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New Checklist and the Red list of the mosses (Bryophyta) of Slovenia

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Key words: Checklist, Red list, mosses (Bryophyta), threatened species, Slovenia.

Ključne besede: Seznam mahov, Rdeči seznam, listnati mahovi (Bryophyta), ogrožene vrste, Slovenija.

Abstract

The new Checklist of mosses (Bryophyta) of Slovenia within current political boundaries comprises 669 species, 6 subspecies and 18 varieties. Additional 13 species are denoted by a question mark since reports are considered questionable. An alphabetically arranged tabular presentation of genera, species and lower taxa, also shows their presence in particular phytogeographical units of Slovenia. The records from the periods before and after 1959 are marked with different symbols. Each species has also new Red List status in Slovenia. The checklist includes the data from literature and the Herbarium LJU. Annotations to selected species give a critical evaluation of the literature and herbarium data. A list of taxa that should be excluded from the flora of Slovenia and the synonyms used in the floristic literature for Slovenia are also added.

Izvleček

Novi Seznam listnatih mahov (Bryophyta) Slovenije v današnjih političnih mejah obsega 669 vrst, 6 podvrst in 18 varietet. Nadaljnih 13 vrst je označenih z vprašajem, ker gre za navedbe, ki so iz kakršnega koli vzroka dvomljive. Po abecedi urejen tabelarni prikaz rodov in vrst ter nižjih taksonov prikazuje njihovo prisotnost v posameznih fitogeografskih enotah. Z ustreznim znakom so prikazani podatki pred letom 1959 in po njem. Vsaka vrsta ima oznako statusa iz Rdečega seznama za Slovenijo. Seznam vključuje podatke iz literature in herbarija LJU. Pripombe kritično vrednotijo določene literaturne in herbarijske podatke. Dodan je spisek taksonov, ki jih je treba črtati iz flore Slovenije ter sinonimika, ki je bila uporabljena v floristični literaturi za Slovenijo.

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Introduction

Twenty years since the publication of the Checklist of Mosses (Bryopsida) of Slovenia, (Martinčič 2003, in Slovenian), it is necessary to provide a new, updated checklist. Over the last two decades a substantial increase in floristic data have occured, mainly of intensive field work and the processing of herbarium material in the Herbarium LJU, in particularly of certain critical genera, such as *Bryum* s. lat., *Brachythecium*, *Grimmia, Schistidium, Orthotrichum*. Another reason for an updated list are recent taxonomical and nomenclatural changes in the European moss flora (Ros et al., 2013; Hodgetts et al., 2020).

Methods

The new checklist is based on data from literature sources published before 2023, the collection of Herbarium LJU, and the author's previously unpublished data. It considers all floristic works and a part of published phytosociological relevés in which we assume that mosses were correctly identified. We critically evaluated data from older floristic literature related to the border areas between Slovenia and Italy. After the collapse of the Austro-Hungarian Monarchy, a part of these areas was added to Italy, and the data from these parts (mainly the vicinity of Gorizia and Trieste) was reported both by Pavletić (1955) and Düll et al. (1999). In the absence of appropriate herbaria specimens, it was impossible to review the accuracy of all data reported in literature. The only exception was the herbarium material kept in LJU. In the last decades of the 19th century, it was obtained mainly from S. Robič, J. Šafer, J. Breidler and A. Paulin. The material contributed by the first two authors was revised or reclassified by J. Breidler and J. Głowacki. F. Dolšak collected moss samples in the early 20th century. The herbarium material from LJU allowed us to revise a part of literature data contributed by S. Grom, an amateur bryologist who was active from 1959 to 1969. A revision of his work revealed many misclassifications, which were excluded and are evident in chapters Annotations and Excluded Species. The reports that are in any way questionable, but could not be revised because there is no herbarium material available, were marked with a question mark. Some of the floristic data obtained from literature dates back to the period before 1915 and a part comes from the period between 1959 and 2023. Most of the herbarium material in LJU was collected after 1960, predominantly by the author of this paper.

The nomenclature and taxonomy used in the checklist follow Hodgetts et al. (2020).

To present the distribution of particular taxa, we used the phytogeographical division of Slovenia according to M. Wraber (1969), that was slightly modified (Martinčič, 2003). The central Soča Valley was therefore excluded from the sub-Mediterranean region – or Adriatic province sensu Zupančič & Žagar (1995) as proposed by Dakskobler (1996) – and included in the pre-Alpine region. Similarly, we divided the so far uniform subregion of the Alpine region of Pohorje into three parts: Pohorje in the strict sense, Dravski Kozjak – the region north of the Drava river, and Mežiško-Mislinjska dolina with Strojna – in the west of Pohorje.

The arrangements of these units is presented in Figure 1 with the following abbreviations:

AJ – Alpine region: Julijske Alpe
AK – Alpine region: Karavanke
AS – Alpine region: Kamniško-Savinjske Alpe
AP – Alpine region: Pohorje
AZ – Alpine region: Dravski Kozjak
AM – Alpine region: Mežiško-Mislinjska dolina-Strojna
DN – Dinaric region
PA – pre-Alpine region
PD – pre-Dinaric region
SM – Submediterranean region
SP – sub-Pannonian region

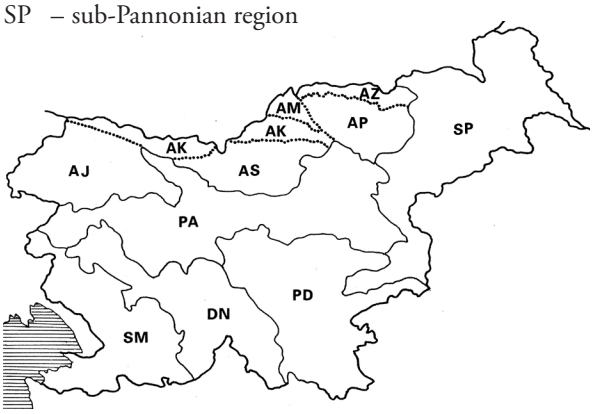

Figure 1: Phytogeographic division of Slovenia (according to M. Wraber (1969), modified).

Slika 1: Fitogeografska razdelitev Slovenije (po M. Wraberju (1969), spremenjeno).

The accompanying Red List was added to the checklist (Table 1), although they are largely based on the previously published Red List (Martinčič, 2016a). The species were classified into the Red List categories using the IUCN criteria 3.1 (IUCN 2001). Their application to bryophytes follows Hallingbäck et al. (1998). However, the only realistic threat assessment criterion is **criterion B**, which is expressed with the number of currently known localities: 1 (CR), 2–5 (EN), 6–10 (VU). The year of the last record was added for the taxa under the DD category.

SLO RED LIST – Status of taxon in Red List of Slovenia
Status taksona v Rdečem seznamu za Slovenijo

Red List categories in this article:

RE – Regionally extinct – izumrla v Sloveniji
CR – Critically endangered – skrajno ogrožena vrsta
EN – Endangered – prizadeta vrsta
VU – Vulnerable – ranljiva vrsta
NT – Near threatened – potencialno ogrožena vrsta
DD – Data deficient – premalo znana vrsta, stari podatki
DD-n – Data deficient, new – premalo znana vrsta, recentni podatki
LC – Least Concern – neogrožena vrsta

List of taxa with distribution in phytogeographic regions of Slovenia

The following symbols were used:

● – Literature or herbarium report after 1959
Literaturni ali herbarijski podatek po letu 1959
○ – Literature or herbarium report before 1959
Literaturni ali herbarijski podatek pred letom 1959
? – Questionable report – dvomljiv podatek

Table 1: List of taxa with their distributions in phytogeographic regions of Slovenia.
Tabela 1: Seznam taksonov s prikazom razširjenosti v fitogeografskih enotah Slovenije.

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Abietinella Müll.Hal. (Thuidiaceae)												
abietina (Hedw.) M. Fleisch. var. *abietina*	LC	●	●	●	●	●	●	●	●	●	●	●
var. *hystricosa* (Mitt.) Sakurai	VU	●									●	
Acaulon Müll.Hal. (Pottiaceae)												
muticum (Hedw.) Mull.Hal.	DD-1891			○	○	○	○			○		
Alleniella S. Olsson, Enroth & D. Quandt. (Neckeraceae)												
besseri (Lobarz.) S. Olsson, Enroth & D. Quandt.	LC	●	●					●	○		●	●
complanata (Hedw.) S. Olsson, Enroth & D. Quandt.	LC	●	●	●	●	●	●	●	●	●	●	●
Aloina Kindb. (Pottiaceae)												
aloides (Koch ex Schultz) Kindb. (**1**)	DD-1910								○			
ambigua (Bruch & Schimp.) Limpr.	DD-1910			○					○			○
rigida (Hedw.) Limpr.	DD-1910	○	○	○		○		○	○			
Amblyodon P. Beauv. (Meesiaceae)												
dealbatus (Hedw.) P. Beauv.	LC	●		○								
Amblystegium Schimp. (Amblystegiaceae)												
serpens (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
Amphidium Schimp. (Amphidiaceae)												
lapponicum (Hedw.) Schimp. (**2**)	DD-1888			○								
mougeotii (Schimp.) Schimp.	LC	○	●	●	●	●	○		○			
Anacamptodon Brid. (Amblystegiaceae)												
splachnoides (Froel. ex Brid.) Brid.	EN	○		○	○	○			○	●	○	○
Andreaea Hedw. (Andreaeaceae)												
nivalis Hook. (**3**)	LC	●										
rothii F. Weber & D. Mohr (**4**)	DD-1885			○								
rupestris Hedw. var. *rupestris*	LC		●	●	●				●			
Anomobryum Schimp. (Bryaceae)												
concinnatum (Spruce) Lindb.	LC	○	○	○		○			○	●		
julaceum (Schrad. ex P. Gaertn., E. Mey. & Scherb.) Schimp.	DD-1912	○		○								
Anomodon Hook. & Taylor (Anomodontaceae)												
longifolius (Schleich. ex Brid.) Hartm.	LC	●	○	○	○			●	○	●		
rugelii (Müll.Hal.) Keissl.	LC	●		●		●		●		●	●	●
viticulosus (Hedw.) Hook. & Taylor	LC	●	●	●	●	●	●	●	●	●	●	●

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Antitrichia Brid. (Antitrichiaceae)												
curtipendula (Hedw.) Brid.	LC	●		●	●			●	●	●	●	○
Archidium Brid. (Arhidiaceae)												
alternifolium (Hedw.) Mitt. (**5**)	DD-1913			○	○				○	?	○	○
Aschisma Lindb. (Pottiaceae)												
carniolicum (F. Weber & D. Mohr) Lindb. (**6**)	RE										○	
Atrichum P. Beauv. (Polytrichaceae)												
angustatum (Brid.) Bruch & Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
flavisetum Mitt.	LC	○			○	○		○		●		
tenellum (Röhl.) Bruch & Schimp.	LC	○	●	●	●	●	●	●	●	●	●	●
undulatum (Hedw.) P. Beauv.	LC	●	●	●	●	●	●	●	●	●	●	●
Aulacomnium Schwägr. (Aulacomniaceae)												
palustre (Hedw.) Schwägr.	LC	●	●	●	●		●	●	●	●	○	●
Barbula Hedw. (Pottiaceae)												
unguiculata Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
Bartramia Hedw. (Bartramiaceae)												
halleriana Hedw.	LC	●	●	●	●	●	●	●	●			
ithyphylla Brid. (**7**)	LC	●	●	○	○	○		?	?			
pomiformis Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
Blindia Bruch & Schimp. (Seligeriaceae)												
acuta (Hedw.) Bruch & Schimp.	LC		●	●	●	●						
caespiticia (F. Weber & D. Mohr) Müll. Hal.	EN	●										
Blindiadelphus (Lindb.) Fedosov & Ignatov (Seligeriaceae)												
recurvatus (Hedw.) Fedosov & Ignatov	LC		○	○		●			○		○	○
Brachydontium Fürnr. (Ptychomitriaceae)												
trichodes (F. Weber) Milde	LC				●							
Brachytheciastrum Ignatov & Huttunen (Brachytheciaceae)												
collinum (Schleich. ex Müll. Hal.) Ignatov & Huttunen	VU	●										
olympicum (Jur.) Vanderp. et al. (**8**)	LC		●					?	●		●	
salicinum (Schimp.) J.D. Orgaz, M.J. Cano & J. Guerra (**9**)											?	
trachypodium (Brid.) Ignatov & Huttunen	LC	●			?			●				
velutinum (Hedw.) Ignatov & Huttunen	LC	●	●	●	●	●	●	●	●	●	●	●
Brachythecium Schimp. (Brachytheciaceae)												
albicans (Hedw.) Schimp.	LC	○		○	○	○		●	○			○
campestre (Müll. Hal.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
capillaceum (F. Weber & D. Mohr) Giacom. (**10**)								?				
cirrosum (Schwägr.) Schimp.	LC	●	●	●				●	●			
erythrorrhizon Schimp.	LC	●						●				
geheebii Milde	LC	●	●	●		●		●	●	●	●	●
glareosum (Bruch ex Spruce) Schimp.	LC	●	●	●	●	●		●	●	●	●	●
japygum (Głov.) Köckinger & Jan Kučera	LC	●						●				
laetum (Brid.) Schimp.	LC	●	●	●		●		●	●	●		●
mildeanum (Schimp.) Schimp.	LC	●	●	●		●	●	●	●	●	●	●
rivulare Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
rutabulum (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
salebrosum (Hoffm. ex F. Weber & D. Mohr) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
tenuicaule (Spruce) Kindb.	LC	●			●	●			●		●	
tommasinii (Sendtn. ex Boulay) Ignatov & Huttunen	LC	●	●	●	●	●	●	●	●	●	●	●
turgidum (Hartm.) Kindb.	LC	●						●				

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Bruchia Schwägr. (Bruchiaceae)												
flexuosa (Schwägr.) Müll. Hal. (**11**)	DD-1891											○
Bryoerythrophyllum P. C. Chen (Pottiaceae)												
alpigenum (Venturi) P. C. Chen (**12**)	DD-1910	○			○							
recurvirostrum (Hedw.) P. C. Chen	LC	●	●	●	●	●	●	●	●	●	●	○
rubrum (Jur. ex Geh.) P. C. Chen (**13**)	EN	●						?				
Bryum Hedw. (Bryaceae)												
argenteum Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
canariense Brid. (**14**)	DD-1882										○	
dichotomum Hedw.	LC	●	●		○			○	●		●	●
gemmiferum R. Wilczek & Demaret (**15**)	LC	●										
klinggraeffii Schimp. (**16**)	LC										●	●
radiculosum Brid.	LC				○	○			○		●	○
versicolor A. Braun ex Bruch & Schimp.	LC	●							○			○
violaceum Crundw. & Nyholm (**17**)												●
Buckia D. Rios, M. T. Gallego & J. Guerra (Pylaisiaceae)												
vaucheri (Lesq.) D. Rios, M. T. Gallego & J. Guerra	LC	●	●	●	●		○	●	●		○	○
Buxbaumia Hedw. (Buxbaumiaceae)												
aphylla Hedw.	NT		●		○		○	●	●	●		○
viridis (Moug. ex Lam. & DC.) Brid ex Moug. & Nestl.	NT	●	●	●	●			●	○	●		○
Callicladium H. A. Crum (Callicladiaceae)												
haldanianum (Grev.) H. A. Crum	LC		●	○					●	●		●
imponens (Hedw.) Hedenäs, Schlesak & D. Quandt	LC	●	●		●			●	●	●		
Calliergon (Sull.) Kindb. (Calliergonaceae)												
cordifolium (Hedw.) Kindb.	LC	●	●		●		●	●	●	●		●
giganteum (Schimp.) Kindb.	NT	●	●	○	○			●	○			○
richardsonii (Mitt.) Kindb.	DD-1915	○										
Calliergonella Loeske (Pylaisiaceae)												
cuspidata (Hedw.) Loeske	LC	●	●	●	●	●	●	●	●	●	●	●
lindbergii (Mitt.) Hedenäs	LC	●	●	○	●	●	●	●	●	●	●	
Campyliadelphus (Kindb.) R. S. Chopra (Amblystegiaceae)												
chrysophyllus (Brid.) R. S. Chopra	LC	●	●	●	●	●		●	●	●	●	●
elodes (Lindb.) Kanda	LC	●	●	●				●	●	●	●	○
Campylium (Kindb.) R. S. Chopra (Amblystegiaceae)												
bambergeri (Schimp.) Hedenäs, Schlesak & D. Quandt	NT	●		●								
protensum (Brid.) Kindb.	LC	●	●	●		●	●	●	●	●	●	
stellatum (Hedw.) Lange & C. E. O. Jensen	LC	●	●	●	●	●		●	●	●	●	○
Campylophyllopsis W. R. Buck (Amblystegiaceae)												
calcarea (Crundw. & Nyholm) Ochyra	LC	●	●	●		●		●	●		●	
sommerfeltii (Myrin) Ochyra	LC	○	○	○	●				○	●	●	●
Campylophyllum (Schimp.) M. Fleisch. (Amblystegiaceae)												
halleri (Hedw.) M. Fleisch.	LC	●	●	●			○	●	●		●	
Campylopus Brid. (Leucobryaceae)												
flexuosus (Hedw.) Brid.	LC		●	○	●				○	○		
fragilis (Brid.) Bruch & Schimp.	LC	●							●	●		
introflexus (Hedw.) Brid. (**18**)	LC	●		●	●			●	●	●		●
pilifer Brid. (**19**)	DD-n 2022				●							
pyriformis (Schultz) Brid. (**20**)	RE								○			

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
schimperi Milde (**21**)	DD-1901			○								
subulatus Schimp. ex Milde (**22**)	LC	●	●	●	○	○		●	?		○	○
Campylostelium Bruch & Schimp.												
saxicola (F. Weber & D. Mohr) Bruch & Schimp.	DD-1891								○		○	
Catoscopium Brid. (Catoscopiaceae)												
nigritum (Hedw.) Brid.	VU	●		○								
Ceratodon Brid. (Ditrichaceae)												
purpureus (Hedw.) Brid.	LC	●	●	●	●	●	●	●	●	●	●	●
Chionoloma Dixon (Pottiaceae)												
tenuirostre (Hook. & Taylor) M. Alonso, M. J. Cano & J. A. Jiménez	LC	●	●	○	●	●		●	○	○	●	
Cinclidium Sw. (Mniaceae)												
stygium Sw. (**23**)	EN	●										
Cinclidotus P. Beauv. (Pottiaceae)												
aquaticus (Hedw.) Bruch & Schimp.	LC	●	●	●				●	●	●	●	
fontinaloides (Hedw.) P. Beauv.	LC	●		●	○			●	●	●	●	
riparius (Host ex Brid.) Arn.	LC	●			○			●	●		●	
Cirriphyllum Grout (Brachytheciaceae)												
crassinervium (Taylor) Loeske & M. Fleisch.	LC	●	●	●	●	●	●	●	●	●	●	●
piliferum (Hedw.) Grout	LC	●	●	●	●	●		●	●	●	●	●
Claopodium (Lesq. & James) Renauld & Cardot (Leskeaceae)												
rostratum (Hedw.) Ignatov	LC	●	●	●				●	●	●	●	●
Cleistocarpidium Ochyra & Bedn.-Ochyra (Ditrichaceae)												
palustre (Bruch & Schimp.) Ochyra & Bedn.-Ochyra	VU				○	●	○		○	○		○
Climacium F. Weber & D. Mohr (Climaciaceae)												
dendroides (Hedw.) F. Weber & D. Mohr	LC	●	●	●	●	●	●	●	●	●	●	●
Cnestrum I. Hagen (Rhabdoweisiaceae)												
schisti (F. Weber & D. Mohr) I. Hagen (**24**)	DD-1893			○				?				
Conardia H. Rob. (Amblystegiaceae)												
compacta (Drumm. ex Müll. Hal.) H. Rob. (**25**)	DD-1912								○			
Coscinodon Spreng. (Grimmiaceae)												
cribrosus (Hedw.) Spruce	DD-1908			○		○	○		○			
Cratoneuron (Sull.) Spruce (Amblystegiaceae)												
curvicaule (Jur.) G. Roth (**26**)	LC	●	○	○				?				
filicinum (Hedw.) Spruce	LC	●	●	●	●	●	●	●	●	●	●	○
Crossidium Jur. (Pottiaceae)												
squamiferum (Viv.) Jur. var. *pottioideum* (De Not.) Mönk.	DD-1909										○	
Cryphaea D. Mohr (Cryphaeaceae)												
heteromalla (Hedw.) D. Mohr	LC										●	
Ctenidium (Schimp.) Mitt. (Myuriaceae)												
molluscum (Hedw.) Mitt.	LC	●	●	●	●	●	●	●	●	●	●	●
Cynodontium Bruch & Schimp. (Dicranaceae)												
bruntonii (Sm.) Bruch & Schimp. (**27**)	DD-1913	?		○				○	○			
fallax Limpr.	LC	●	●		●	●						
polycarpon (Hedw.) Schimp.	LC	●	●	●	●				○			
strumiferum (Hedw.) Lindb.	LC	○	●	●								
tenellum (Schimp. Limpr.	DD-1908			○	○							
Cyrtomnium Holmen (Mniaceae)												
hymenophylloides (Huebener) . J. Kop.	LC	●	●		○			●		●		

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Dialytrichia (Schimp.) Limpr. (Pottiaceae)												
mucronata (Brid.) Broth.	NT	○						●	○		●	
Dichodontium Schimp. (Aongstroemiaceae)												
flavescens (Dicks.) Lindb.	LC	●		●	●	○			●		●	
pellucidum (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	
Dicranella (Müll. Hal.) Schimp. (Dicranellaceae)												
cerviculata (Hedw.) Schimp.	LC		●	●					●	●		○
crispa (Hedw.) Schimp.	VU		●				●		○			
grevilleana (Brid.) Schimp.	LC	●										
heteromalla (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
howei Renauld & Cardot (**28**)	EN										●	
humilis R. Ruthe	DD-1891			○								●
rufescens (Dicks.) Schimp.	LC			●	○				○		○	●
schreberiana (Hedw.) Dixon	LC	○	●	○	●		●	○	○	○		●
staphylina H. Whitehouse (**29**)	NT				●		●			●		●
subulata (Hedw.) Schimp.	LC	○		●	●	●			●			
varia (Hedw.) Schimp.	LC	●	●	●		●		●	●	●	●	●
Dicranodontium Bruch & Schimp. (Leucobryaceae)												
denudatum (Brid.) E. Britton	LC	●	●	●	●	●	●	●	●	●		
uncinatum (Harv.) A. Jaeger	LC				●			●				
Dicranoweisia Milde (Rhabdoweisiaceae)												
cirrata (Hedw.) Lindb.	LC							○		●	●	
Dicranum Hedw. (Dicranaceae)												
bonjeanii De Not.	LC	●	●	●	●			●	●	●	●	○
brevifolium (Lindb.) Lindb.	DD-1912	●		○								
crassifolium Sérgio, Ochyra & Séneca	LC	●							●			
elongatum Schleich. ex Schwägr.	LC	●		○			●	●				
flagellare Hedw.	LC	●	●	○	○		●	●	○			○
fulvum Hook.	LC	●		○	○				○			●
fuscescens Sm.	LC	●	●	○	○			○	●	●	●	
majus Sm.	LC	●	●	●	●	●		●			○	●
montanum Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
muehlenbeckii Bruch & Schimp.	LC	●	●	○	●	○		●	○	●		○
polysetum Sw. ex anon.	LC	●	●	●	●	●	●	●	●	●	●	●
scoparium Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
scottianum Turner (**30**)		?										
spadiceum J. E. Zetterst.	LC	●		○								
spurium Hedw.	LC	●	●	●	●	●	●	●	●	●		○
tauricum Sapjegin	EN	●			○			●	○	●		
transsylvanicum Lüth (**31**)	LC								●	●		
undulatum Schrad. ex Brid.	LC	●			●			●	●	●		○
viride (Sull. & Lesq.) Lindb.	LC	●		●	○			●	●	●	○	○
Didymodon Hedw. (Pottiaceae)												
acutus (Brid.) K. Saito	LC	●	●	●	○	●	●	●	●		●	○
asperifolius (Mitt.) H. A. Crum, Steere & L. E. Anderson (**32**)	LC		●					●				
cordatus Jur.	LC	●	●		●			●	○		●	
fallax (Hedw.) R. H. Zander	LC	●	●	●	●	●	●	●	●	●	●	
ferrugineus (Schimp. ex Besch.) M. O. Hill	LC	●	●	●	●	○	○	●	●	●		○
giganteus (Funck) Jur.	NT	●	●	●				●				
icmadophilus (Schimp. ex Müll. Hal.) K. Saito (**33**)	LC	●										

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
insulanus (De Not.) M. O. Hill	NT	○	○	○	○	○			●			
luridus Hornsch.	LC	○		○		○	○	●	○		●	○
nicholsonii Culm. (**34**)	DD-n 2017								●			
rigidulus Hedw.	LC	●	●	○	○	○	○	●	●	●	●	○
sinuosus (Mitt.) Delogne	LC								●			
spadiceus (Mitt.) Limpr.	LC	●	●	●	●	●		●	●		●	○
tophaceus (Brid.) Lisa subsp. *tophaceus*	LC	●			○				●		●	
subsp. *sicculus* (**35**)	DD-n 2009										●	
validus Limpr.	NT	●	●		○			●			●	
vinealis (Brid.) R. H. Zander	LC	●		●	●	○		●	●	●	●	○
Diobelonella Ochyra (Aongstroemiaceae)												
palustris (Dicks.) Ochyra	NT	●	●	●	●	○	●		○			
Diphyscium D. Mohr (Diphysciaceae)												
foliosum (Hedw.) D. Mohr	LC	●	●	●	●	●		●	●	●	○	●
Distichium Bruch & Schimp. (Distichiaceae)												
capillaceum (Hedw.) Bruch & Schimp.	LC	●	●	●		●	●	●	●		●	○
inclinatum (Hedw.) Bruch & Schimp.	LC	●	●	●				●				
Ditrichum Timm ex Hampe (Ditrichaceae)												
heteromallum (Hedw.) E. Britton	LC	●	●	○	●	●		●	●	●	●	○
lineare (Sw.) Lindb.	DD-1910	○		○	○		○	?	○		○	○
pallidum (Hedw.) Hampe	EN		●	○	○	○			○		○	○
pusillum (Hedw.) Hampe	EN	○		○	●	●			○			
Drepanium (Schimp.) C. E. O. Jensen (Amblystegiaceae)												
fastigiatum (Hampe) C. E. O. Jensen	LC	●	●	○				●	○	●		
Drepanocladus (Müll. Hal.) G. Roth (Amblystegiaceae)												
aduncus (Hedw.) Warnst.	NT	●	○	○	○			○	○	●	●	○
lycopodioides (Brid.) Warnst. (**36**)	VU	?						●	●			
polygamus (Schimp.) Hedenäs	VU	●	●					●			?	●
sendtneri (Schimp. ex H. Müll.) Warnst.	VU	○						●	○		○	○
trifarius (F. Weber & D. Mohr) Broth. ex Paris	NT	●	●					●	●	●		
turgescens (T. Jensen) Broth. (**37**)	CR	●										
Encalypta Hedw. (Encalyptaceae)												
affinis R. Hedw.	LC		●					●				
alpina Sm.	LC	●	●									
ciliata Hedw.	LC	●	●	○	○			●	○			
longicolla Bruch (**38**)	EN	○	●									
rhaptocarpa Schwägr.	LC	●		○				●				
streptocarpa Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
trachymitria Ripart (**39**)	LC	●										
vulgaris Hedw.	LC	●	●	●	●			●	●	●	●	
Entodon Müll. Hal. (Entodontaceae)												
concinnus (De Not.) Paris	LC	●	●	●	○		○	●	●	●	●	○
schleicheri (Schimp.) Demet.	LC	●	●			●			●	●	●	
Entosthodon Schwägr. (Funariaceae)												
fascicularis (Hedw.) Müll. Hal.	DD-1908			○	○	○		○	○		○	○
muhlenbergii (Turner) Fife	LC	○		●	○				○	●	○	
obtusus (Hedw.) Lindb.	DD-1891			○	○				○	○		
pulchellus (H. Philib.) Brugués (**40**)	EN								●		?	
Ephemerum Hampe (Pottiaceae)												
cohaerens (Hedw.) Hampe (**41**)	EN								○			●

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
serratum (Hedw.) Hampe	LC								●			●
stoloniferum (Hedw.) L. T. Ellis & M. J. Price (**42**)	DD-1893					○	○		○			○
Eucladium Bruch & Schimp. (Pottiaceae)												
verticillatum (With.) Bruch & Schimp.	LC	●	●	○	○			●	●	●	●	○
Eurhynchiastrum Ignatov & Huttunen (Brachytheciaceae)												
diversifolium (Schimp.) J. Guerra	EN	○	●									
pulchellum (Hedw.) Ignatov & Huttunen	LC	●	●	●	●	●	●	●	●		●	
Eurhynchium Bruch & Schimp. (Brachytheciaceae)												
angustirete (Broth.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
striatum (Hedw.) Schimp.	LC	●	●	●	●			●	●	●	●	●
Exertotheca S. Olsson, Enroth & D. Quandt. (Neckeraceae)												
crispa (Hedw.) S. Olsson, Enroth & D. Quandt.	LC	●	●	●	●	●		●	●	●	●	●
Fabronia Raddi (Fabroniaceae)												
ciliaris (Brid.) Brid. (**43**)									?			
pusilla Raddi (**44**)								?				
Fissidens Hedw. (Fissidentaceae)												
adianthoides Hedw.	LC	●	○	●	○	○	○	●	●	●	●	○
bryoides Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
crassipes Wilson subsp. *crassipes*	LC	●		●	●			●	●	●	●	●
subsp. *warnstorfii* (M. Fleisch.) Brugg.-Nann.	LC							●	●		●	
crispus Mont.	LC									●	●	
dubius P. Beauv. var. *dubius*	LC	●	●	●	●	●	●	●	●	●	●	●
var. *mucronatus* (Limpr.) Kartt., Hedenäs & L. Söderstr.	LC	●	●	●	●			●		●	●	
exilis Hedw.	VU								○	●	●	○
fontanus (Bach. Pyl.) Steud. (**45**)	LC											●
gracillifolius Brugg.-Nann. & Nyholm (**46**)	LC							?		●	●	
gymnandrus Buse.	DD-1912			○	○	○			○			
incurvus Starke ex Röhl.	DD-1914			○	○						●	
osmundoides Hedw. (**47**)	NT	●	●					?			○	○
pusillus (Wilson) Milde	LC			○				○	●		●	○
rufulus Bruch & Schimp.	LC							●	●		●	
serrulatus Brid. (**48**)	EN										●	
taxifolius Hedw.	LC	●	●	●	●	●		●	●	●	●	●
viridulus (Sw.) Wahlenb.	VU			○	○			●	○		●	○
Flexitrichum Ignatov & Fedosov (Flexitrichaceae)												
flexicaule (Schwägr.) Ignatov & Fedosov	LC	●	●	●	○			●	●	●	●	●
gracile (Mitt.) Ignatov & Fedosov	LC	●	○					●	●		●	
Fontinalis Hedw. (Fontinalaceae)												
antipyretica Hedw. subsp. *antipyretica*	LC	●	●	●	●	●		●	●	●	●	○
subsp. *gracilis* (Lindb.) Kindb.	VU	○						●	○		●	
subsp. *kindbergii* (Tenauls & Cardot) Cardot	DD-1914							○	○			
hypnoides C. Hartm. var. *hypnoides*	VU	○						○		○	●	
var. *duriaei* (Schimp.) Kindb. (**49**)								?				
squamosa Hedw. (**50**)	EN				●			?				
Funaria Schwagr. (Funariaceae)												
hygrometrica Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
Grimmia Hedw. (Grimmiaceae)												
anodon Bruch & Schimp. (**51**)	EN	●										
crinita Brid. (**52**)	DD-1848										○	
decipiens (Schultz) Lindb. (**53**)	LC							●				

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
donniana Sm. (**54**)	DD-1908				○							
elatior Bruch ex Bals.-Criv. & De Not.	EN		●	○	○							
funalis (Schwagr.) Bruch & Schimp. (**55**)	LC				●							
hartmanii Schimp.	LC	●	●	●	●	●		●	●	●		○
laevigata (Brid.) Brid.	DD-1908	○		○	○	○			○			
lisae De Not.	LC	○			●							
longirostris Hook. (**56**)	DD-1938				○							
muehlenbeckii Schimp.	DD-1912		○	○	○	○			○			
orbicularis Bruch ex Wilson	DD-1911	○							○	●	●	
ovalis (Hedw.) Lindb.	EN	○	○	●	○	○			○			○
pulvinata (Hedw.) Sm.	LC	●	●	●	○	●	○	●	●	●	●	○
teretinervis Limpr.	DD-1909							○	○			
tergestina Tomm. ex Bruch & Schimp.	EN	●						○	○			○
trichophylla Grev.	LC			●	○				○			
Gymnobarbula Jan Kučera (Pottiaceae)												
bicolor (Bruch & Schimp.) Jan Kučera	DD-1910	○										
Gymnostomum Nees & Horsch. (Pottiaceae)												
aeruginosum Sm.	LC	●	●	○	●	○		●	●	●	●	○
calcareum Nees & Hornsch.	LC	●	●	●	○	●	○	●	●	●	●	○
viridulum Brid. (**57**)	EN										●	
Gyroweisia Schimp. (Pottiaceae)												
tenuis (Hedw.) Schimp.	EN	●			○							○
Habrodon Schimp. (Habrodontaceae)												
perpusillus (De Not.) Lindb. (**58**)	EN	●										
Hamatocaulis Hedenäs (Scorpidiaceae)												
vernicosus (Mitt.) Hedenäs	LC	●	●		○			●	●	●		●
Haplocladium (Müll. Hal.) Müll. Hal. (Thuidiaceae)												
angustifolium (Hampe & Müll. Hal.) Broth.	DD-1909										○	
virginianum (Brid.) Broth. (**59**)	DD-1891			○								
Hedwigia P. Beauv. (Hedwigiaceae)												
ciliata (Hedw.) P. Beauv.	LC	●	●	●	●	●		●	○		○	○
emodica Hampe ex Müll. Hal.	VU	●	●	○		●			○			
Hennediella Paris (Pottiaceae)												
heimii (Hedw.) R. H. Zander	DD-1910	○									○	
Herzogiella Broth. (Plagiotheciaceae)												
seligeri (Brid.) Z. Iwats.	LC	●	●	●	●	●	●	●	●	●	●	●
striatella (Brid.) Z. Iwats.	LC	●	●	○				●		●		
Heterocladiella Ignatov & Fedosov (Heterocladiellaceae)												
dimorpha (Brid.) Ignatov & Fedosov	LC	●	●	●	●	●		●	○			
Heterocladium Bruch & Schimp. (Lembophyllaceae)												
heteropterum (Brid.) Schimp.	LC	●		●	●	●	●		●			
Homalia (Brid.) Bruch & Schimp. (Neckeraceae)												
trichomanoides (Hedw.) Brid.	LC	●	●	○	●	●	●	●	●	●	●	●
Homalothecium Schimp. (Brachytheciaceae)												
lutescens (Hedw.) H. Rob. var. *lutescens*	LC	●	●	●	○			●	●	●	●	●
var. *fallax* (H. Philib. ex Schimp.) Düll	LC	○		○				○	○	○	●	○
philippeanum (Spruce) Schimp.	LC	●	●	●	○	●	●	●	●	●	●	●
sericeum (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Homomallium (Schimp.) Loeske (Pylaisiaceae)												
incurvatum (Schrad ex Brid.) Loeske	LC	●	●	●	○			●	●	●	●	●
Hookeria J. E. Sm. (Hookeriaceae)												
lucens (Hedw.) Sm.	LC	●	●	●	●	●	●	●	●	●	●	
Hydrogonium (Müll. Hal.) A. Jaeger (Pottiaceae)												
croceum (Brid.) Jan Kučera	LC	●	●	●	○	●	○	●	●		●	●
consanguineum (Thwait. & Mitt.) Hilp. var. *kurilense* (Ignatov) J.Kučera (**60**)	EN											●
Hygroamblystegium Loeske (Amblystegiaceae)												
fluviatile (Hedw.) Loeske (**61**)	NT	●		○	●	●	●		●	●		
humile (P. Beauv.) Vanderp., Goffinet & Hedenäs	NT	●					●	●	○		●	●
tenax (Hedw.) Jenn.	LC	●	●	○	○	●		●	●	●	●	○
varium (Hedw.) Mönkm.	LC	●	●	○	○	●	●	●	●	●	●	●
Hygrohypnella Ignatov & Ignatova (Scorpidiaceae)												
ochracea (Turner ex Wilson) Ignatov & Ignatova (**62**)	VU			●	●	●					●	
Hygrohypnum Lindb. (Amblystegiaceae)												
luridum (Hedw.) Jenn.	LC	●	●	●	●	●	●	●	●	●	●	○
Hylocomiadelphus Ochyra & Stebel (Hylocomiaceae)												
triquetrus (Hedw.) Ochyra & Stebel	LC	●	●	●	●	●	●	●	●	●	●	●
Hylocomiastrum Broth. (Hylocomiaceae)												
pyrenaicum (Spruce) M. Fleisch.	LC	●		○				○				
umbratum (Hedw.) M. Fleisch.	LC	●	●	●				●		●		
Hylocomium Bruch & Schimp. (Hylocomiaceae)												
splendens (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
Hymenoloma Dusén (Hymenolomataceae)												
compactum (Schleich. ex Schwägr.) Ochyra (**63**)	LC	●							?			
crispulum (Hedw.) Ochyra	NT	●	○	●	●							
Hymenostylium Brid. (Pottiaceae)												
recurvirostrum (Hedw.) Dixon	LC	●	●	●	●	●		●	●	●	●	○
Hyophila Brid. (Pottiaceae)												
involuta (Hook.) A. Jaeger (**64**)											?	
Hypnum Hedw. (Hypnaceae)												
andoi A. J. E. Smith	LC	●	●	●	●	●	●	●			●	
cupressiforme Hedw. var. *cupressiforme*	LC	●	●	●	●	●	●	●	●	●	●	●
var. *filiforme* Brid.	LC	●	●	●	●	●	●	●	●	●	●	●
var. lacunosum Brid.	LC	●	●	●	●		●	●	●	●	●	
var. *subjulaceum* Molendo	DD-1910	○			○						○	
jutlandicum Homen & E. Warncke	LC	●	●	●	●	●	●	●	●	●	●	●
resupinatum Taylor	LC	●	●	●	●		●	●	●	●	●	●
Imbribryum Pedersen (Bryaceae)												
alpinum (Huds. ex With.) N. Pedersen	DD-1910	○		○	○	○	○		○			○
mildeanum (Jur.) J. R. Spence	LC	●	○	○	○	○			○			
muehlenbeckii (Bruch & Schimp.) N. Pedersen (**65**)	DD-1900		○									
subapiculatum (Hampe) D. Bell & Holyoak (**66**)	DD-n 2022				●							
Isoperygiopsis Z. Iwats. (Plagiothecieaceae)												
muelleriana (Schimp.) Z. Iwats.	LC	●	●	●				●	●			
pulchella (Hedw.) Z. Iwats.	LC	●	●	○	●			●	●	●		●
Isothecium Brid. (Lembophyllaceae)												
alopecuroides (Lam. ex Dubois) Isov.	LC	●	●	●	●	●	●	●	●	●	●	●
myosuroides Brid.	LC	●		○	●	●		●	●	●	●	○

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Jochenia Hedenäs, Schlesak & D. Quandt (Jocheniaceae)												
pallescens (Hedw.) Hedenäs, Schlesak & D. Quandt (**67**)	NT	●		●		○						○
Kiaeria I. Hagen (Rhabdoweisiaceae)												
falcata (Hedw.) I. Hagen	EN	●		○								
starkei (F. Weber & D. Mohr) I. Hagen	EN	●	○	○								
Kindbergia Ochyra (Brachytheciaceae)												
praelonga (Hedw.) Ochyra	LC	●		●	●	●	●	●	●	●	●	●
Leptobryum (Bruch & Schimp.) Wilson (Meesiaceae)												
pyriforme (Hedw.) Wilson	LC	○	○	●	○			●	○	●	●	○
Leptodictyum (Schimp.) Warnst. (Amblystegiaceae)												
riparium (Hedw.) Warnst.	LC	●		○		●		●	●	●	●	●
Leptodon D. Mohr (Neckeraceae)												
smithii (Hedw.) F. Weber & D. Mohr	LC	●						○	○		●	
Lescuraea Bruch & Schimp. (Pseudoleskeaceae)												
incurvata (Hedw.) E. Lawton	LC	●	●	●	○			●	○			
mutabilis (Brid.) Lindb. ex I. Hagen	LC	●	●	○	○			●	○			
patens Lindb. (**68**)		?						?				
plicata (Schleich. ex F. Weber & D. Mohr) Broth.	LC	●	●	●				●	●			
radicosa (Mitt.) Mönk. (**69**)	LC	●	●									
saviana (De Not.) E. Lawton	EN	●						●				
saxicola (Schimp.) Molendo	VU	●						?				
Leskea Hedw. (Leskeaceae)												
polycarpa Hedw.	LC	●	●		○			●	●	●	●	●
Leucobryum Hampe (Leucobryaceae)												
glaucum (Hedw.) Ångstr.	LC	●	●	●	●	●	●	●	●	●	●	●
juniperoideum (Brid.) Müll. Hal.	LC	●	●	●	●	●	●	●	●	●	●	●
Leucodon Schwagr. (Leucodontaceae)												
sciuroides (Hedw.) Schwägr.	LC	●	●	●	●	●	●	●	●	●	●	●
Lewinskya F. Lara, Garilleti & Goffinet (Orthotrichaceae)												
acuminata (H. Philib.) F. Lara, Garilleti & Goffinet (**70**)	DD-n 2009										●	
affinis (Schrad. ex Brid.) F. Lara, Garilleti & Goffinet	LC	●	●	●	●	●	●	●	●	●	●	●
fastigiata (Bruch ex Brid.) Vigalondo, F. Lara & Garilleti	DD–1913				○			○	○			
rupestris (Schleich. ex Schwagr.) F. Lara, Garilleti & Goffinet	LC	●	○	○	○	○		●	○	○	●	●
speciosa (Nees) F. Lara, Garilleti & Goffinet	LC	●	●	●	●		●	●	●	●	●	●
striata (Hedw.) F. Lara, Garilleti & Goffinet	LC	●	●	●	○			●	○	●	●	●
Loeskeobryum Broth. (Hylocomiaceae)												
brevirostre (Brid.) M. Fleisch.	LC	●		●	●			●	●	●	●	○
Meesia Hedw. (Meesiaceae)												
longiseta Hedw. (**71**)	RE								○			
triquetra (L. ex Jolycl.) Ångstr. (**72**)	CR	●			○				?			○
uliginosa Hedw.	LC	●	●	○				●	○			
Microbryum Schimp. (Pottiaceae)												
davallianum (Sm.) R. H. Zander (**73**)	DD-1912			○								
starckeanum (Hedw.) R. H. Zander (**74**)	DD-1913							○				
Microeurhynchium Ignatov & Vanderp. (Brachytheciaceae)												
pumilum (Wilson) Ignatov & Vanderp.	LC	○	●					○		●	●	●
Microhypnum Jan Kučera & Ignatov (Amblystegiaceae)												
sauteri (Schimp.) Jan Kučera & Ignatov	LC	●		○				●	○	○		○

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Mielichhoferia Nees & Hornsch. (Mniaceae)												
mielichhoferiana (Funck) Loeske (**75**)	DD-1893			○								
Mnium Hedw. (Mniaceae)												
hornum Hedw.	LC	●	○	●	●		●	●	●	●	●	●
lycopodioides Schwägr.	LC	●	●	●	●	●	●	●	●	●		
marginatum (Dicks.) P. Beauv. var. *marginatum*	LC	●	●	●	●	●	●	●	●	●	●	●
var. *dioicum* (C. Müll) Crundw.	LC			●	●			●	○	○	●	○
spinosum (Voit) Schwagr. (**76**)	LC	●	●	●		●		●				
spinulosum Bruch & Schimp.	LC	●	●	●	●			●	●	●		
stellare Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
thomsonii Schimp.	LC	●	●	●	●	●	●	●	●	●	●	
Molendoa (Müll. Hal.) Hampe (Pottiaceae)												
hornschuchiana (Hook.) Lindb. ex Limpr.	EN	●										
Myurella Bruch & Schimp. (Plagiotheciaceae)												
julacea (Schwägr.) Schimp.	LC	●	●	●	○			●	○			○
sibirica (Müll. Hal.) Reimers	LC	●	●	●				●	○		●	
tenerrima (Brid.) Lindb.	EN	●							○			
Neckera Hedw. (Neckeraceae)												
pennata Hedw.	LC	●	●	●	○			●	●	●	●	○
pumila Hedw.	LC	●	●	○	○	●		●	○	●	○	○
Nogopterium Crosby & W. R. Buck (Leucodontaceae)												
gracile (Hedw.) Crosby & W. R. Buck	LC							●	○		●	
Nyholmiella Holmen & E. Warncke (Orthotrichaceae)												
gymnostoma (Bruch ex Brid.) Holmen & E. Warncke (**77**)	DD-1891											○
obtusifolia (Brid.) Holmen & E. Warncke	LC	●	●		○		●	●	●	●	●	●
Oligotrichum DC. (Polytrichaceae)												
hercynicum (Hedw.) Lam. & DC. (**78**)	LC	●	●	●	●	●		?				
Oncophorus (Brid.) Brid. (Rhabdoweisiaceae)												
virens (Hedw.) Brid. (**79**)	LC	●	●	○				●	?			
Orthothecium Bruch & Schimp. (Plagiotheciaceae)												
chryseon (Schwägr.) Schimp. (**80**)	EN	●										
intricatum (Hartm.) Schimp.	LC	●	●	●	●	●		●	●	●	●	○
rufescens (Dicks. ex Brid.) Schimp.	LC	●	●	●	○	●	○	●	●	●	●	○
strictum Lorentz	LC	●						●				
Orthotrichum Hedw. (Orthotrichaceae)												
anomalum Hedw.	LC	●	●	●	○			●	●	●	●	●
cupulatum Brid. var. *cupulatum*	LC	●	●	●	○		○	●	●	●	●	○
var. *riparium* Huebener	DD–1910	○		○				○	○			○
diaphanum Brid.	LC	●	●	○	●			●	●	●	●	●
microcarpum De Not.	DD-1892							○				
pallens Bruch ex Brid.	LC	●	●	●	○		●	●	○	●	●	●
patens Bruch ex Brid.	LC	○	●	●	○			●	●			○
pulchellum Brunt. (**81**)	DD-1913							○				
pumilum Sw. ex anon.	LC	●	●	○	○	●	○	●	●	●	●	●
scanicum Grönvall	LC			○	○			○		●		○
schimperi Hammar	DD-1910	○		○	○				○			○
stellatum Brid.	NT	○	○		○			●	○			○
stramineum Hornsch. ex Brid.	LC	●	●	●	○	●	●	●	●	●	○	●
tenellum Bruch ex Brid. (**82**)	DD-n 2009										●	

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Oxyrrhynchium (Schimp.) Warnst. (Brachytheciaceae)												
hians (Hedw.) Loeske	LC	●	●	●	●	●	●	●	●	●	●	●
schleicheri (R. Hedw.) Röll	LC	●	●	●	●	●	●	●	●	●	●	●
speciosum (Brid.) Warnst.	LC	●		●		●		●	●	●	●	●
Palustriella Ochyra (Amblystegiaceae)												
commutata (Hedw.) Ochyra	LC	●	●	●	●	●	●	●	●	●	●	○
decipiens (De Not.) Ochyra	LC	●	●	●		●		●	●			
falcata (Brid.) Hedenäs	LC	●	●	○	○	●		●	●	●	●	
Paraleucobryum (Limpr.) Loeske (Dicranaceae)												
enerve (Thed.) Loeske	LC	●		○	●							
longifolium (Hedw.) Loeske	LC	●	●	●	○	●		●	●	●		○
sauteri (Bruch & Schimp.) Loeske	LC	●	●	●	○			●	●			
Pelekium Mitt. (Thuidiaceae)												
minutulum (Hedw.) Touw (**83**)									?			
Philonotis Brid. (Bartramiaceae)												
caespitosa Jur.	NT	●	●	●	●				●	●		○
calcarea (Bruch & Schimp. Schimp.	LC	●	●	●	○	●	●	●	●	●	●	○
capillaris Lindb.	NT	●	●	●	○	●			●	●	●	●
fontana (Hedw.) Brid.	LC	●	●	●	●	●		●	●	○	○	●
marchica (Hedw.) Brid.	NT			●	○		○		●		●	○
seriata Mitt.	EN	●		●	●							
tomentella Molendo	LC	●	●	●	○			○				
Physcomitrium (Brid.) Brid. (Funariaceae)												
euristomum Sendtn. subsp. *euristomum* (**84**)	DD-1910											○
subsp. *acuminatum* (Bruch & Schimp.) Giacom. (**85**)	DD-1891											○
patens (Hedw.) Mitt.	EN							●	●			●
pyriforme (Hedw.) Bruch & Schimp.	NT			○	○		●	●	○			
sphaericum (C. F. Ludw. ex Schkuhr) Brid. (**86**)	EN											●
Plagiomnium J. T. Kop. (Mniaceae)												
affine (Blandow ex Funck) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
cuspidatum (Hedw.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
elatum (Bruch & Schimp.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
ellipticum (Brid.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
medium (Bruch & Schimp. T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
rostratum (Schrad.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
undulatum (Hedw.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
Plagiopus Brid. (Bartramiaceae)												
oederianus (Sw.) H. A. Crum & L. E. Anderson	LC	●	●	●	○	●	○	●	●	●	●	○
Plagiothecium Bruch & Schimp. (Plagiotheciaceae)												
cavifolium (Brid.) Z. Iwats.	LC	●	●	●	●	●	●	●	●	●	●	●
curvifolium Schlieph. ex Limpr. (**87**)	LC	●	●	●	●	●	●	●	●			●
denticulatum (Hedw.) Schimp. var. *denticulatum*	LC	●	●	●	●		●	●	●	●	●	●
var. *obtusifolium* (Turner) Moore	LC		●	●	●	●		●	●			
var. *undulatum* R. Ruthe ex Geh.	LC	●		●				●	●	●		●
laetum Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
neckeroideum Schimp. (**88**)	EN								●			
nemorale (Mitt.) A. Jaeger	LC	●	●	●	●	●	●	●	●	●	●	●
piliferum (Sw.) Schimp. (**89**)	LC							●			●	
platyphyllum Mönk.	LC	●		●				●				●

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
succulentum (Wilson) Lindb.	LC	●	●	●	●	●		●	●	●		
undulatum (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	
Plasteurhynchium M. Fleisch. (Brachytheciaceae)												
meridionale (Schimp.) M. Fleisch. (**90**)	EN										●	
striatulum (Spruce) M. Fleisch.	LC	●	●	○	●		○	●	●	●	●	●
Platydictya Berk. (Plagiotheciaceae)												
jungermannioides (Brid.) H. A. Crum	LC	●	●	●	○			●	○	●	●	
Platygyrium Bruch & Schimp. (Callicladiaceae)												
repens (Brid.) Schimp.	LC	●	●	○	●	●	●	●	●	●	●	●
Platyhypnum Loeske (Amblystegiaceae)												
duriusculum (De Not.) Ochyra	VU			●	●	●						
molle (Dicks. ex Hedw.) Loeske (**91**)	DD-1848	○										
Pleuridium Rabenh. (Ditrichaceae)												
acuminatum Lindb.	LC			○	○	○	○	○	●	○	○	●
subulatum (Hedw.) Rabenh.	LC	●		○	○	○		○	●	○	●	●
Pleurozium Mitt. (Hylocomiaceae)												
schreberi (Willd. ex Brid.) Mitt.	LC	●	●	●	●	●	●	●	●	●	●	●
Pogonatum P. Beauv. (Polytrichaceae)												
aloides (Hedw.) P. Beauv.	LC	●	●	●	●	●	●	●	●	●	●	●
nanum (Hedw.) P. Beauv.	LC	●	●	○	○		○		○	○	●	○
urnigerum (Hedw.) P. Beauv.	LC	●	●	●	●	●	●	●	●	○	●	
Pohlia Hedw. (Mniaceae)												
andalusica (Höhn.) Broth. (**92**)	EN	●										
annotina (Hedw.) Lindb.	LC			○	●				○			○
bulbifera (Warnst.) Warnst. (**93**)	DD-1914			○								
cruda (Hedw.) Lindb.	LC	●	●	●				●	●			
drummondii (Müll. Hal.) A. L. Andrews	EN	●		○								
elongata Hedw. var. *elongata*	LC	○	●	●	●		●	●	○			●
var. *acuminata* (Hornsch.) Huebener	DD-1848	○	○									
greenii (Brid.) A. J. Shaw	LC	○	●	○								
lescuriana (Sull.) Ochi (**94**)	DD-1912	○		○					○			
longicolla (Hedw.) Lindb. (**95**)				?								
ludwigii (Spreng. ex Schwägr.) Broth. (**96**)		?										
lutescens (Limpr.) H. Lindb.	DD-1914				○				○			
melanodon (Brid.) A. J. Shaw	LC	●	○	○	○	●	○	○	●		●	●
nutans (Hedw.) Lindb.	LC	●	●	●	●		●	●	●	●		●
obtusifolia (Vill. ex Brid.) L. F. Koch	EN	●	○									
proligera (Kindb.) Lindb. ex Broth.	EN			●	○	●	○					
sphagnicola (Bruch & Schimp.) Broth. (**97**)	VU	●										
vexans (Limpr.) H. Lindb.	DD-1912	○		○								
wahlenbergii (F. Weber & D. Mohr)A. L. Andrews	LC	●	●	●	●	●	●	●	●	●	●	
Polytrichastrum G. L. Sm. (Polytrichaceae)												
alpinum (Hedw.) G. L. Sm.	LC	●	●	●	●			●	●			
sexangulare (Brid.) G. L. Sm.	VU	●										
Polytrichum Hedw. (Polytrichaceae)												
commune Hedw.	LC	●	●	●	●	●	●	●	●	●		
formosum Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
juniperinum Hedw.	LC	●	●	●	●		●	●	○	●	●	●
longisetum Sw. ex Brid.	LC	●		●	●			●	●	●		○

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
pallidisetum Funck (**98**)	EN									●		
perigoniale Michx.	LC	●		○	○							
piliferum Hedw.	LC	●	○	●	●	●		●	○	○	○	●
strictum Menzies ex Brid.	LC	●	●	●	●	●		●	●			
Pseudanomodon (Limpr.) Ignatov & Fedosov (Neckeraceae)												
attenuatus (Hedw.) Ignatov & Fedosov	LC	●	●	●	●	●	●	●	●	●	●	●
Pseudephemerum (Lindb.) I. Hagen (Ditrichaceae)												
nitidum (Hedw.) Loeske	DD-1908			○					○			○
Pseudoamblystegium Vanderp. & Hedenäs (Amblystegieaceae)												
subtile (Hedw.) Vanderp. & Hedenäs	LC	●	●	●	●	●		●	●	●	●	●
Pseudobryum (Kindb.) T. J. Kop. (Mniaceae)												
cincidioides (Huebener) T. J. Kop.	DD-1912	○		○								
Pseudocampylium Vanderp. & Hedenäs (Amblystegiaceae)												
radicale (P. Beauv.) Vanderp & Hedenäs	LC	●	●	●			●	●	●	●		●
Pseudocrossidium R. S. Williams (Pottiaceae)												
hornschuchianum (Schultz) R. H. Zander	DD-1912	○		○		○		○	○			○
revolutum (Brid.) R. H. Zander	LC	●							○		○	
Pseudohygrohypnum Kanda (Pylaisiaceae)												
eugyrium Kanda	LC			●	○	●		●	●		●	
fertile (Sendtn.) Jan Kučera & Ignatov	LC	●	●	○	○			○	○			○
Pseudoleskeella Kindb. (Pseudoleskeellaceae)												
catenulata (Brid. ex Schrad.) Kindb.	LC	●	●	●	○	●	●	●	●	●	●	●
nervosa (Brid.) Nyholm	LC	●	●	●	●	●	●	●	●	●	●	●
tectorum (Funck ex Brid.) Kindb. ex Broth. (**99**)	LC		●									
Pseudoleskeopsis Broth. (Leskeaceae)												
artariae (Thér.) Thér. (**100**)	EN										●	
Pseudoscleropodium (Limpr.) M. Fleisch. (Brachytheciaceae)												
purum (Hedw.) M. Fleisch.	LC	●	●	●	●	●	●	●	●	●	●	●
Pseudostereodon (Broth.) M. Fleisch. (Pylaisiaceae)												
procerrimus (Molendo) M. Fleisch. (**101**)	LC							●				
Pseudotaxiphyllum Z. Iwats. (Plagiotheciaceae)												
elegans (Brid.) Z. Iwats.	LC	●	●	●	●	●	●	●	●	●	●	●
Pterigynandrum Hedw. (Pterigynandraceae)												
filiforme Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
Pterygoneurum Jur. (Pottiaceae)												
ovatum (Hedw.) Dixon	EN			○					○		●	
subsessile (Brid.) Jur. (**102**)	DD-1912			○								
Ptilium De Not. (Pylaisiaceae)												
crista-castrensis (Hedw.) De Not.	LC	●	●	●	●	●		●	○	●	○	○
Ptychomitrium Fürnr. (Ptychomitriaceae)												
polyphyllum (Dicks. ex Sw.) Bruch & Schimp.	DD-1912			○								
Ptychostomum Hornsch. (Bryaceae)												
arcticum (R. Br.) J. R. Spence ex Holyoak & N. Pedersen	DD-1910	○										
capillare (Hedw.) Holyoak & N. Pedersen	LC	●	●	●	●	●		●	●	●	●	●
cernuum (Hedw.) Hornsch.	LC	●	●	●				●				
compactum Hornsch.	LC	●	●	○	○			●				○
creberrimum (Taylor) J. R. Spence & H. P. Ramsay	LC	●	●	●	●	●		●	●	○	●	○
demissum Hook.) Holyoak & N. Pedersen (**103**)	DD-1910	○										

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
elegans (Nees) D. Bell & Holyoak	VU	●	●	●	○			○	●		○	
funkii (Schwägr.) J. R Spence	DD-1911	○		○	○	○			○			
imbricatulum (Müll. Hal.)Holyoak & N. Pedersen	LC	●	●	●	●			●	●	●	●	●
inclinatum (Sw. ex Brid.) J. R. Spence	LC	●	●	●				●	○	●		
intermedium (Brid.) J. R. Spence	VU	●	●	●				●		○		
knowltonii (Barnes) J. R. Spence (**104**)	DD-1880			○								
kunzei (Hornsch.) J. R. Spence	DD-1912	●		○				●	○			
longisetum (Blandow ex Schwagr.) J. R. Spence (**105**)		?										
moravicum (Podp.) Ros & Mazimpaka	LC	●	●	●	○		●	●	●	●	○	●
pallens (Sw. ex anon.) J. R. Spence	LC	●	●	●	○	●		●	●	●		○
pallescens (Schleich. ex Schwagr.) J. R. Spence	LC	●	●	●	○	●		●	●		●	
pseudotriquetrum (Hedw.) Spence & Ramsay ex Holyoak & Pedersen var. *pseudotriquetrum*	LC	●	●	●	●	●		●	●	●	●	○
var. *bimum* (Schreb.) Holyoak & N. Pedersen	LC	●		○	○	●			○			○
rubens (Mitt.) Holyoak & N. Pedersem	DD-n		○	○					○			●
schleicheri (DC.) J. R. Spence ex D. Bell & Holyoak var. *schleicheri*	LC	●	○	●				○				
var. *latifolium* (Schwägr.) D. Bell & Holyoak	LC	○		●								
torquescens (Bruch & Schimp.) Ros & Mazimpaka	DD-1909							●		●	●	
turbinatum (Hedw.) J. R. Spence	DD-1913	○		○	○	○		○	○			○
weigelii (Biehler) J. R. Spence	DD-1912			○	○				○			
zieri (Hedw.) Holyoak & N. Pedersen	LC	●	●	●	○	○		●	○	●		
Pulvigera Plášek, Sawicki & Ochyra (Orthotrichaceae)												
lyellii (Hook. & Taylor) Plášek, Sawicki & Ochyra	LC	●	●	○	●	○		●	●	●	●	●
Pylaisia Schimp. (Pylaisiaceae)												
polyantha (Hedw.) Schimp.	LC	○	●	●	○	●	●	●	●	●	●	●
Racomitrium Brid. (Grimmiaceae)												
aciculare (Hedw.) Brid.	NT		●		●	●						
affine (F. Weber & D. Mohr) Lindb.	LC		●	●	●							
aquaticum (Brid. ex Schrad.) Brid.	LC		●	●	●	●		●	○			
canescens (Hedw.) Brid.	LC	●	●	●	●			●	○	●	●	○
elongatum Ehrh. ex Frisvoll	LC	●			●							
ericoides (Brid.) Brid.	LC	●	●	○	●		●	○	●		○	
fasciculare (Hedw.) Brid.	EN	○		●	●							
heterostichum (Hedw.) Brid.	LC			●	○	○						
lanuginosum (Hedw.) Brid. (**106**)	LC			●				●				
microcarpon (Hedw.) Brid.	EN		●		●							
sudeticum (Funck) Bruch & Schimp. (**107**)	LC			●	●							
Rhabdoweisia Bruch & Schimp. (Rhabdoweisiaceae)												
crenulata (Mitt.) H. Jameson (**108**)								?				
crispata (Dicks.) Lindb.	VU		●		●	●			●			
fugax (Hedw.) Bruch & Schimp.	LC	●	●	●	●	●	●		○			
Rhizomnium (Broth.) T. J. Kop. (Mniaceae)												
magnifolium (Horik.) T. J. Kop.	LC	●	●					●		●		
pseudopunctatum (Bruch & Schimp.) T. J. Kop.	LC	●	○	●	●			●				
punctatum (Hedw.) T. J. Kop.	LC	●	●	●	●	●	●	●	●	●	●	●
Rhodobryum (Schimp.) Limpr. (Bryaceae)												
ontariense (Kindb.) Kindb.	LC	●				●		●	●	●	●	
roseum (Hedw.) Limpr.	LC	●	●	○	●	●		●	●	●	●	
Rhynchostegiella (Schimp.) Limpr. (Brachytheciaceae)												
curviseta (Brid.) Limpr. (**109**)	EN			○							●	

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
tenella (Dicks.) Limpr.	LC	●		●	○			●	●	●	●	●
teneriffae (Mont.) Dirkse & Bouman	EN							●	●			○
Rhynchostegium Bruch & Schimp. (Brachytheciaceae)												
confertum (Dicks.) Schimp.	LC				○			●	●	●	●	
megapolitanum (Blandow ex F. Weber & D. Mohr Schimp.	LC							●			●	○
murale (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
riparioides (Hedw.) Cardot	LC	●	●	●	●	●	●	●	●	●	●	●
rotundifolium (Scop. ex Brid.) Schimp.	VU			○			○		●		●	○
Rhytidiadelphus (Limpr.) Warnst. (Hylocomiaceae)												
loreus (Hedw.) Warnst.	LC	●	●	●	●	●	●	●	●	●	●	●
squarrosus (Hedw.) Warnst.	LC	●	●	●	●	●	●	●	●	●	●	○
subpinnatus (Lindb.) T. J. Kop. (**110**)	DD-1942	○			○			○	○			
Rhytidium (Sull.) Kindb. (Rhytidiaceae)												
rugosum (Hedw.) Kindb.	LC	●	●	●	●		●	●	●	●	●	○
Roaldia P.E.A.S. Câmara & Carv.-Silva (Pylaisiaceae)												
dolomitica (Milde) Hedenäs, Schlesak & D. Quandt	LC	●	●									
revoluta (Mitt.) P.E.A.S. Câmara & M. Carvalho-Silva	LC	●	●	●								
Saelania Lindb. (Saelaniaceae)												
glaucescens (Hedw.) Broth. (**111**)	NT	○		●	○	○		●				
Sanionia Loeske (Scorpidiaceae)												
uncinata (Hedw.) Loeske	LC	●	●	●	●	●	○	●	●	●		○
Sarmentypnum Tuom. & T. J. Kop. (Calliergonaceae)												
exannulatum (Schimp.) Hedenäs (**112**)	LC	●	●	●	●		○		○			○
sarmentosum (Wahlenb.) Tuom. & T. J. Kop. (**113**)	EN	●										
Schistidium Bruch & Schimp. (Grimmiaceae)												
agassizii Sull. & Lesq. (**114**)	DD-1910	○										
apocarpum (Hedw.) Bruch & Schimp.	LC	●	●	●	●	●	●	●	●	●	●	○
atrofuscum (Schimp.) Limpr.	LC	●	●					●				
brunnescens Limpr. subsp. *brunnescens* (**115**)	EN	●						?	○			
subsp. *griseum* (Nees & Hornsch.) H. H. Blom	LC	●						●				
confertum (Funck) Bruch & Schimp.	LC	●	●	●	○	○		●	●			
crassipilum H. H. Blom	LC	●	●	●	●			●	●	●	●	
dupretii (Thér.) W. A. Weber	LC	●	●	●				●	●			
elegantulum H. H. Blom	LC	●	●	●				●	●	●	●	
flaccidum (De Not.) Ochyra	DD-1913			○				○				
helveticum (Schkuhr) Deguchi	NT							●			●	
lancifolium (Kindb.) H. H. Blom	LC	●	●	●	●							
papillosum Culm.	LC	●		●	●	●	●	●				
pruinosum (Wilson ex Schimp.) G. Roth (**116**)	LC			●								
rivulare (Brid.) Podp.	VU			○	●			●			●	
robustum (Nees & Hornsch.) H. H. Blom	LC	●	●	●	●			●	●	●	●	
sordidum I. Hagen (**117**)	LC	●										
trichodon (Brid.) Poelt	NT	●	●	●				●				
Schistostega D. Mohr (Schistostegaceae)												
pennata (Hedw.) F. Weber & D. Mohr	LC		●	○	●	●	●					
Sciuro-hypnum (Hampe) Hampe (Brachytheciaceae)												
curtum (Lindb.) Ignatov	LC	●	●	●	●	●	●	●	●	●	●	●
flotowianum (Sendtn.) Ignatov & Huttunen	LC	●	●	○	●		●	●	○	○	●	○
glaciale (Schimp.) Ignatov & Huttunen (**118**)	LC	●	●	○	●							

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
latifolium (Kindb.) Ignatov & Huttunen	VU	●		●				●				
ornellanum (Molendo) Ignatov & Huttunen	VU	●		○								
plumosum (Hedw.) Ignatov & Huttunen	LC	○	●	●	●	●	●	●	●		●	○
populeum (Hedw.) Ignatov & Huttunen	LC	●	●	●	●	●	●	●	●	●	●	●
reflexum (Starke) Ignatov & Huttunen	LC	●	●	●	●			●				
starkei (Brid.) Ignatov & Huttunen	LC	●	●	●	●	●	●	●	●	●	●	
Scleropodium Bruch & Schimp. (Brachytheciaceae)												
touretii (Brid.) L. F. Koch (**119**)								?				
Scopelophila (Mitt.) Lindb. (Pottiaceae)												
ligulata (Spruce) Spruce (**120**)	DD-1893			○								
Scorpidium (Schimp.) Limpr. (Scorpidiaceae)												
cossonii (Schimp.) Hedenäs (**121**)	LC	●	●	●	●			●	●	●	○	○
revolvens (Sw. ex anon.) Rubers (**122**)	CR	●										
scorpioides (Hedw.) Limpr.	LC	●						●	●	●		
Scorpiurium Schimp. (Brachytheieaceae)												
circinatum (Bruch) M. Fleisch & Loeske	LC							●	○		●	
sendtneri (Schimp.) M. Fleisch. (**123**)	EN										●	
Seligeria Bruch & Schimp. (Seligeriacee)												
calcarea (Hedw.) Bruch & Schimp. (**124**)	DD-1891								○			
carniolica (Breidl. & Beck) Nyholm (**125**)	DD-1884			○								
donniana (Sm.) Müll. Hal.	LC	●	●	○					●			
patula (Lindb.) I. Hagen	LC	●						○	○			
pusilla (Hedw.) Bruch & Schimp.	LC	●		●				●	●	●		○
trifaria (Brid.) Lindb.	LC	●		●				●	●			○
Serpoleskea (Limpr.) Loeske (Amblystegiaceae)												
confervoides (Brid.) Schimp.	LC	●	●	●		●		●	●	●	●	●
Sphagnum L. (Sphagnaceae)												
affine Renauld & Cardot (**126**)	DD-1915	○										
angustifolium (C. E. O. Jensen ex Russow) C. E. O. Jensen	LC	●	●	○	●		●		●			
auriculatum Schimp.	NT	●	●	●	●		○	●	●			●
capillifolium (Ehrh.) Hedw.	LC	●	●	●	●	●	●	●	●	○		●
centrale C. E. O. Jensen	NT	●	●	○	●			●	●	●		
compactum Lam. DC.	EN	○		●	○							
contortum Schultz	LC	●	●	●	●	○	○	●	●	●		●
cuspidatum Ehrh. ex Hoffm.	LC	●	●		●				●			●
divinum Flatberg & Hassel	LC	●	●						●			
fallax (H. Klinggr.) H. Klinggr.	LC	●	●		●		●	●	●	●		●
fimbriatum Wilson	EN			○					●			
flexuosum Dozy & Molk.	LC	●	●		●		●	●	●	○		●
fuscum (Schimp.) H. Klinggr.	VU	●	●		●							
girgensohnii Russow	LC	●	●	●	●	●	●	●	●			
inundatum Russow.	VU	●	●		●				●			●
majus (Russow) C. E. O. Jensen	EN	●			●							
medium Limpr.	VU	●			●							
palustre L.	LC	●	●	●	●		●	●	●	●		●
papillosum Lindb. (**127**)	NT	●			●				●			
platyphyllum (Lindb. ey Braith.) Warnst.	VU	●	●	●	○			●	●	●		●
quinquefarium (Braithw.) Warnst.	LC	●	●	●	●	○	●	●	●	●		
riparium Ångstr. (**128**)	CR				●							
rubellum Wilson	NT	●	●		●			○	●			

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
russowii Warnst.	LC	●	●	●	●	●	●		●			●
squarrosum Crome	LC	●	●	○	●	●	●	●	●			
subnitens Russow & Warnst.	LC	●	●	●	●	●	●	●	●	●		●
subsecundum Nees	LC	●	●	○	●			●	●	●	○	●
tenellum (Brid.) Pers. ex Brid.	VU	●			●				●			
teres (Schimp.) Ångstr.	EN	●	●		●		●		○	○		○
warnstorfii Russow	VU	●			●	○				○		
Splachnum Hedw. (Splachnaceae)												
ampullaceum Hedw. (**129**)	EN	●					○					
sphaericum Hedw.	EN	●	○	○								
Stegonia Venturi (Pottiaceae)												
latifolia (Schwagr.) Venturi ex Broth. var. *latifolia* (**130**)	DD-1910	○										
var. *pilifera* (Brid.) Broth.	DD-1910	○										
Stereodon (Brid.) Mitt. (Stereodontaceae)												
callichrous (Brid.) Lindb.	LC	●	●	○								
hamulosus (Schimp.) Lindb. (**131**)	DD-1893			○				?				
pratensis (W. D. J. Koch ex Spruce) Warnst.	NT	●			●	●			●	○		
Straminergon Hedenas (Calliergonaceae)												
stramineum (Dicks. ex Brid.) Hedenäs	LC	●	●		●			●	○			
Streblotrichum P. Beauv. (Pottiaceae)												
convolutum P. Beauv.												
var. *convolutum*	LC	●	●	○	○			●	●		●	●
var. *commutatum* (Jur.) J. J. Amann	VU	●						○	●			
enderesii (Garov.) Loeske	LC	○			○			●	○		○	
Syntrichia Brid. (Pottiaceae)												
fragilis (Taylor) Ochyra (**132**)	DD-1913										○	
laevipila Brid.	VU	●									●	
latifolia (Bruch ex Hartm.) Huebener	EN							○	○	●		○
montana Nees	LC	●	●	○	○	○		●	●	●	●	
norvegica F. Weber	LC	●	●	●				●	●			
papillosa (Wilson) Jur.	LC	●	●		●			●	●	●	●	●
ruralis (Hedw.) F. Weber & D. Mohr	LC	●	●	●	○	●	●	●	●	●	●	●
sinensis (Müll. Hal.) Ochyra (**133**)	DD-1842	○										
virescens (De Not.) Ochyra	DD-1908								○			○
Taxiphyllum M. Fleisch (Taxiphyllaceae)												
wissgrillii (Garov.) Wijk & Margad.	LC	●	●	●	●	●	●	●	●	●	●	●
Tayloria Hook. (Splachnaceae)												
froelichiana (Hedw.) Mitt. ex Broth.	LC	●	●	○								
lingulata (Dicks.) Lindb.	DD-1910	○										
serrata (Hedw.) Bruch & Schimp.	LC	●	●	○								
splachnoides (Schleich. ex Schwägr.) Hook. (**134**)	DD-1848	○										
Tetraphis Hedw. (Tetraphidaceae)												
pellucida Hedw.	LC	●	●	●	●	●	●	●	●	●	●	●
Tetraplodon Bruch & Schimp. (Splachnaceae)												
mnioides (Hedw.) Bruch & Schimp. (**135**)	EN	●										
Tetrodontium Schwägr. (Tetraphidaceae)												
brownianum (Dicks.) Schwägr. (**136**)	DD-1908				○							
Thamnobryum Nieuwl. (Neckeraceae)												
alopecurum (Hedw.) Gangulee	LC	●	●	●	●	●	●	●	●	●	●	○

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Thuidium Bruch & Schimp. (Thuidiaceae)												
assimile (Mitt.) A. Jaeger	LC	●	●	●	●	●	●	●	●	●	●	●
delicatulum (Hedw.) Schimp.	LC	●	●	●	●	●		●	●	●	●	●
recognitum (Hedw.) Lindb.	LC	●	●	●	●		●	●	●	●	●	●
tamariscinum (Hedw.) Schimp.	LC	●	●	●	●	●	●	●	●	●	●	●
Timmia Hedw. (Timmiaceae)												
austriaca Hedw.	LC	●	●	●				●				
bavarica Hessl.	LC	●	●	●				●				
norvegica J. E. Zetterst.	LC	●	●	●				●		●		
Timmiella (De Not.) Limpr. (Timmiellaceae)												
anomala (Bruch & Schimp.) Limpr. (**137**)	EN										●	
Tomenthypnum Loeske (Amblystegiaceae)												
nitens (Hedw.) Loeske	NT	●	●		●		●	●	●	●		○
Tortella (Müll. Hal.) Limpr. (Pottiaceae)												
densa (Lorentz & Molendo) Crundw. & Nyholm	LC	●	●	●	●?			●	●			
fasciculata (Culm.) Culm. (**138**)									?			
fragilis (Drumm.) Limpr.	LC	●	●	●				●		?	●	
humilis (Hedw.) Jenn. (**139**)	VU							?			●	
inclinata (R. Hedw.) Limpr.	LC	●	●	○	○	○	●	●	●	●	●	
inflexa (Bruch) Broth. (**140**)	EN										●	
nitida (Lindb.) Broth.	LC	●		○					○		●	
pseudofragilis (Ther.) Köckinger & Hedenäs (**141**)	LC	●										
squarrosa (Brid.) Limpr.	LC				○				●	●	●	●
tortuosa (Hedw.) Limpr.	LC	●	●	●	●	●	●	●	●	●	●	●
Tortula Hedw.(Pottiaceae)												
acaulon (With.) R. H. Zander var. *acaulon*	LC			○	○			●	●	○		●
var. *pilifera* (Hedw.) R. H. Zander	DD-1891			○					○			
atrovirens (Sm.) Lindb. (**142**)	DD-1912			○								
canescens Mont.	DD-1913				○	○					○	
caucasica Broth.	DD-1913	○		○	○		○	○	○			○
cernua (Huebener) Lindb. (**143**)	RE	○										
hoppeana (Schultz) Ochyra	LC	●	●	●								
inermis (Brid.) Mont.	VU					○		●			●	
laureri (Schultz) Lindb. (**144**)	DD-1910	○										
lindbergii Broth.	LC			○	○	○	○	●	○	●	●	○
mucronifolia Schwägr.	LC	●	○	●								
muralis Hedw. subsp. *muralis*	LC	●	●	●	●			●	●	●	●	●
var. *aestiva* Hedw.	LC			○	●				●	○	●	○
protobryoides R. H. Zander	LC			○		○			○		●	○
schimperi M. J. Cano, O. Werner & J. Guerra	EN		●		○			●				
subulata Hedw.	LC	●	●	●	○	●	●	●	●	●	●	●
truncata (Hedw.) Mitt.	LC	○		○	●				●	●		●
Trematodon Michx. (Bruchiaceae)												
ambiguus (Hedw.) Hornsch.	DD-1915				○		○		○	○		○
Trichodon Schimp. (Ditrichaceae)												
cylindricus (Hedw.) Schimp. (**145**)	LC			○	○	●			○		●	●
Trichostomum Bruch (Pottiaceae)												
brachydontium Bruch	LC	●		○	○			●	○	●	●	○
crispulum Bruch	LC	●		○	○		○	●	●	●	●	○

	SLO RED LIST	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
Ulota D. Mohr (Orthotrichaceae)												
bruchii Hornsch. ex Brid.	LC	○	●	○	●	●	●	●	●	●		○
coarctata (P. Beauv.) Hammar	LC			○	○		○	●	○			○
crispa (Hedw.) Brid.	LC	●	●	●	●	●	●	●	●	●	●	
crispula Bruch	LC	●	●	●	○	●		●	●	○	●	○
hutchinsiae (Sm.) Hammar	LC		○	○	○			○	●			
intermedia Schimp.	LC	○	●	○	○		●	○	●	○		○
Warnstorfia Loeske (Calliergonaceae)												
fluitans (Hedw.) Loeske	NT	●	●		●			●	○		○	
pseudostraminea (Müll. Hal.) Tuom. & T. J. Kop. (**146**)	RE								○			
Weisia Hedw. (Pottiaceae)												
brachycarpa (Nees & Hornsch.) Jur.	LC	●		○	○	●		●	●	●	●	○
condensa (Voit) Lindb.	LC	○		○	○	●		○	●	●	●	○
controversa Hedw. var. *controversa*	LC	●	●	●	●	●	●	●	●	●	●	
var. *crispata* (Nees & Hornsch.) Nyholm	LC	○	●	○	○			○	○		●	
levieri (Limpr.) Kindb. (**147**)	DD-1914								○			
longifolia Mitt.	NT			○	○		○	●	○		●	○
rostellata (Brid.) Lindb.	DD-1914										○	○
rutilans (Hedw.) Lindb.	DD-1901			○	○				○	○	○	○
squarrosa (Nees & Hornsch.) Müll. Hal.	EN										●	●
wimmeriana (Sendtn.) Bruch & Schimp.	LC	●	●	○	○			●	○		○	○
Zygodon Hook & Taylor (Orthotrichaceae)												
rupestris Schimp. ex Lorentz (**148**)	LC	●	●	○	○			●	●	●	●	

Annotations

1 Only reported by Głowacki (1910) for the Soča valley between the town Tolmin and the town Most na Soči.

Edina navedba je za dolino reke Soče med Tolminom in Mostom na Soči (Głowacki 1910).

2 Pavletić (1955: 170) misquotes the species for the Julian Alps, since this was not mentioned by the cited authors (Breidler, Glowacki). The report that the species thrives at Luče (Reichardt 1861), is based on misinterpretation, according to Głowacki (1912: 44). The only reliable locality is Smrekovec (Wallnöfer, 1888: 54).

Pavletić (1955: 170) napačno navaja vrsto za Julijske Alpe, saj citirana avtorja (Breidler, Głowacki) tega nikjer ne omenjata. Navedba, da uspeva vrsta pri Lučah (Reichardt 1861), temelji po mnenju Glowackega (1912: 44) na zamenjavi. Edino zanesljivo nahajališče je Smrekovec (Wallnöfer, 1888: 54).

3 The only locality is AJ-Na Jezerih pod Rokavi. LJU: leg. T. Wraber 1967, det. S. Grom.

Edino nahajališče je v AJ-Na Jezerih pod Rokavi. LJU: leg. T. Wraber 1967, det. S. Grom.

4 The only locality is Leskovec in the Kokra valley, as reported by S. Robič (Flora Exs. Austro-Hungarica No. 1514 leg. Robič; Robič, 1893).

Edino nahajališče je Leskovec v dolini reke Kokre (Fl. Exs. Austro-Hungarica No. 1514 leg. S. Robič; Robič, 1893).

5 The report for PD-Kočevski Rog: Podsteniška koliševka (Accetto, 1995a) is considered uncertain since there are no herbarium specimens exist.

Navedba Accetta (1995a), da uspeva vrsta v PD-Kočevski Rog: Podsteniška koliševka je dvomljiva, ker manjka herbarijski material.

6 The only report was given for Orehek near Postojna; loc. class., leg. Wagner. Later on (after 1807) the species was no longer found on this site.

Edina navedba je Orehek pri Postojni; loc. class. Leg. Wagner. Kasneje (po letu 1807) vrsta ni bila več najdena na tem nahajališču.

7 The reports on the occurrence in DN-Trnovski gozd (Grom, 1969a) and PD-Kočevski Rog: Prelesnikova

količevka (Grom, 1969b) are considered doubtful, as they are not supported by herbarium specimens.

Navedbi Groma, da uspeva vrsta v Trnovskem gozdu (1969a) in v Kočevskem Rogu: Prelesnikova količevka (1969b) sta dvomljivi, ker manjka herbarijski material.

8 The report for occurrence in DN-Trnovski gozd by Grom (1963b, 1969a) is doubtful, as the herbarium specimens are sterile.

Vrsto navaja Grom (1963b, 1969a) za Trnovski gozd. Navedba je dvomljiva, ker je herbarijski material sterilen.

9 The report for occurence in SM-Panovec near town Nova Gorica by Grom (1963b) is considered doubtful, as it is not supported by herbarium specimens.

Vrsto navaja Grom (1963b) za Panovec pri Novi Gorici. Navedba je dvomljiva, ker ni herbarijskega materiala.

10 The report for occurence in DN-Trnovski gozd: Trnovo by Grom (1963b, 1969a) is considered to be doubtful, as is not supported by herbarium specimens.

Vrsto navaja Grom (1963b, 1969a) za Trnovski gozd: Trnovo. Navedba je dvomljiva, ker ni herbarijskega materiala.

11 Only reported for the SP-Radvanje near town Maribor by Juratzka (1882 – leg. Breidler), Breidler (1891) and Głowacki (1908).

Navedena samo za Radvanje blizu Maribora (Juratzka, 1882, leg. Breidler; Breidler 1891; Glowacki 1908).

12 The report by Grom (1969a) in DN-Trnovski gozd: Jama pri Mali ledenici is excluded as it was erroneously determined.

Navedba Groma (1969a) za Trnovski gozd: v Jami pri Mali ledenici temelji na napačni determinaciji.

13 The report by Grom (1969a) for DN-Trnovski gozd is not supported by herbarium material and is to be considered doubtful.

Navedba Groma (1969a) za Trnovski gozd je dvomljiva, ker ni herbarijskega materiala.

14 The only reports refer to the town Piran (Sendtner, 1848, leg. Hornschuch) and to »Draga Orlek« (Juratzka, 1882, leg. Tommasini).

Edini navedbi sta Piran (Sendtne,r 1848, leg. Hornschuch) in Draga Orlek (Juratzka, 1882, leg. Tommasini).

15 Only reported by Martinčič (2020) for AJ-Ladra near the town Kobarid.

Edina navedba je za AJ-Ladra pri Kobaridu (Martinčič, 2020).

16 The only recent localities are in SP: Bolečka vas near town Majšperk (Strgulc Krajšek S & al. 2022, leg. Mlakar Medved, det. Ž. Lobnik Cimerman) and Črenšovci, at Hotiško jezero lake (Lobnik Cimerman Ž. & al. 2023) and in SM-between village Pregara and Abrami (S. Strgulc Krajšek & D. Kosič 2021).

Edina recentna nahajališča so v SP: Bolečka vas pri Majšperku (Strgulc Krajšek S. & al. 2022, leg. Mlakar Medved, det. Ž. Lobnik Cimerman) in Črenšovci, pri Hotiškem jezeru, ter v SM-med vasema Pregara in Abrami (S. Strgulc Krajšek & D. Kosič 2021).

17 Only reported by Lobnik Cimerman et al. (2023a) for SP-Prekmurje: Črenšovci – Dolnja Bistrica and Črenšovci – lake Hotiško jezero.

Edini navedbi sta za SP-Prekmurje: Črenšovci – Dolnja Bistrica in Črenšovci – Hotiško jezero (Lobnik Cimerman et al., 2023a)

18 An alien species in Europe. For the first time reported for Slovenia by Czücs & Bidlo A. (2014) for SP-Prekmurje: Hodoš.

Tujerodna mahovna vrsta v Evropi. Za Slovenijo jo prvič navajata Czücs & Bidlo (2014) za SP-Prekmurje: Hodoš.

19 Only reported by Lobnik Cimerman (2022) for AP-Trikotna jasa.

Edina navedba je za AP-Trikotna jasa (Lobnik Cimerman, 2022).

20 The species was found around 100 years ago in the Ljubljansko barje (reported by Juratzka, 1882, leg. Berroyer; Müllner, 1893) near Grmez (reported by Breidler mscr.) and near Bevke (reported by Paulin mscr.). Since the peat is destroyed in both localities, the species probably became extinct (Martinčič, 2016a).

Vrsta je bila najdena pred dobrimi sto leti na Ljubljanskem barju (Juratzka, 1882 leg. Berroyer; Müllner, 1893), na Ljubljanskem barju pri Grmezu (Breidler mscr. 1881–1901) in pri Bevkah (Paulin mscr.). Ker je barje na obeh lokacijah propadlo, je zelo verjetno, da je vrsta v Sloveniji izumrla (Martinčič, 2016a).

21 Only reported by Breidler (mscr. 1881–1901) for AS-Grintovec mountain.

Vrsta je navedena samo za AS-Grintovec (Breidler, mscr. 1881–1901).

22 The species was reported for PA-Ljubljanski grad by Grom (1966/1967). It is considered doubtful, as there are no herbarium specimens.
Vrsto navaja za PA-Ljubljanski grad Grom (1966/1967). Ker ni herbarijskega materiala je podatek dvomljiv.

23 Only reported by Martinčič (2020) for AJ-Mangartsko sedlo.
Vrsta je navedena samo za AJ-Mangartsko sedlo (Martinčič, 2020).

24 The only locality is in AS-near Mozirje (Breidler, 1891). The report on the occurence in AJ-Komna by Grom (1966) is based on erroneous identification. The report for DN-Trnovski gozd: Smrekova draga by Grom (1969a) is doubtful since there are no herbarium specimens available.
Edina navedba je za AS-pri Mozirju (Breidler, 1891). Navedba Groma za AJ-Komna (1966) temelji na napačni determinaciji, podatek za DN-Trnovski gozd: Smrekova draga (Grom, 1969a) pa je dvomljiv, ker ni herbarijskega materiala.

25 Only reported for PA-the bank of river Sava in town Kranj (leg. Krupička – Głowacki, 1910, 1912).
Navedena samo za PA-breg reke Save pri Kranju (leg. Krupička – Głowacki, 1910, 1912).

26 The species was reported for DN-Trnovski gozd: Smrekova draga by Grom (1969a). It is considered to be doubtful, as there are no herbarium specimens.
Vrsto navaja za DN-Trnovski gozd: Smrekova draga Grom (1969a). Ker ni herbarijskega materiala, je podatek dvomljiv.

27 The species was reported for AJ-Komna by Grom (1966). It is considered to be doubful, as there are no herbarium specimens.
Vrsto navaja za AJ-Komna Grom (1966). Ker ni herbarijskega materiala je podatek dvomljiv.

28 Only reported for the SM-between Piran and Portorož by Sabovljević M. & Sabovljević A. (2009).
Navedena samo za SM-med Piranom in Portorožem (Sabovljević M. & Sabovljević A., 2009).

29 Only reported by Lobnik Cimerman (2022) for AP-south from Lovrenška jezera lakes.
Navedena samo za AP-južno od Lovrenških jezer (Lobnik Cimerman, 2022).

30 The only site is the AJ-Možnica valley near the town Bovec, as reported by Sendtner (1848, leg. Papperitz). According to Głowacki (1910), the record is doubtful for a phytogeographical reason, as the species is an atlantic element.
Edino nahajališče je AJ-dolina Možnica blizu Bovca (Sendtner, 1848, leg. Papperitz). Głowacki (1910) dvomi v pravilnost podatka. Najdba ni verjetna iz fitogeografskih razlogov, saj gre za atlantsko vrsto.

31 Only reported by Martinčič (2020) for PD-Polom near village Hinje, and by Lobnik Cimerman et al. (2023b) for PA-Ljubljana, Šentviški hrib.
Edini navedbi sta za PD-Kočevsko: Polom pri Hinju (Martinčič, 2020) in za PA-Ljubljana, Šentviški hrib (Lobnik Cimerman et al., 2023b).

32 The report on the occurrence in AJ-Rdeča skala at Mangart mountain (Martinčič, 2015) is based on erroneous determination.
Navedba za AJ-Rdeča skala pri Mangartu (Martinčič, 2015) temelji na napačni determinaciji.

33 Only reported for Mangart mountain by Sendtner (1848) and Martinčič (LJU 1970).
Naveden samo za Mangart (Sendtner, 1848; Martinčič, LJU 1970).

34 Only reported by Sabovljević et al. (2017) for PA-Ljubljana town, Murgle at Mali graben.
Naveden samo za PA-Ljubljano: Murgle, ob Malem grabnu (Sabovljević et al., 2017).

35 Only reported for the SM-between Piran and Portorož by Sabovljević M. & Sabovljević A. (2009).
Naveden samo za SM-med Piranom in Portorožem (Sabovljević M. & Sabovljević A., 2009).

36 The report for AJ-Mangart by Grom (1963b) is uncertain, because there are no herbarium specimens.
Navedba Groma (1963b) za AJ-Mangart je dvomljiva, ker ni herbarijskega materiala.

37 The only site is AJ-the surroundings of the Bohinj Lake, as reported by Kuc (1967).
Edino nahajališče je ob AJ-Bohinjskem jezeru (Kuc, 1967).

38 The species was found on the AJ-Črna prst mountain (locus class., leg. F. Müller 1826). After 1826, the species was no longer found on this locality. The only

recent locality in Slovenia is on the AK-Stol mountain (Martinčič, 2020).

Vrsta je bila odkrita na AJ-Črni prsti (locus class., leg. F. Müller 1826). Kasneje (po letu 1826) vrsta ni bila več najdena na tem nahajališču. Edino recentno nahajališče v Sloveniji je na AK-Stol (Martinčič, 2020).

39 Only reported for the AJ-Stenar mountain by Grom (1968, rev. A. Martinčič).

Navedena samo za AJ-Stenar (Grom, 1968, rev. A. Martinčič).

40 The report by Grom (1963b) for SM-near Sežana, not being supported by herbarium specimens, is doubtful.

Navedba Groma za SM-pri Sežani (1963b) je dvomljiva, ker ni herbarijskega materiala.

41 Only recent reported by Lobnik Cimerman et al. (2023) for SP-Prekmurje: Beltinci, S from town Dokležovje. Formerly reported also for the PA-Ljubljana, Mestni log in the clay excavation area behind the brickwork plant (Juratzka, 1882, leg. Deschmann). But now is area urbanized and the species on this site is probably extinct.

Recentna navedba je samo SP-Prekmurje: Beltinci, južno od naselja Dokležovje (Lobnik Cimerman et al., 2023). Nekdaj navedena tudi za PA-Ljubljana, Mestni log, v jamah takratne opekarne (Juratzka, 1882, leg. Deschmann). Danes je predel povsem urbaniziran, zato je povsem verjetno, da je vrsta na tem rastišču izumrla.

42 The reports in the literature (Breidler, 1891; Głowacki, 1908; Robič, 1893) for *E. serratum* (Schreb.) Hampe probably belong to *E. stoloniferum*. However not being confirmed by herbarium specimens reports are considered uncertain.

Navedbe v literaturi (Breidler, 1891; Głowacki, 1908; Robič, 1893) za vrsto *E. serratum* (Schreb.) Hampe se verjetno nanašajo na vrsto *E. stoloniferum* (Hedw.) L.T. Ellis & M.J. Price in ne na *E. serratum* (Hedw.) Hampe. Ker pa ni na razpolago herbarijskega materiala, ostaja ta problem odprt.

43 The only indication refers to the Gorenjska region (Müllner, 1893). Doubtful report.

Edina navedba za Slovenijo je »Gorenjska« (Müllner, 1893). Dvomljiva navedba.

44 There is only a general information for Trnovski gozd and Idrija by Giacomini (1950) on the present territory of Slovenia. Doubtful report.

Za današnje ozemlje Slovenije obstaja samo splošna navedba »območje Trnovskega gozda in Idrije« (Giacomini, 1950). Dvomljiva navedba.

45 Only reported for the SP-in river Dravinja near Makole by Martinčič (2018).

Navedena samo za SP-v reki Dravinji pri Makolah (Martinčič, 2018).

46 The report by Grom (1968) for DN-cave Pivka jama near town Postojna, not being supported by herbarium specimens, is doubtful.

Navedba Groma (1968) za DN-Pivka jama pri Postojni je dvomljiva, ker ni herbarijskega materiala.

47 The report by Grom (1969a) for DN-Trnovski gozd, not being supported by herbarium specimens, is doubtful.

Navedba Groma (1969a) za DN-Trnovski gozd je dvomljiva, ker ni herbarijskega materiala.

48 The only site SM-Panovec near the town Nova Gorica is reported by Grom (1968, rev. A. Martinčič)

Edino nahajališče je SM-Panovec pri Novi Gorici (Grom, 1968, rev. A. Martinčič).

49 The only report – DN-Rakov Škocjan by Grom (1963b) is doubtful for a phytogeographical reason (Mediterranean species) and because it is not supported with herbarium specimens.

Edina navedba – DN-Rakov Škocjan (Grom, 1963b) je dvomljiva ker ni herbarijskega materiala in gre za mediteransko vrsto.

50 Due to the melioration of the river bed on the site of species, DN-the spring of Marija Magdalena near Cerknica (herbarium Šafer in LJU, Głowacki, 1913, leg. Šafer) the species is most probably extinct since it were not found, despite an extensive search.

Zaradi meliorirane struge je vrsta na rastišču DN-studenec Marije Magdalene pri Cerknici (herbarij Šafer v LJU, Głowacki, 1913, leg. Šafer) verjetno propadla, saj je kljub skrbnemu iskanju nismo našli.

51 Only reported for AJ-Rdeča skala at Mangart mountain by Sendtner (1848, 1857), Głowacki (1910), Martinčič (2021).

Navedena samo za Rdečo skalo pri Mangartu (Sendtner 1848, 1857; Głowacki 1910; Martinčič 2021).

52 Only reported by Sendtner (1848, leg. Papperitz) for SM-Škocjan near Divača.

Navedena samo za SM-Škocjan pri Divači (Sendtner, 1848, leg. Papperitz).

53 The only site is DN-Mali Mošenik near village Ajbelj (Martinčič LJU 2002).
Edino nahajališče je DN-Mali Mošenik pri vasi Ajbelj (Martinčič LJU 2002).

54 Only reported by Głowacki (1908) for AP-Jagerske peči near Oplotnica.
Navedena samo za AP-Jagerske peči pri Oplotnici (Głowacki, 1908).

55 The only site is near AP-Slovenska Bistrica (Martinčič LJU 1995).
Edino nahajališče je pri AP-Slovenski Bistrici (Martinčič LJU 1995).

56 The only site is near AP-Sv. Lovrenc na Pohorju (LJU, leg. F. Dolšak 1938, det. A. Martinčič).
Edino nahajališče je nad AP-Sv. Lovrencem na Pohorju (LJU, leg. F. Dolšak 1938, det. A. Martinčič)

57 The only site as reported by Grom as G. calcareum var. viridulum (1963b, det. Z. Pilous) is the SM-Škocjanske jame cave near Divača.
Edino nahajališče so SM-Škocjanske jame pri Divači (Grom, 1963b, det. Z. Pilous).

58 The only locality is in the town AJ-Bovec (Düll, 1999). The reports by Grom (1968) for AJ-Zadnja Trenta and DN-near Idrija were excluded since they were erroneously identified.
Edino nahajališče je v kraju AJ-Bovec (Düll, 1999). Navedbe Groma (1968) za Zadnjo Trento in pri Idriji temeljijo na napačni determinaciji.

59 Only reported by Breidler (1891) for AS-Brezje near Mozirje.
Navedena samo za AS-Brezje pri Mozirju (Breidler, 1891).

60 Only reported by Lobnik Cimerman et al. (2023a) for SP-Prekmurje: Beltinci S from town Dokležovje.
Naveden samo za SP-Prekmurje: Beltinci, južno od Dokležovja (Lobnik Cimerman et al., 2023a).

61 The report for DN-Rakov Škocjan near Rakek by Grom (1963b) was excluded since the material was erroneously identified.
Navedba Groma (1963b) za DN-Rakov Škocjan pri Rakeku temelji na napačni determinaciji.

62 The reports for AJ by Grom (1963a, 1966) were excluded since the specimens were erroneously identified.
Navedbe Groma (1963a, 1966) za AJ temeljijo na napačnih determinacijah.

63 The only site in PA-near Radovljica (Matouscheck, 1901, leg. Müllner) is doubtful for ecological reasons.
Edino nahajališče v PA je pri Radovljici (Matouschek, 1901, leg. Müllner), vendar je iz ekoloških razlogov podatek dvomljiv.

64 The report for SM-Lijak near the town Nova Gorica by Grom (1963a) is uncertain since it was not supported by herbarium specimens.
Navedba Groma (1963a) za SM-Lijak pri Novi Gorici je dvomljiva, ker ni herbarijskega materiala.

65 The species was reported only for AK-Belščica mountain (Paulin, mscr.).
Vrsta je navedena samo za AK-Belščico (Paulin, mscr.).

66 Only reported by Lobnik Cimerman (2022) for AP-between Rogla mountain and Lovrenška jezera lakes. The report is doubtful.
Navedena samo za AP-med Roglo in Lovrenškimi jezeri (Lobnik Cimerman, 2022). Navedba je dvomljiva.

67 The data on DN-Trnovski gozd: Smrekova draga (Grom, 1969a) and AJ-Bohinj (Grom, 1966) were excluded, since erroneous identification.
Podatki za DN-Trnovski gozd: Smrekova draga (Grom, 1969a) in AJ-Bohinj (Grom, 1966) so izločeni, ker temeljijo na napačni determinaciji.

68 The reports by Grom for AJ-Kot valley (1968) and for DN-Trnovski gozd: Smrekova draga (1969a) are to be considered as uncertain because there are no herbarium specimens.
Navedbe Groma za AJ-Kot (1968) in za DN-Trnovski gozd: Smrekova draga (1969a) so dvomljive, ker ni herbarijskega materiala.

69 The report by Grom (1969a) for DN-Trnovski gozd: Velika ledenica is excluded because the material was erroneously identified.
Navedba Groma (1969a) za DN-Trnovski gozd: Velika ledenica temelji na napačni determinaciji.

70 Only reported for SM-surroundings of Škocjanske jame by Müller (2009).

Navedena samo za SM-okolica Škocjanskih jam (Müller, 2009).

71 It was reported from a few localities on boggy sites on the PA-Ljubljansko barje (Głowacki, 1913; Paulin, 1915). Since there is no moor anymore, it is believed, that the species became extinct (Martinčič, 2016a).
Na več mestih na barju na Ljubljanskem barju (Głowacki, 1913; Paulin, 1915). Ker je barje povsod propadlo, menimo, da je vrsta v Sloveniji izumrla (Martinčič, 2016a).

72 In PA it was reported in few localities on boggy sites in the Ljubljansko barje (Deschmann, 1858; Müllner, 1893; Pokorny, 1858). Since there is no moor anymore, it is believed that the species became extinct (Martinčič, 2016a).
Zaradi propada barja na Ljubljanskem barju vrste v PA zelo verjetno ni več (Martinčič, 2016a).

73 The only record refers to AS-Sela near Kamnik (herb. Šafer LJU, Głowacki, 1912, leg. Šafer).
Navedena samo za AS-Sela pri Kamniku (herb. Šafer LJU, Głowacki, 1912, leg. Šafer).

74 The only record is in DN-Solzno near Grahovo near the Cerknica Lake (herb. Šafer, Głowacki, 1913, leg. Šafer).
Edina navedba je DN-Solzno pri Grahovem ob Cerkniškem jezeru (herb. Šafer LJU, Głowacki, 1913, leg. Šafer).

75 Only reported by Robič (1893) for AS-Kokra river valley.
Navedena samo za AS-dolina Kokre (Robič, 1893).

76 The data given by Grom (1966/1967) for PA-Ljubljana castle is based on erroneous determination.
Podatek Groma (1966/1967) za PA-Ljubljanski grad temelji na napačni determinaciji.

77 Only reported by Breidler (1891) for SP-Šturmovci near town Ptuj.
Edina navedba so SP-Šturmovci pri Ptuju (Breidler, 1891).

78 The report for DN-Trnovski gozd: Smrekova draga by Grom (1969a) is doubtful, since no herbarium specimens exist.
Navedba za DN-Trnovski gozd: Smrekova draga (Grom, 1969a) je dvomljiva, ker ni herbarijskega materiala.

79 The report for PA-the surroundings of Dobrna by Reichardt (1860) is doubtful for ecological reasons.
Navedba za PA-okolica Dobrne (Reichardt, 1860) je dvomljiva iz ekoloških razlogov.

80 The reports for DN-Trnovski gozd: Velika ledenica (Grom, 1969a) and Slovensko Primorje (Slovenian littoral) (Grom, 1967) are based on erroneous identifications.
Podatka za DN-Trnovski gozd: Velika ledenica (Grom, 1969a) in Slovensko Primorje (Grom, 1967) temeljita na napačnih determinacijah.

81 The only report is DN-Kamna Gorica near Grahovo near Cerknica lake (herb. Šafer; Głowacki, 1913, leg. Šafer).
Edina navedba je DN-Kamna Gorica pri Grahovem ob Cerkniškem jezeru (Šafer herb. 1887; Głowacki, 1913, leg. Šafer).

82 Only reported by Müller (2009) for SM-surroundings of Škocjanske jame caves near Divača.
Navedena samo za SM-okolico Škocjanskih jam pri Divači (Müller, 2009).

83 The report for PA-surroundings of Dobrna by Reichardt (1860) is doubtful (Breidler (1891), because there are no herbarium specimens. The report by Grom (1963b) for SM-Panovec near Nova Gorica town is based on the erroneous determination.
Navedba Reichardta (1860) za PA-okolica Dobrne je po mnenju Breidlerja (1891) dvomljiva, ker ni herbarijskega materiala. Navedba Groma (1963b) za SM-Panovec pri Novi Gorici temelji na napačni determinaciji.

84 The only site is SP-Maribor: Stražun (leg. Glowacki, 1910, Suanjak, 2002).
Edina navedba je SP-Maribor: Stražun (leg. Głowacki 1910, Suanjak, 2002).

85 Only reported by Breidler (1891, leg. Krupička) for SP-near the town of Ptuj.
Edina navedba je za SP-pri Ptuju (Breidler, 1891, leg. Krupička).

86 The only site is SP-Murska šuma forest (LJU, leg. L. Kutnar, det. A. Martinčič).
Edino nahajališče je Murska šuma (LJU, leg. L. Kutnar, det. A. Martinčič).

87 All reports given by Grom are based on erroneous identifications: AJ (1966, 1967, 1968), AP (1966, 1968), DN (1968, 1969a), PA (1966, 1968).
Vse navedbe Groma temeljijo na napačni determinaciji: AJ (1966, 1967, 1968), AP (1966, 1968), DN (1968, 1969a), PA (1966, 1968).

88 The only locality is PA-between the Tuhinjska valley and Črni graben (LJU, leg. M. Wraber, det. A. Martinčič). The report given by Grom (1968) for PA-Davča in Selška dolina valley is based on an erroneous determination.
Edino nahajališče je v PA-med Tuhinjsko dolino in Črnim grabnom (LJU, leg. M. Wraber, det. A. Martinčič). Podatek Groma (1968) za PA-Davča v Selški dolini temelji na napačni determinaciji.

89 The report by Martinčič (2010) for AZ-Košenjak, near the village Vič is based on erroneous determination.
Navedba Martinčiča (2010) za AZ-Košenjak: pri vasi Vič temelji na napačni determinaciji.

90 The reports for DN (Grom, 1963b, 1969a) were based on erroneous determinations.
Navedbe za DN (Grom, 1963b, 1969a) temeljijo na napačnih determinacijah.

91 The only site is AJ-Mangart mountain, as reported by Sendtner (1848).
Edino nahajališče je AJ-Mangart (Sendtner, 1848).

92 The only site is AJ-Na jezeru pod Rokavi as reported by Martinčič (2020, leg. T. Wraber, det. A. Martinčič;).
Edino nahajališče je AJ-Na Jezeru pod Rokavi (leg. T. Wraber, det. A. Martinčič; Martinčič, 2020).

93 Only reported by Głowacki (1912) for AS-Sv. Primož above Ljubno.
Navedena samo za AS-Sv. Primož nad Ljubnim (Glowacki, 1912).

94 The reports by Breidler (1891: 123–124) under the name Webera pulchella refer to *Pohlia lutescens* according Głowacki (1914: 180).
Navedbe Breidlerja (1891:123–124) pod imenom Webera pulchella (Hedw.) Schimp. se po Głowackem (1914: 180) nanašajo na vrsto *P. lutescens*.

95 The only site is AS-Šenturška gora (herb. Robič, LJU; Głowacki, 1912, leg. Robič). The record is doubtful because of low altitude and calcareous bedrock (conf. Głowacki, 1912: 131).
Edino nahajališče je AS-Šenturška gora pri Kamniku (herb. Robič, LJU; Głowacki, 1912, leg. Robič). Dvomljiva navedba zaradi nizke nadmorske višine in karbonatne podlage (prim. Głowacki, 1912: 131).

96 The report by Grom (1963b) for AJ-Plužna at Bovec is uncertain because there are no herbarium specimens.
Navedba Groma (1963b) za AJ-Plužna pri Bovcu je dvomljiva, ker ni herbarijskega materiala.

97 The only site is AJ-Pokljuka: peat bog Šijec as reported by Martinčič (LJU 1973 leg. Martinčič; Martinčič 2016b).
Edino nahajališče je AJ-Pokljuka: barje Šijec (LJU 1973 leg. Martinčič; Martinčič (2016b).

98 The report for DN-Trnovski gozd: Trnovo by Grom (1963b) is based on erroneous determination.
Navedba Groma (1963b) za DN-Trnovski gozd: Trnovo temelji na napačni determinaciji.

99 Only reported by Piskernik (1977, det. Martinčič) for AK-Mozganov vrh.
Edina navedba je AK-Mozganov vrh (Piskernik, 1977, det. A. Martinčič).

100 The only site is SM-Portorož as reported by Pavletić & Grom (1958).
Edino nahajališče je SM-Portorož (Pavletić & Grom, 1958).

101 The only site is DN-Snežnik mountain as reported by Ginzberger (1909, det J. Baumgartner) and Martinčič (2017).
Edino nahajališče je DN-Snežnik (Ginzberger, 1909, det. J. Baumgartner; Martinčič 2017).

102 The only record is AS-Sela near town Kamnik (herb. Šafer LJU, Głowacki, 1912, leg. Šafer).
Naveden samo za AS-Sela pri Kamniku (herb. Šafer LJU, Głowacki, 1912, leg. Šafer).

103 The only reliable report is AJ-Male Špice – Mangart by Głowacki (1910). The report for DN-ice cave Velika Ledenica in Trnovski gozd (Grom, 1969a) is based on erroneous determination.
Edina zanesljiva navedba je AJ: Male Špice pri Mangartu (Głowacki, 1910). Navedba Groma (1969a) za DN-Velika Ledenica v Trnovskem gozdu temelji na napačni determinaciji

104 The only locality is in the ice cave of AS-Velika Vetrnica on Velika Planina (herb. Šafer, 1880, det. Breidler) however, it was not considered by Głowacki (1912).
Edina navedba je ledena jama Velika Vetrnica na Veliki Planini (herb. Šafer, 1880, det. Breidler), vendar je Głowacki (1912) ne upošteva.

105 The species is reported for AJ-Pokljuka plateau by Grom (1963a). It is considered to be doubtful, as there are no herbarium specimens.
Vrsto navaja Grom (1963a) za AJ-Pokljuko. Ker ni herbarijskega materiala, je podatek dvomljiv.

106 The report for PA-Puštal near Škofja Loka by Grom (1968) is based on erroneous identification.
Navedba Groma (1968) za PA-Puštal pri Škofji Loki temelji na napačni determinaciji.

107 The report by Grom (1969a) for DN-Trnovski gozd: Smrekova draga is based on erroneous identification.
Navedba Groma (1969a) za DN-Trnovski gozd: Smrekova draga temelji na napačni determinaciji.

108 The report by Grom (1969a) for DN-Trnovski gozd: Smrekova draga is uncertain because there are no herbarium specimens.
Navedba Groma (1969a) za DN-Trnovski gozd: Smrekova draga je dvomljiva, ker ni herbarijskega materiala.

109 The only site in AS is the Kokra valley (herb. Šafer LJU). According to Głowacki (1912: 155) this record is very doubtful for phytogeographical reason. The sites in Austria (Grims, 1999) show, that this locality is not impossible.
Edino nahajališče v AS je dolina reke Kokre (herb. Šafer LJU). Głowacki (1912: 155) dvomi v točnost tega podatka iz fitogeografskih razlogov. Nahajališča, npr. v Avstriji (Grims, 1999) pa kažejo, da uspevanje na tej lokaciji ni nemogoče.

110 The reports by Grom for SM-cave Škocjanske jame (1959a) and DN-Trnovski gozd (1969a) are based on erroneous identification.
Navedbe Groma za SM-Škocjanske jame pri Divači (1959a) in za DN-Trnovski gozd (1969a) temeljijo na napačni determinaciji.

111 The report for SM-the Škocjanske cave by Grom (1959a) is based on erroneous identification.
Navedba Groma za SM-Škocjanske jame pri Divači (1959a) temelji na napačni determinaciji.

112 The reports by Grom for DN and PD (1963b, 1968, 1969a) are based on erroneous identification.
Podatki za DN in PD (Grom, 1963b, 1968, 1969a) temeljijo na napačni determinaciji.

113 The only reliable site is AJ-Malo polje on Velo polje (Kuc 1967). Grom (1968) reports the species for SP-along the Krka river, but there are no herbarium specimens. Ecologically, the site is improbable.
Edino zanesljivo nahajališče je Malo polje na Velem polju (Kuc, 1967). Grom (1968) navaja vrsto za SP-ob reki Krki, vendar ni herbarijskega materiala. V ekološkem pogledu je nahajališče povsem neverjetno.

114 Sendtner (1848) reported the taxon Schistidium apocarpum var. alpicola Sw. for AJ-Mangart. Concerning the publishing year, the record could refer to S. agassizii and not to S. rivulare. However, without herbarium specimens, the decision is uncertain.
Sendtner (1848) navaja za AJ-Mangart takson Schistidium apocarpum var. alpicola Sw. Glede na letnico objave bi se to lahko nanašalo na S. agassizii in ne na S. rivulare, vendar je brez herbarijskega materiala navedba dvomljiva.

115 The report by Grom (1969a) for DN-Trnovski gozd: Smrekova draga and Suho brezno is uncertain because there are no herbarium specimens.
Navedba Groma (1969a) za DN-Trnovski gozd: Smrekova draga in Suho brezno je dvomljiva, ker ni herbarijskega materiala.

116 The only site is AS-Planina above Ljubno under Kalski greben (Martinčič LJU 2007).
Edino nahajališče je AS-Planina nad Ljubnim pod Kalskim grebenom (Martinčič LJU 2007).

117 Only reported by Martinčič (2020) for AJ-Škrnatarica.
Naveden samo za AJ-Škrnatarico (Martinčič, 2020).

118 All reports by Grom (AJ-1967, 1969a) are excluded as the specimens are erroneously identified.
Vse navedbe Groma (AJ-1967, 1969a) temeljijo na napačnih determinacijah.

119 Despite the credibility of the author (Latzel, 1942, leg. Morton) the report for DN- the Planinska cave is uncertain in terms of ecology as well as phytogeography. Grom,s reports for DN (1968) and for SM (1963b) are based on wrong determinations.

Kljub siceršnji verodostojnosti avtorja (Latzel, 1942, leg. Morton) je podatek za DN-Planinska jama v ekološkem in fitogeografskem pogledu dvomljiv. Navedbe Groma za DN (1968) in SM (1963b) temeljijo na napačnih determinacijah.

120 The only reliable record is AS-the Kokra valley (Robič, 1893; Šafer LJU; Głowacki, 1912, leg. Šafer). The report provided by Grom (1967) for the Slovenian Littoral, is extremely uncertain, without a concrete locality and with no herbarium specimens; the unpublished herbarium record for DN-the Vranja cave (leg. Grom) is erroneously identified.

Edina zanesljiva navedba je AS-dolina reke Kokre (Robič, 1893; Šafer LJU; Głowacki, 1912; leg. Šafer). Podatek Groma (1967) za Slovensko Primorje je brez konkretnega nahajališča in brez herbarijskega dokaznega materiala skrajno dvomljiv, neobjavljeni herbarijski material za DN-Vranja jama (leg. Grom) pa napačno determiniran.

121 The revision of the herbarium material in LJU showed there is only *Scorpidium cossonii* in Slovenia, with only one exception (see annotation 122). Accordingly, all following reports in literature should be corrected: Piskernik & Martinčič, 1970; Martinčič, 1988, 1991, 1994; Grom, 1968, 1969a. Reports of Kuc (1967) and Wallace (1980) are uncertain, but possible, because there are no herbarium specimens, whereas the Reichardt,s statement (1860) for PA-around Dobrna is extremely doubtful.

Revizija herbarijskega materiala v LJU je pokazala, da je v Sloveniji z eno izjemo samo *Scorpidium cossonii* (glej komentar št. 122). V tem smislu je treba popraviti navedbe v literaturi (Piskernik & Martinčič, 1970; Martinčič 1988, 1991, 1994; Grom, 1968, 1969a). Navedbe Kuca (1967) in Wallacea (1980) so sicer možne, vendar brez dokaznega herbarijskega materiala dvomljive, navedba Reichardta (1860) za PA- okolica Dobrne pa je skrajno dvomljiva.

122 The revision of the herbarium material in LJU showed that the species is present only in AJ-Pokljuka: bog Veliko Blejsko barje (leg. Martinčič). The reports for AJ are also given by Kuc (1967) and Wallace (1980). The records made by Grom (1968, 1969a) and Martinčič (1976, 1991, 1994, 1997) refer to the species *S. cossonii* (see annotation 121).

Revizija obsežnega herbarijskega materiala v LJU je pokazala, da je vrsta prisotna samo v AJ-Pokljuka: Veliko Blejsko barje (leg. Martinčič). Podatke za AJ navajata še Kuc (1967) in Wallace (1980). Navedbe Groma (1968, 1969a) in Martinčiča (1976, 1991, 1994, 1997) se nanašajo na vrsto *S. cossonii* (glej komentar št. 121).

123 Only reported from SM by Grom (1959a, det. Pilous) at Škocjanske jame cave and by Pegan & Strgulc Krajšek (2022) at Nova Gorica.

Navedena samo za SM za Škocjanske jame (Grom, 1959a, det. Pilous) in za Novo Gorico (Pegan & Strgulc Krajšek, 2022).

124 Only reported for PA-Metni vrh near Sevnica by Breidler (1891).

Navedena samo za PA-Metni vrh pri Sevnici (Breidler, 1891).

125 The locus classicus and the only record for Slovenia is AS-Šenturška gora: Dobliški jarek (leg. Robič 1882).

Edino nahajališče in loc. class. je v AS-Dobliški jarek na Šenturški gori (leg. Robič 1882).

126 Only reported by Paulin (1915) for AJ-Pokljuka: Šijec peat-bog.

Navedena samo za AJ-Pokljuka: barje Šijec (Paulin, 1915).

127 The report of its occurrence in DN-the Trnovski gozd (Grom 1969a) is improbable, because the species is an element of a high bog. There are also no herbarium specimens.

Edina navedba za DN-Trnovski gozd (Grom, 1969a) je ekološko povsem neverjetna, saj vrsta uspeva samo na visokih barjih. Manjka tudi herbarijski material.

128 The only site is in AP-at Črno jezero (Martinčič, 1977).

Edino nahajališče je na AP-Pohorju ob Črnem jezeru (Martinčič, 1977).

129 The only locality in PA was peat-bog in Ljubljansko barje (Scopoli, 1772; Deschman, 1858). The peat-bog is now destroyed and species became extinct (Martinčič, 1992).

Edina navedba v PA je bilo Ljubljansko barje (Scopoli, 1772; Deschmann, 1858). Ker je barje propadlo, je vrsta zagotovo izumrla (Martinčič, 1992).

130 The only site of the typical species and var. pilifera is AJ-Mangart (Breidler, mscr.; Glowacki, 1910, leg. Breidler).

Edino nahajališče tipične vrste in var. pilifera je AJ-Mangart (Breidler, mscr.; Głowacki, 1910, leg. Breidler).

131 The locality in DN-the lake Cerkniško jezero (herbarium Šafer LJU, Głowacki, 1913, leg. Šafer) is doubtful for phytogeographical and ecological reasons (conf. also Głowacki, 1913).

Nahajališče v DN (Cerkniško jezero, 550 m, leg. Šafer) je močno dvomljivo iz ekoloških in fitogeografskih razlogov (prim. tudi Głowacki, 1913).

132 The only reliable site is SM-Lipica near Sežana (Głowacki, 1902, 1913). The report for SM-the Škocjanske jame (Grom, 1959a) is considered as uncertain since there are no herbarium specimens.

Edino zanesljivo nahajališče je SM-Lipica pri Sežani (Głowacki, 1902, 1913). Podatek Groma (1959a) za Škocjanske jame je dvomljiv, ker ni dokaznega herbarijskega materiala.

133 Only reported by Sendtner (1842) for AJ-Morež mountain.

Navedena samo za AJ-Morež (Sendtner, 1842).

134 The only indication is AJ-Slatenik near Bovec as reported by Sendtner (1848).

Edina navedba je AJ-Slatenik pri Bovcu (Sendtner, 1848).

135 The only site is AJ-Malo polje on Velo polje reported by Kuc (1967). The report for DN-Solzno near Cerknica lake (herb. Šafer LJU, Pavletić, 1955, leg. Šafer) is improbable for ecological and phytogeographical reasons (conf. also Głowacki, 1913: 134).

Edino nahajališče je Malo polje na Velem polju (Kuc, 1967). Navedba za DN-Solzno pri Cerkniškem jezeru (herb. Šafer LJU, Pavletić, 1955, leg. Šafer) je iz ekoloških in fitogeografskih razlogov povsem neverjetna. Na to opozarja že Głowacki (1913: 134).

136 The only report is AP-Rakovec near Vitanje by Głowacki (1908).

Edina navedba je AP-Rakovec pri Vitanju (Głowacki, 1908).

137 The reports for DN by Pavletić & Grom (1958) and by Grom (1963b, 1969a) are based on erroneous identification.

Navedbe za DN (Pavletić & Grom, 1958; Grom, 1963b, 1969a) temeljijo na napačnih determinacijah.

138 The report for *T. bambergeri* by Głowacki (1910) for PA-valley of Soča river at Kanal, 100 m a. s. l., probably corresponds to *T. fasciculata*.

Navedba vrste *T. bambergeri* (Głowacki, 1910) za PA-dolina reke Soče pri Kanalu, 100 m n. v., se zaradi nizke nadmorske višine verjetno nanaša na vrsto *T. fasciculata*.

139 The reports by Grom (1966) for AJ-the valley of Triglav lakes are based on erroneous identifications, report for DN-Trnovski gozd by Grom (1969a) is doubtful since there are no herbarium specimens.

Navedbi za AJ-dolina Triglavskih jezer (Grom, 1966) temeljita na napačni determinaciji, navedba za DN-Trnovski gozd (Grom, 1969a) je dvomljiva, ker ni herbarijskih primerkov.

140 The reports for AJ-Čezsoča near Bovec by T. Wraber (1966, det. S. Grom) and Grom (1968) are based on wrong identifications.

Navedbi za AJ-pri Čezsoči blizu Bovca (T. Wraber, det. S. Grom 1966; Grom, 1968) temeljita na napačnih determinacijah.

141 Only reported for AJ-Plemenice under Triglav mountain, 2500 m a. s. l. (leg. Dakskobler, Martinčič, 2018, sub *Tortella bambergeri*). The reports for *T. bambergeri* by Głowacki (1910) from alpine zone of Triglav mountain, could also refer to *T. pseudofragilis* as well.

Edini podatek je Plemenice pod Triglavom, 2500 m (leg. Dakskobler, Martinčič, 2018, sub *Tortella bambergeri*). Verjetno spadajo sem tudi navedbe pod imenom *T. bambergeri* v alpinskem pasu Triglavskega pogorja (Glowacki, 1910).

142 Only reported for AS-Sv. Primož at Ljubno by Breidler (1891) and Głowacki (1912).

Navedena samo za AS-Sv. Primož pri Ljubnem (Breidler, 1891; Głowacki, 1912).

143 The only site was an old lime-kiln in the AJ-village of Srednji Log under Mangart (Głowacki, 1910). It is not certain if the kiln still exists. Sendtner (1848) stated only a general locality: the Julian Alps.

Edino nahajališče je bila stara apnenica v AJ-Srednjem Logu pod Mangartom (Głowacki, 1910), zato je vprašljivo ali apnenica še obstaja. Sendtner (1848) ima samo splošno navedbo: Julijske Alpe.

144 The only site is AJ-Mangart as reported by Sendtner (1848, 1857) and Głowacki (1910).

Navedena samo za AJ-Mangart (Sendtner, 1848, 1857; Głowacki, 1910).

145 The only report on DN-Trnovski gozd (Grom, 1969a) was excluded since the material was erroneously identified.

Edina navedba za DN-Trnovski gozd (Grom, 1969a) temelji na napačni determinaciji.

146 The only data on PA-the Ljubljansko barje to the south of Grmez is provided by Breidler (mscr.) but the data is marked with the question mark. Paulin (in Kramer, 1905) probably provides the same data under general designation »Ljubljana Moor« but without a question mark. Głowacki (1913) does not list this species. The authenticity of the record is therefore questionable.

Edini podatek daje Breidler (mscr.) za PA-Ljubljansko barje, južno od Grmeza, vendar je podatek opremljen z vprašajem. Paulin v Kramer (1905) navaja verjetno isti podatek pod splošno oznako »Ljubljansko barje«, vendar brez vprašaja. Głowacki (1913) te vrste ne navaja. Verodostojnost podatka je vprašljiva.

147 Only reported for PA-Tremerje near Celje (Głowacki, 1914).

Navedena samo za PA-Tremerje pri Celju (Głowacki, 1914).

148 The data on the species *Z. viridissimus* (Breidler, mscr.; Loitlesberger, 1909; Höhnel, 1893; Głowacki, 1908, 1913) refer to *Z. rupestris* (conf. also Düll et al., 1999). The data on SM-the Škocjanske cave by Grom (1959a) is based on erroneous identification.

Vsi podatki za vrsto *Z. viridissimus* (Breidler, mscr.; Loitlesberger, 1909; Höhnel, 1893; Głowacki, 1908, 1913) se nanašajo na *Z. rupestris* (prim. Düll et al., 1999). Podatek Groma (1959a) za Škocjanske jame temelji na napačni determinaciji.

Excluded taxa

Anoectangium aestivum (Hedw.) Mitt.

The only information on the thriving of this species in Slovenia is provided by Limpricht (1890), who claims, that according to Juratzka, the species thrives »in Krain«, but gives no exact locality. Later on other authors followed this information: Pavletić (1955), Martinčič (1968) and Düll et al. (1999). Juratzka (1882), however, did not mention the species to be found in »Krain« (a part of Slovenia).

Edini podatek o uspevanju vrste v Sloveniji daje Limpricht (1890), ki navaja, da po Juratzki uspeva vrsta »na Kranjskem« brez navedbe točne lokalitete. Temu podatku so sledili kasneje Pavletić (1955), Martinčič (1968) in Düll et al. (1999). Vendar Juratzka (1882) vrste sploh ne omenja za »Kranjsko«.

Anomodon tristis (Ces.) Sull. & Lesq.

(Syn.: *Haplohymenium triste* (Ces.) Kindb.). The species does not thrive in Slovenia. The error occurred with Pavletić (1955: 400), who claims that the species was reported by Loitlesberger (1909) for SM-Gorica. Loitlesberger, however, does not list the species. After Pavletić the incorrect quotation was followed by Martinčič (1968) and Düll et al. (1999).

Vrsta ne uspeva v Sloveniji. Napaka je pri Pavletiću (1955: 400), ki navaja, da je vrsto za SM-Gorica zabeležil Loitlesberger (1909). Slednji te vrste ne navaja. Po Pavletiću so napako povzeli še Martinčič (1968) in Düll et al. (1999).

Aulacomnium androgynum (Hedw.) Schwägr.

Pavletić (1955) claims that the only site is DN-Lipsenj near the town of Cerknica (leg. Šafer). However, there is no material in the Šafers herbarium, and it is not mentioned by Głowacki (1913) or Paulin (slip catalogue).

Pavletić (1955) navaja, da je edino nahajališče DN--Lipsenj pri Cerknici (leg. Šafer). Vendar v Šaferjevem herbariju tega materiala ni, ne omenjata je niti Głowacki (1913) niti Paulin (listkovni katalog).

Aulacomnium turgidum (Wahlenb.) Schwägr.

The general information provided by Düll et al. (1999) for Slovenia is wrong. The species has never been recorded in Slovenia.

Splošni podatek v Düll et al. (1999), da uspeva vrsta tudi v Sloveniji, je napačen. Vrsta v Sloveniji še ni bila zabeležena.

Campylopus gracilis (Mitt.) A, Jaeger

(Syn.: *Campylopus schwarzii* Schimp.). The species *Campylopus gracilis* does not thrive in Slovenia. The site of Sv. Nikolaj (Pavletić, 1955; Düll et al., 1999) is in fact St. Nikolai – Sölk, Austria (comp. Limpricht, 1890: 384).

Vrsta ne uspeva v Sloveniji. Nahajališče Sv. Nikolaj (Pavletić, 1955; Düll et al., 1999) je v resnici St. Nikolai – Sölk, Avstrija (prim. Limpricht, 1890: 384).

Codonoblepharon forsteri (Dicks.) Goffinet

(Syn.: *Zygodon forsteri* (Dicks.) Mitt.) The only report by Grom (1968) for DN-Snežnik is based on erroneous identification.

Edini podatek za Slovenijo navaja Grom (1968) za DN-Snežnik, vendar temelji podatek na napačni determinaciji.

Conostomum tetragonum (Hedw.) Lindb.

The species is reported by Grom (1968, 1969a, herb.) for DN-Trnovski gozd. Since the report is based on erroneous identification, it should be excluded from the Slovenian flora.

Vrsto navaja Grom za Trnovski gozd: Velika ledenica (1968, 1969a) in za Trnovski gozd: pri Iztokovi koči pod Golaki (herb.). Ker temeljijo podatki na napačni determinaciji, je treba vrsto črtati iz slovenske flore.

Dicranodontium asperulum (Mitt.) Broth.

The only reports are given by Grom (1968, 1969a) for DN-Trnovski gozd: Smrekova draga, but the reports are based on erroneous identifications.

Edine podatke navaja Grom (1968, 1969a) za DN-Trnovski gozd: Smrekova draga, vendar temeljijo navedbe na napačni determinaciji.

Grimmia alpestris (F. Weber & D. Mohr) Schleich.

The only site in Slovenia, according to Pavletić (1955), »Reteneg, Breidler 1891«, is »Stuhleck bei Rettenegg« in Austria. The report was also misstated by Düll et al. (1999).

Po Pavletiću (1955) edino nahajališče v Sloveniji »Reteneg, Breidler 1891« je v resnici »Stuhleck bei Rettenegg« v Avstriji. Po njem so napačno povzeli tudi Düll et al. (1999).

Homalia lusitanica Schimp.

Limpricht (1895: 718) states that the species thrives at the entrance to the cave at Verteneglio near the town of Koper (Verteneglio bei Capo d'Istria), This information was followed (Martinčič, 1968) without realising that the record was first reported by Juratzka (1862), who noted the location as »bei Verteneglio in Istrien«, in the same way as Loser who discovered the plant at the entrance to a cave. Later on (1882), he defined more preciselly the location: » in die Grotte von Verteneglio b. Buje«. The locality of Verteneglio is in fact Brtonigla in Istria near the town Buje in Croatia and the species therefore does not thrive in Slovenia. Grom's reports for DN-Trnovski gozd, Smrekova draga (1969a) and for SM-Slovensko Primorje (1967) are based on wrong determinations. The report for SP-Krakovski pragozd (Martinčič in Hočevar et al., 1980: 67 table) is a misprint.

Limpricht (1895: 718) navaja, da uspeva vrsta na vhodu v jamo pri »Verteneglio« pri Kopru (Verteneglio bei Capo d'Istria). Temu podatku smo sledili (Martinčič, 1968), pri tem pa spregledali, da je o najdbi prvi poročal Juratzka (1862) in lokacijo označil kot »Verteneglio in Istrien« tako kot Loser, ki je rastlino odkril na vhodu v neko jamo. Kasneje (1882) je lokacijo opredelil povsem natančno: »in die Grotte von Verteneglio b. Buje«. Kraj Verteneglio je Brtonigla v Istri blizu Buj, v Hrvaški; vrsta torej ne uspeva v Sloveniji. Navedbe Groma za DN-Trnovski gozd-Smrekova draga (1969a) in za SM-Slovensko Primorje (1967) temeljijo na napačnih determinacijah. Navedba za SP-Krakovski pragozd (Martinčič v Hočevar et al., 1980: 67 tabela) pa je tiskovna napaka.

Leptobarbula berica (De Not.) Schimp.

The only report for PA-the castle hill of Ljubljana (Grom, 1966/1967, 1968) is based on erroneous identification.

Vrste v Sloveniji ni. Podatek za PA: Ljubljanski grad (Grom, 1966/1967, 1968) temelji na napačni determinaciji.

Microbryum davallianum (Sm.) R.H. Zander var. *conicum* (Schleich. ex Schwaegr.) R.H. Zander

The locality »bei Triest« as reported by Pavletić (1955, sub *P. rufescens* var. *conica*) and followed by Düll et al. (1999) is located in Italy.

Nahajališče »pri Trstu«, ki ga navaja Pavletić (1955, sub *P. rufescens* var. *conica*) in po njem Düll et al. (1999), je v Italiji.

Neckera menziesii Drumm.

(Syn.: *Metaneckera menziesii* (Hook.) Steere). The only report is provided by Grom (1959a) for SM-Škocjanske jame cave. This was followed by Martinčič (1968) and Düll et al. (1999). There is no herbarium material from this locality. In the Grom's herbarium there is unpublished material from various other localities, that is wholly erroneously identified. Therefore, it is believed that the material from the published locality was also erroneously identified.

Edini podatek daje Grom (1959a) za SM-Škocjanske jame. Temu so sledili Martinčič (1968) ter Düll et al. (1999). Herbarijski material s te lokacije ne obstaja. V Gromovem herbariju pa je neobjavljen material z različnih drugih lokalitet, v celoti napačno določen. Zato menimo, da je bil tudi material z objavljene lokalitete napačno določen.

Oncophorus wahlenbergii Brid.

The report by Martinčič (1977) for DN-Trnovski gozd: Smrekova draga is based on erroneous identification.

Podatek Martinčiča (1977) za DN-Trnovski gozd: Smrekova draga temelji na napačni determinaciji.

Oreas martiana (Hoppe & Hornsch.) Brid.

In LJU there is a material, collected by Šafer in 1888 in the ice cave of Velika Vetrnica on Velika Planina, according to the label. However, Głowacki (1912: 32) already calls attention to the fact that there is mica in the herbarium specimen, although the site itself is on limestone. This indicates that there was confusion of localities. The species, should, therefore be excluded from the list of Slovenian flora.

V LJU obstaja material, ki ga je, po etiketi sodeč, nabral Šafer leta 1888 v ledeni jami Velika vetrnica na Veliki planini. Vendar že Głowacki (1912: 32) opozarja, da je v blazinici sljuda, čeprav je rastišče na apnencu. Vse kaže, da je prišlo do zamenjave lokalitet. Vrsto je zato treba črtati iz seznama slovenske flore.

Paludella squarrosa (Hedw.) Brid.

The only report was given by Grom (1967), who states that the species thrives in the Slovenian Littoral (SM), but he gives no exact location. There are no specimens in his herbarium and therefore is most likely the result of erroneous identification. He claims to have found the species in a karst cave, but the species is the element of mires.

Edini podatek daje Grom (1967), ki navaja, da uspeva vrsta v Slovenskem Primorju (SM), toda brez točne lokacije. Dokaznega materiala v njegovem herbariju ni, vendar je podatek najverjetneje plod napačne determinacije, saj navaja, da je našel vrsto v kraški jami, vrsta pa je element barij.

Platyhypnum cochlearifolium (Venturi) Ochyra

(Syn: *Hygrohypnum cochlearifolium* (Venturi) Broth.). The Grom's information (1968) of the species thriving in SM-Škocjanske jame caves, on limestone, at 400 m above sea level, is ecologically and phytogeographically entirely improbable. Also there is no herbarium material and revision is not possible, so the species should be excluded from the Slovenian flora.

Podatek Groma (1968), da uspeva vrsta v SM-Škocjanske jame na apnencu, na nadmorski višini 400 m, je v ekološkem in fitogeografskem pogledu povsem neverjeten. Čeprav manjka herbarijski material in ni mogoča revizija, je treba vrsto črtati iz slovenske flore.

Pohlia filum (Schimp.) Mårtensson

Pavletić (1955: 290) reported species (sub *Webera gracilis* (Schleich.) De Not., Syn.: *Pohlia gracilis* Lindb. – source: Głowacki) for AS-Ojstrica. However, there is no such statement in the original literature by Głowacki (1912, 1914). Obviously, Pavletić made the mistake. Consequently the species has to be excluded from Slovenian flora.

Pavletić (1955: 290) navaja vrsto *P. filum* (sub *Webera gracilis* (Schleich.) De Not., Syn.: *Pohlia gracilis* Lindb. – vir: Głowacki) za AS-Ojstrica. Vendar v originalni literaturi pri Głowackem (1912, 1914) te navedbe ni. Napako je očitno povzročil Pavletić, zato je treba vrsto črtati iz slovenske flore.

Pohlia wahlenbergii (F. Weber & D. Mohr) A.L. Andrews var. *calcarea* (Warnst.) E.F. Warb.

The report for Slovenia by Düll et al. (1999) is based on the record »Velebit: east of Razvala near Kapela« (Düll, 1999), which is erroneously located in Slovenia instead of in Croatia.

Düll et al. (1999) navajajo takson tudi za Slovenijo. Navedba temelji na podatku Dülla (1999) »Velebit: Razvala blizu Kapele«, ki pa je na Hrvaškem.

Rhynchostegiella litorea (De Not.) Limpr.

The only report by Grom (1968) for SM-bei Portorož is based on erroneous identification.

Edini podatek daje Grom (1968) za SM-pri Portorožu, vendar temelji na napačni determinaciji.

Schistidium platyphyllum (Mitt.) H. Perss.

(Syn.: *Schistidium rivulare* (Brid.) Podp. subsp. *latifolium* (Zett.) B. Bremmer) Düll et al. (1999) quotes according to Pavletić (1955), that the taxon thrives in the Julian Alps. There is no such statement in the report by Pavletić. Therefore, the taxon should be excluded from Slovenian flora.

Düll et al. (1999) navajajo, po Pavletiću (1955), da uspeva omenjeni takson v Julijskih Alpah. Vendar v viru (Pavletić, 1955) ni te navedbe, zato je treba takson črtati iz slovenske flore.

Schistidium strictum (Turn.) Loeske ex Mårt.

Schistidium strictum is a oceanic species. Its occurence in Slovenia (Martinčič, 2003) is based on reports of *Grimmia gracilis* Schleich. (Głowacki, 1908, 1910, 1912) and *Schistidium gracile* (Schleich.) Limpr. (Breidler 1891). In the absence of revision of a herbarium specimens and uncertainties about the correct interpretation of these names and their synonymy (conf. Ros et al., 2013; Aleffi et al., 2020), *Schistidium strictum* should be excluded from Slovenian flora.

Schistidium strictum je prava oceanska vrsta. Njena prisotnost v Sloveniji temelji na podatkih v literaturi v navedbi vrste *Grimmia gracilis* Schleich. (Głowacki, 1908, 1910, 1912) in *Schistidium gracile* (Schleich.) Limpr. (Breidler, 1891). V odsotnosti revizije herbarijskega materiala in nejasnosti glede pravilne interpretacije nomenklature in sinonimike (prim. Ros et al., 2013; Aleffi et al.,

2020), je treba vrsto *Schistidium strictum* črtati iz mahovne flore Slovenije.

Scorpiurium deflexifolium (Solms) M. Fleisch & Loeske

The only data on SM are provided by Grom (1963b); however, they are based on erroneous identifications.

Edina podatka daje Grom (1963b) za SM, vendar temeljita na napačni determinaciji.

Sphagnum obtusum Warnst.

The reports for AJ-the Šijec peat-bog and the peat-bog Za Blatom (Piskernik & Martinčič, 1970) are based on erroneous identification.

Navedbi za Pokljuko: barje Šijec in Jelovico: barje Za Blatom (Piskernik & Martinčič 1970) temeljijo na napačni determinaciji.

Sphagnum pulchrum (Lindb. ex Braithw.) Warnst.

All reports by Martinčič for AK (2009), AP (1970, 1978) and PA (1997) are based on erroneous identifications; *Sphagnum pulchrum* should be excluded from Slovenian flora.

Vse navedbe Martinčiča za AK (2009), AP (1970, 1978) in za PA (1997) temeljijo na napačnih determinacijah, zato je treba vrsto *Sphagnum pulchrum* črtati iz mahovne flore Slovenije.

Syntrichia calcicola J.J. Amann

The only report by Grom (1968) for SM-Vrabče above the Vipavska valley is based on erroneous identification.

Edini podatek daje Grom (1968) za SM-Vrabče nad Vipavsko dolino, vendar temelji na napačni determinaciji.

Taxiphyllum densifolium (Lindb. ex Broth.) Reimers

The only report by Grom (1968) for SM-Škocjanske jame cave is based on erroneous identification.

Edini podatek daje Grom (1968) za SM-Škocjanske jame, vendar temelji na napačni determinaciji.

Tayloria acuminata Hornsch.

According to Pavletić (1955) the only site of this species in Slovenia is namely AJ-Slatenik near the town Bovec, mentioned by Sendtner (1848). However, the location »In den obern Waldregion am Slatenig« refers to the species *Tayloria splachnoides* Hook., and Sendtner does not mention the species *T. acuminata* anywhere. It seems the error occured in the report given by Pavletić, which was later followed by Martinčič (1968) and Düll et al. (1999).

Po Pavletiću (1955) navaja edino nahajališče te vrste v Sloveniji Sendtner (1848) in sicer AJ-Slatenik pri Bovcu. Vendar se lokacija »In den obern Waldregion am Slatenig« nanaša na vrsto *Tayloria splachnoides* Hook., saj Sendtner vrste *T. acuminata* nikjer ne omenja. Kaže, da je prišlo do napake pri Pavletiću, napaki pa so kasneje sledili Martinčič (1968) ter Düll et al. (1999).

Timmia comata Lindb. & Arnell

The only report by Grom (1969a) for DN-the Trnovski gozd: Velika Ledenica is based on an erroneous identification

Edini podatek daje Grom (1969a) za DN-Trnovski gozd, Velika Ledenica, vendar temelji na napačni determinaciji.

Timmia megapolitana Hedw.

The species is reported for Julian Alps by Sendtner (1848). It has not been noted since, and the areal of the species also speaks against its thriving in the Alps. Most likely it was confused with either *T. bavarica*, which is not mentioned by Sendtner, or with *T. norvegica*, which was not described until 1862. The same problems were discussed by Grims (1999) for Austria. Based on this findings the species *T. megapolitana* should be excluded from Slovenian flora.

Vrsto za Julijske Alpe navaja Sendtner (1848). Kasneje ni bila več zabeležena, pa tudi areal vrste govori zoper njeno uspevanje v Alpah. Po vsej verjetnosti gre za zamenjavo ali s *T. bavarica*, ki je Sendtner ne omenja, ali pa s *T. norvegica*, ki je bila opisana šele 1862. O enaki problematiki in zaključkih govori Grims (1999) za Avstrijo. Na tej podlagi moramo vrsto *T. megapolitana* črtati iz slovenske flore.

Tortella flavovirens (Bruch) Broth.

The reports for SM by Martinčič (1973) and for SM by Grom (1959a, 1963a) are based on erroneous identifications. It is also certain that the report of Accetto (1995a) for PD-Podsteniška koliševka is false.

Dosedanje navedbe: Martinčič (1973) za SM in Grom (1959a, 1963a) za SM temeljijo na napačnih determinacijah. Zanesljivo napačna je tudi navedba Accetta (1995a) za mraziščno Podsteniško koliševko v PD.

Tortula marginata (Bruch & Schimp.) Spruce

The reports for Slovenia-SM are given by Grom (1963b, 1968), however, they are based on erroneous identifications.

Edine podatke za Slovenijo: SM daje Grom (1963b, 1968), vendar temeljijo na napačnih determinacijah.

Discussion

The New Checklist

Based on the current taxonomy and nomenclature (Hodgetts et al., 2020), the New Checklist of Mosses (Bryophyta) of Slovenia comprises 669 species, 6 subspecies and 18 varieties, which is a significant increase compared to the previous List (Martinčič 2003), which comprised 618 species, 5 subspecies and 94 the most common varieties. The difference in the number of species is mainly due to intensive field work and the processing of herbarium material of certain genera that were presented in the previous List only based on literature data, e.g. *Bryum, Brachythecium, Grimmia, Schistidium, Orthotrichum.* A significant increase is evident also in the number of species in individual phytogeographic units (Table 2).

Table 2: Number of taxa by geographic-phytogeographic units of Slovenia

Tabela 2: Število taksonov v posameznih geografsko-fitogeografskih enotah Slovenije

	SLO	AJ	AK	AS	AP	AZ	AM	DN	PA	PD	SM	SP
spp	669	498	376	456	415	252	195	409	439	314	322	314
subsp	6	2						4	2		5	2
var	18	10	7	8	9	3	2	11	10	7	5	5
?	13	4		2	2			18	8	2	5	

The differences in the number of species between particular phytogeographic units are relatively large. This is partly associated with differences in the intensity of floristic research in particular areas and, even more importantly, with the ecological diversity of habitats and elevations ranges, which are the most notable in the Alpine region. Compared with other European countries the total number of taxa indicates that the moss flora of Slovenia is relatively rich, despite its small territory (20,273 km^2). On the other hand, there are 83 species with a single known locality, half found in the period before 1915. This year marks the end of the first intensive research of the moss flora of Slovenia, followed only by a few short papers published between 1920 and 1945. Not earlier than after 1959 the research of moss flora of Slovenia have started up again. Similarly, the Red List DD (data deficient) category partly overlaps with species with a single locality. The most recent data for 92 species and 2 subspecies under this category date before 1915, and the data for 23 species and 1 subspecies even date back to the 19th century. The absence of more recent data for these species is not consequence of their extinction, but rather of the fact that the Slovenian territory has been unevenly and deficiently researched.

Red List

Under different threat categories 94 (13.84 %) species are listed: 4 (0.59 %) of them CR, 57 (8.39%) as EN and 33 (4.86%) as VU. Furthermore, 6 (0.88 %) species are listed as RE, 33 (4.86 %) species as near threatened (NT), while 106 (15.61 %) species and subspecies are data deficient (DD and DD-n). There are currently 440 (64.8 %) species and subspecies in the Least Concern (LC) category. The differences in numbers in comparison to the previous list (Martinčič 1916a) are insignificant, and are mainly the consequence of new distributional data.

The number and percentage of mosses in the various threat categories in the Slovenian Red List are not entirely comparable with some other countries – although in all the IUCN 3.1 (2001) and Hallingbäck et al. (2008) serve as the basis for categorisation. The main reason is that authors tend to adapt these criteria, to some extent, to the specific situation in their countries, especially regarding the number of recently reported localities. Floristic research available for the particular country also have impact on the species categorization. In most categories including in the relationship between red-listed and unthreatened species, the situation is comparable with other countries. We stand out only in the category DD. This category is not directly associated with the threat status of mosses, but rather reflects the lack of floristic investigations and insufficient information available for the recent period.

Povzetek

Uvod

Dvajset let po izidu Seznama listnatih mahov Slovenije (Martinčič, 2003) je dozorel čas za novo izdajo Seznama. V tem obdobju se je močno povečalo število floristič nih podatkov, zlasti na račun intenzivnega terenskega dela, pa tudi na račun obdelave herbarijskega materiala v zbirki LJU, predvsem nekaterih kritičnih rodov, npr. *Bryum* s. lat., *Brachythecium*, *Grimmia, Schistidium, Orthotrichum*. Drugi razlog pa so velike taksonomske in nomenklaturne spremembe v evropski mahovni flori v najnovejšem času (Ros et al., 2013; Hodgetts et al., 2020).

Metode

Novi Seznam temelji na podatkih iz literature, objavljene do leta 2023, herbarijske zbirke LJU ter avtorjevih neobjavljenih podatkov. Upoštevali smo vsa floristična dela in tisti del objavljenih fitocenoloških popisov, za katere smo menili, da so bili v njih mahovi pravilno določeni. V starejši floristični literaturi smo kritično ovrednotili tiste

podatke, ki se nanašajo na mejne predele med Slovenijo in Italijo. Po razpadu Avstroogrske monarhije je del omenjenega ozemlja pripadel Italiji, podatki iz teh predelov (predvsem okolica Gorice in Trsta) pa so objavljeni tako pri Pavletiću (1955) kakor tudi v Düll et al. (1999). Revizija točnosti vseh navedb v literaturi sicer ni bila mogoča, ker nam niso bili dostopni ustrezni herbariji. Izjema je herbarijski material v LJU. V zadnjih desetletjih 19. stoletja so ga prispevali v glavnem S. Robič, J. Šafer, J. Breidler in A. Paulin. Material prvih dveh sta revidirala oz. nanovo določila J. Breidler in J. Głowacki. Na začetku 20. stoletja je nabiral mahovni material F. Dolšak. Herbarijski material v LJU nam je omogočil tudi, da smo opravili revizijo enega dela literaturnih podatkov amaterskega briologa S. Groma, ki je deloval v letih 1959–1969. Pokazalo se je, da je precej napačnih določitev. Te smo izločili in so razvidne v poglavjih Pripombe in Izločene vrste. Navedbe, ki so iz kakršnega koli vzroka dvomljive, vendar ni herbarijskega materiala za revizijo, smo v pregledu označili z vprašajem. En del floristčnih podatkov v literaturi izvira iz obdobja pred letom 1915, drugi del pa iz obdobja 1959–2023. Herbarijski material v LJU je bil nabran zlasti po letu 1960, največji del je prispeval avtor tega prispevka.

Nomenklatura in taksonomija, uporabljeni v Novem Seznamu, sledita delu Hodgetts et al. (2020).

Za prikaz razširjenosti posameznih taksonov smo uporabili fitogeografsko razdelitev Slovenije po M. Wraberju (1969), a smo jo nekoliko spremenili (Martinčič, 2003). Tako smo srednje Posočje izločili iz submediteranskega območja, kot je predlagal že Dakskobler (1996) in ga priključili predalpskemu območju. Prav tako pa smo razdelili enotno podobmočje alpskega območja – Pohorje, v tri dele: Pohorje v ožjem pomenu, Dravski Kozjak – ozemlje severno od reke Drave in Mežiško-Mislinjska dolina s Strojno – zahodno od Pohorja. Razpored enot je razviden na sl.1, kratice pa so naslednje:

AJ – alpsko območje: Julijske Alpe
AK – alpsko območje: Karavanke
AS – alpsko območje: Kamniško-Savinjske Alpe
AP – alpsko območje: Pohorje
AM – alpsko območje: Mežiško-Mislinjska dolina-Strojna
AZ – alpsko območje: Dravski Kozjak
DN – dinarsko območje
PA – predalpsko območje
PD – preddinarsko območje
SM – submediteransko območje
SP – subpanonsko območje

Zaradi popolnosti je dodana vsakemu taksonu še oznaka ogroženosti, čeprav temelji v največji meri na Rdečem seznamu, ki je že bil objavljen (Martinčič, 2016a). Za opredelitev pripadnosti taksonov posameznim kategorijam ogroženosti smo upoštevali IUCN kriterije 3.1 (IUCN 2001). Njihovo uporabo za mahove pa smo povzeli po Hallingbäck et al. (1998). Vendar je edini realni kriterij za oceno ogroženosti – kriterij B, ki se izraža s številom trenutno poznanih recentnih nahajališč: 1 (CR), 2–5 (EN), 6–10 (VU). Pri taksonih iz kategorije DD je dodana tudi letnica zadnjega podatka.

V Rdečem seznamu smo uporabili naslednje kategorije:

- Regionalno izumrla vrsta (RE)
- Skrajno ogrožena vrsta (CR)
- Prizadeta vrsta (EN)
- Ranljiva vrsta (VU)
- Potencialno ogrožena vrsta (NT)
- Premalo znana vrsta, stari podatki (DD)
- Premalo znana vrsta, recentni podatki (DD-n)
- Neogrožena vrsta (LC)

Rezultati

Novi Seznam

Novi Seznam listnatih mahov (Bryophyta) Slovenije obsega, na podlagi trenutne taksonomije in nomenklature (Hodgetts et al., 2020), 669 vrst, 6 podvrst in 18 varietet. To število predstavlja izrazito povečanje v primerjavi s prejšnjim Seznamom (Martinčič, 2003). Tedaj je bilo zabeleženo 618 vrst, 5 podvrst in 94 najpogostejših varietet. Razlika v številu vrst je predvsem posledica intenzivnega terenskega dela, pa tudi obdelave herbarijskega gradiva nekaterih rodov, ki so bili v prejšnji izdaji prikazani samo na podlagi podatkov iz literature, npr. *Bryum, Brachythecium, Grimmia, Schistidium, Orthotrichum.* Močno se je povečalo tudi število vrst v posameznih fitogeografskih enotah (Tabela 2).

Razlike v številu vrst med posameznimi fitogeografskimi enotami so razmeroma velike (Tabela 2). Deloma je to povezano z razlikami v intenzivnosti floristčnih raziskovanj posameznih predelov. Predvsem pa so razlike pogojene z ekološko pestrostjo habitatov vključno z razponom nadmorskih višin, kar je najbolj izraženo v alpskem območju. Primerjava skupnega števila taksonov z nekaterimi evropskimi državami kaže, da je mahovna flora Slovenije kljub površinski majhnosti (20.273 km^2) relativno bogata. Toda istočasno ima 85 vrst samo eno poznano nahajališče, polovica teh je iz obdobja do leta 1915. Ta letnica označuje konec prvega, intenzivnega obdobja raziskovanja mahovne flore Slovenije. V obdobju 1920–1945 je bilo objavljeno le nekaj krajših prispevkov. Šele po letu 1959 se prične v Sloveniji zopet obdobje intenzivnega raziskovanja flore mahov. Slično podobo nudi tudi

kategorija DD (data deficient) – premalo znana vrsta, iz Rdečega seznama, ki se deloma prekriva z vrstami z enim nahajališčem. 97 vrst in 2 podvrsti iz te kategorije imajo zadnji podatek do leta 1915, 23 vrst in 1 podvrsta med njimi pa ima zadnji podatek celo v 19. stoletju. Vendar časovno oddaljenost od zadnjega podatka pri teh vrstah zaenkrat ne povezujemo z njihovim izumrtjem, temveč s precejšnjo neenakomerno in pomanjkljivo raziskanostjo slovenskega ozemlja.

Rdeči seznam

V ogrožene kategorije je uvrščeno 94 (13,84 %) vrst in podvrst: 4 (0,59 %) vrste so v CR kategoriji, 58 (8,39 %) so v EN kategoriji, in 34 (4,86 %) v VU kategoriji. 5 vrst (0,88 %) je v RE kategoriji, 33 vrst (4,86 %) v kategoriji NT, 106 vrst in podvrst (15,61 %) je v kategorijah DD in DD-n. V kategoriji LC-neogrožene vrste je 440 (65,38 %) vrst in podvrst.

Število vrst in procentna razmerja v kategorijah Rdečega seznama Slovenije niso enostavno primerljive z različnimi drugimi državami – čeprav je tudi pri njih podlaga za kategorizacijo IUCN 3.1 in delo Hallingbäck et al. (2008). Razlog za to je, da avtorji prilagajajo do določene mere prilagajajo kriterije specifičnim razmeram v svojih državah. Vpliv ima tudi stopnja floristične raziskanosti. V večini kategorij smo primerljivi z drugimi državami. Izstopamo pa v kategoriji DD, kar kaže predvsem na slabšo floristično raziskanost Slovenije.

Synonyms

Amblystegium confervoides (Brid.) Schimp. = *Serpoleskea confervoides*
Amblystegium humile (P. Beauv.) Crundw. = *Hygroamblystegium humile*
Amblystegium radicale (P. Beauv.) Schimp. = *Pseudocampylium radicale*
Amblystegium riparium (Hedw.) Schimp. = *Leptodictyum riparium*
Amblystegium saxatile Schimp. = *Pseudocampylium radicale*
Amblystegium subtile (Hedw.) Schimp. = *Pseudoamblystegium subtile*
Amblystegium varium (Hedw.) Lindb. = *Hygroamblystegium varium*
Anomodon attenuatus (Hedw.) Huebener = *Pseudanomodon attenuatus*
Anomodon rostratus (Hedw.) Schimp. = *Claopodium rostratum*
Aphanorhegma patens (Hedw.) Lindb. = *Physcomitrella patens*
Atrichum undulatum (Hedw.) P. Beauv. var. *gracillisetum* = *A. flavisetum*
Barbula bicolor (Bruch & Schimp.) Lindb. = *Gymnobarbula bicolor*
Barbula convoluta Hedw. = *Streblotrichum convolutum*
Barbula convoluta var. *commutata* (Jur.) Husn. = *Streblotrichum c.* var. *commutatum*
Barbula crocea (Brid.) F. Weber & D. Mohr = *Hydrogonium croceum*
Barbula enderesii Garov. = *Streblotrichum enderesii*
Brachythecium fendleri (Sull.) Jaeger = *Brachytheciastrum collinum*
Brachythecium glaciale Schimp. = *Sciuro-hypnum glaciale*
Brachythecium latifolium Kindb. = *Sciuro-hypnum latifolium*
Brachythecium oedpodium (Mitt.) Ignatov & Huttunen = *Sciuro-hypnum curtum*
Brachythecium olympicum Jur. = *Brachytheciastrum olympicum*
Brachythecium oxycladum (Brid.) Jaeger = *Brachythecium laetum (Brid.) Schimp.*
Brachythecium plumosum (Hedw.) Schimp. = *Sciuro-hypnum plumosum*
Brachythecium populeum (Hedw.) Schimp. = *Sciuro-hypnum populeum*
Brachythecium reflexum (Starke) Schimp. = *Sciuro-hypnum reflexum*
Brachythecium starkei (Brid.) Schimp. = *Sciuro-hypnum starkei*
Brachythecium trachypodium (Brid.) Schimp. = *Brachytheciastrum trachypodium*
Brachythecium velutinum (Hedw.) Schimp. = *Brachytheciastrum velutinum*
Breidleria pratensis (W.D.J. Koch ex Spruce) Loeske = *Stereodon pratensis*
Bryum algovicum Sendtn. ex Müll. Hal. = *Ptychostomum compactum*
Bryum alpinum Huds. ex With. = *Imbribryum alpinum*
Bryum archangelicum Bruch & Schimp. = *Ptychostomum inclinatum*
Bryum arcticum (R. Br.) Bruch & Schimp. = *Ptychostomum arcticum*
Bryum bicolor Dicks. = *Bryum dichotomum*
Bryum caespiticium Hedw. = *Ptychostomum imbricatulum*
Bryum capillare Hedw. = *Ptychostomum capillare*
Bryum creberrimum Tayl. = *Ptychostomum creberrimum*
Bryum elegans Nees = *Ptychostomum elegans*
Bryum funckii Schwägr. = *Ptychostomum funckii*
Bryum imbricatum (Schwaegr.) Bruch & Schimp. = *Ptychostomum inclinatum*
Bryum intermedium (Brid.) Blandow = *Ptychostomum intermedium*

Bryum knowltonii Barnes = *Ptychostomum knowltonii*
Bryum kunzei Hornsch. = *Ptychostomum kunzei*
Bryum longisetum Bland. ex Schwaegr. = *Ptychostomum longisetum*
Bryum mildeanum Jur. = *Imbribryum mildeanum*
Bryum moravicum Podp. = *Ptychostomum moravicum*
Bryum muehlenbeckii Bruch & Schimp. = *Imbribryum muehlenbeckii*
Bryum pallens Sw. = *Ptychostomum pallens*
Bryum pallescens Schleicher ex Schwaegrichen = *Ptychostomum pallescens*
Bryum pseudotriquetrum (Hedw.) P. Gaertn., B. Mey. & Scherb. = *Ptychostomum pseudotriquetrum*
Bryum pseudotriquetrum var. *bimum* (Brid.) Hartm. = *Ptychostomum p.* var. *bimum*
Bryum rubens Mitt. = *Ptychostomum rubens*
Bryum schleicheri DC. = *Ptychostomum schleicheri*
Bryum schleicheri var. *latifolium* (Schwägrichen) Schimp. = *P. schleicheri* var. *latifolium*
Bryum stirtonii Schimp. = *Ptychostomum elegans*
Bryum subapiculatum Hampe = *Imbribryum subapiculatum*
Bryum subelegans Kindb. = *Ptychostomum moravicum*
Bryum subneodamense Kindb. = *Ptychostomum pseudotriquetrum*
Bryum torquescens Bruch & Schimp. = *Ptychostomum torquescens*
Bryum turbinatum (Hedw.) Turn. = *Ptychostomum turbinatum*
Bryum uliginosum (Brid.) Bruch & Schimp. = *Ptychostomum cernuum*
Bryum weigelii Biehler = *Ptychostomum weigelii*
Callialaria curvicaulis (Jur.) Ochyra = *Cratoneuron curvicaule*
Calliergon stramineum (Brid.)Kindb. = *Straminergon stramineum*
Campylium polygamum (Schimp.) J. Lange & C. Jens. = *Drepanocladus polygamus*
Campylium stellatum var. *protensum* (Brid.) Bryhn ex Grout = *Campylium protensum*
Campylophyllum calcareum (Crundw. & Nyholm) Hedenäs = *Campylophyllopsis calcarea*
Campylophyllum sommerfeltii (Myrin) Hedenäs = *Campylophyllopsis sommerfeltii*
Cinclidotus mucronatus (Brid.) Mach. = *Dialytrichia mucronata*
Cirriphyllum cirrosum (Schwägr.) Grout = *Brachythecium cirrosum*
Cirriphylum tommasiii (Sendtn. ex Boulay) Grout = *Brachythecium tommasinii*
Ctenidium procerrimum (Mol.) Lindb. = *Pseudostereodon procerrimus*
Cyrtohypnum minutulum (Hedw.) Buck & Crum = *Pelekium minutulum*
Desmatodon cernuus (Hüb.) Bruch & Schimp. = *Tortula cernua*
Desmatodon heimii (Hedw.) Mitt. = *Hennediella heimii*
Desmatodon latifolius (Hedw.) Brid. = *Tortula hoppeana*
Desmatodon laureri (Schultz) Bruch & Schimp. = *Tortula laureri*
Dicranella palustris (Dicks.) Crundw. = *Diobelonella palustris*
Dicranoweisia compacta (Schwägr.) Schimp. = *Hymenoloma compactum*
Dicranoweisia crispula (Hedw.) Milde = *Hymenoloma crispulum*
Dicranum bergeri Bland. = *Dicranum undulatum*
Didymodon rigidulus Hedw. var. *validus* (Limpr.) Düll = *Didymodon validus*
Didymodon sicculus M.J. Cano, Ros, Garcia-Zam. & J. Guerra = *D. tophaceus* subsp. *sicculus*
Ditrichum crispatissimum (C. Müll.) Par. = *Flexitrichum gracile*
Ditrichum cylindricum (Hedw.) Grout = *Trichodon cylindricus*
Ditrichum flexicaule (Schwägr.) Hampe = *Flexitrichum flexicaule*
Encalypta rhaptocarpa Schwägr. var. *trachymitria* (Ripart) Wijk & Marg. = *E. trachymitria*
Eurhynchium crassinervium (Taylor) Schimp. = *Cirriphyllum crassinervium*
Eurhynchium flotowianum (Sendt.) Kartt. = *Sciuro-hypnum flotowianum*
Eurhynchium hians (Hedw.) Sande Lac = *Oxyrrhynchium hians*
Eurhynchium meridionale (Schimp.) De Not. = *Plasteurhynchium meridionale*
Eurhynchium praelongum (Hedw.) Schimp. = *Kindbergia praelonga*
Eurhynchium pulchellum (Hedw.) Jenn. = *Eurhynchiastrum pulchellum*
Eurhynchium pulchellum var. *diversifolium* (Schimp.) Jenn. = *Eurhynchiastrum diversifolium*
Eurhynchium pulchellum var. *praecox* (Ochyra) Žarnoviec = *E. pulchellum*
Eurhynchium pumilum (Wilson) Schimp. = *Microeurhynchium pumilum*
Eurhynchium schleicheri (R. Hedw.) Jur. = *Oxyrrhynchium schleicheri*
Eurhynchium speciosum (Brid.) Jur. = *Oxyrrhynchium speciosum*
Eurhynchium striatulum (Spruce) Schimp. = *Plasteurhynchium striatulum*

Fissidens crassipes Wils. ex Bruch & Schimp. var. *philiberti* Besch. = *F. c.* subsp. *warnstorfii*
Funaria muehlenbergii Turner = *Entosthodon muehlenbergii*
Funaria pulchella Philib. = *Entosthodon pulchellus*
Geheebia gigantea (Funck) Boulay = *Didymodon giganteus*
Hedwigia ciliata (Hedw.) P. Beauv. var. *leucophaea* Bruch & Schimp. = *H. emodica*
Heterocladium dimorphum (Brid.) Schimp. = *Heterocladiella dimorpha*
Homalia besseri Lob. = *Alleniella besseri*
Hygrohypnum duriusculum (De Not.) D.W. Jamieson = *Platyhypnum duriusculum*
Hygrohypnum eugyrium (Schimp.) Broth. = *Pseudohygrohypnum eugyrium*
Hygrohypnum molle (Hedw.) Loeske = *Platyhypnum molle*
Hygrohypnum ochraceum (Turn. ex Wilson) Loeske = *Hygrohypnella ochracea*
Hylocomium brevirostre (Brid.) Schimp. = *Loeskeobryum brevirostre*
Hylocomium pyrenaicum (Spruce) Lindb. = *Hylocomiastrum pyrenaicum*
Hylocomium umbratum (Hedw.) Schimp. = *Hylocomiastrum umbratum*
Hypnum bambergeri Schimp. = *Campylium bambergeri*
Hypnum callichroum Brid. = *Stereodon callichrous*
Hypnum cupressiforme Hedw. var. *resupinatum* (Taylor) Schimp. = *Hypnum resupinatum*
Hypnum dolomiticum Milde = *Roaldia dolomitica*
Hypnum fertile Sendtner = *Pseudohygrohypnum fertile*
Hypnum hamulosum Schimp. = *Stereodon hamulosus*
Hypnum imponens Hedw. = *Callicladium imponens*
Hypnum pallescens (Hedw.) P. Beauv. = *Jochenia pallescens*
Hypnum pallescens subsp. *reptile* (Michx.) Bertsch. = *Jochenia pallescens*
Hypnum pratense (Rabenh.) W. Koch ex Hartm. = *Stereodon pratensis*
Hypnum recurvatum (Lindb. & Arnell) Kindb. = *Drepanium fastigiatum*
Hypnum revolutum (Mitt.) Lindb. = *Roaldia revoluta*
Hypnum revolutum var. *dolomiticum* (Milde) Mönkm. = *Roaldia dolomitica*
Hypnum sauteri Schimp. = *Microhypnum sauteri*
Hypnum vaucheri Lesq. = *Buckia vaucheri*
Leucodon sciuroides (Hedw.) Schwägr. var. *morensis* (Schwägr.) De Not. = *L. sciuroides*
Mnium ambiguum C. Müll. = *Mnium lycopodioides*
Molendoa sendtneriana (Bruch & Schimp.) Limpr. = *Molendoa hornschuchiana*
Neckera complanata (Hedw.) Huebener = *Alleniella complanata*
Neckera crispa Hedw. = *Exertotheca crispa*
Orthothecium binervulum Mol. = *Orthothecium strictum*
Orthotrichum acuminatum H. Philib. = *Lewinskya acuminata*
Orthotrichum affine Brid. = *Lewinskya affinis*
Orthotrichum affine Brid. var. *fastigiatum* (Brid.) Hueben. = *Lewinskya fastigiata*
Orthotrichum gymnostomum Bruch ex Brid. = *Nyholmiella gymnostoma*
Orthotrichum lyellii Hook. & Taylor = *Pulvigera lyellii*
Orthotrichum obtusifolium Brid. = *Nyholmiella obtusifolia*
Orthotrichum rupestre Schleich. ex Schwägr. = *Lewinskya rupestris*
Orthotrichum speciosum Nees = *Lewinskya speciosa*
Orthotrichum striatum Hedw. = *Lewinskya striata*
Oxystegus tenuirostris (Hook. & Taylor) A.J.E. Smith = *Chionoloma tenuirostre*
Palustriella commutata (Hedw.) Ochyra var. *falcata* (Brid.) Ochyra = *Palustriella falcata*
Palustriella commutata (Hedw.) Ochyra var. *sulcata* (Lindb.) Ochyra = *P. falcata*
Phascum cuspidatum Hedw. = *Tortula acaulon*
Phascum cuspidatum var. *piliferum* (Hedw.) Hook. & Taylor = *Tortula acaulon* var. *pilifera*
Philonotis arnellii Husnot = *Philonotis capillaris*
Plagiobryum demissum (Hook.) Lindb. = *Ptychostomum demissum*
Plagiobryum zieri (Hedw.) Lindb. = *Ptychostomum zieri*
Plagiothecium ruthei Limpr. = *P. denticulatum var. undulatum*
Pleuridium palustre (Bruch & Schimp.) Bruch & Schimp. = *Cleistocarpidium palustre*
Pleurochaete squarrosa (Brid.) Limpr. = *Tortella squarrosa*
Pohlia elongata Hedw. var. *greenii* (Brid.) Shaw = *Pohlia greenii*
Polytrichum alpinum Hedw. = *Polytrichastrum alpinum*
Polytrichum commune Hedw. subsp. *uliginosum* Wallr. = *Polytrichum commune*
Polytrichum sexangulare Brid. = *Polytrichastrum sexangulare*
Pottia bryoides (Dicks.) Mitt. = *Tortula protobryoides*
Pottia davalliana (Sm.) C. Jens. = *Microbryum davallianum*
Pottia intermedia (Turn.) Furnrohr = *Tortula caucasica*
Pottia lanceolata (Hedw.) Müll. Hal. = *Tortula lindbergii*
Pottia starckeana (Hedw.) Müll. Hal. = *Microbryum starckeanum*
Pottia truncata (Hedw.) Bruch & Schimp. = *Tortula truncata*
Pseudocalliergon lycopodioides (Brid.) Hedenäs = *Drepanocladus lycopodioides*
Pseudocalliergon trifarium (Weber & Mohr) Loeske = *Drepanocladus trifarius*

Pseudocalliergon turgescens (T. Jensen) Loeske = *Drepanocladus turgescens*
Pseudoleskea artariae Ther. = *Pseudoleskeopsis artariae*
Pseudoleskea incurvata (Hedw.) Loeske = *Lescuraea incurvata*
Pseudoleskea patens (Lindb.) Kindb. = *Lescuraea patens*
Pseudoleskea radicosa (Mitt.) Macoun & Kindb. = *Lescuraea radicosa*
Pseudoleskea radicosa var. *denudata* (Lindb.) Wijk & Marg. = *Lescuraea radicosa*
Pseudoleskea saviana (De Not.) Latz. = *Lescuraea saviana*
Pterogonium gracile (Hedw.) Sm. = *Nogopterium gracile*
Ptychodium plicatum (F. Weber & D. Mohr) Schimp. = *Lescuraea plicata*
Rhynchostegiella jacquinii (Garov.) Limpr. = *Rhynchostegiella teneriffae*
Rhynchostegiella tenuicaulis (Spruce) Kartt. = *Brachythecium tenuicaule*
Rhytidiadelphus triquetrus (Hedw.) Warnst. = *Hylocomiadelphus triquetrus*
Scleropodium ornellanum (Mol.) Lor. = *Sciuro-hypnum ornellanum*
Scleropodium purum (Hedw.) Limpr. = *Pseudoscleropodium purum*
Seligeria recurvata (Hedw.) Bruch & Schimp. = *Blindiadelphus recurvatus*
Sphagnum denticulatum Brid. = *Sphagnum auriculatum*
Sphagnum magellanicum auct. eur p. p. non Brid. = *Sphagnum divinum*
Sphagnum magellanicum auct. eur. p. p. non Brid. = *Sphagnum medium*
Syntrichia intermedia Brid. = *Syntrichia montana*
Syntrichia pagorum (Milde) Amann = *Syntrichia laevipila*
Thuidium abietinum (Hedw.) B., S. & G. = *Abietinella abietina*
Thuidium abietinum var. *hystricosum* (Mitt.) Loeske = *A. abietina* var. *hystricosa*
Thuidium philiberti Limpr. = *Thuidium assimile*
Tortella bambergeri (Schimp.) Broth. = *Tortella tortuosa*
Tortula subulata Hedw. var. *angustata* (Schimp.) Limpr. = *Tortula schimperi*
Trochobryum carniolicum Breidl. & Beck = *Seligeria carniolica*
Warnstorfia exannulata (Schimp.) Loeske = *Sarmentypnum exannulatum*
Warnstorfia sarmentosa (Wahlenb.) Hedenäs = *Sarmentypnum sarmentosum*

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Appendix

Literature with floristic data for mosses for Slovenia, not cited in this article
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