophorum* (L.) Scop.  
*Cirsium pannonicum* (L. fil.) Link

- Clematis recta* L.  
*Corothamnus procumbens* (Waldst. et Kit. ex Willd.) C. Presl [*Cytisus procumbens* (Waldst. et Kit. ex Willd.) Sprengel, *Genista procumbens* Waldst. et Kit. ex Willd.]  
*Corydalis pumila* (Host) Reichenb.  
*Cota austriaca* (Jacq.) C. H. Schultz  
*Crepis conyzifolia* (Gouan) Kerner  
*Crepis rhoeadifolia* Bieb.  
*Crepis succisifolia* (All.) Tausch subsp. *succisifolia*  
*Crinitaria* vide *Crinitina*  
*Crinitina linoisyris* (L.) Soják [*Aster linoisyris* (L.) Bernh., *Crinitaria linoisyris* (L.) Less., *Linoisyris vulgaris* L.]  
*Cyanus triumfettii* (All.) Á. Löve et D. Löve [*Centaurea triumfettii* All.]  
*Cyclamen purpurascens* Miller  
*Cyperus fuscus* L.  
*Cytisus* vide *Corothamnus*  
*Dactylorhiza comosa* (Scop.) P. D. Sell in P. Sell et G. Murrell subsp. *majalis* (Reichenb.) P. D. Sell [*D. majalis* Reichenb. subsp. *majalis*]  
*Dalanum* vide *Galeopsis*  
*Dentaria glandulosa* Waldst. et Kit.  
*Dianthus carthusianorum* L. subsp. *latifolius* (Griseb. et Schenk) Hegi  
*Dianthus sabuletorum* Heuff. subsp. *pontederacae* (Kerner) Holub (tax.)  
*Dictamnus albus* L.  
*Diphasiastrum alpinum* (L.) Holub  
*Diphasiastrum complanatum* (L.) Holub  
*Dipsacus* vide etiam *Virga*  
*Dorycnium germanicum* (Gremli) Rikli  
*Dorycnium herbaceum* Vill.  
*Draba* vide *Erophila*  
*Drosera rotundifolia* L.  
*Dryopteris pseudomas* (Wollaston) Holub et Pouzar in Holub  
*Elatine hydropiper* L. subsp. *hydropiper*  
*Eleocharis austriaca* Hayek  
*Eleocharis ovata* (Roth) Roemer et Schultes  
*Epilobium alsinifolium* Vill.  
*Epilobium obscurum* Schreb.  
*Epipactis atrorubens* (Hoffm.) Besser  
*Epipactis viridiflora* Hoffm. ex Krockner [*E. purpurata* Sm.]  
*Equisetum pratense* Ehrh.  
*Equisetum ×litorale* Kühlew ex Rupr.  
*Equisetum* vide etiam *Hippochaete*  
*Erica herbacea* L.  
*Erigeron podolicus* Besser  
*Erophila spathulata* Láng  
*Erysimum crepidifolium* Reichenb.  
*Erysimum diffusum* Ehrh.  
*Erysimum odoratum* Ehrh.  
*Euphorbia* vide *Tithymalus*  
*Euphrasia nemorosa* (Pers.) Wallr.  
*Festuca pseudovina* Hackel ex Wiesb.  
*Ficaria calthifolia* Reichenb.  
*Filago* vide *Logfia*  
*Fraxinus angustifolia* Vahl subsp. *danubialis* Pouzar  
*Gagea minima* (L.) Ker-Gawler  
*Galanthus nivalis* L.  
*Galeopsis angustifolia* (Ehrh.) Hoffm.  
*Galium valdepiilosum* H. Br. in Form.  
*Gentiana* vide *Gentianopsis*  
*Gentianopsis ciliata* (L.) Ma

*Glechoma hirsuta* Waldst. et Kit.  
*Glyceria nemoralis* (Uechtr.) Uechtr. et Koernicke  
*Gymnadenia conopsea* (L.) R. Br. subsp. *conopsea*  
*Heleocharis* vide *Eleocharis*  
*Hieracium alpinum* L.  
*Hieracium atratum* agg. [*H. atratum* Fries incl. *H. kavinae* Zlatník, *H. polycephalum* Velen., *H. sternbergii* Zlatník, *H. sudetica* (Zahn) Zlatník, *H. velenovskyanum* Zlatník]  
*Hieracium bifidum* Kit. ex Hornem.  
*Hieracium caesium* (Fries) Fries  
*Hieracium decipiens* Tausch  
*Hieracium nigritum* Uechtr. [incl. *H. pseudeximium* (G. Schneider) Zlatník]  
*Hieracium prenanthoides* Vill.  
*Hieracium stygium* Uechtr.  
*Hieracium sudeticum* Sternb.  
*Hieracium* vide etiam *Pilosella*  
*Hierochloë australis* (Schrader) Roemer et Schultes  
*Hippochaete hyemalis* (L.) Bruhin [*Equisetum hyemale* L.]  
*Hippochaete ramosissima* (Desf.) Börner [*Equisetum ramosissimum* Desf.]  
*Honorius nutans* (L.) S. F. Gray (ind.?) [*Ornithogalum nutans* L.]  
*Hottonia palustris* L.  
*Huperzia selago* (L.) Bernh. ex Schrank et Mart.  
*Hydrocotyle vulgaris* L.  
*Hylotelephium triphyllum* (Haw.) Holub [*Sedum telephium* L.]  
*Hyoscyamus niger* L.  
*Hypericum humifusum* L.  
*Hypochaeris* vide *Trommsdorffia*  
*Inula ensifolia* L.  
*Inula hirta* L.  
*Inula oculus-christi* L.  
*Iris sibirica* L.  
*Isolepis setacea* (L.) R. Br.  
*Jovibarba globifera* (L.) Parnell  
*Juncus acutiflorus* Ehrh. ex Hoffm.  
*Juncus alpinoarticulatus* Chaix in Vill.  
*Juncus ranarius* Pers. et Song. [*J. ambiguus* auct. non Guss.]  
*Juniperus communis* L. s. s.  
*Knautia* vide *Trichera*  
*Lactuca perennis* L.  
*Lactuca quercina* L.  
*Lactuca* vide etiam *Scariola*  
*Lappula squarrosa* (Retz.) Dumort.  
*Laserpitium latifolium* L.  
*Laserpitium prutenicum* L.  
*Lathyrus latifolius* L.  
*Lathyrus linifolius* (Reichard) Bässler  
*Ledum palustre* L.  
*Leersia oryzoides* (L.) Swartz  
*Leopoldia comosa* (L.) Parlat. [*Muscari comosum* (L.) Miller]  
*Leucojum vernum* L.  
*Ligusticum* vide *Mutellina*  
*Limosella aquatica* L.  
*Linaria genistifolia* (L.) Miller  
*Linum tenuifolium* L.  
*Lithospermum* vide *Aegonychon*  
*Logfia arvensis* (L.) Holub [*Filago arvensis* L.]  
*Logfia minima* (Sm.) Dumort. [*Filago minima* (Sm.) Pers.]  
*Lonicera caprifolium* L. (ind.?)

- Lotus glaber* Miller [*L. tenuifolius* (L.) Reichenb. nom. illeg., *L. tenuis* Waldst. et Kit. ex Willd.]  
*Luzula sudetica* (Willd.) Schultes  
*Lycopodium annotinum* L.  
*Lycopodium* vide etiam *Huperzia*  
*Lysimachia* vide *Naumburgia*  
*Malva pusilla* Sm.  
*Matteuccia struthiopteris* (L.) Tod. (ind.)  
*Medicago minima* (L.) Bartal.  
*Melampyrum arvense* L.  
*Melampyrum bohemicum* Kerner (tax., nom.)  
*Melampyrum cristatum* L.  
*Melica ciliata* L.  
*Melica picta* C. Koch  
*Melilotus altissima* Thuill.  
*Melittis melissophyllum* L. s. l.  
*Menyanthes trifoliata* L.  
*Meum* vide *Mutellina*  
*Minuartia setacea* (Thuill.) Hayek  
*Monotropa hypopitys* L.  
*Muscari* vide *Leopoldia*  
*Mutellina purpurea* (Poiret) Thell. [*Ligusticum mutellina* (L.) Crantz, *Meum mutellina* Gaertn.]  
*Myosurus minimus* L.  
*Myriophyllum verticillatum* L.  
*Nasturtium officinale* R. Br.  
*Naumburgia thyrsiflora* (L.) Reichenb.  
*Noccaea montana* (L.) K. F. Meyer [*Thlaspi montanum* L.]  
*Odontites* vide *Orphantha*  
*Ononis repens* L.  
*Orchis mascula* (L.) L. subsp. *signifera* (Vest) Soó  
*Ornithogalum umbellatum* L.  
*Ornithogalum* vide etiam *Honorius*  
*Orobanche alba* Stephan ex Willd.  
*Orobanche caryophyllacea* Sm.  
*Orobanche elatior* Sutton  
*Orobanche lutea* Baumg.  
*Orphantha lutea* (L.) Kerner ex Wettst. [*Odontites luteus* (L.) Clairv.]  
*Otites cuneifolia* Rafin. s. s. [*Silene otites* (L.) Wibel]  
*Oxycoccus hagerupii* Á. Löve et D. Löve  
*Oxycoccus palustris* Pers. s. s.  
*Oxytropis pilosa* (L.) DC.  
*Papaver confine* Jordan  
*Pedicularis sylvatica* L.  
*Peucedanum alsaticum* L.  
*Phyteuma nigrum* F. W. Schmidt  
*Pilosella apatelina* (Naegeli et Peter) Soják [*Hieracium apatelium* Naegeli et Peter]  
*Pilosella arvicola* (Naegeli et Peter) Soják [*Hieracium arvicola* Naegeli et Peter]  
*Pilosella aurantiaca* (L.) F. W. Schultz et C. H. Schultz (ind.) [*Hieracium aurantiacum* L.]  
*Pilosella auriculoides* (A. F. Láng) F. W. Schultz [*Hieracium auriculoides* A. F. Láng, *H. pannonicum* Naegeli et Peter]  
*Pilosella calodon* (Tausch ex Peter) Soják [*Hieracium calodon* Tausch ex Peter]  
*Pilosella echiioides* (Lumn.) F. W. Schultz et C. H. Schultz [*Hieracium echiioides* Lumn.]  
*Pilosella fallacina* (F. W. Schultz) C. H. Schultz [*Hieracium fallacinum* F. W. Schultz]  
*Pilosella iserana* (Uechtr.) Soják [*Hieracium iseranum* (Uechtr.) Uechtr.]  
*Pilosella macrostolona* (G. Schneider) Soják [*Hieracium macrostolonum* G. Schneider]  
*Pilosella piloselliflora* (Naegeli et Peter) Soják [*Hieracium piloselliflorum* Naegeli et Peter]  
*Pilosella rothiana* (Wallr.) F. W. Schultz et C. H. Schultz [*Hieracium rothianum* Wallr.]

- Pilosella sciadophora* (Naegeli et Peter) Soják [*P. corymbulifera* Arvet-Touvet, *Hieracium sciadophorum* Naegeli et Peter]  
*Pilosella tephroglauca* (Naegeli et Peter) Soják [*Hieracium tephroglaucum* Naegeli et Peter]  
*Pinus rotundata* Link  
*Pistolochia* vide *Corydalis*  
*Platanthera bifolia* (L.) L. C. Richard  
*Platanthera chlorantha* (Custer) Reichenb.  
*Poa remota* Forselles  
*Polemonium caeruleum* L. (ind.)  
*Polygala major* Jacq.  
*Polygala* vide etiam *Polygaloides*  
*Polygaloides chamaebuxus* (L.) O. Schwarz  
*Potamogeton lucens* L.  
*Potamogeton obtusifolius* Mert. et Koch  
*Potentilla collina* Wibel (tax.)  
*Primula veris* L. subsp. *canescens* (Opiz) Hayek  
*Prunella grandiflora* (L.) Scholler  
*Prunella laciniata* (L.) L.  
*Prunus* vide *Cerasus*  
*Pseudolysimachion maritimum* (L.) Á. Löve et D. Löve [*Veronica maritima* L.]  
*Pseudolysimachion orchideum* (Crantz) T. Wraber [*Veronica orchidea* Crantz]  
*Pulmonaria mollissima* Kerner (tax.)  
*Pulsatilla scherfelii* (Ullepitsch) Skalický  
*Ranunculus aconitifolius* L.  
*Ranunculus arvensis* L.  
*Ranunculus cassubicus* L. (tax.)  
*Ranunculus* vide etiam *Batrachium*, *Ficaria*  
*Rapistrum perenne* (L.) All.  
*Rhinanthus alectorolophus* (Scop.) Pollich  
*Rosa gallica* L.  
*Rosa jundzillii* Besser  
*Rubus austroslovacus* Trávníček ined.  
*Rubus canescens* DC.  
*Rubus elatior* Focke ex Gremli  
*Rubus epipsilos* Focke  
*Rubus gliviciensis* (Sudre) Spribille  
*Rubus graecensis* Maurer  
*Rubus nemorosus* Hayne et Willd.  
*Rubus nessensis* W. Hall subsp. *scissoides* H. E. Weber  
*Rubus portae-moravicae* Holub et Trávníček ined.  
*Rubus praecox* Bertol. s. l.  
*Rubus radellus* Spribille ex Ziefinski ined.  
*Rubus rudis* Weihe  
*Rubus saxatilis* L.  
*Rubus siemianicensis* Spribille  
*Rubus sprengelii* Weihe  
*Rubus silvae-bohemicae* Holub et Trávníček ined.  
*Rubus vratnensis* Holub  
*Sagina saginoides* (L.) Karsten  
*Salix daphnoides* Vill.  
*Salix rosmarinifolia* L.  
*Salsola australis* R. Br.  
*Saxifraga bulbifera* L.  
*Saxifraga paniculata* Miller  
*Saxifraga tridactylites* L.  
*Scabiosa canescens* Waldst. et Kit.  
*Scariola viminea* (L.) F. W. Schmidt [*Lactuca viminea* (L.) J. Presl et C. Presl]

*Scilla vindobonensis* Speta  
*Scirpus* vide *Bolboschoenus*, *Isolepis*  
*Scleranthus polycarpus* L.  
*Scorzonera austriaca* Willd.  
*Scorzonera humilis* L.  
*Scrophularia scopoli* Hoppe in Pers.  
*Scrophularia umbrosa* Dumort.  
*Sedum alpestre* Vill.  
*Sedum* vide etiam *Hylotelephium*  
*Sempervivum* vide *Jovibarba*  
*Seseli annuum* L.  
*Seseli hippomarathrum* Jacq.  
*Silaum silaus* (L.) Schinz et Thell.  
*Silene* vide *Orites*  
*Soldanella montana* Willd.  
*Sorbus carpatica* (Beck) Borbás  
*Sorbus danubialis* (Jáv.) Prodan  
*Spiraea salicifolia* L. (ind.)  
*Stachys alpina* L.  
*Staphylea pinnata* L.  
*Stellaria longifolia* Muhlenb. ex Willd.  
*Stellaria palustris* Retz.  
*Stellaria* vide etiam *Alsine*  
*Stipa joannis* Čelak.  
*Stipa pulcherrima* C. Koch  
*Taraxacum fascians* Kirschner, Mikoláš et Štěpánek  
*Taraxacum franconicum* Sahlén  
*Taraxacum gelertii* Raunk.  
*Taraxacum hollandicum* Soest  
*Taraxacum subalpinum* Hudziok  
*Taxus baccata* L.  
*Tetragonolobus maritimus* (L.) Roth  
*Teucrium botrys* L.  
*Thalictrum lucidum* L.  
*Thalictrum minus* L. s. l.  
*Thelypteris palustris* Schott  
*Thesium alpinum* L.  
*Thesium linophyllum* L.  
*Thlaspi* vide *Nocca*  
*Thymus glabrescens* Willd.  
*Tithymalus esula* (L.) Scop. subsp. *riparius* (Schur) Chrtek et Křisa (tax.) [*Euphorbia esula* L. subsp. *riparia* Schur]  
*Tithymalus falcatus* (L.) Klotzsch et Garcke [*Euphorbia falcata* L.]  
*Tithymalus polychromus* (A. Kerner) Prochanov [*Euphorbia polychroma* A. Kerner]  
*Tithymalus strictus* (L.) Klotzsch et Garcke [*Euphorbia stricta* L.]  
*Trichophorum cespitosum* (L.) Hartman  
*Trifolium fragiferum* L. s. l.  
*Trifolium ochroleucum* Hudson  
*Trifolium rubens* L.  
*Trifolium* vide etiam *Chrysaspis*  
*Trollius altissimus* Crantz [*T. europaeus* L. p. p]  
*Trommsdorffia maculata* (L.) Bernh. [*Hypochaeris maculata* L.]  
*Trommsdorffia uniflora* (Vill.) Soják [*Hypochaeris uniflora* Vill.]  
*Valerianella dentata* (L.) Pollich subsp. *eriosperma* (Wallr.) Holub  
*Verbascum blattaria* L.  
*Verbascum phoeniceum* L.  
*Verbena officinalis* L.

*Veronica catenata* Pennell  
*Veronica praecox* All.  
*Veronica prostrata* L.  
*Veronica* vide etiam *Pseudolysimachion*  
*Vicia cassubica* L.  
*Vicia lathyroides* L.  
*Vicia pisiformis* L.  
*Vigna curvata* (Knaf) Soják [*Carex curvata* Knaf]  
*Viola rupestris* F. W. Schmidt  
*Viola ruppii* All. (nom., tax.)  
*Viola saxatilis* F. W. Schmidt subsp. *polychroma* (Kerner) Kirschner et Skalický (tax.)  
*Viola saxatilis* F. W. Schmidt subsp. *saxatilis*  
*Virga pilosa* (L.) Hill [*Dipsacus pilosus* L.]  
*Viscum laxum* Boiss. et Reuter subsp. *abietis* (Wiesb.) O. Schwarz  
*Vulpia myuros* (L.) C. C. Gmelin  
*Willemetia stipitata* (Jacq.) Dalla Torre [*Calycocorsus stipitatus* (Jacq.) Rauschert]

#### C4. Rare or scattered taxa, requiring further study and monitoring

*Achillea millefolium* L. subsp. *sudetica* (Opiz) Oborny (tax.)  
*Abies alba* Mill.  
*Aconitum altissimum* Miller subsp. *altissimum* [*A. vulparia* Reichenb. sec. Gáyer subsp. *vulparia*]  
*Acosta biebersteinii* (DC.) Dostál [*Centaurea biebersteinii* DC.]  
*Adenostyles alliariae* (Gouan) Kerner  
*Aethusa cynapium* L. subsp. *cynapioides* (Bieb.) Nyman  
*Agropyron* vide *Elytrigia*  
*Agrostis vinealis* Schreber  
*Alchemilla filicaulis* Buser subsp. *filicaulis*  
*Alchemilla gruneica* Plocek  
*Alchemilla walasii* Pawł.  
*Allium senescens* L. subsp. *montanum* (F. W. Schmidt) Holub  
*Alyssum montanum* L. subsp. *montanum*  
*Alyssum* vide etiam *Aurinia*  
*Anchusa officinalis* L.  
*Angelica* vide *Archangelica*  
*Anthemis* vide *Cota*  
*Anthericum ramosum* L.  
*Anthriscus longirostris* Bertol. [*A. cerefolium* (L.) Hoffm. subsp. *trichosperma* (Schultes) Arcang.]  
*Anthyllis macrocephala* Wender.  
*Archangelica officinalis* Hoffm. (ind.?)  
*Arctium nemorosum* Lej.  
*Armeria vulgaris* Willd. subsp. *vulgaris*  
*Arum alpinum* Schott et Kotschy (tax.)  
*Aruncus vulgaris* Rafin.  
*Atriplex oblongifolia* Waldst. et Kit.  
*Aurinia saxatilis* (L.) Desv. [*Alyssum saxatile* L.]  
*Avena nuda* L.  
*Avena strigosa* Schreber  
*Avenula pratensis* (L.) Dumort. subsp. *hirtifolia* (Podp.) Holub  
*Barbarea arcuata* (Opiz) Reichenb.  
*Barbarea stricta* Andr. in Besser  
*Batrachium circinatum* (Sibth.) Spach  
*Batrachium peltatum* (Schränk.) J. Presl in Berchtold et J. Presl [*Batrachium rhipiphyllum* (Bast. ex Boreau) Dumort.]  
*Berberis vulgaris* L.  
*Berula erecta* (Hudson) Coville

- Betula carpatica* Willd.  
*Betula celtiberica* Rothm. et Vasconcellos (tax.) [*B. petraea* Sýkora ined.]  
*Bismalva alcea* (L.) Med.  
*Blechnum* vide *Struthiopteris*  
*Bothriochloa ischaemum* (L.) Keng  
*Bromus japonicus* Thunb. ex Murray  
*Caltha palustris* L. subsp. *cornuta* (Schott, Nyman et Kotschy) Hegi (tax.)  
*Caltha palustris* L. subsp. *procumbens* (Beck) Neumayer  
*Campanula moravica* (Spitzner) Kovanda  
*Cardamine hirsuta* L. (ind.)  
*Cardamine pratensis* L. subsp. *major* Tomšovic (tax.)  
*Carduus nutans* L.  
*Carex buekii* Wimmer  
*Carex cespitosa* L.  
*Carex flava* L.  
*Carex humilis* Leysser  
*Carex juncella* (Fries) Nyman (tax.)  
*Carex pendula* Hudson  
*Carex pseudocyperus* L.  
*Carex riparia* Curtis  
*Carex* vide etiam *Vignea*  
*Centaurea* vide *Acosta*, *Cyanus*, *Jacea*  
*Centaureum erythraea* Rafn  
*Cerastium lucorum* Schur emend. Möschl  
*Cerastium pumilum* Curtis  
*Cerinthe minor* L.  
*Chamaecytisus ratisbonensis* (Schäffer) Rothm.  
*Chamerion dodonaei* (Vill.) Holub (ind.)  
*Chondrilla juncea* L.  
*Chrysosplenium oppositifolium* L.  
*Cicerbita alpina* (L.) Wallr.  
*Circaea alpina* L.  
*Cirsium acaule* Scop.  
*Comarum palustre* L.  
*Cornus mas* L.  
*Cornus* vide etiam *Swida*  
*Corydalis intermedia* (L.) Link non (L.) Mérat [*C. fabacea* (Retz.) Pers.]  
*Corydalis solida* (L.) Clairv.  
*Cota tinctoria* (L.) J. Gay  
*Cotoneaster integerrima* Med.  
*Cotoneaster matrensis* Domokos (tax.) [*C. alaunicus* auct.]  
*Cotoneaster niger* Fries subsp. *moravicus* Hrab.-Uhr. (tax.)  
*Cucubalus baccifer* L.  
*Cyanus segetum* Hill [*Centaurea cyanus* L.]  
*Cynodon dactylon* (L.) Pers.  
*Dactylis slovenica* Domin (tax.)  
*Dactylorhiza fuchsii* subsp. *fuchsii* (Druce) Soó [*D. longibracteata* (F. W. Schmidt) Holub subsp. *longibracteata*]  
*Daphne mezereum* L.  
*Dasystephana asclepiadea* (L.) Borkh. [*Gentiana asclepiadea* L., *Pneumonanthe asclepiadea* (L.) F. W. Schmidt]  
*Dentaria enneaphyllos* L.  
*Deschampsia cespitosa* L. subsp. *austrobohemica* (Deyl) Conert (tax.)  
*Dianthus armeria* L.  
*Dianthus sabuletorum* Heuffel subsp. *serpentini* (Podp.) Holub (tax.)  
*Digitaria pectiniformis* (Henrard) Tzvelev  
*Doronicum austriacum* Jacq.  
*Dryopteris expansa* (C. Presl) Fraser-Jenkins

*Eleocharis mamillata* H. Lindb. fil.  
*Elytrigia intermedia* (Host) Něvskij s. l.  
*Empetrum nigrum* L. s. s.  
*Epilobium palustre* L.  
*Epilobium* vide etiam *Chamerion*  
*Epipactis helleborine* (L.) Crantz  
*Equisetum telmateia* Ehrh.  
*Erigeron macrophyllus* Herbich  
*Erysimum virgatum* Roth  
*Euonymus verrucosa* Scop.  
*Euphorbia* vide *Tithymalus*  
*Gentiana* vide *Dasystephana*  
*Festuca pallens* Host  
*Festuca supina* Schur  
*Festuca valesiaca* Schleicher ex Gaud.  
*Fumaria officinalis* L. subsp. *wirtgenii* (Koch) Arcang. (tax.)  
*Galium boreale* L.  
*Galium glaucum* L. subsp. *hirsutum* (Wallr.) Holub (tax.)  
*Galium spurium* L.  
*Genista pilosa* L.  
*Gentiana* vide *Dasystephana*  
*Geranium sanguineum* L.  
*Gnaphalium* vide *Omalotheca*  
*Hacquetia epipactis* (Scop.) DC.  
*Heleocharis* vide *Eleocharis*  
*Helictotrichon* vide *Avenula*  
*Hieracium erythropodum* Uechtr. (tax.)  
*Hieracium glaucinum* Jordan (tax.)  
*Hieracium maculatum* Schrank  
*Hieracium onosmoides* Fries  
*Hieracium saxifragum* Fries  
*Hieracium schmidtii* Tausch  
*Hieracium wiesbaurianum* Uechtr.  
*Hieracium* vide etiam *Pilosella*  
*Imperatoria ostruthium* L. (ind.?)  
*Inula salicina* L. subsp. *salicina*  
*Isopyrum thalictroides* L.  
*Jacea oxylepis* (Wimmer et Grab.) Soják [*Centaurea oxylepis* (Wimmer et Grab.) Hayek]  
*Jacea phrygia* (L.) Soják [*Centaurea phrygia* L.]  
*Juncus minutulus* (Alb. et Jah.) Prain  
*Knautia* vide *Trichera*  
*Kohlrauschia prolifera* (L.) Kunth  
*Larix sudetica* Domin (tax.)  
*Lavatera thuringiaca* L.  
*Lemna gibba* L.  
*Lemna trisulca* L.  
*Lemna turionifera* Landolt  
*Libanotis pyrenaica* (L.) Bourgeau subsp. *bipinnata* (Čelak.) Holub  
*Lilium martagon* L.  
*Listera ovata* (L.) R. Br.  
*Loranthus europaeus* Jacq.  
*Lunaria rediviva* L.  
*Lycopsis arvensis* L.  
*Lythrum salicaria* L. subsp. *intermedium* (Ledeb.) Tacik (tax.)  
*Malva* vide *Bismalva*  
*Melampyrum herbichii* Wołoszczak (tax.)  
*Melandrium noctiflorum* (L.) Fries [*Silene noctiflora* L.]

- Melica transsilvanica* Schur  
*Meum athamanticum* Jacq.  
*Mulgedium* vide *Cicerbita*  
*Myosotis caespitosa* C. F. Schultz  
*Myosotis discolor* Pers.  
*Myosotis sparsiflora* Pohl  
*Neottia nidus-avis* (L.) L. C. Richard  
*Nonea pulla* (L.) DC. in Lam. et DC.  
*Oberna antelopum* (Vest) Šourková (tax.) [*Silene vulgaris* (Moench) Garcke subsp. *antelopum* (Vest) Hayek]  
*Omalotheca norvegica* (Gunn.) C. H. Schultz et F. W. Schultz [*Gnaphalium norvegicum* Gunn.]  
*Omphalodes scorpioides* (Haenke) Schrank  
*Otites pseudotites* (Besser ex Reichenb.) Klokov [*Silene pseudotites* Besser ex Reichenb.]  
*Papaver argemone* L.  
*Papaver dubium* L. s. s.  
*Pastinaca opaca* Bernh.  
*Petasites kablikianus* Tausch ex Berchtold  
*Petrorhagia* vide *Kohlrauschia*  
*Peucedanum cervaria* (L.) Lapeyr.  
*Peucedanum oreoselinum* (L.) Moench  
*Peucedanum* vide etiam *Imperatoria*  
*Phleum rhaeticum* (Humphries) Rauschert  
*Picris paleacea* Vest (tax.)  
*Pilosella cymosa* (L.) F. W. Schultz et C. H. Schultz [*Hieracium cymosum* L.]  
*Pilosella glaucescens* (Besser) Soják [*Hieracium glaucescens* Besser]  
*Pilosella glomerata* (Froel.) Arvet-Touvet [*Hieracium glomeratum* Froel., *H. ambiguum* Ehrh., nom. nudum]  
*Pilosella schultesii* (F. W. Schultz) F. W. Schultz et C. H. Schultz [*Hieracium schultesii* F. W. Schultz]  
*Pilosella ziziana* (Tausch) F. W. Schultz et C. H. Schultz [*Hieracium zizianum* Tausch]  
*Pinus* × *pseudopumilio* (Willk.) Beck  
*Plantago major* L. subsp. *winteri* (Wirtgen) W. Ludwig (tax.)  
*Pneumonanthe* vide *Dasystephana*  
*Poa bulbosa* L. subsp. *pseudoconcinna* (Schur) Jirásek (tax.)  
*Polygala oxyptera* Reichenb.  
*Polygonum calcatum* Lindman  
*Polystichum aculeatum* (L.) Roth  
*Potentilla alba* L.  
*Potentilla arenaria* Borkh.  
*Potentilla aurea* L.  
*Potentilla hedrichii* (Domin) Domin (tax.)  
*Potentilla pusilla* Host (tax.)  
*Potentilla recta* L. s. l.  
*Potentilla thyrsiflora* Hülsen in Zimmeter ex A. Kerner (tax.)  
*Potentilla* vide etiam *Comarum*  
*Poterium polygamum* Waldst. et Kit.  
*Primula elatior* (L.) Hill subsp. *tatrensis* (Domin) Soó  
*Primula veris* L. subsp. *veris*  
*Prunus spinosa* L. subsp. *cerasina* Hrab.-Uhr. (tax.)  
*Prunus spinosa* L. subsp. *fechtneri* Domin (tax.)  
*Prunus spinosa* L. subsp. *megalocarpa* Domin (tax.)  
*Prunus spinosa* L. subsp. *moravica* Domin (tax.)  
*Prunus spinosa* L. subsp. *ovoideo-globosa* Domin (tax.)  
*Pseudolysimachion spicatum* (L.) Opiz [*Veronica spicata* L.]  
*Pyrus pyraister* (L.) Burgsd.  
*Quercus dalechampii* Ten.  
*Quercus polycarpa* Schur  
*Quercus pubescens* Willd.  
*Ranunculus platanifolius* L.  
*Ranunculus* vide etiam *Batrachium*

*Rosa andegavensis* Bast. (tax.)  
*Rosa blandeana* Rip. ex Déségl. (tax.)  
*Rosa deseglisei* Boreau (tax.)  
*Rosa intricata* Gren. (tax.)  
*Rosa pomifera* J. Hermann (tax.)  
*Rosa squarrosa* (Rau) Boreau (tax.)  
*Rosa stephanocarpa* Déségl. et Rip. (tax.)  
*Rubus acanthodes* H. Hofmann  
*Rubus adalberti* Holub et Trávníček ined.  
*Rubus bohemiicola* Holub  
*Rubus brdensis* Holub  
*Rubus elegantior* Trávníček ined. [? *R. phyllostachys* P. J. Mueller]  
*Rubus gothicus* E. H. L. Krause  
*Rubus indusiatus* Focke  
*Rubus josholubii* H. E. Weber  
*Rubus permollissimus* Holub, Trávníček et Havlíček ined. [*R. chřibensis* Holub ined.]  
*Rubus praecociformis* Trávníček ined.  
*Sanguisorba* vide *Poterium*  
*Schoenoplectus lacustris* (L.) Palla  
*Scirpus* vide *Schoenoplectus*  
*Senecio erraticus* Bertol.  
*Senecio* vide *Tephrosieris*  
*Serratula tinctoria* L.  
*Seseli osseum* Crantz  
*Seseli* vide etiam *Libanotis*  
*Setaria verticilliformis* Dumort.  
*Silene* vide *Melandrium*, *Oberna*, *Otites*  
*Sorbus aria* (L.) Crantz  
*Sorbus torminalis* (L.) Crantz  
*Sparganium erectum* L. emend. Reichenb. subsp. *oocarpum* (Čelak.) Domin (tax.)  
*Spergula morisonii* Boreau  
*Stipa capillata* L.  
*Streptopus amplexifolius* (L.) DC. in Lam. et DC.  
*Struthiopteris spicant* (L.) Weiss  
*Swida ×hungarica* (Kárpáti) Soják [*Cornus ×hungarica* (Kárpáti) Soó]  
*Taraxacum aurosulum* Linb. fil.  
*Taraxacum boeckmanii* Borgvall  
*Taraxacum brachylepis* Markl. ex Puolanne  
*Taraxacum copidophyllum* Dahlst.  
*Taraxacum corynodes* Hagl.  
*Taraxacum crociflorum* Dahlst.  
*Taraxacum cyanolepis* Dahlst.  
*Taraxacum duplidentifrons* Dahlst.  
*Taraxacum fusciflorum* H. Oellgaard  
*Taraxacum haematicum* Hagl. ex H. Oellgaard et H. Wittzell  
*Taraxacum intermedium* Raunk. s. l.  
*Taraxacum lamprophyllum* M. P. Christ.  
*Taraxacum lancidens* Hagendyjk, Soest et Zevenbergen  
*Taraxacum lucidum* Dahlst.  
*Taraxacum nordstedtii* Dahlst.  
*Taraxacum pannucium* Dahlst.  
*Taraxacum proximum* (Dahlst.) Raunk.  
*Taraxacum pseudohamatum* Dahlst.  
*Taraxacum psedoretroflexum* M. P. Christ.  
*Taraxacum quadrans* H. Oellgaard  
*Taraxacum ruptifolium* H. Oellgaard  
*Taraxacum subhamatum* M. P. Christ.

*Taraxacum tenebricans* (Dahlst.) Raunk.  
*Taraxacum tragopogon* Kirschner et Štěpánek  
*Taraxacum undulatum* Linb. fil. et Markl.  
*Tephroseris crispa* (Jacq.) Schur  
*Thymus marschallianus* Willd. (tax.)  
*Thymus kosteleckyanus* Opiz (tax.)  
*Thymus praecox* Opiz  
*Thyselinum* vide *Peucedanum*  
*Tithymalus amygdaloides* (L.) Hill [*Euphorbia amygdaloides* L.]  
*Tithymalus virgultosus* (Klokov) Holub [*Euphorbia virgultosa* Klokov]  
*Tragopogon minor* Miller (tax.)  
*Trichera drymeia* (Heuffel) Nyman [*Knautia drymeia* Heuffel]  
*Trichera maxima* (Opiz in Berchtold et Opiz) Holub [*Knautia maxima* (Opiz) Ortmann, *K. dipsacifolia* Kreutzer]  
*Trifolium alpestre* L.  
*Tunica* vide *Kohlrauschia*  
*Ulmus laevis* Pallas  
*Ulmus minor* Miller emend. Reichenb.  
*Utricularia australis* R. Br.  
*Valeriana dioica* L.  
*Valeriana excelsa* Poirét subsp. *procurrens* (Wallr.) Holub  
*Valeriana excelsa* Poirét subsp. *transiens* (E. Walther) Holub (tax.)  
*Valeriana excelsa* Poirét subsp. *sambucifolia* (Mikan fil.) Holub  
*Valeriana stolonifera* Czern. subsp. *angustifolia* Soó  
*Valerianella dentata* (L.) Pollich subsp. *dentata*  
*Veratrum album* L. subsp. *lobelianum* (Bernh.) Reichenb.  
*Verbascum chaixii* Vill. subsp. *austriacum* (Roemer et Schultes) Hayek  
*Veronica dillenii* Crantz  
*Veronica montana* L.  
*Veronica scutellata* L.  
*Veronica teucrium* L.  
*Veronica verna* L.  
*Veronica* vide etiam *Pseudolysimachion*  
*Viburnum lantana* L. (ind.)  
*Vicia dumetorum* L.  
*Vigna bohemica* (Schreber) Soják [*Carex bohemica* Schreber]  
*Vigna chabertii* (F. W. Schultz sub *Carex*) [*Carex chabertii* F. W. Schultz]  
*Vigna disticha* (Hudson) Peter [*Carex disticha* Hudson]  
*Vigna otrubae* (Podp.) Soják [*Carex otrubae* Podp.]  
*Vigna paniculata* (L.) Reichenb. in Mössler [*Carex paniculata* L.]  
*Vigna polyphylla* (Kar. et Kir. sub *Carex*) [*Carex polyphylla* Kar. et Kir.]  
*Viola biflora* L.  
*Viola mirabilis* L.  
*Viscum album* L. s. s.  
*Viscum laxum* Boiss. et Reuter subsp. *laxum*  
*Xanthium albinum* (Widder) H. Scholz  
*Zannichellia palustris* L.  
*Zannichellia pedicellata* (Rosén et Wahlenb.) Fries (tax.)

## Conclusion

There are about 2550 species and subspecies of native taxa and archaeophytes in the flora of the Czech Republic. This figure excludes alien species introduced to the country over the last few centuries (some of them only temporarily), planted species and also escapes

from cultivation. The number of species is only approximate as the critical revision of the Czech flora is not yet complete, and certain taxa present problems at the subspecific level.

The present list contains 1627 species and subspecies. When group A3 (formed by doubtful cases of extinct and missing taxa which are mostly not included in the above given total number of native or long naturalized taxa of the Czech Republic) is excluded, we are left with 1547 taxa, i. e. 60% of the Czech flora: A1 – 2.5% (= 69 taxa), A2 – 2.0% (= 49 taxa), C1 – 18.5% (= 473 taxa), C2 – 14% (= 352 taxa), C3 – 13% (= 326 taxa), C4 – 10% (= 278 taxa).

Even if we consider only those taxa in groups C1, C2, and C3 to be really endangered (excluding C4 in which the threat is low or in some cases only supposed), there are still at least 1151 seriously threatened species and subspecies in the Czech flora (45.5% of the total). By adding extinct and missing taxa, the number is increased to 1269 (about 50%).

The first version of the Red List (Holub, Procházka & Čerovský 1979) contained 1152 taxa (excluding the problematic group A3), whilst in the present edition, this number has risen to 1547. This represents an increase from 45% in 1979 to 60% in 2000 (out of a total of 2550 taxa). What is most disturbing, is that apart from group C4, (which covers the least endangered species), there has been a remarkable increase in numbers in all the most seriously threatened categories of taxa. Plants in category C1 have increased from 267 to 473, C2 from 240 to 352, and C3 from 239 to 326. The same holds true for the number of extinct taxa (37 to 69 in A1) and the number of missing taxa has increased from 39 to 49.

The finding that 4.5% of species and subspecies in the flora of Czech Republic are extinct or missing and that another 45.5% are seriously endangered is undoubtedly a sad reflection on the recent and continued exploitation of the environment by man in the Czech Republic. It also sends a serious message to the state nature conservation authorities and society as a whole.

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## Souhrn

Po více než 20 letech, které uplynuly od vydání první verze seznamu vyhynulých, endemických a ohrožených taxonů cévnatých rostlin flóry České republiky, je botanické a ochranářské veřejnosti předkládána další verze, která zahrnuje řadu nových poznatků o květeně České republiky, které byly nashromážděny od roku 1979.

Jsou v ní uvedeny četné taxony, které první verze neobsahovala. Jednak takové, které byly již dříve známy odjinud, avšak v České republice poprvé nalezené až během posledních dvou desetiletí (*Hypericum dubium*, *Orobancha teucrii*, *Stipa eriocaulis*, *Vandenboschia speciosa* (= *Trichomanes speciosum* atd.) nebo byly teprve nedávno popsány, a to buď ze zahraničí (*Diphasiastrum oellgaardii*, *Epipactis greuteri*, *Himantoglossum adriaticum* atd.) či dokonce od nás (různé druhy rodů *Minuartia*, *Rubus*, *Sorbus* a *Taraxacum* nebo *Dactylorhiza traunsteineri* subsp. *carpatica* atd.). Naopak musely být některé druhy obsažené v původním seznamu zcela vy-

nechány, protože bylo prokazatelně zjištěno, že na našem státním území nikdy nerostly (např. *Himantoglossum hircinum*).

V mnoha případech je změněno zařazení taxonů do jednotlivých kategorií, jež vyplynulo z mnohem detailnějšího poznání aktuálního rozšíření a míry konkrétního ohrožení. Nejzávažnějšími případy jsou ty, kdy druhy dříve považované v České republice již za vyhynulé anebo nezcvěstné byly znovu na našem území nalezeny (kupř. *Hypericum pulchrum*, *Linaria arvensis*, *Luronium natans* nebo *Potamogeton polygonifolius*, *Utricularia bremii*) či obrácená, smutnější varianta, kdy taxony dříve řazené do kategorie kriticky ohrožených, musely být již přefazeny mezi vyhynulé a nezcvěstné (*Gentianella germanica* subsp. *solstitialis*, *Herminium monorchis*, *Sceptridium multifidum* apod.).

Formální členění předloženého seznamu je v podstatě stejné jako v 1. verzi z roku 1979, chybí pouze oddíl B (endemity a subendemity). To proto, že u taxonů známých již před delší dobou zůstává stav stejný, kdežto u taxonů teprve nedávno nově popsanych je jen u části téměř jistý endemický charakter rozšíření (např. *Dactylorhiza bohemica*, *Euphrasia corcontica*, *Minuartia smejkalii*, *M. corcontica*, *Rubus bohemicola*). Lze sice předpokládat, že i mnohé další nově popsané taxony z kritických rodů (*Dactylorhiza*, *Rubus*, *Taraxacum*, *Sorbus*) budou také endemity či subendemity, dosud nedostatečně známé celkové rozšíření však ještě neumožňuje stanovit to s jistotou.

Ačkoliv obě další základní kategorie (A, C) i jejich další vnitřní členění zůstaly zachovány tak, jak byly použity v 1. verzi z roku 1979, částečně se změnila jejich náplň. To proto, aby mohly být ztotožněny s mezinárodními kategoriemi IUCN. V současnosti platné kategorie ohrožení IUCN (vyhovující spíše potřebám zoologickým než botanickým) odpovídají jen zčásti kategoriím dosud běžně používaným v České republice, které byly zvoleny pro účely této práce a které jsou vymezeny obdobně jako kategorie ohrožení používané ve většině sousedních středoevropských států. Rozdílů ve vymezení oproti náplni kategorií IUCN vyplývají z textů v anglické části práce, které jednotlivé zde použité kategorie podrobněji charakterizují.

A. Vyhynulé a nezcvěstné taxony (IUCN: extinct = EX)

A1. Vyhynulé taxony (EX)

A2. Nezcvěstné (pravděpodobně vyhynulé) taxony (?EX)

A3. Nejasné případy vyhynulých a nezcvěstných taxonů (?EX?)

C. Taxony v různém stupni ohrožené

C1. Kriticky ohrožené taxony (IUCN: critically endangered = CR)

C2. Silně ohrožené taxony (IUCN: endangered = EN)

C3. Ohrožené taxony (IUCN: vulnerable = VU)

C4. Vzácnější taxony vyžadující další pozornost (IUCN: lower risk = LR + data deficient = DD)

Seznam obsahuje jako základní systematickou jednotku druhy. Kde se to ukázalo vhodné, jsou uvedeny i poddruhy (subspecie). Pokud se v České republice vyskytuje více subspecií jednoho druhu, aniž by byly v seznamu zvláště (jmenovitě) uvedeny, vztahuje se zařazení druhu do určité kategorie i na všechny jeho subspecie, zastoupené v naší republice. Hybridi byli zařazeni jen ojediněle v těch případech, kdy jsou jejich porosty mnohdy již zcela nezávislé na rodičovských populacích, anebo výjimečně i vzácné hybridní kombinace fanerofytů, které byly z našeho území poprvé popsány (např. převážná *Pinus × celakovskiorum* roste na klasičském nalezišti, kterým je kamenné moře u Plešného jezera na Šumavě, již déle než 100 let).

U některých taxonů jsou za jmény uvedeny zkratky, které jsou vysvětleny v následujícím přehledu:

„ind.“ – je brán v úvahu jen původní, přirozený výskyt (pokud existuje)

„ind.“ – není jasné, zda je taxon na území České republiky původní

„tax.“ – taxonomická problematika je nejasná

„s. l.“ – taxon uvažován v širším pojetí

„s. s.“ – taxon uvažován v užším pojetí (drobný druh, respektive typová subspecie)

„agg.“ – skupina nedostatečně prozkoumaných taxonů (nezřídka drobných druhů)

„nom.“ – pravděpodobný problém nomenklatorický

Nomenklatura (až na nemnohé výjimky) je ponechána tak, jak ji užíval J. Holub (užší vymezení rodů, hodnocení některých taxonů spíše subspecifické hodnoty na úrovni druhů atd.). Agentura ochrany přírody a krajiny České republiky však chystá vydání mnohem rozsáhlejší modifikace tohoto seznamu pro účely ochranné práce. V té bude použito širšího vymezení rodů, jak je v evropské botanice obvyklé, bude doplněno o národní nomenklaturu a abecední seznamy všech taxonů s odkazy na legislativní ochranu nejen naší (Vyhlaška MŽP

č. 395/1992 Sb.), ale i mezinárodní (Bernská úmluva, Washingtonská úmluva, Směrnice Rady Evropských společenství č. 92/43/EEC z roku 1992).

Ona část flóry České republiky, kterou tvoří autochtonní taxony a archeofyty, čítá okolo 2550 druhů a subspecií. Do tohoto počtu nejsou zahrnuty ty cizí druhy, které k nám byly zavlečeny (mnohdy jen přechodně) teprve v nedávných stoletích, dále druhy zplaňující z kultur, rostliny pěstované apod. Uvedené číslo je jen velmi přibližné, protože jednak není dosud dokončeno kritické zpracování naší květeny a jednak jsou značné rozdíly v chápání některých taxonů, které někdy mohou být považovány za subspecie, jindy jsou však hodnoceny na nižší taxonomické úrovni (obvykle varieta).

V předloženém Červeném seznamu je uvedeno celkem 1627 druhů a subspecií. Po odečtení skupiny A3 (nejasné případy vyhynulých a nezměřitelných taxonů, které povětšinou nejsou zahrnuty ani ve výše uvedeném celkovém počtu domácích anebo již dávno zdomácnělých taxonů České republiky), pak je to 1547 taxonů, tedy 60 % [A1 – 2,5 % (= 69 taxonů), A2 – 2 % (= 49 taxonů), C1 – 18,5 % (= 473 taxonů), C2 – 14 % (= 352 taxonů), C3 – 13 % (= 326 taxonů), C4 – 10 % (= 278 taxonů)].

I kdybychom za skutečně ohrožené považovali jen taxony skupin C1 až C3, s vyloučením skupiny C4, u níž je stupeň ohrožení už jen nízký anebo v některých případech snad i jen předpokládaný, pak je u nás skutečně v různém stupni ohroženo nejméně 1151 druhů a subspecií (45,5 % z celkového počtu), což spolu s vyhynulými a nezměřitelnými taxony zvyšuje počet na 1269 (= 50 %).

První verze Červeného seznamu (Holub et al. 1979) zahrnovala (mimo problematickou skupinu A3) celkem 1152 taxonů, kdežto tato nová verze už 1547 druhů a subspecií (z celkového počtu 2550 uvažovaných ohrožených i neohrožených taxonů České republiky to bylo v roce 1979 asi 45%, dnes 60%). Znepokojující je především skutečnost, že s výjimkou nejméně ohrožené skupiny C4 výrazně stoupl počet taxonů ve všech skupinách s vyšším stupněm ohrožení (v C1 z 267 na 473, v C2 z 240 na 352 a v C3 z 239 na 326), stejně jako se zvýšil počet vyhynulých (A1 z 37 na 69) a nezměřitelných (A2 z 39 na 49) taxonů.

Zjišťujeme-li, že 4,5 % druhů a subspecií z květeny České republiky patří do skupiny taxonů vyhynulých a nezměřitelných a dalších 45,5 % v různém stupni vážně ohrožených, pak je to zajisté smutná bilance důsledků nedávné i současné exploatace přírodního prostředí člověkem v našem státě, ale také vážné memento pro státní ochranu přírody a celou společnost.

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