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Plant communities of moist rock crevices with endemic *Primula carniolica* in the (sub)montane belt of western Slovenia

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Key words: phytosociology, synsystematics, calcareous rock faces, *Astrantia carniolica*, *Pinguicula alpina*, *Primula carniolica*, *Saxifraga aizoides*, Natura 2000, Julian Alps, Dinaric Alps, Slovenia.

Ključne besede: fitocenologija, sinsistematika, karbonatno skalovje, *Astrantia carniolica*, *Pinguicula alpina*, *Primula carniolica*, *Saxifraga aizoides*, Natura 2000, Julijske Alpe, Dinarsko gorstvo, Slovenija.

Abstract

Based on our analysis of a large number of relevés of communities of moist rock crevices in western Slovenia (southern Julian Alps, northern part of the Trnovski Gozd Plateau) we described several new syntaxa with the endemic *Primula carniolica*. The most unique in terms of ecology is a hygrophytic chasmophytic community classified into the association *Astrantio carniolicae-Primuletum carniolicae*, which is, together with similar hygrophytic associations *Astrantio carniolicae-Pinguiculetum alpinae* and *Campanulo cespitosae-Saxifragetum aizoidis,* associations *Phyteumato columnae-Primuletum carniolicae*, *Primulo carniolicae-Potentilletum clusianae* and the subassociation *Primuletum carniolicae violetosum biflorae,* temporarily classified into the alliance *Cystopteridion* and order *Potentilletalia caulescentis*. Only the new association *Paederoto luteae-Potentilletum caulescentis* is classified into the alliance *Physoplexido comosae-Saxifragion petraeae.* The elevational range of chasmophytic communities with *Primula carniolica* is 200 to 1460 m a.s.l. Species that most commonly accompany *Primula carniolica* in rock crevices include *Paederota lutea*, *Phyteuma scheuchzeri* subsp. *columnae*, *Sesleria caerulea, Aster bellidiastrum* and moss *Orthothecium rufescens*.

Izvleček

Z obdelavo obsežnega števila fitocenoloških popisov združb vlažnih skalnih razpok v zahodni Sloveniji (južne Julijske Alpe, severni del Trnovskega gozda) smo opisali nekatere nove sintaksone, v katerih uspeva endemit *Primula carniolica*. Ekološko najbolj posebna je vlagoljubna združba skalnih razpok, ki jo uvrščamo v asociacijo *Astrantio carniolicae-Primuletum carniolicae.* Skupaj s podobnima vlagoljubnima asociacijama *Astrantio carniolicae-Pinguiculetum alpinae* in *Campanulo cespitosae-Saxifragetum aizoidis* ter tudi asociacijama *Phyteumato columnae-Primuletum carniolicae* in *Primulo carniolicae-Potentilletum clusianae* ter subasociacijo *Primuletum carniolicae violetosum biflorae* jih za zdaj uvrščamo v zvezo *Cystopteridion* in red *Potentilletalia caulescentis*. Le novo asociacijo *Paederoto luteae-Potentilletum caulescentis* uvrščamo v zvezo *Physoplexido comosae-Saxifragion petraeae.* Razpon nahajališč združb skalnih razpok z vrsto *Primula carniolica* je od 200 m do 1460 m nm. v. Vrste, ki v skalnih razpokah najbolj pogosto rastejo skupaj z njo pa so *Paederota lutea*, *Phyteuma scheuchzeri* subsp. *columnae*, *Sesleria caerulea, Aster bellidiastrum* in mah *Orthothecium rufescens.*

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Introduction

Primula carniolica is endemic to Slovenia and has a relatively small distribution area in the pre-Alpine and Dinaric phytogeographical region of Slovenia, which spans the foothills of the southern Julian Alps and NW Dinaric Alps. Its northernmost localities are in the northeastern edge of the Šentviška Gora Plateau at the village Bukovski Vrh, in the gorge Selska Voda under the village of Bukovo and in Orehovska Grapa gorge under the hamlet of Nemci at the foothills of Mt. Kojca. The southeasternmost locality is under Pšeničev Vrh above Sodražica and the ridge of Velika Gora above Ribnica (Figure 1, see also Dakskobler et al. 2004, Dolinar et al. 2013, Dakskobler & Vreš 2014). There are many localities in its distribution area and they frequently feature many specimens. The Carniolan primrose occurs in different plant communities, but mainly on dolomite or dolomite-limestone bedrock, most often on rocky and at least slightly moist sites, in narrow, hard-to-access ravines, more rarely on karstified Dinaric plateaus, at elevations spanning 200 to 1460 m. Numerous plant communities featuring this species have already been supported by phytosociological tables. It has been identified (by the authors of this study and others) in stands of the following forest syntaxa: *Omphalodo-Fagetum rhododendretosum hirsuti* (Dakskobler et al. 2000, Surina & Dakskobler 2013), *Rhododendro hirsuti-Fagetum* (Dakskobler 2003, Accetto 2015), *Arunco-Fagetum* (Dakskobler 2015a), *Polysticho lonchitis-Fagetum* (Dakskobler & Rozman 2020, in preparation), *Lamio orvalae-Aceretum pseudoplatani* (Dakskobler 2007), *Lamio orvalae-Salicetum eleagni caricetosum albae* (Dakskobler 2010), *Fraxino orni-Ostryetum phyteumatetosum columnae* (Dakskobler 2015b), *Rhododendro hirsuti-Ostryetum* (Dakskobler 2015b, Accetto 2015), *Ostryo carpinifoliae-Piceetum* (Accetto (2013), *Fraxino orni-Pinetum nigrae* var. geogr. *Primula carniolica* (Dakskobler 1998, 1999, Accetto 2015), *Primulo carniolicae-Pinetum nigrae* (Accetto 2008, 2015), *Genisto januensis-Pinetum sylvestris campanuletosum cespitosae* (Rozman et al. 2020). It has been recorded in several grassland communities as well: *Primulo carniolicae-Caricetum firmae*, *Primulo carniolicae-Seslerietum calcariae* (Surina & Dakskobler 2005, Dakskobler 2006), *Saxifrago squarrosae-Caricetum mucronatae* var. geogr. *Primula carniolica* (Dakskobler 2006, Dakskobler & Surina 2017a), *Primulo carniolicae-Caricetum sempervirentis* (Accetto 2010), in a frost pocket community of moist rocky hollows *Drepanoclado uncinati-Heliospermetum pusillae* (Surina & Vreš 2009), in a community of moist screes *Astrantio carniolicae-Adenostyletum glabrae* (Dakskobler 2008), community of dolomite headwaters *Astrantio carniolicae-Schoenetum nigricantis* (Dakskobler & Martinčič 2018) and in two shrub communities of rocky sites, namely *Heliospermo pusillae-Rhododendretum hirsuti* and *Rhododendro hirsuti-Salicetum appendiculatae* (Dakskobler & Surina 2017b).

In most of the listed forest and grassland communities *Primula carniolica* occurs with a lower frequency and cover than in chasmophytic (rock-face) communities, where its optimal sites are. Only two such communities have been described to date: *Primulo carniolicae-Potentilletum caulescentis* (Dakskobler 1998, Accetto 2008) and *Primuletum carniolicae* (Accetto 2008, 2015, Dolinar et al. 2013, 2015, 2017). Most of our relevés of chasmophytic communities with *Primula carniolica* have not yet been processed and published. In this article we provide a brief description of the identified communities and try to find an appropriate syntaxonomic classification for some of them.

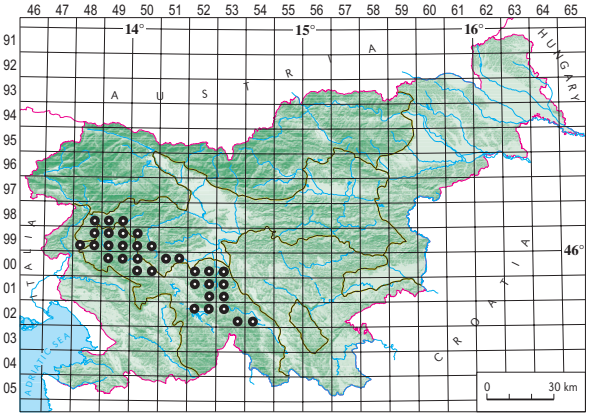

Figure 1: Distribution of *Primula carniolica* in Slovenia (FloVegSi database).
Slika 1: Razširjenost vrste *Primula carniolica* v Sloveniji (podatkovna baza FloVegSi).

Methods

Our analysis was based on the phytosociological relevés recorded on the sites of *Primula carniolica* using the Central-European (Braun-Blanquet 1964) approach. The relevés were made in the northwestern part of its distribution area, between Čepovan, Slap ob Idrijci, Bukovski Vrh, Bukovo, Orehek in the northwest and north, and the Golaki range, Črni Vrh nad Idrijo and the Žirovnica valley near Žiri in the south and southeast. The plot size was determined based on site homogeneity. Relevés were entered into the FloVegSi database (Fauna, Flora, Vegetation and Paleovegetation of Slovenia) of the Jovan Hadži Institute of Biology at ZRC SAZU (Seliškar et al. 2003). In further analyses we focused only on the relevés of chasmophytic communities in this area (altogether about 320 – Figure 2) and ordered them using hierarchical classifica-

tion, unweighted average linkage method – UPGMA and Wishart's similarity ratio, using SYN-TAX 2000 program package (Podani 2001). We transformed the combined cover-abundance values with numerical values (1–9) according to van der Maarel (1979). The UPGMA method was used because it better recognises the relevés that stand out from others. The results of the UPGMA correspond to our experience in the field, as the clusters comprise the relevés (stands) that are in fact ecologically similar.

The relevés where *Primula carniolica* is mostly accompanied by distinctly hygrophytic species *Pinguicula alpina*, *Astrantia carniolica*, *Hymenostylium recurvirostre* and *Palustriella commutata* (the smaller group) clustered separately from all other relevés (the bigger group), which either comprised only some of the above-listed species, usually with low mean coverage, or none of these species (Dendrogram, Figure 14 in Appendix). In the next step, these two, distinctly different groups of relevés were processed separately, but without taking into account all similar relevés in the bigger group, in order to avoid the tables being too extensive.

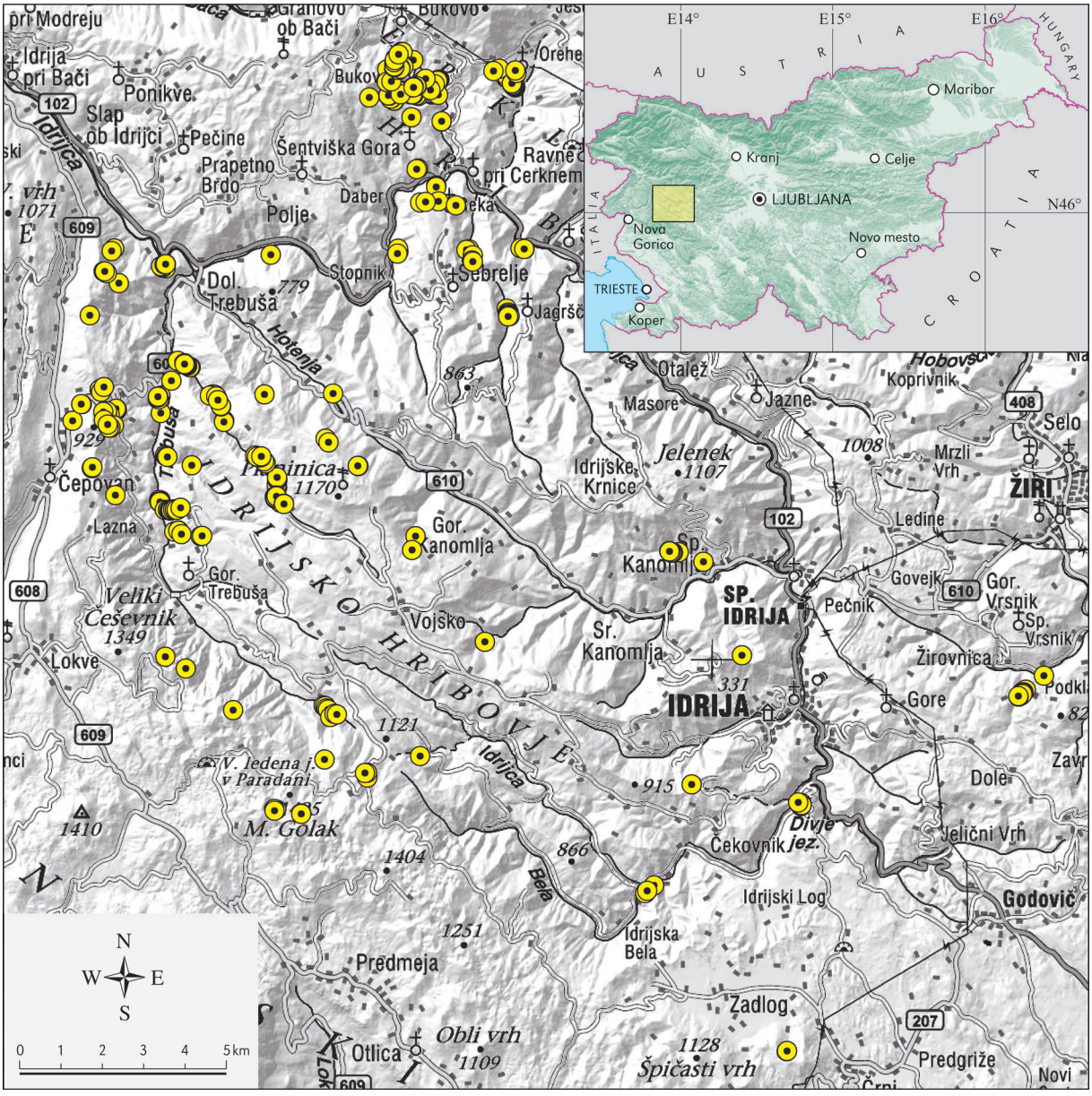

Figure 2: Localities of rock crevice communities with *Primula carniolica* in western Slovenia.
Slika 2: Nahajališča združb skalnih razpok z vrsto *Primula carniolica* v zahodni Sloveniji.

For the sake of comparison our analysis included also several other communities of moist rock crevices in the submontane-montane belt of the southern Julian Alps and the northern part of the Dinaric Alps, which are dominated by *Pinguicula alpina* and (or) *Saxifraga aizoides,* have a rich moss layer, but do not comprise *Primula carniolica* (these communities are partly distributed outside its distribution area). These relevés were arranged into tables in the same manner, through hierarchical classification, the same as the columns in the synoptic table. Numerical comparisons were performed with the SYN-TAX 2000 program package (Podani 2001). When describing new associations of plant communities with poor species composition and few dominant species, we focused on the latter and their mean coverage, rather than only on floristic similarity between the compared syntaxa.

The nomenclatural source for the names of vascular plants was the Mala flora Slovenije (Martinčič et al. 2007), except for the name *Molinia arundinacea* Schrank. The nomenclature of Flora alpina (Aeschimann et al. 2004) – *Sesleria caerulea* was used for the taxon *Sesleria caerulea* subsp. *calcaria* (MFS). Ros et al. (2007) was the nomenclatural source for the names of liverworts (*Marchanthiophyta*) and Ros et al. (2013) for the names of mosses. Šilc & Čarni (2012), Accetto (2015), Mucina et al. (2016), Dakskobler & Surina (2017a, b) and Dakskobler & Martinčič (2018) served as nomenclatural sources for the names of the syntaxa. The data source for geological bedrock was Buser (2009). The geographic coordinates of the relevés were determined according to the Slovenian geographic coordinate system D 48 (Zone 5) on the Bessel ellipsoid and with Gauss-Krüger projection.

Results and discussion

Arrangement of relevés into tables

Our analysis of 348 relevés of rock crevices with *Primula carniolica* (from its entire distribution area), showed that even though they comprise about 300 species of vascular plants and mosses, the species with constancy higher than 50% are (in addition to *Primula carniolica*) only *Paederota lutea*, *Phyteuma scheuchzeri* subsp. *columnae*, *Sesleria caerulea, Aster bellidiastrum* and moss *Orthothecium rufescens*. Seven species have the constancy of 40% or higher: *Astrantia carniolica*, *Asplenium ruta-muraria, Valeriana saxatilis*, *Asplenium trichomanes, Calamagrostis varia* and mosses *Neckera crispa* and *Ctenidium molluscum.* The entire species composition of these communities features less than 10% of the species with constancy higher than 20% and only 42 species (35 vascular plants and 7 mosses) with constancy more than 10% (the list of the most common species in chasmophytic communities with *Primula carniolica* is in Table 11). This clearly demonstrates that the decisive factor when classifying communities with the average number of only 15 to 20 species per relevé into a syntaxonomic system are in the first place the species with constancy of at least 40% or higher. Some species with the constancy of 10 to 35%, but high mean coverage can be in the first place differential species or species that indicate entirely different sites.

The relevés of distinctly moist calcareous rock crevices, with occasional tufa formations, were arranged into two tables. Table 1 comprises hygrophilous communities where *Primula carniolica* has similar constancy and mean coverage as *Pinguicula alpina* and *Astrantia carniolica*, while *Hymenostylium recurvirostre* in *Palustriella commutata* stand out in the moss layer, both with their frequency and mean coverage.

With hierarchical clustering we arranged the stands that were the most similar to these in terms of site moisture (stands with dominating *Pinguicula alpina* and *Astrantia carniolica*, with some stands comprising also *Saxifraga aizoides*) in Table 2 and Table 3 (stands with dominating *Saxifraga aizoides*).

Table 5 comprises the relevés with three dominant species alongside *Primula carniolica*: *Orthothecium rufescens, Paederota lutea* and *Phyteuma scheuchzeri* subsp. *columnae*. The latter subspecies is not included in the phytosociological table of the original description of the association *Primuletum carniolicae* (Accetto 2008), because its distribution area (Figure 3) does not overlap with the entire distribution area of *Primula carniolica*, but only with its western part, primarily the Idrijca river basin with the Trnovski Gozd Plateau. Ecology of *Phyteuma columnae* is slightly different from the ecology of *Primula carniolica.* As it requires less moisture it is more common in very dry rock crevices. It is a character species of the association *Phyteumato-Potentilletum caulescentis*, whose stands dominate on the southern rocky edge of the Trnovski Gozd and Nanos plateaus (Poldini 1978), more rarely also on their northern side, and of the association *Phyteumato-Moehringietum villosae* from the foothills of the southern Julian Alps (Dakskobler 2000). In stands with *Primula carniolica* it is therefore above all a phytogeographical differential species. The entire species composition of the community in Table 5 is not considerably different from the floristic composition of the community in Table 1, but there are obvious differences in terms of constancy and mean coverage of the most frequent species, and in the percentage of groups of diagnostic species (Table 10).

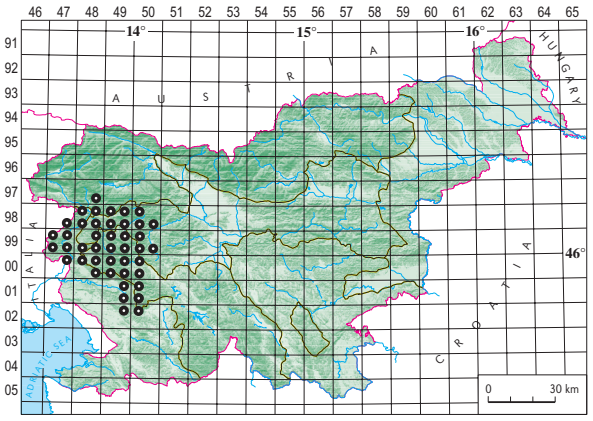

Figure 3: Distribution of *Phyteuma scheuchzeri* subsp. *columnae* in Slovenia (FloVegSi database).
Slika 3: Razširjenost taksona *Phyteuma scheuchzeri* subsp. *columnae* v Sloveniji (podatkovna baza FloVegSi).

While the relevés arranged in Table 6 are similar to the relevés in Table 5, many of them were made at higher elevations and have a higher frequency of more hygrophytic species such as *Astrantia carniolica* and *Viola biflora*. In terms of ecological conditions these relevés indicate a certain similarity also with the community in Table 1 (compare structure by groups of diagnostic species, Table 10).

Table 7 comprises the relevés that grouped separately in the comparison of the relevés of the association *Primuletum carniolicae* s. lat. and have until now been classified into the association *Primulo carniolicae-Potentilletum caulescentis.*

Table 8 comprises six relevés from Govci (rock faces under the top of Zeleni Rob and Poldanovec on the northern edge of the Trnovski Gozd Plateau above the Trebuša valley), characterised by *Potentilla clusiana, Carex firma, Rhodothamnus chamaecistus* and *Campanula cochleariifolia*.

The relevés in Table 4 grouped separately and were mainly made on the fringe of the distribution area of *Primula carniolica,* in the gorge Raskovec and the Železnica valley (municipality of Idrija, although historically this territory belongs to Žiri and Gorenjska regions). *Viola biflora* and *Pinguicula alpina* are frequent here, but *Paederota lutea* and *Phyteuma scheuchzeri* subsp. *columnae* are very rare.

Syntaxonomic classification of of recorded communities based on the synoptic table

Table 9 was decisive in our assessment and synsystematic classification of the studied communities. The synoptic table was used because the syntaxa were described with more than one relevé. As no single relevé is fully representative of a syntaxon it is only in a synthetic form (a cluster of relevés) that the author can convey how he understands a certain syntaxon. Individual stands (communities) that occur in nature and are depicted by our relevés can never fully correspond to what the author recognised as a (specific) abstract syntaxon. We therefore compared the syntaxa described in this article, which were obtained with the cluster analysis of individual relevés (see the dendrogram, Figure 14 in the Appendix), with other, already published syntaxa, which were considered in a synthetic form. In addition to most of the communities in the listed tables (except the community in Table 3, which is obviously different from other chasmophytic communities with dominant *Pinguicula alpina* and/or *Primula carniolica*) it comprises, in synoptic form, also the following, already published communities: four tables of the association *Primuletum carniolicae* s. lat. (Dolinar et al. 2013, 2015, 2017) and two published tables of the same association (Accetto 2008, 2015). These six synoptic columns present chasmophytic communities in the central and southeastern part of the distribution area of *Primula carniolica* (the above-mentioned tables have no relevés from this area). We also added two other forms of the association *Primulo carniolicae-Potentilletum caulescentis* (Dakskobler 1998, Accetto 2008) to the synoptic table. The table comprises 15 syntaxa. By comparing them we obtained the dendrogram in Figure 4, in which we took into account the species' constancy, and not only their presence or absence. This decision is based on the already mentioned observation that the species that play the decisive role in these communities, which are distributed across small areas and have few recorded species, are in the first place the species with higher constancy and mean coverage. Some researchers assess mean coverage also with a specific cover index (for communities in the territory of Slovenia comp. Surina 2005).

Based on the synoptic table and hierarchical classification we can describe two new associations, *Astrantio carniolicae-Primuletum carniolicae* (Table 1) and *Astrantio carniolicae-Pinguiculetum alpinae* (Table 2) whose stands occur on apparently moister sites than those of the communities from previously described associations *Primuletum carniolicae* and *Primulo carniolicae-Potentilletum caulescentis.* They are similar also in terms of constancy of diagnostic species, except that the stands of the first association differ so significantly from the stands of the other in terms of certain community-defining species (see also Table 10) that we find the classification of the community in Table 1 into the subassociation *Astrantio-Pinguiculetum alpinae primuletosum carniolicae* less appropriate.

In terms of entire species composition the stands of the association *Astrantio-Pinguiculetum alpinae* are slightly similar to the stands of the association *Hymenostylio recur-*

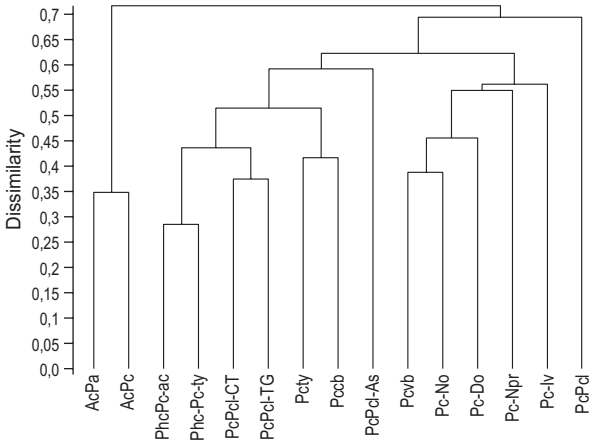

Figure 4: Dendrogram of rock crevices communities with endemic *Primula carniolica*, UPGMA, 1-similarity ratio.

Slika 4: Dendrogram združb skalnih razpok z endemitom *Primula carniolica* (UPGMA, 1-similarity ratio).

Legend / Legenda:

AcPa *Astrantio carniolicae-Pinguiculetum alpinae*, this article, Table 2.

AcPc *Astrantio carniolicae-Primuletum carniolicae*, this article, Table 1.

PhcPc-ac *Phyteumato columnae-Primuletum carniolicae astrantietosum carniolicae*, this article, Table 6.

Phc-Pc-ty *Phyteumato carniolicae-Primuletum carniolicae typicum*, this article, Table 5.

PcPcl-CT *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis*, this article, Table 7 (CT – Cerkno and Trebuša regions).

PcPcl-TG *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis* (*Primulo carniolicae-Potentilletum caulescentis*), Dakskobler (1998, Table 1, pp. 286–287) – TG (Trnovski Gozd).

Pcty *Primuletum carniolicae*, Accetto (2008, Table 1, pp. 42–44).

Pccb *Primuletum carniolicae caricetosum brachystachyos*, Accetto (2015, Table 27, pp. 98–99).

PcPcl-As *Paederoto luteae-Potentilletum caulescentis* (*Primulo carniolicae-Potentilletum caulescentis* var. *Asplenium seelosii*), Accetto (2008, Table 5, pp. 49–50).

Pcvb *Primuletum carniolicae violetosum biflorae*, this article, Table 4.

Pc-No *Primuletum carniolicae* s. lat., Dolinar et al. (2017, Table 1, pp. 30–32) – No – Notranjska region

Pc-Do *Primuletum carniolicae* s. lat., Dolinar et al. (2013, Table 1, pp. 13–16) – Do – Dolenjska region.

Pc-Npr *Primuletum carniolicae* s. lat., Dolinar et al. (2015, Table 1, pp. 40–43) – Notranjski Park Cerknica.

Pc-Iv *Primuletum carniolicae* s. lat., Dolinar et al. (2013: Table 2, pp. 17–18) – Iv – Iški Vintgar.

PcPcl *Primulo carniolicae-Potentilletum clusianae*, this article, Table 8.

virostri-Pinguiculetum poldinii from the Venetian Prealps, which its authors Giovagnoli & Tassinazzo (2012) classify into the alliance *Adiantion* and class *Adiantetea.* Given the presence of certain bryophytes, character species of this class (*Hymenostylium recurvirostre*, *Preissia quadrata, Pellia endiviifolia* and *Eucladium verticillatum*) in the stands of the associations *Astrantio-Pinguiculetum alpinae* and *Astrantio-Primuletum carniolicae*, these associations could be classified in the same way. Nevertheless, the fact that among the listed moss species only *Hymenostylium recurvirostre* has higher constancy and mean coverage, the absence of *Adiantum capillus-veneris* from our relevés as well as the entire species composition speak against such classification.

(Sub)montane stands of moist rock crevices with *Saxifraga aizoides*, which according to the hierarchical classification do not belong to the association *Astrantio carniolicae-Pinguiculetum alpinae*, are a curiosity in the Southeastern Alps, and we therefore classify them into the new association *Campanulo cespitosae-Saxifragetum aizoidis*.

The second group with the highest degree of similarity features two forms of the association *Primuletum carniolicae* s. lat. with the taxon *Phyteuma scheuchzeri* subsp. *columnae* and two forms of the association *Primulo carniolicae-Potentilletum caulescentis*. This means that similar stands from the northwestern part of *Primula carniolica's* distribution area are grouped together. These communities could be treated as a special geographical variant of the association *Primuletum carniolicae*. According to our criteria the rank of geographical variant (a small or regional association) is higher than the rank of subassociation. Since the applicable Code of Phytosociological Nomenclature (Weber et al. 2000) does not deal with this rank, we have two options for a valid typification:

- to reduce the rank of geographical variant to the rank of subassociation, or
- to bring the rank of geographical variant to the rank of association.

The results of hierarchical classification speak in favour of the latter option (see also Tables 9 and 10), as they point to certain floristic differences between the studied stands and the stands described by Accetto (2008, 2015) and Dolinar et al. (2013, 2015, 2017) as the association *Primuletum carniolicae*, also in terms of the updated selection of diagnostic species (in both cases the common species are *Primula carniolica, Orthothecium rufescens* and *Valeriana tripteris*). Based on these criteria it makes sense to classify our stands into the new association *Phyteumato columnae-Primuletum carniolicae*. Only in this case can we take into account the results of hierarchical classification (Figure 4), which demonstrate considerable similar-

ity of the stands of the association *Primulo carniolicae-Potentilletum caulescentis* from the northwestern part of the distribution area of *Primula carniolica* (Dakskobler 1998, 2000) with presently described communities from the same area. With these findings in mind, this association should be reduced to the rank of the subassociation *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis*.

Based on floristic similarity (Figure 4), however, the relevés from the rock faces of Govci under Zeleni Rob and Poldanovec, where *Potentilla clusiana* occurs or even dominates, cannot be classified into the association *Phyteumato-Primuletum carniolicae*. In the dendrogram in Figure 4 they grouped separately from other relevés and are therefore classified into the new association *Primulo carniolicae-Potentilletum clusianae.*

Based on the results of hierarchical classification (Figure 4, Table 9) it would make sense to rename the subassociation *Primuletum carniolicae caricetosum brachystachyos* (Accetto 2015) into *Primuletum carniolicae caricetosum mucronatae*. The nomenclatural type is the same, but *Carex mucronata* (frequency 100%) defines these stands significantly more than *C. brachystachys* (frequency 50%). However, the Code (Weber et al. 2000) does not allow such renaming, because the valid name *caricetosum brachystachyos* is not based on a taxonomical error (Arts. 29a and 43).

Justification of the possible new suballiance (alliance) of (sub)montane chasmophytic communities

Table 9 serves also as the basis for classification of the described communities into higher syntaxonomic units. So far, these communities have been classified either into the alliance *Physoplexido comosae-Saxifragion petraeae* or into the alliance *Cystopteridion* (Šilc & Čarni 2012, Accetto 2015, Dolinar et al. 2015, 2017). A more recent review of the vegetation of Europe at the rank of classes, orders and alliances (Mucina et al. 2016) indicates that the alliance *Violo biflorae-Cystopteridion alpinae* (syntax. syn. *Cystopteridion*) belongs to the order *Violo biflorae-Cystopteridetalia alpinae* and class *Polypodietea*. This classification is different from that of Theurillat (2004), and E. and S. Pignatti (2014, 2016), who classify the alliance *Cystopteridions* into the order *Potentilletalia caulescentis* and class *Asplenietea trichomanis*. The studied communities with their entire species composition also undoubtedly belong to this order and class, and are characterised by higher occurrence of hygrophytic species. According to Mucina et al. (2016) they cannot be classified into the alliance *Violo biflorae-Cystopteridion* (syn. *Cystopteridion*). According to Theurillat (in litt.) the classification of the alliance *Cystopteridion* into the order *Violo biflorae-Cystopteridetalia alpinae* is problematic. In the original diagnosis this order corresponds to communities that are intermediate between the classes *Asplenietea trichomanis* and *Thlaspietea rotundifoliae*, and indifferent to the substrate. Therefore, the alliance *Cystopteridion* Richard 1972 is not the same syntaxon as the alliance *Violo biflorae-Cystopteridion alpinae* Fernández Casas 1970, as described in Mucina & al. (2016).

With this in mind, we provisionally classify most of the communities described in this article into the alliance *Cystopteridion* and order *Potentilletalia caulescentis*. We also propose another possible alliance, an alliance of hygrophytic rock crevice (chasmophytic) communities of the Southeastern Alps and northern Dinaric Alps (*Astrantio carniolicae-Paederotion luteae* nom. prov.) an ecological vicariant of the alliance *Physoplexido comosae--Saxifragion petraeae*. Based on Table 9, *Paederota lutea* and *Astrantia carniolica* seem to be appropriate name-giving species for such an alliance. *Paederota lutea* is an eastern-Alpine-Illyrian species and a character species of chasmophytic communities (Aeschimann et al. 2004). In Slovenia it is distributed in chasmophytic communities, on screes, stony subalpine-alpine grasslands and stony shrub communities and forests from the colline to the alpine belt. In the colline, submontane and montane belts it frequently occurs on shady moist rocks and is one of the most constant companions of the endemic *Primula carniolica*. Surina (2005) described its association *Ranunculo traunfellneri-Paederotetum luteae* in the Krn Mts. and classified it into the alliance *Cystopteridion. Paederota lutea* is also the name-giving species of the association *Paederoto luteae-Minuartietum rupestris* (Wraber 1986, Surina 2005). Both described associations occur in the subalpine or alpine belt. A detailed ecological, phytogeographical and phytosociological description of *Astrantia carniolica* was published recently (Dakskobler & Martinčič 2018), and is therefore not repeated herein. Although it occurs also in different communities, in dolomite headwaters, on moist screes and in stony forests, *Astrantia carniolica* nevertheless meets the criteria (together with *Paederota lutea*, which has a very similar, but slightly larger distribution area) for naming southeastern-Alpine–northern-Dinaric communities of moist rock crevices. However, to ensure that the description of the new alliance is valid, we should take into account also similar syntaxa from other parts of the Southeastern Alps and northern Dinaric Alps, and perform more extensive numerical comparisons (opinion of two anonymous reviewers, with which the authors agree).

An overview of newly described syntaxa with their nomenclatural types and diagnostic species

Asplenietea trichomanis (Br.-Bl. in Meier et Br.-Bl. 1934) Oberd. 1977

Potentilletalia caulescentis Br.-Bl. in Br.-Bl. et Jenny 1926

Cystopteridion fragilis Richard 1972 (non. *Violo biflorae-Cystopteridion alpinae* sensu Mucina et al. 2016) (*Astrantio carniolicae-Paederotion luteae* nom. prov.)

In the context of this article the diagnostic species of this alliance include the species expected to be diagnostic also for the suggested possible new alliance: *Astrantia carniolica, Paederota lutea, Primula carniolica, Orthothecium rufescens, Aster bellidiastrum*, *Pingiucula alpina, Carex brachystachys, Asplenium viride, Valeriana saxatilis, V. tripteris, Viola biflora*, *Saxifraga aizoides*, *Tofieldia calyculata*, *Cystopteris fragilis*, *Hymenostylium recurvirostre, Palustriella commutata.*

Astrantio carniolicae-Primuletum carniolicae ass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 35 in Table 1.

Diagnostic species: *Primula carniolica, Astrantia carniolica, Pinguicula alpina, Hymenostylium recurvirostre, Palustriella commutata* (character species) and *Phyteuma scheuchzeri* subsp. *columnae, Molinia arundinacea, Valeriana saxatilis* and *Carex mucronata* (differential species).

- *asteretosum bellidiastri* subass. nov. hoc loco (relevés 4–26 in Table 1), nomenclatural type, *holotypus*, is relevé 15 in Table 1.

Differential species: *Aster bellidiastrum, Paederota lutea.*

- *hymenostylietosum recurvirostris* subass. nov. hoc loco (relevés 27–56 in Table 1), nomenclatural type, *holotypus*, is relevé 35 in Table 1.

Differential species: *Hymenostylium recurvirostre, Pinguicula alpina* (because of higher medium cover value than in the stands of the former subassociation).

Relevés 1–3 in Table 1 are classified only at the rank of the association.

Astrantio carniolicae-Pinguiculetum alpinae ass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 11 in Table 2.

Diagnostic species: *Pinguicula alpina, Astrantia carniolica, Hymenostylium recurvirostre, Palustriella comutata*, *Petasites paradoxus.*

var. *Molinia arundinacea* (relevés 13–19 in Table 2)

Campanulo cespitosae-Saxifragetum aizoidis ass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 6 in Table 3.

Diagnostic species: *Saxifraga aizoides, Campanula cespitosa*, *Molinia arundinacea*, *Palustriella commutata, Calamagrostis varia, Preissia quadrata*.

Variants:

var. *Pinguicula alpina* (relevés 1–2 in Table 3): differential species *Pinguicula alpina, Carex flacca*

var. *Caltha palustris* (relevés 3–4 in Table 3): differential species *Caltha palustris*, *Gymnostomum aeruginosum.*

var. *Hymenostylium recurvirostre* (relevés 5–9 in Table 3): differential species *Hymenostylium recurvirostre, Tofieldia calyculata.*

var. *Aster bellidiastrum* (relevés 10–14 in Table 3): differential species *Aster bellidiastrum, Orthothecium rufescens, Veronica urticifolia, Saxifraga cuneifolia*.

Phyteumato columnae-Primuletum carniolicae ass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 28 in Table 5.

Diagnostic species: *Primula carniolica, Phyteuma scheuchzeri* subsp. *columnae, Paederota lutea, Orthothecium rufescens, Valeriana tripteris, Carex bracyhstachys*.

- *typicum* subass. nov. hoc loco (nomenclatural type is the same as the nomenclatural type of the association, relevé 28 in Table 5)

var. *Viola biflora* (relevés 1–3 in Table 5), differential species *Viola biflora, Cystopteris fragilis.*

- *astrantietosum carniolicae* subass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 17 in Table 6.

Differential species: *Astrantia carniolica, Viola biflora*, *Valeriana saxatilis.*

- *potentilletosum caulescentis* (Dakskobler (1998) 2000) subass. nov. stat. nov.

(basionym *Primulo carniolicae-Potentilletum caulescentis* Dakskobler (1998) 2000,

see Dakskobler 1998: 272–273, 286–287; 2000: 56)

Nomenclatural type, *lectotypus*, is relevé 1 in Table 1 (Dakskobler 1998: 286–287).

Differential species: *Potentilla caulescens, Erica carnea, Polygala chamaebuxus, Primula auricula, P. × venusta.*

Primulo carniolicae-Potentilletum clusianae ass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 4 in Table 8.

Diagnostic species: *Potentilla clusiana, Primula carniolica, Carex firma, Campanula cochleariifolia, Rhodothamnus chamaecistus, Hladnikia pastinacifolia, Hieracium pillosum, Aquilegia iulia.*

Primuletum carniolicae Accetto 2008 *violetosum biflorae* subass. nov. hoc loco

Nomenclatural type, *holotypus*, is relevé 11 in Table 4.

Differential species: *Viola biflora, Pinguicula alpina, Veronica urticifolia*.

Physoplexido comosae-Saxifragion petraeae Mucina et Theurillat 2015

Paederoto luteae-Potentilletum caulescentis Accetto ex Dakskobler et Martinčič ass. nov. hoc loco

(basionym *Primulo carniolicae-Potentilletum caulescentis* Dakskobler (1998) 2000 var. *Asplenium seelosii* Accetto 2008)

Nomenclatural type, *lectotypus*, is relevé 6 in Table 5 (Accetto 2008: 49–50).

Diagnostic species: *Potentilla caulescens, Paederota lutea, Primula carniolica*, *Asplenium seelosii.*

Note: Based on the synoptic table (Table 9) and Figure 4 we reduced the rank of the association *Primulo carniolicae-Potentilletum caulescentis* Dakskobler (1998) 2000 to the rank of the subassociation *Phyteumato-Primuletum carniolicae potentilletosum caulescentis*. As this subassociation clearly does not comprise the syntaxon *Primulo carniolicae-Potentilletum caulescentis* var. *Asplenium seelosii* Accetto 2008 (see Figure 4), we gave it a new name and described a new association, whose author is M. Accetto.

The stands of the association *Primuletum carniolicae* s. lat., which were studied in the central and partly in the southwestern part of the distribution area of *Primula carniolica* by Dolinar et al. (2013, 2015, 2017), differ from the stands of the association *Primuletum carniolicae* described by Accetto (2008, 2015) mainly because they comprise *Aruncus dioicus, Cystopteris fragilis, Moehringia muscosa*, *Pinguicula alpina, Hieracium bifidum, Polystichum aculeatum* and *Scopolia carniolica*, which indicates slightly moister sites, and in percentages of the groups of diagnostic species (a higher percentage of the species of the class *Vaccinio-Piceetea*, order *Fagetalia sylvaticae* and alliances *Aremonio-Fagion* and *Tilio-Acerion* – Table 10). For the time being, however, we do not describe them at the level of subassociation.

Ecology of the studied communities

Astrantio carniolicae-Primuletum carniolicae

Distribution area of the stands of this association is shown in Figure 5. They are located in Orehovska Grapa gorge (under Orehek), in Kazarska Grapa (in particular in Beli Potok) under Bukovo and Bukovski Vrh, and in Poličnica at Police (all of them in the Cerkno region, in the pre-Alpine phytogeographical region), and were recorded also in the Trebuša valley, along the Trebušica, Gačnik, Srna Grapa and Makčeva Grapa gorges, in gorges under Bukov Vrh, Poldanovec and Stanov Rob (Govci), and in Govškarca in the Kanomlja valley. The localities occur at elevations ranging from 230 to 760 m, with a little more than a half of the relevés on shady, and the other on sunny aspects. The parent material is mainly dolomite, with occasional tufa formations, and the average number of species per relevé is 16 (in the range of 7 to 29 species).

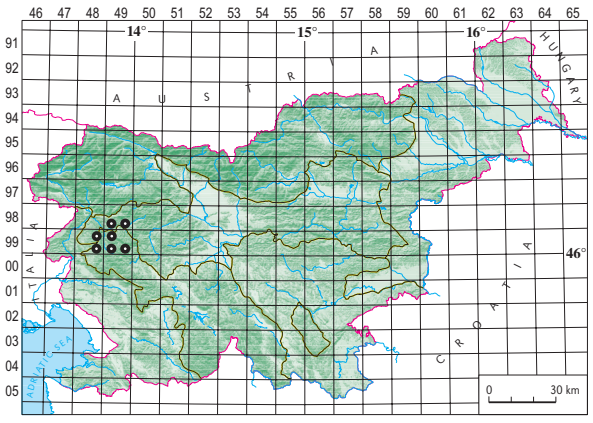

Figure 5: Distribution area of the stands of the association *Astrantio carniolicae-Primuletum carniolicae* on the map of Slovenia.

Slika 5: Območje razširjenosti sestojev asociacije *Astrantio carniolicae-Primuletum carniolicae* na zemljevidu Slovenije.

Astrantio carniolicae-Pinguiculetum alpinae

The distribution area of the stands of this association is shown in Figure 6. They are located in Tolmin Gorge, in the Soča ravine under Magozd (at Otona pool and Globoščak gorge), in Velike Luti (Kneža valley), in the Bača ravine at Klonte and Humar (between Koritnica and Hudajužna), at Brinta waterfall at Selce, in Dabrček gorge under the Šentviška Gora Plateau, in Orehovska Grapa, in the Hotenja valley, the Trebuša valley (at the Trebušica and Gačnik streams). The stands of the association were recorded at elevations ranging from 205 to 590 m, with half of the relevés on shady, and the other half on sunny aspects. The parent material is dolomite, limestone, breccia, in places admixture of marlstone and chert, and in some spots tufa formations. The average number of species per relevé is 12 (in the range of 6 to 30 species).

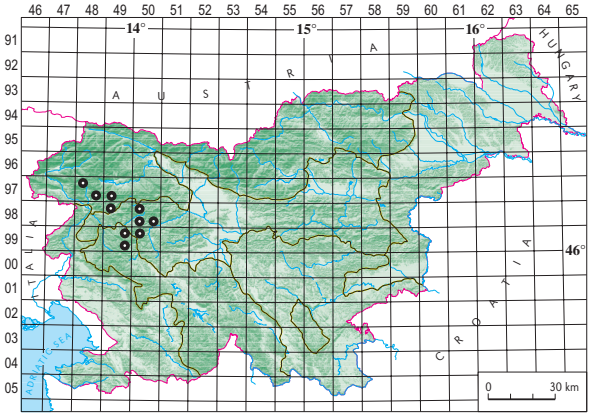

Figure 6: Distribution area of the stands of the association *Astrantio carniolicae-Pinguiculetum alpinae* on the map of Slovenia.
Slika 6: Območje razširjenosti sestojev asociacije *Astrantio carniolicae-Pinguiculetum alpinae* na zemljevidu Slovenije.

Campanulo cespitosae-Saxifragetum aizoidis

The distribution area of the stands of this association is shown in Figure 7. They are located in the upper course of the Volarja river under Gregorčič waterfall, at the stream Godiča at Beri waterfall and downstream toward Poljubinj, in Prodarjeva Grapa gorge under the village of Porezen, in gorges Linderpoh (under Šprickovbl waterfall) and Kacenpoh at Bača near Podbrdo, in the Zadlaščica river valley at Perbla and in the Tolminka valley (at the Zala gorge). It was recorded at elevations ranging from 255 to 990 m, most often on southeastern and northeastern aspects. The predominant geological bedrock is limestone with an admixture of marlstone and chert, occasionally also dolomite with chert. The average number of species per relevé is 17 (in the range of 10 to 26 species). The Arctic-Alpine species *Saxifraga aizoides* is characteristic primarily for moist stony sites in the subalpine and alpine belt; it is distributed only in the Alpine phytogeographical region, with several localities also in the pre-Alpine phytogeographical region: Črni vrh above the stream of Batava, Porezen, Prodarjeva Grapa gorge and the Bača valley between Humar and Klonte (Figure 7). Its localities in the valleys of the Godiča, Volarja and Bača and along the Soča under Magozd are among the lowest-lying in Slovenia (comp. Dakskobler et al. 2017b). In Slovenia, the eastern-Alpine species *Campanula cespitosa* is distributed also beyond the Alps, in the pre-Alpine and Dinaric phytogeographical regions (Figure 8) and is not rare on rocky and gravelly areas in the submontane belt.

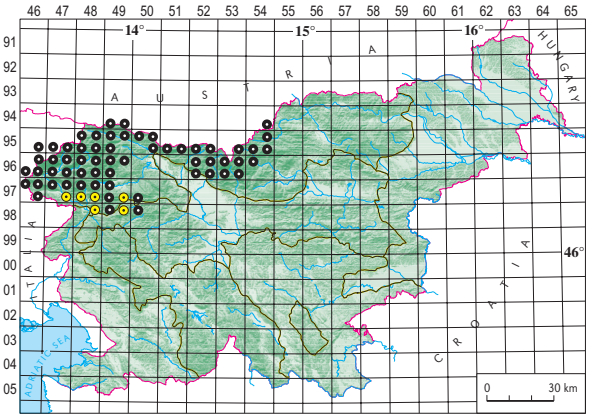

Figure 7: Distribution of *Saxifraga aizoides* ● (FloVegSi database) and of the stands of the association *Campanulo cespitosae-Saxifragetum aizoidis* ⊙ in Slovenia.
Slika 7: Razširjenost vrste *Saxifraga aizoides* ● (podatkovna baza FloVegSi) in sestojev asociacije *Campanulo cespitosae-Saxifragetum aizoidis* ⊙ na zemljevidu Slovenije.

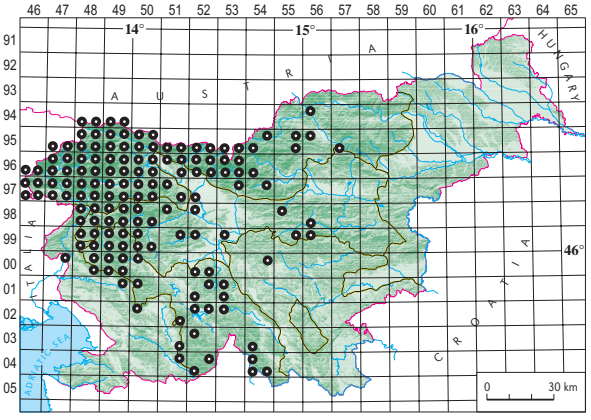

Figure 8: Distribution of *Campanula cespitosa* in Slovenia (FloVegSi database).
Slika 8: Razširjenost vrste *Campanula cespitosa* v Sloveniji (podatkovna baza FloVegSi).

Phyteumato columnae-Primuletum carniolicae typicum

The distribution area of the stands of this subassociation is shown in Figure 9. They are located in the rock faces of Maslenica above the saddle of Oblakov Vrh, in the Trebuša valley (Gačnik, Pršjak, Srna Grapa), under Skopica above the Idrijca valley, under Vrše, Drnulk and Kobilica above the Trebuša valley, under Drnulk and the Stador-Kobilica ridge above the Čepovan valley, in the Sjavnica (Sevnica) gorge under the village of Jagršče, under the hill of Degarnik above Beli Potok gorge and in gorges of Kazarska Grapa and Orehovska Grapa, in Govškarca and V Studencu above the Kanomlja valley, under Sončni Rob above Hudo Polje at Vojsko, under Mali Golak. It was recorded at elevations ranging from 215 to 1460 m (Mali Golak) on predominantly shady aspects. This explains the large elevation range of the localities – in the Trebuša valley at around 200 m a.s.l., for example, *Primula carniolica* can be accompanied also by the subalpine species *Rhododendron hirsutum* and *Rhodothamnus chamaecistus*, and on similar localities and sites *Carex ferruginea* also occurs at very low elevations. Site conditions in moist and shady gorges of the Trebušica, Gačnik and some other streams with a cold local climate are similar to those in the altimontane belt. The parent material is almost exclusively dolomite. The average number of species per relevé is 17 (in the range of 6 to 34 species).

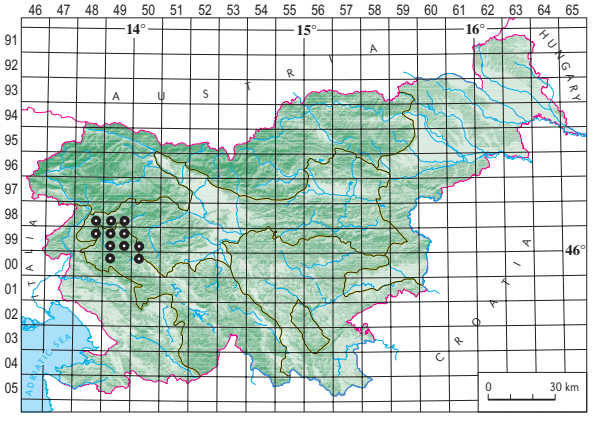

Figure 9: Distribution area of the stands of the subassociation *Phyteumato columnae-Primuletum carniolicae typicum* on the map of Slovenia.
Slika 9: Območje razširjenosti sestojev subasociacije *Phyteumato columnae-Primuletum carniolicae typicum* na zemljevidu Slovenije.

Phyteumato columnae-Primuletum carniolicae astrantietosum carniolicae

The distribution area of the stands of this subassociation is shown in Figure 10: on the Trnovski Gozd Plateau: Sončni Rob above Hudo Polje, under Mts. Mali and Srednji Golak, under Bukov Vrh and Mali Govci; in Gačnik and Makčeva Grapa gorges in the Trebuša valley, under the hill of Hudournik above the Hotenja valley. It was recorded at elevations ranging from 215 to 1440 m, with most of the relevés at 750 m a.s.l., predominantly on shady aspects. The parent material is dolomite, rarely dolomite limestone. The average number of species per relevé is 18 (in the range of 11 to 24 species).

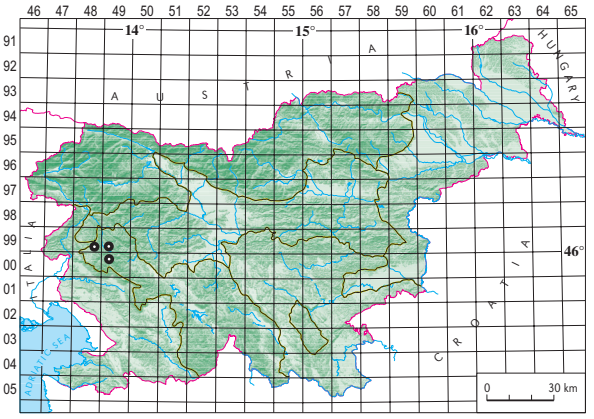

Figure 10: Distribution area of the stands of the subassociation *Phyteumato columnae-Primuletum carniolicae astrantietosum carniolicae* on the map of Slovenia.
Slika 10: Območje razširjenosti sestojev subasociacije *Phyteumato columnae-Primuletum carniolicae astrantietosum carniolicae* na zemljevidu Slovenije.

Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis

The distribution area of the stands of this subassociation is shown in Figure 11: in Orehovska Grapa gorge, in the Idrijca valley under Dolenji Potoki (Straža) and under Sv. Ivan (Šebrelje), under Skopica, Hudournik

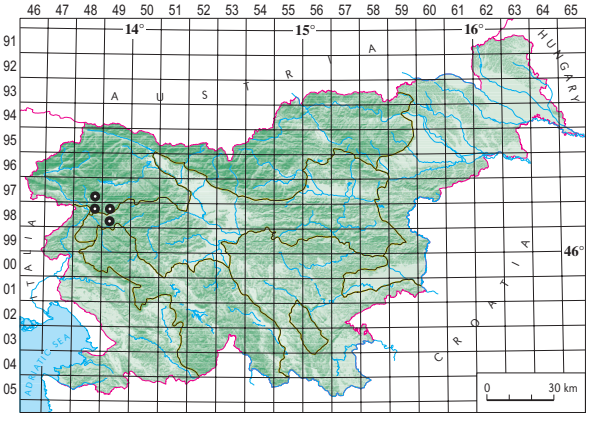

Figure 11: Distribution area of the stands of the subassociation *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis* on the map of Slovenia.
Slika 11: Območje razširjenosti sestojev subasociacije *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis* na zemljevidu Slovenije.

and Poldanovec, under Drnulk and Kobilica above the Trebuša valley. Its localities are situated at elevations ranging from 240 to 1050 m, with most of them above 550 m a.s.l. Aspects are shady, the parent material is dolomite. The average number of species per relevé is 19 (in the range of 12 to 31 species).

Primulo carniolicae-Potentilletum clusianae

The localities of the stands of this association are under Zeleni Rob and Poldanovec on the northern edge of the Trnovski Gozd Plateau (Figure 12). Elevations range between 1170 and 1330 m, the parent material is dolomite, aspect shady. The average number of species per relevé is 17 (in the range of 13 to 23 species). In terms of species composition the stands of this association show considerable similarity and in places contact with the stands of the association *Primulo carniolicae-Caricetum firmae* (Dakskobler 2006), but are substantially different in terms of mean coverage and constancy of certain edifier species. In the stands of the association *Primulo-Caricetum firmae* the species *Carex firma* and *Sesleria caerulea* occur at similar constancy to that in the stands of the association *Primulo-Potentilletum clusianae,* but with a visibly higher mean coverage, and *Potentilla clusiana* occurs with a substantially lower constancy. There are obvious differences also in the constancy and mean coverage of *Aster bellidiastrum, Campanula cespitosa* (higher in the first compared association), *C. cochleariifolia, Hladnikia pastinacifolia, Hieracium pilosum* (higher in the second compared association), in the average number of species per relevé (higher in the first compared association) and in mean coverage (cover) of the herb layer (visibly higher in the first compared association) – comp. Dakskobler (2006, Table 1, relevés 1–23, pp. 90–99). Into the association *Primulo carniolicae-Potentilletum clusianae* we classify stands of moist rock crevices (as demonstrated also by percentages of groups of diagnostic species, Table 10), whereas the stands of stony subalpine grasslands are classified into the association *Primulo carniolicae-Caricetum firmae*.

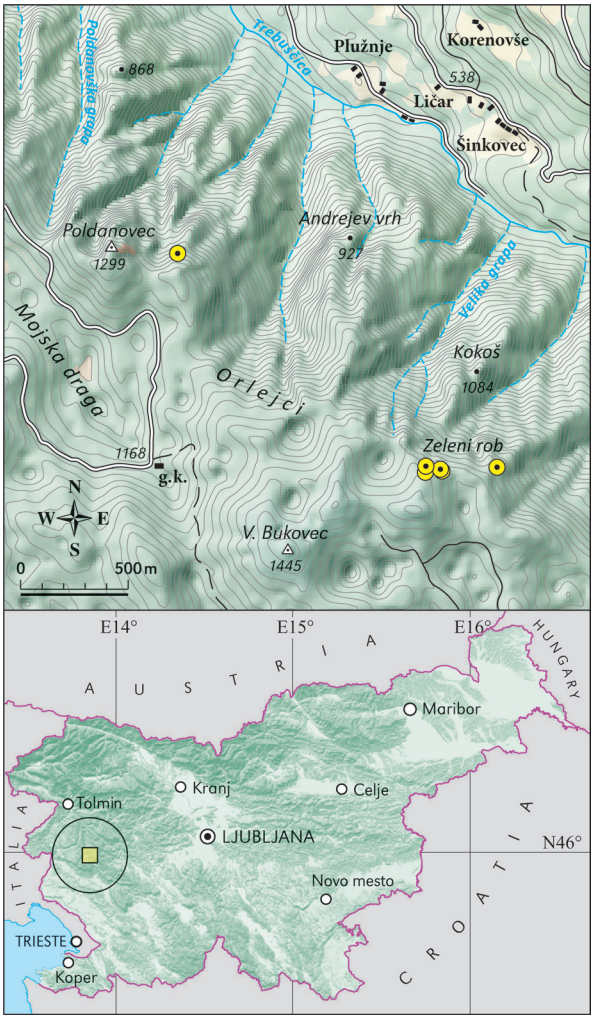

Figure 12: Localities of the stands of the association *Primulo carniolicae-Potentilletum clusianae* on the northern edge of the Trnovski Gozd Plateau.
Slika 12: Nahajališča sestojev asociacije *Primulo carniolicae-Potentilletum clusianae* na severnem robu Trnovskega gozda.

Primuletum carniolicae violetosum biflorae

The distribution area of the stands of this subassociation is shown in Figure 13. Most of the relevés were made in the Raskovec gorge in the Žirovnica valley at Žiri (in Idrija municipality), several relevés also in the gorge of Gačnik and the Govškarca above the Kanomlja valley. It was recorded at elevations ranging from 430 to 850 m on predominantly shady aspects. The parent material is dolomite. The average number of species per relevé is 20 (in the range of 7 to 28 species).

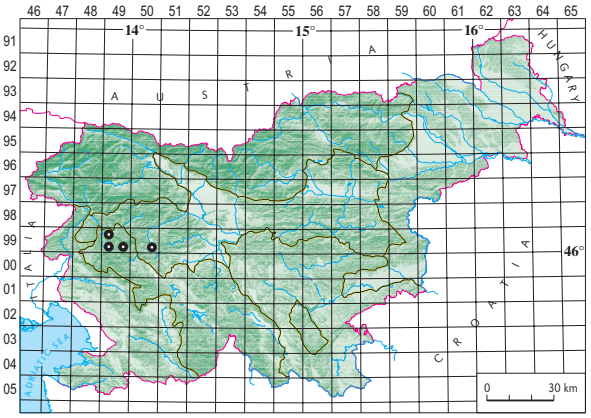

Figure 13: Distribution area of the stands of the subassociation *Primuletum carniolicae violetosum biflorae* on the map of Slovenia.
Slika 13: Območje razširjenosti sestojev subasociacije *Primuletum carniolicae violetosum biflorae* na zemljevidu Slovenije.

Nature conservation status

Primula carniolica is listed in Appendix 2 of the Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora – 1992 (Dakskobler et al. 2004). In the study area, i.e. in the northwestern part of its distribution area, this species occurs the most abundantly in shady gorges in the Cerkno region (Kazarska Grapa, Orehovska Grapa, Poličnica, Sjavnica, on the northeastern edge of the Šentviška Gora Plateau under Degarnik and on the pasture at the homestead Seljak, in rock faces under Sv. Ivan near Šebrelje above the Idrijca valley) and in the Trebuša valley (Gačnik, Makčeva Grapa, Srna Grapa, Pršjak, Mali Govci, also along the Trebušica and the gorges that flow into this river on the left bank), and in the rock faces of Govci from Bukov Vrh across Zeleni Rob, Poldanovec and Stanov Rob to Stador, Drnulk and Skopica). The population is abundant and vital, and has not yet been affected by the human impact, except on isolated localities. Also abundant is the population in the Raskovec gorge in the Železnica valley in the Žiri region (Dakskobler et al. 2017a, Dolinar et al. 2017), in Govškarca, Klavžarica and V Studencu above the Kanomlja valley. Another two species of European conservation concern sporadically occur in the studied communities of moist rock crevices, namely *Aquilegia iulia* and *Hladnikia pastinacifolia* (Čušin et al. 2004, Podobnik et al. 2013) as well as a number of protected species (Anon. 2004): *Cyclamen purpurascens, Gentiana clusii, Gymnadenia odoratissima, Hemerocallis lilioasphodelus*, *Leontopodium alpinum, Pinguicula alpina, Primula auricula, Primula* × *venusta,* and *Taxus baccata* as well as several other Red List species (Anon. 2002): *Schoenus nigricans, Veratrum nigrum*. Unlike flowering plants, bryophytes do not comprise rare or phytogeographically important species, nor do they comprise species from the Slovenian (Martinčič 2016) or European Red List (Hodgetts et al. 2019). The studied communities belong to Natura 2000 type 8210 Calcareous rocky slopes with chasmophytic vegetation, and the stands of associations *Astrantio-Primuletum* and *Astrantio-Pinguiculetum* also to Natura 2000 habitat type 7220 Petrifying springs with tufa formation (*Cratoneurion*) – Jogan et al. (2004).

Conclusions

A large number of the relevés made in the moist rocks in the submontane and montane belt (mainly in the area of Illyrian beech forests from the alliance *Aremonio-Fagion*) in western Slovenia between the southern Julian Alps and the northern Dinaric Alps can be arranged in tables in different ways. Our classification followed certain field findings where it was established that as a rule only a few dominant species occur with high mean coverage in these special site conditions. In the predominantly dolomite bedrock it is the moisture conditions that determine which species will dominate. In the southern Julian Alps, where the bedrock comes also as platy limestones with an admixture of marlstone and chert, this depends on other factors as well. With this in mind, it makes sense to classify the stands with *Primula carniolica* on the moistest rocks into the association *Astrantio carniolicae-Primuletum carniolicae*, because *Pinguicula alpina* does not have as high constancy and mean coverage here as in the stands of a similar association, *Astrantio-Pinguiculetum alpinae,* in which *Primula carniolica* does not occur, as these stands are, at least in part, outside its distribution area.

All other relevés of rock crevices with *Primula carniolica* could be classified into the association *Primuletum carniolicae* (in the broadest sense), which was first recorded in Slovenia and named by T. Wraber (he found it at Divje Jezero / Wild Lake at Idrija already on 16/8/1973, and later in the ravine of Kadice at Sodražica on 25/4/1982). Unfortunately, Wraber never processed or published his relevés and we only came across them by chance in 2016 and 2017 when we studied his legacy, which is kept at Wraber's Library at the University of Ljubljana's Botanical Garden. Tone Wraber was without a doubt a pioneer in the phytosociological investigation of chasmophytic communities with *Primula carniolica*, but his relevés cannot have been known to Accetto (2008), who was the first to validly publish the description of the association *Primuletum carniolicae*. The relevés of the association *Primuletum carniolicae* in the northwestern part of the distribution area are nevertheless slightly different from the relevés of this association in the central and southwestern part of its distribution area. The most appropriate syntaxonomic solution would be to describe a new geographical variant with the subspecies *Phyteuma scheuchzeri* subsp. *columnae*. However, given the results of hierarchical classification we could also describe a new association, *Phyteumato-Primuletum carniolicae*, which would allow us to evaluate the established variability of individual stands at the rank of subassociations and not only at the rank of variants. Wraber's notebook comprises a relevé dated 3 May 1982, locality Strug, rocks on the right side of the road from Fežnar toward Divje Jezero lake, which comprises most of the diagnostic species of the subassociation *Phyteumato-Primuletum carniolicae astrantietosum carniolicae*. The decision for an independent association *Phyteumato-Primuletum carniolicae,* on the other hand, means reducing the rank of the association *Primulo carniolicae-Potentilletum caulescentis* to the rank

of subassociation (which could not happen if we insisted on the association *Primuletum carniolicae* in the broadest sense – comp. Accetto 2008). Because *Primula carniolica* characterises very hygrophytic chasmophytic communities it is rightly considered a character species of the alliance *Cystopteridion* (not *Violo biflorae-Cystopteridion* sensu Mucina et al. 2016), into which we provisionally classify most of the described new syntaxa (except for association *Paederoto luteae-Potentilletum caulescentis,* which is classified into the alliance *Physoplexido comosae-Saxifragion petraeae*). The article also proposes a new possible alliance of hygrophytic rock crevice (chasmophytic) communities of the Southeastern Alps and northern Dinaric Alps, an ecological vicariant of the alliance *Physoplexido comosae-Saxifragion petraeae*. The name-giving species for such an alliance could be *Paederota lutea* and *Astrantia carniolica* (*Astrantio carniolicae-Paederotion luteae* nom. prov.). However, a valid description of a new alliance requires further research that takes into account also similar syntaxa of hygrophytic chasmophytic communities from other parts of the Southeastern Alps and northern Dinaric Alps, and more extensive numerical comparisons.

Povzetek

Združbe vlažnih skalnih razpok z endemitom *Primula carniolica* v (sub)montanskem pasu zahodne Slovenije

Primula carniolica, evropsko varstveno pomembna vrsta (Natura 2000), je v severozahodnem delu svojega areala (v zahodni Sloveniji med južnimi Julijskimi Alpami in severnim delom Dinarskega gorstva) najbolj množično prisotna v senčnih grapah na Cerkljanskem (Kazarska grapa, Orehovska grapa, Poličnica, Sjavnica, v ostenjih pod sv. Ivanom nad dolino Idrijce pod Šebreljami, tudi na severovzhodnem robu Šentviške planote: pod Degarnikom in na pašniku pri domačiji Seljak v Bukovskem Vrhu, že na Tolminskem) in v dolini Trebuše (Gačnik, Makčeva grapa, Srna grapa, Pršjak, Mali Govci, tudi ob sami Trebušici in grapah, ki se vanjo izlivajo na levem bregu) ter v ostenju Govcev od Bukovega vrha preko Zelenega roba, Poldanovca in Stanovega roba vse do Stadorja, Drnulka in Skopice). Populacija je bogata, vitalna in za zdaj človek nanjo razen na nekaterih nahajališčih nima večjega vpliva. Bogata je tudi populacija v grapi Raskovec v dolini Železnice na Žirovskem in v Govškarci, Klavžarici in V Studencu nad dolino Kanomlje.

Veliko število fitocenoloških popisov, ki smo jih naredili v vlažnem skalovju v submontanskem in montanskem pasu (večinoma v območju ilirskih bukovih gozdov iz zveze *Aremonio-Fagion*) v raziskovanem območju je mogoče v tabele razvrščati na več načinov. Naša ureditev je sledila nekaterim spoznanjem na terenu, kjer je očitno, da je v teh posebnih rastiščnih razmerah navadno le malo prevladujočih vrst z večjim srednjim zastiranjem. Katere so, pa je v prevladujoči dolomitni podlagi predvsem odvisno od vlažnostnih razmer. V južnih Julijskih Alpah, kjer so podlaga tudi ploščasti apnenci s primesjo laporovca in roženca, lahko nanjo vplivajo tudi drugi dejavniki. Ob tej podmeni je uvrstitev sestojev z vrsto *Primula carniolica* na najbolj vlažnem skalovju v asociacijo *Astrantio carniolicae-Primuletum carniolicae* smiselna, saj v njej vrsta *Pinguicula alpina* nima tako velike stalnosti in srednjega zastiranja kot v sestojih podobne asociacije *Astrantio-Pinguiculetum alpinae,* v kateri pa vrsta *Primula carniolica* ne uspeva in so ti sestoji vsaj deloma tudi zunaj njenega areala.

Vse ostale popise skalnih razpok, kjer uspeva vrsta *Primula carniolica,* bi lahko uvrstili v široko zajeto asociacijo *Primuletum carniolicae*, ki jo je v Sloveniji prvi popisal in tako imenoval T. Wraber (pri Divjem jezeru pri Idriji že 16. 8. 1973, v soteski Kadice pri Sodražici 25. 4. 1982). Žal popisov ni nikoli obdelal ali objavil in smo nekatere od njih slučajno opazili v letih 2016 in 2017 v njegovi zapuščini, ki jo hrani Wraberjeva knjižnica v Botaničnem vrtu Univerze v Ljubljani. Vsekakor je bil Tone Wraber pionir pri fitocenološkem raziskovanju združb skalnih razpok z vrsto *Primula carniolica*, a njegovih popisov Accetto (2008), ki je prvi veljavno objavil opis asociacije *Primuletum carniolicae* ni mogel poznati. Popisi asociacije *Primuletum carniolicae* v severozahodnem delu areala se vendarle nekoliko razlikujejo od popisov te asociacije v osrednjem in jugozahodnem delu areala. Najprimernejša sintaksonomska rešitev bi bil opis nove geografske variante s podvrsto *Phyteuma scheuchzeri* subsp. *columnae*. Toda rezultati hierarhične klasifikacije dopuščajo tudi opis nove asociacije *Phyteumato-Primuletum carniolicae*, ki omogoča, da tudi ugotovljeno variabilnost posameznih sestojev vrednotimo na rangu subasociacij in ne zgolj na rangu variant. V Wraberjevi beležnici, datum popisa je 3. 5. 1982, nahajališče pa Strug, skalovje na desni strani ceste od Fežnarja proti Divjemu jezeru, je popis, ki vsebuje večino diagnostičnih vrst subasociacije *Phyteumato-Primuletum carniolicae astrantietosum carniolicae*. Odločitev za samostojno asociacijo *Phyteumato-Primuletum carniolicae* pa ima za posledico tudi znižanje ranga asociacije *Primulo carniolicae-Potentilletum caulescentis* na rang subasociacije (kar bi, če bi ostali pri široko zajeti asociaciji *Primuletum carniolicae,* ne mogli storiti – prim. Accetto 2008). Ker vrsta *Primula carniolica* označuje precej vlagoljubne združbe skalnih razpok, jo upravičeno štejemo za značilnico zveze *Cystopteridion* (ne *Violo biflorae-Cystopteridion* v smislu Mucina et al. 2016), v katero

za zdaj uvrščamo večino novo opisanih sintaksonov (razen asociacije *Paederoto luteae-Potentilletum caulescentis,* ki jo uvrščamo v zvezo *Physoplexido comosae-Saxifragion petraeae*). V članku razmišljamo tudi o novi zvezi združb vlažnih skalnih razpok v Jugovzhodnih Alpah in severnem delu Dinarskega gorstva, ki bi bila ekološka vikarianta zvezi *Physoplexido comosae-Saxifragion petraeae*. Primerni vrsti za poimenovanje take zveze sta vrsti *Paederota lutea* in *Astrantia carniolica* (*Astrantio carniolicae-Paederotion luteae* nom. prov.). Za veljaven opis takšne zveze bi bile potrebne nadaljnje raziskave, predvsem pa upoštevanje podobnih sintaksonov iz drugih delov Jugovzhodnih Alp in Dinarskega gorstva in bolj obsežna primerjava z numeričnimi metodami.

V preučenih združbah vlažnih skalnih razpok ponekod uspevata še dve evropsko varstveni pomembni vrsti *Aquilegia iulia* in *Hladnikia pastinacifolia* in večje število zavarovanih vrst: *Cyclamen purpurascens, Gentiana clusii, Gymnadenia odoratissima, Hemerocallis lilioasphodelus*, *Leontopodium alpinum, Pinguicula alpina, Primula auricula, Primula* × *venusta* in *Taxus baccata* in nekaterih drugih vrst iz rdečega seznama: *Schoenus nigricans, Veratrum nigrum*. Preučene združbe sodijo v Natura 2000 habitatni tip 8210 Karbonatna skalnata pobočja z vegetacijo skalnih razpok, sestoji asociacij *Astrantio-Primuletum* in *Astrantio-Pinguiculetum* tudi v Natura 2000 habitatni tip 7220 Lehnjakotvorni izviri (*Cratoneurion*).

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Appendix

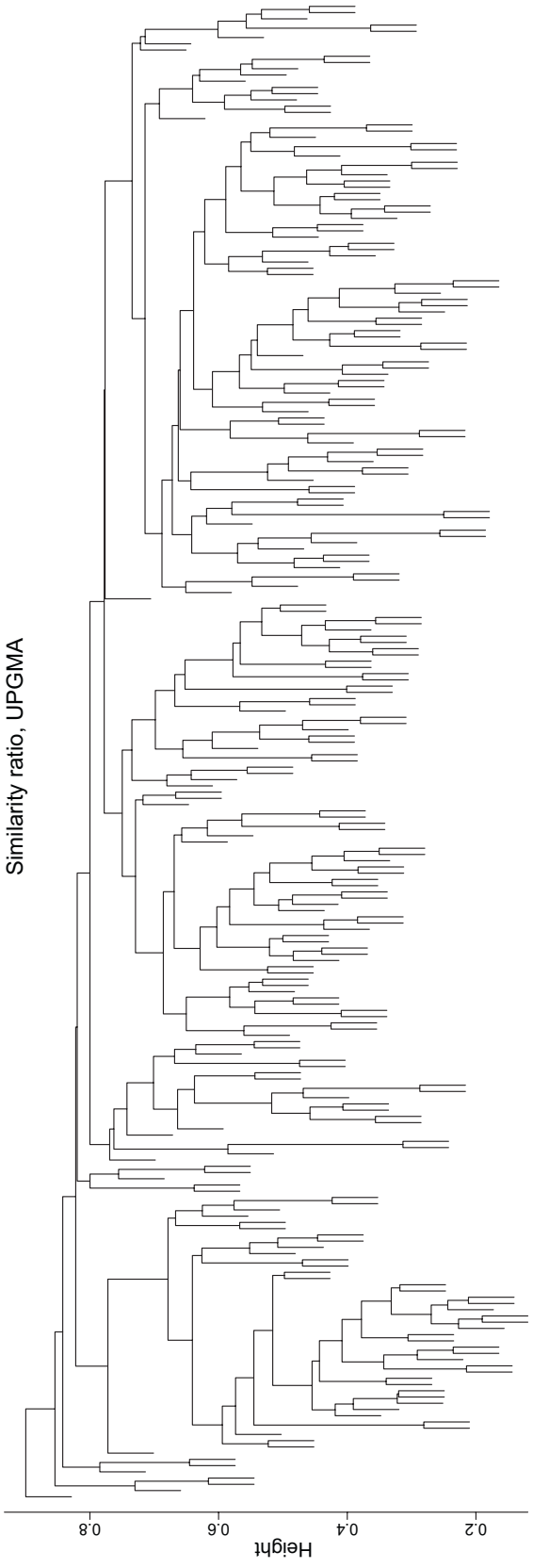

Figure 14: Dendrogram of relevés of rock crevice communities with *Primula carniolica* in the northwestern part of its ditribution area.

Slika 14: Dendrogram popisov združb skalnih razpok z vrsto *Primula carniolica* v severozahodnem delu njenega areala.

Table 1 (Tabela 1): *Astrantio carniolicae-Primuletum carniolicae*. Relevé number 1–43.

	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Database number of relevé (Delovna številka popisa)		269367	263162	269183	269213	274405	274329	278101	234544	234553	274475	278088	269264	241571	241573	271067	274320
	Elevation in m (Nadmorska višina v m)		450	435	435	410	600	480	435	590	700	455	540	590	760	750	310	380
	Aspect (Lega)		SSE	NE	N	N	N	N	SW	W	N	SW	SW	S	NE	N	S	NNE
	Slope in degrees (Nagib v stopinjah)		90	90	90	80	80	85	80	80	95	90	90	70	80-100	80	90	80
	Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
	Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	60	100	100	100
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	20	20	30	30	20	30	30	30	20	30	30	30	40	50	30	40
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	20	20	20	40	20	20	10	20	20	20	30	20	30	30	10	50
	Number of species (Število vrst)		15	20	13	14	18	26	10	18	16	12	11	11	21	14	21	22
	Relevé area (Velikost popisne ploskve)	m^2	5	10	5	5	10	10	15	10	10	10	20	5	10	10	10	10
	Date of taking relevé (Datum popisa)		3/31/2017	9/12/2016	4/7/2017	4/13/2017	4/23/2018	5/8/2018	12,6.2019	8/26/2003	8/26/2003	6/14/2018	12,6.2019	5/25/2017	5/5/2011	5/5/2011	4/29/2018	5/8/2018
	Locality (Nahajališče)		Kazarska grapa-Žabže	Orehovska grapa	Orehovska grapa	Kazarska grapa-Beli potok	Kazarska grapa	Gorenja Trebuša Srna grapa	Gačnik-Statarska grape	Poldanovec - Govčenk	Stanov rob - Govška grapa	Gorenja Trebuša Makčeva grapa	Gačnik	Police-Poličnica	Bukov vrh Brusova grapa	Bukov vrh-Suha grapa	Gorenja Trebuša Srna grapa	Gorenja Trebuša Srna grapa
	Quadrant (Kvadrant)		9849/4	9849/4	9849/4	9849/3	9849/3	9949/3	9949/1	9948/4	9948/4	9949/3	9949/1	9849/3	9949/3	9949/3	9949/3	9949/3
	Coordinate GK Y (D-48)	m	416348	418168	418167	415883	415406	410696	411018	409507	409086	410176	411215	415172	413871	413929	410038	410195
	Coordinate GK X (D-48)	m	5110970	5110871	5110855	5110618	5111232	5100026	5103400	5097980	5098562	5100701	5103015	5110614	5095748	5095734	5100136	5100069
	Diagnostic species of the association (Diagnostične vrste asociacije)																	
AP	*Primula carniolica*	E1	1	3	3	2	2	2	1	r	+	2	+	2	1	2	2	+
AP	*Palustriella commutata*	E0	+	+	.	1	1	+	.	1	1	1	2	1	1	1	1	1
AP	*Astrantia carniolica*	E1	.	1	+	1	+	.	+	2	2	2	2	1	1	1	1	1
AP	*Pinguicula alpina*	E1	1	.	+	.	+	.	.	1	+	.	1	.	+	+	+	+
AP	*Hymenostylium recurvirostre*	E0	+	1	1	.	.	+	+	3	.	+	1	.	.	.	+	.
PsSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	+	+	+	+	+	+	+	r	.	.	.	+	+	.	+	+
EP	*Molinia arundinacea*	E1	.	.	.	.	.	.	.	+	+	1	1	+	.	.	.	.
AP	*Valeriana saxatilis*	E1	.	.	.	.	.	.	+	+	+	.	+	.	+	+	.	.
ES	*Carex mucronata*	E1	.	.	.	.	.	.	.	r	.	.	.	+	.	.	.	.
	Diagnostic species of the subassociation (Diagnostične vrste subasociacij)																	
AP	*Paederota lutea*	E1	.	.	.	.	+	1	+	2	1	+	1	.	2	1	2	2
AP	*Aster bellidiastrum*	E1	.	.	.	1	+	+	+	1	+	1	1	2	1	+	1	1

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
273974	275147	275162	258062	268309	271065	260958	266149	273716	258590	269215	269184	263158	269178	269256	263160	263180	269180	263163	269187	269193	266721	269201	269253	263171	266719	266711
755	430	430	230	278	270	230	255	240	480	408	435	430	425	570	430	465	430	440	475	520	440	470	560	475	440	370
N	SSW	NNE	N	E	W	W	NE	NW	SE	S	E	SW	SE	S	N	N	NE	N	SW	NE	S	NEE	NE	NE	S	N
85	90	90	95	80	85-95	95	80	95	80	85	90	80	85	85	80	80	85	90	90	90	85	80	80	90	80	90
D	D	D	D	D	D	D	D	D	D	D	D	Tu	D	D	D	D	D	D	D	D	Tu	D	D	D	D	D
Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30	30	20	30	30	30	30	30	25	30	30	60	40	30	35	30	40	30	60	40	20	40	30	30	30	40	30
20	20	30	30	20	20	20	40	30	30	40	30	80	80	60	70	60	80	40	40	30	70	30	50	40	39	40
16	27	24	32	17	17	26	12	27	15	21	23	10	8	13	13	14	14	15	14	14	11	10	15	13	19	12
10	15	15	10	10	10	10	10	10	5	10	5	10	10	10	10	10	5	10	10	10	20	5	5	10	10	10
7/2/2018	4/22/2019	4/22/2019	8/30/2015	13,8,2017	4/29/2018	4/17/2016	4/9/2017	9/6/2018	9/29/2015	4/13/2017	4/7/2017	9/12/2016	4/7/2017	5/25/2017	9/12/2016	9/12/2016	4/7/2017	9/12/2016	4/7/2017	4/7/2017	4/13/2017	4/7/2017	5/25/2017	9/12/2016	4/13/2017	4/13/2017
Gačnik	Gačnik	Gačnik-Stararska grape	Gorenja Trebuša - Žveplenica	Gorenja Trebuša - Trebušica	Gorenja Trebuša - Trebušica	Gorenja Trebuša - Žveplenica	Gačnik	Gorenja Trebuša - Žrčin	Govškarca-Kanomlja	Kazarska grapa - Bei potok	Orehovska grapa	Orehovska grapa	Orehovska grapa	Police-Poličnica	Orehovska grapa	Orehovska grapa	Orehovska grapa	Orehovska grapa	Orehovska grapa	Orehovska grapa	Kazarska grapa-Beli ptok	Orehovska grapa	Police-Poličnica	Orehovska grapa	Kazarska grapa - Beli potok	Kazarska grapa - Beli potok
9949/1	9949/1	9949/1	9948/2	9948/4	9948/4	9948/2	9949/1	9948/2	9949/4	9849/3	9849/4	9849/4	9849/4	9849/3	9849/4	9849/4	9849/4	9849/4	9849/4	9849/4	9849/3	9849/4	9849/3	9849/4	9849/3	9849/3
412054	410952	411029	409693	409690	409679	409629	410415	409699	422008	415865	418170	418202	418217	415246	418199	418005	418186	418136	418148	418033	415685	418135	415303	418003	415705	415587
5101908	5103425	5103378	5103390	5100882	5100840	5103317	5104084	5102978	5099627	5110646	5110868	5110828	5110864	5110577	5110837	5111065	5110842	5110900	5110934	5111054	5110658	5110903	5110488	5111044	5110657	5110716
1	1	1	1	1	1	2	1	+	3	3	3	+	1	+	2	2	3	2	3	2	2	1	2	2	3	2
1	2	2	+	+	.	1	1	1	2	3	1	4	4	3	3	2	2	2	2	1	2	2	3	1	2	1
+	+	+	1	+	1	+	.	+	.	1	+	3	1	3	2	2	+	1	.	1	2	1	+	2	2	2
.	+	+	2	2	1	.	+	1	+	+	1	1	+	3	+	1	+	1	2	2	2	3	3	+	2	3
.	1	.	+	.	+	+	.	1	2	1	1	4	4	4	4	3	4	3	3	3	3	2	2	2	1	3
+	+	.	+	+	+	+	.	.	+	r	+	.	.	.	.	.	+	.	.	.	.	.	r	.	r	.
.	+	.	.	.	+	.	+	.	.	.	.	+	.	1	.	+	.	+	+	+	.	.	+	1	+	.
+	+	+	1	1	1	1	3	2	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.
.	.	.	1	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	1	+	+	+	.	+	+	+
1	1	2	1	+	1	2	1	1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1	+	+	2	2	+	1	1	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**																	
	Orthothecium rufescens	E0	1	+	1	2	1	+	.	+	+	+	.	+	2	1	+	+
	Tofieldia calyculata	E1	.	r	.	.	.	.	.	.	.	.	.	.	1	.	+	.
	Aster bellidiastrum	E1	.	.	.	1	+	+	+	1	+	1	1	2	1	+	1	1
	Valeriana saxatilis	E1	.	.	.	.	.	.	+	+	+	.	+	.	+	+	.	.
	Carex brachystachys	E1	.	.	.	.	1	r	+	2	+	.	.	.	+	.	+	+
	Preissia quadrata	E0	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.
	Asplenium viride	E1	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	+
	Valeriana tripteris	E1	.	.	.	.	.	+	.	.	.	r	.	.	.	.	+	+
	Fissidens dubius	E0	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.
	Barbula crocea	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Viola biflora	E1	.	.	.	.	.	.	.	+	1	.	.	.	.	.	.	.
	Eucladium verticillatum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Pellia endiviifolia	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.
	Soldanella minima	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.
	Moehringia muscosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PcSp	***Physoplexido comosae-Saxifragion petraeae***																	
	Campanula cespitosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hieracium pospichalii	E1	.	.	.	.	.	.	+	.	.	r	.	.	.	.	.	.
PC	***Potentilletalia caulescentis***																	
	Potentilla caulescens	E1	.	.	+	.	.	.	.	.	r	.	.	.	.	.	.	.
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***																	
	Asplenium trichomanes	E1	+	.	+	.	+	+	.	.	r	r	.	.	.	.	.	.
	Asplenium ruta-muraria	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.
TR	***Thlaspietea rotundifolii***																	
	Hieracium bifidum	E1	.	+	+	.	.	.	.	.	.	.	.	.	.	+	.	.
	Adenostyles glabra	E1	.	.	.	.	.	.	.	+	.	.	.	.	r	+	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+
	Achnatherum calamagrostis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Petasites paradoxus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CD	***Caricetalia davallianae***																	
	Parnassia palustris	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.
	Schoenus nigricans	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***																	
	Conocephalum conicum	E0	+	+	2	1	1	+	.	.	.	1	.	.	.	.	+	2
	Campylium stellatum	E0	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Bryum pseudotriquetrum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Cratoneuron filicinum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Distichium capillaceum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Campylium calcareum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Campylium elodes	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Ditrichum flexicaule	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***																	
	Sesleria caerulea	E1	.	.	.	.	.	.	1	r	.	.	+	+	+	1	.	.
	Phyteuma orbiculare	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.
	Carex firma	E1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	.
	Laserpitium peucedanoides	E1	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.
	Betonica alopecuros	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
1	1	2	1	+	.	1	1	1	2	1	2	.	.	1	+	+	1	.	1	1	.	1	1	+	.	3
.	+	+	+	+	+	+	+	1	.	+	+	.	.	.	+	1	+	+	+	+	1	+	+	+	+	.
1	+	+	2	2	+	1	1	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
+	+	+	1	1	1	1	3	2	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.
.	r	.	.	1	.	.	.	+	1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+
.	.	.	+	.	.	.	.	+	.	+	+	.	.	+	.	+	.	.	.	+	.	.	+	+	.	.
+	+	+	.	.	.	.	.	.	.	.	+	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
.	.	1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	+	.	1	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FB	***Festuco-Brometea***																	
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Galium lucidum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CA	***Calthion***																	
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r
	Cirsium oleraceum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***																	
	Salix appendiculata	E2a	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	r
	Salix glabra	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MuA	***Mulgedio-Aconitetea***																	
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.	.	r	.	.	.	r	.
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***																	
	Eupatorium cannabinum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***																	
	Laserpitium siler	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.
	Laserpitium latifolium	E1	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.
EP	***Erico-Pinetea***																	
	Calamagrostis varia	E1	.	.	.	.	.	.	.	.	.	.	.	+	+	.	+	.
	Erica carnea	E1	.	.	.	r	.	.	.	.	.	.	.	.	r	.	.	.
	Rhododendron hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	+	.	.
	Carex ornithopoda	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.
	Aquilegia nigricans	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Polygala chamaebuxus	E1	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Piceetea***																	
	Veronica urticifolia	E1	+	+	.	.	+	+	.	.	.	.	.	.	.	.	.	.
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Picea abies	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Gentiana asclepiadea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***																	
	Cyclamen purpurascens	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Primula vulgaris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Knautia drymeia	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Potentilla carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r
	Hemerocallis lilioasphodelus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Lamium orvala	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***																	
	Aruncus dioicus	E1	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Phyllitis scolopendrium	E1	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FS	***Fagetalia sylvaticae***																	
	Mycelis muralis	E1	.	r	+	.	.	+	.	r	.	.	.	.	.	.	.	.
	Salvia glutinosa	E1	r	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.
	Carex umbrosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+
	Galeobdolon flavidum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+
	Galium laevigatum	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.
	Brachypodium sylvaticum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Melica nutans	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Prenanthes purpurea	E1	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+
	Cardamine pentaphyllos	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***																	
	Carex flacca	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Fraxinus ornus	E1	.	.	.	r	.	r	.	.	.	.	.	.	.	.	.	.
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***																	
	Carex digitata	E1	+	+	+	+	+	.	.	.	.	.	.	.	.	.	+	r
	Hedera helix	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.
	Clematis vitalba	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Hepatica nobilis	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.
	Taxus baccata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Frangula alnus	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ML	**Mosses and lichens (Mahovi in lišaji)**																	
	Neckera crispa	E0	.	1	1	+	1	1	.	.	.	.	.	.	.	.	.	.
	Ctenidium molluscum	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.
	Tortella tortuosa	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1
	Heterocladium heteropterum	E0	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Marchantia polymorpha	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.
	Mnium thomsonii	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.
	Lophozia sp.	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Dichodontium pellucidum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Bryum sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Encalypta vulgaris	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mnium marginatum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Rhynchostegium murale	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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Table 1 (Tabela 1): *Astrantio carniolicae-Primuletum carniolicae*. Relevé number 44–56.

	Number of relevé (Zaporedna štev. popisa)		44	45	46	47	48	49	50	51	52	53	54	55	56	Pr.	Fr.
	Database number of relevé (Delovna številka popisa)		269257	269260	269218	269258	269185	269195	269216	266151	269188	266708	269214	269194	269259		
	Elevation in m (Nadmorska višina v m)		575	580	410	580	464	520	410	260	460	525	410	520	580		
	Aspect (Lega)		NE	SE	N	NE	E	SSW	S	N	SE	N	N	SW	S		
	Slope in degrees (Nagib v stopinjah)		90	90	80	85	70	80	80	90	90	70	65	95	80		
	Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D	D		
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
	Stoniness in % (Kamnitost v %)		100	100	100	100	70	100	100	100	100	100	100	100	100		
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	25	30	40	40	60	40	50	40	30	70	40	20	30		
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	65	30	50	40	30	60	80	30	40	30	50	20	30		
	Number of species (Število vrst)		12	16	17	16	15	23	20	7	7	23	22	17	13		
	Relevé area (Velikost popisne ploskve)	m^2	10	10	10	20	5	5	10	10	5	10	10	5	5		
	Date of taking relevé (Datum popisa)		5/25/2017	5/25/2017	4/13/2017	5/25/2017	4/7/2017	4/7/2017	4/13/2017	4/9/2017	4/7/2017	4/13/2017	4/13/2017	4/7/2017	5/25/2017		
	Locality (Nahajališče)		Police-Poličnica	Police-Poličnica	Kazarska grapa-Beli potok	Police-Poličnica	Orehovska grapa	Orehovska grapa	Kazarska grapa-Beli potok	Gačnik	Orehovska grapa	Kazarska grapa-Beli potok	Kazarska grapa-Beli potok	Orehovska grapa	Police-Poličnica		
	Quadrant (Kvadrant)		9849/3	9849/3	9849/3	9849/3	9849/4	9849/4	9849/3	9949/1	9849/4	9849/3	9849/3	9849/4	9849/3		
	Coordinate GK Y (D-48)	m	415224	415228	415848	415222	418156	418009	415836	410394	418144	415493	415892	418037	415225		
	Coordinate GK X (D-48)	m	5110523	5110540	5110618	5110537	5110906	5111059	5110650	5104079	5110929	5110727	5110602	5111081	5110585		
	Diagnostic species of the association (Diagnostične vrste asociacije)															Pr.	Fr.
AP	*Primula carniolica*	E1	+	1	1	3	1	2	+	1	2	2	1	2	1	56	100
AP	*Palustriella commutata*	E0	4	1	3	3	2	2	4	2	4	.	1	.	.	50	89
AP	*Astrantia carniolica*	E1	1	1	2	2	1	1	3	.	+	+	1	.	1	49	88
AP	*Pinguicula alpina*	E1	2	2	2	1	2	2	1	3	3	1	1	2	2	48	86
AP	*Hymenostylium recurvirostre*	E0	3	1	+	2	+	3	1	.	.	1	1	1	1	43	77
PsSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	.	+	.	.	.	.	+	.	+	.	.	.	.	27	48
EP	*Molinia arundinacea*	E1	.	+	.	1	1	+	.	.	.	1	+	.	+	24	43
AP	*Valeriana saxatilis*	E1	.	.	+	1	.	.	.	+	.	+	+	+	+	24	43
ES	*Carex mucronata*	E1	.	1	+	+	.	+	.	.	.	+	1	1	2	21	38
	Diagnostic species of the subassociation (Diagnostične vrste subasociacij)																
AP	*Paederota lutea*	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	22	39
AP	*Aster bellidiastrum*	E1	.	.	.	.	.	.	.	.	.	.	1	.	.	24	43

	Number of relevé (Zaporedna štev. popisa)		44	45	46	47	48	49	50	51	52	53	54	55	56	Pr.	Fr.
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**																
	Orthothecium rufescens	E0	3	2	2	2	1	+	1	1	.	1	1	+	1	47	84
	Tofieldia calyculata	E1	+	+	+	.	+	+	.	.	.	1	.	.	.	30	54
	Aster bellidiastrum	E1	.	.	.	.	.	.	.	.	.	.	1	.	.	24	43
	Valeriana saxatilis	E1	.	.	+	1	.	.	.	+	.	+	+	+	+	24	43
	Carex brachystachys	E1	.	+	.	1	.	.	+	.	.	+	.	.	.	18	32
	Preissia quadrata	E0	.	+	+	.	.	.	+	.	.	+	1	.	.	16	29
	Asplenium viride	E1	.	.	r	.	.	.	.	.	.	+	+	.	.	12	21
	Valeriana tripteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	6	11
	Fissidens dubius	E0	.	.	.	.	.	.	.	.	.	.	+	+	.	5	9
	Barbula crocea	E0	.	.	.	.	.	+	.	.	.	.	.	1	.	5	9
	Viola biflora	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	7
	Eucladium verticillatum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	4	7
	Pellia endiviifolia	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Soldanella minima	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Moehringia muscosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
PcSp	***Physoplexido comosae-Saxifragion petraeae***																
	Campanula cespitosa	E1	+	+	+	+	.	.	+	.	.	.	.	.	1	15	27
	Hieracium pospichalii	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
PC	***Potentilletalia caulescentis***																
	Potentilla caulescens	E1	.	.	.	.	.	.	.	.	.	.	.	+	r	12	21
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
AT	***Asplenietea trichomanis***																
	Asplenium trichomanes	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	8	14
	Asplenium ruta-muraria	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	6	11
TR	***Thlaspietea rotundifolii***																
	Hieracium bifidum	E1	r	.	.	+	.	.	.	.	.	.	.	.	.	10	18
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	7	13
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	5	9
	Achnatherum calamagrostis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Petasites paradoxus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Hieracium porrifolium	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	1	2
CD	***Caricetalia davallianae***																
	Parnassia palustris	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Schoenus nigricans	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
MC	***Montio-Cardaminetea***																
	Conocephalum conicum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	18	32
	Campylium stellatum	E0	.	.	.	.	.	.	.	.	.	.	1	.	.	4	7
	Bryum pseudotriquetrum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Cratoneuron filicinum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Distichium capillaceum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Campylium calcareum	E0	.	.	.	.	.	.	.	.	.	.	1	.	.	1	2
	Campylium elodes	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	1	2
	Ditrichum flexicaule	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	1	2
ES	***Elyno-Seslerietea***																
	Sesleria caerulea	E1	.	+	+	1	1	1	.	+	1	1	+	+	1	34	61
	Phyteuma orbiculare	E1	.	.	+	.	1	+	.	.	.	+	.	.	.	5	9
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	7
	Carex firma	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Laserpitium peucedanoides	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Betonica alopecuros	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2

	Number of relevé (Zaporedna štev. popisa)		44	45	46	47	48	49	50	51	52	53	54	55	56	Pr.	Fr.
FB	***Festuco-Brometea***																
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Galium lucidum	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	1	2
CA	***Calthion***																
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Cirsium oleraceum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
BA	***Betulo-Alnetea***																
	Salix appendiculata	E2a	.	.	.	.	.	.	.	.	+	.	+	.	.	7	13
	Salix glabra	E1	.	.	r	+	.	.	.	.	.	+	.	.	r	6	11
MuA	***Mulgedio-Aconitetea***																
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
EA	***Epilobietea angustifolii***																
	Eupatorium cannabinum	E1	r	.	.	+	.	+	.	.	.	.	.	.	.	3	5
TG	***Trifolio-Geranietea***																
	Laserpitium siler	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	2	4
	Laserpitium latifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
EP	***Erico-Pinetea***																
	Calamagrostis varia	E1	+	+	.	.	.	.	+	.	.	.	.	+	.	18	32
	Erica carnea	E1	.	.	+	.	1	+	.	.	.	+	+	+	.	12	21
	Rhododendron hirsutum	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	6	11
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	4	7
	Carex ornithopoda	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Aquilegia nigricans	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	2	4
	Polygala chamaebuxus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
VP	***Vaccinio-Piceetea***																
	Veronica urticifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	7
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Picea abies	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Gentiana asclepiadea	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	1	2
AF	***Aremonio-Fagion***																
	Cyclamen purpurascens	E1	.	.	.	.	+	+	.	.	.	+	.	.	.	7	13
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	5	9
	Primula vulgaris	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	3	5
	Knautia drymeia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Cardamine trifolia	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	2	4
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Potentilla carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Hemerocallis lilioasphodelus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Lamium orvala	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
TA	***Tilio-Acerion***																
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Phyllitis scolopendrium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2

	Number of relevé (Zaporedna štev. popisa)		44	45	46	47	48	49	50	51	52	53	54	55	56	Pr.	Fr.
FS	***Fagetalia sylvaticae***																
	Mycelis muralis	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	11	20
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	5	9
	Carex umbrosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Galeobdolon flavidum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Brachypodium sylvaticum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Melica nutans	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	2	4
	Prenanthes purpurea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Cardamine pentaphyllos	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	2
QP	***Quercetalia pubescenti-petraeae***																
	Carex flacca	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	3	5
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	1	2
QF	***Querco-Fagetea***																
	Carex digitata	E1	.	+	.	.	+	+	+	.	.	+	+	.	.	18	32
	Hedera helix	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	5	9
	Clematis vitalba	E1	.	.	.	.	.	.	+	.	.	.	+	.	.	4	7
	Hepatica nobilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	3	5
	Taxus baccata	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Frangula alnus	E2a	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
ML	**Mosses and lichens (Mahovi in lišaji)**																
	Neckera crispa	E0	.	.	.	.	1	1	.	.	.	1	+	.	.	15	27
	Ctenidium molluscum	E0	.	.	.	.	.	+	.	.	.	.	.	+	.	8	14
	Tortella tortuosa	E0	.	.	.	.	.	+	.	.	.	.	.	1	.	6	11
	Heterocladium heteropterum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Marchantia polymorpha	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Mnium thomsonii	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	4
	Lophozia sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Dichodontium pellucidum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Bryum sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	2
	Encalypta vulgaris	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	1	2
	Mnium marginatum	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	1	2
	Rhynchostegium murale	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	1	2

Legend / Legenda

D Dolomite – dolomit
Tu Tufa – lehnjak
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

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Table 2 (Tabela 2): *Asrantio carniolicae-Pinguiculetum alpinae.*

Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Pr.	Fr.
Database number of relevé (Delovna številka popisa)		218422	274938	277751	277752	269176	273916	275187	275846	230488	273681	269333	271028	272241	275019	275441	275440	275163	275020	273679		
Elevation in m (Nadmorska višina v m)		205	233	240	240	420	590	250	470	350	265	380	338	340	340	240	240	460	330	270		
Aspect (Lega)		E	NNE	S	SW	E	SW	NW	SW	NW	NW	SW	SW	NW	SW	NW	NW	SWW	SW	SE		
Slope in degrees (Nagib v stopinjah)		80	90	85	85	85	100	90	95	80	95	80	90	80	90	80	85	90	85	80		
Parent material (Matična podlaga)		D	D	L	L	D	D	Br	D	DC	D	D	L	DC	LCM	D	D	Tu	LCM	Do		
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
Stoniness in % (Kamnitost v %)		80	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	30	30	15	20	30	30	50	30	30	30	30	40	30	40	60	60	35	70	40		
Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	30	30	15	20	20	30	20	290	40	20	20	50	40	40	30	40	40	20	40		
Number of species (Število vrst)		9	7	10	14	12	10	10	10	33	19	12	12	10	8	10	10	14	11	11		
Relevé area (Velikost popisne ploskve)	m^2	10	5	10	10	10	20	10	10	10	20	10	10	10	10	10	10	15	10	10		
Date of taking relevé (Datum popisa)		3/23/2008	5/20/2018	7/9/2019	7/9/2019	4/7/2017	7/25/2018	4/19/2019	6/17/2019	6/2/2009	9/4/2018	5/18/2017	4/17/2018	8/23/2018	7/1/2018	5/7/2019	5/7/2019	4/22/2019	7/1/2018	9/4/2018		
Locality (Nahajališče)		Tolminska korita	Tolminka-Korita	Magozd-Soča-Globoščak	Magozd-Soča-Globoščak	Orehovska grapa	Gačnik-Medved	Magozd-Soča-Otona	Horenja- Riževec	Humar-Bačа	Gorenja Trebuša-Trebušica	Dabrček	Malenščck-Brinta	Klonte-Bačа	Knežа-Velike luti	Magozd-Soča-Otona	Magozd-Soča-Otona	Gačnik-Stararska grapa	Knežа-Velike luti	Gorenja Trebuša-Trebušica		
Quadrant (Kvadrant)		9848/1	9748/3	9747/1	9747/1	9849/4	9949/1	9747/1	9949/1	9849/1	9948/2	9849/3	9747/4	9849/1	9849/1	9747/1	9747/1	9949/1	9849/1	9948/4		
Coordinate GK Y (D-48)	m	403250	403232	390441	390448	418247	411191	390505	413890	415394	409638	414615	396405	414991	410855	390493	390492	411100	410935	409708		
Coordinate GK X (D-48)	m	5118042	5118066	5126604	5126600	5110810	5102833	5126397	5103353	5113963	5101452	5109345	5120770	5113776	5116774	5126440	5126430	5103416	5116669	5101244		

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Pr.	Fr.
	Diagnostic species of the association (Diagnostične vrste asociacije)																					Pr.	Fr.
AP	*Pinguicula alpina*	E1	2	2	2	2	3	3	3	2	2	3	2	3	+	3	3	+	3	3	3	19	100
AP	*Hymenostylium recurvirostre*	E0	1	.	1	1	2	2	1	1	2	3	+	3	1	2	1	3	2	.	.	16	84
AP	*Palustriella commutata*	E0	2	2	.	1	.	.	+	.	2	.	1	3	2	3	2	3	3	+	3	14	74
AP	*Astrantia carniolica*	E1	.	1	.	.	.	+	1	.	.	+	1	.	2	2	2	3	2	3	.	11	58
TR	*Petasites paradoxus*	E1	.	.	+	.	.	.	.	.	r	+	.	+	.	+	.	.	.	+	+	7	37
	Differential species of the variant (Razlikovalnica variante)																						
EP	*Molinia arundinacea*	E1	.	.	.	.	.	.	.	.	r	+	+	+	1	2	2	3	1	2	3	11	58
AT	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**																						
	Tofieldia calyculata	E1	2	2	+	+	1	.	.	.	1	1	.	.	+	+	.	.	+	.	+	11	58
	Aster bellidiastrum	E1	+	+	1	1	.	+	.	.	2	1	.	.	+	.	.	.	2	1	1	11	58
	Orthothecium rufescens	E0	.	.	.	.	2	+	+	+	1	1	+	.	.	.	.	.	1	.	1	9	47
	Paederota lutea	E1	.	.	.	.	.	+	.	1	.	+	2	.	.	.	.	.	+	.	.	5	26
	Saxifraga aizoides	E1	.	.	.	.	.	.	.	.	2	.	.	.	+	.	+	+	.	.	.	4	21
	Carex brachystachys	E1	.	.	.	+	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	3	16
	Pellia endiviifolia	E0	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.	.	+	3	16
	Barbula crocea	E0	.	.	.	.	.	.	.	.	2	1	.	.	.	.	.	.	.	1	.	3	16
	Preissia quadrata	E0	.	.	.	.	.	.	.	.	+	2	+	.	.	.	.	.	.	.	.	3	16
	Valeriana saxatilis	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	5
	Selaginella helvetica	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	5
	Eucladium verticillatum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	5
	Fissidens dubius	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	5
PCSp	***Physoplexido comosae-Saxifragion petraeae***																						
	Campanula cespitosa	E1	+	.	+	+	+	.	+	+	+	.	.	+	.	.	.	.	.	.	+	9	47
	Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	.	1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	2	11
	Micromeria thymifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	5
PcSp	***Potentilletalia caulescentis***																						
	Potentilla caulescens	E1	.	.	.	+	r	.	.	.	.	2	.	.	.	.	.	.	.	.	.	3	16
AT	***Asplenietea trichomanis***																						
	Asplenium trichomanes	E1	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	11
TR	***Thlaspietea rotundifolii***																						
	Achnatherum calamagrostis	E1	.	.	.	.	r	.	.	r	.	.	.	.	.	.	.	.	.	.	.	2	11

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Pr.	Fr.
	Adenostyles glabra	E1	.	.	.	.	.	r	.	.	r	.	.	.	.	.	.	.	.	.	.	2	11
	Hieracium bifidum	E1	.	.	.	.	.	.	.	.	r	.	.	+	.	.	.	.	.	.	.	2	11
	Hieracium porrifolium	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	5
CD	***Caricetalia davallianae***																						
	Carex lepidocarpa	E1	.	.	.	.	.	.	.	.	.	+	.	.	1	.	+	1	.	.	.	4	21
MC	***Montio-Cardaminetea***																						
	Conocephalum conicum	E0	.	1	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	2	11
	Cratoneuron filicinum	E0	.	.	.	1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	2	11
	Bryum pseudotriquetrum	E0	.	.	.	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	2	11
ES	***Elyno-Seslerietea***																						
	Sesleria caerulea	E1	1	1	+	.	+	+	.	.	+	.	1	1	.	1	1	+	1	+	.	13	68
	Carex mucronata	E1	1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	2	11
MA	***Molinio-Arrhenatheretea***																						
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	5
	Pimpinella major	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	5
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	5
BA	***Betulo-Alnetea***																						
	Salix appendiculata	E1	.	.	.	.	.	.	+	.	r	+	.	+	.	.	.	.	.	.	.	4	21
NuA	***Mulgedio-Aconitetea***																						
	Petasites hybridus	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	5
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	1	5
EA	***Epilobietea angustifolii***																						
	Eupatorium cannabinum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	5
EP	***Erico-Pinetea***																						
	Calamagrostis varia	E1	.	.	+	+	.	.	+	.	2	+	.	1	.	.	.	.	+	.	.	7	37
	Erica carnea	E1	.	.	.	.	.	.	.	.	r	.	+	+	.	.	.	.	.	.	.	3	16
	Leontodon incanus	E1	r	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	2	11
	Carex ornithopoda	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	2	11
	Gymnadenia odoratissima	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	1	5
VP	***Vaccinio-Piceetea***																						
	Picea abies	E1	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	5
	Veronica urticifolia	E1	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	5
FS	***Fagetalia sylvaticae***																						
	Galium laevigatum	E1	.	.	.	+	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	2	11

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Pr.	Fr.
	Salvia glutinosa	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	5
	Fagus sylvatica	E1	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	5
	Laburnum alpinum	E2a	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	5
QP	***Quercetalia pubescenti-petraeae***																						
	Carex flacca	E1	.	.	.	.	.	.	.	.	.	.	.	1	.	.	+	1	.	1	.	4	21
	Ostrya carpinifolia	E1	.	.	.	.	+	.	.	r	.	.	.	.	.	.	.	.	.	.	.	2	11
QF	***Querco-Fagetea***																						
	Potentilla erecta	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	5
SP	***Salicetea purpureae***																						
	Salix eleagnos	E1	.	.	+	+	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	4	21
ML	**Mosses and lichens (Mahovi in lišaji)**																						
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	5
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	5
	Leiocolea collaris	E0	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	5
	Reboulia hemisphaerica	E0	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	5
	Tortella tortuosa	E0	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	5
	Neckera crispa	E0	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	5

Legend / Legenda

Br Breccia – breča
C Chert – roženec
D Dolomite – dolomit
L Limestone – apnenec
M Marlstone – laporovec
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

Table 3 (Tabela 3): *Campanulo cespitosae-Saxifragetum aizoidis.*

	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Pr.	Fr.
	Database number of relevé (Delovna številka popisa)		271077	271078	271075	272101	272102	272105	272126	272127	272106	256295	269090	257491	271257	273342		
	Elevation in m (Nadmorska višina v m)		400	400	392	414	265	260	255	255	260	327	990	755	420	460		
	Aspect (Lega)		SSE	SE	SW	SW	SE	SE	SE	SSE	SE	SE	NW	NEE	NE	E		
	Slope in degrees (Nagib v stopinjah)		70	70	85	80	85	90	85	85	80	100	80	80	85	80		
	Parent material (Matična podlaga)		LMC	LMC	LMC	LMC	D	DC	DC	DC	DC	A	AC	A	LMC	LMC		
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
	Stoniness in % (Kamnitost v %)		80	80	80	80	80	90	80	80	70	100	80	80	70	70		
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	40	40	30	40	30	20	40	40	50	15	30	30	50	50		
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	40	10	40	40	30	25	39	30	20	10	20	20	50	30		
	Number of species (Število vrst)		15	10	12	25	18	18	15	13	20	11	11	18	25	26		
	Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	10	10	10	10	10	5	10	10	10	10		
	Date of taking relevé (Datum popisa)		4/26/2018	4/26/2018	4/26/2018	6/2/2018	6/2/2018	6/2/2018	8/15/2018	8/15/2018	6/2/2018	4/19/2015	5/17/2017	5/12/2015	5/20/2018	8/10/2018		
	Locality (Nahajališče)		Volarja-Gregorčičev slap	Volarja-Gregorčičev slap	Volarja-Gregorčičev slap	Godiča-Beri	Godiča	Godiča	Godiča	Godiča	Godiča	Zadlaščica-Perbla	Kacenpoh-Kobla	Linderpoh-Špricovbl	Tolminka Valley - Zala	Prodarjeva grapa		
	Quadrant (Kvadrant)		9747/4	9747/4	9747/4	9848/2	9848/2	9848/2	9848/2	9848/2	9848/2	9748/4	9749/4	9749/4	9748/3	9849/2		
	Coordinate GK Y (D-48)	m	396956	396957	397001	405021	404708	404660	404631	404636	404636	404710	420118	419818	402551	418767		
	Coordinate GK X (D-48)	m	5120880	5120873	5120880	5116236	5116076	5116070	5116045	5116052	5116052	5119380	5121314	5120042	5119318	5117456		
	Diagnostic species of the association (Diagnostične vrste asociacije)																Pr.	Fr.
AP	*Saxifraga aizoides*	E1	2	2	1	+	3	1	+	1	1	+	+	1	3	+	14	100
AP	*Palustriella commutata*	E0	2	1	3	2	.	1	1	.	.	.	1	1	1	2	10	71
PcSp	*Campanula cespitosa*	E1	.	.	+	+	+	+	1	1	1	+	1	.	+	.	10	71
EP	*Molinia arundinacea*	E1	1	.	1	2	+	1	3	2	1	.	.	+	.	1	10	71
EP	*Calamagrostis varia*	E1	1	.	.	+	.	+	.	.	+	+	+	+	1	+	9	64
AP	*Preissia quadrata*	E0	+	.	.	.	+	+	+	+	+	.	.	+	+	+	9	64
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**																	
	Hymenostylium recurvirostre	E0	.	+	.	.	2	2	3	2	+	.	.	+	.	.	7	50
	Barbula crocea	E0	.	.	.	.	+	+	.	.	+	.	.	.	1	+	5	36
	Pinguicula alpina	E1	2	1	.	.	.	.	.	.	.	.	r	r	.	.	4	29
	Carex brachystachys	E1	+	.	.	.	.	+	.	.	.	.	.	.	+	1	4	29
	Tofieldia calyculata	E1	.	.	.	.	.	1	1	1	2	.	.	.	.	.	4	29

	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Pr.	Fr.
	Orthothecium rufescens	E0	.	.	.	.	.	.	.	.	.	2	1	.	1	1	4	29
	Aster bellidiastrum	E1	.	.	.	.	.	.	.	.	.	1	1	+	.	1	4	29
	Pellia endiviifolia	E0	+	.	+	2	.	.	.	.	.	.	.	.	+	1	5	36
	Jungermannia atrovirens	E0	.	.	.	.	.	.	.	.	+	.	.	.	+	+	3	21
	Valeriana tripteris	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	2	14
	Fissidens dubius	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	+	2	14
	Paederota lutea	E1	.	.	.	.	.	.	.	.	.	1	.	.	.	.	1	7
	Valeriana saxatilis	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	7
	Asplenium viride	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	7
	Viola biflora	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	7
PcSp	***Physoplexido comosae-Saxifragion petraeae***																	
	Campanula carnica	E1	.	.	.	+	.	.	.	.	.	+	.	.	.	+	3	21
	Hieracium pospichalii	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	7
PC	***Potentilletalia caulescentis***																	
	Potentilla caulescens	E1	.	.	.	.	+	+	.	.	+	.	.	+	.	.	4	29
	Primula auricula	E1	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	7
	Rhamnus pumilus	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
AT	***Asplenietea trichomanis***																	
	Asplenium ruta-muraria	E1	.	.	.	.	.	.	.	.	.	+	.	.	+	.	2	14
TR	***Thlaspietea rotundifolii***																	
	Hieracium porrifolium	E1	.	.	.	+	+	+	+	1	+	.	.	.	.	.	6	43
	Petasites paradoxus	E1	+	.	+	.	+	.	+	.	.	.	.	.	.	.	4	29
	Hieracium bifidum	E1	.	.	.	+	.	+	+	.	.	.	.	.	1	.	4	29
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	.	+	.	r	1	3	21
	Leontodon hispidus subsp. *hyoseroides*	E1	+	+	.	.	.	.	.	.	.	.	.	.	.	.	2	14
	Trisetum argenteum	E1	.	.	1	.	.	.	.	.	.	.	.	+	.	.	2	14
	Achnatherum calamagrostis	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	7
CD	***Caricetalia davallianae***																	
	Carex flava agg.	E1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Epilobium alsinifolium	E1	.	.	+	.	.	.	.	.	.	.	.	.	.	.	1	7
	Pinguicula vulgaris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	7
MC	***Montio-Cardaminetea***																	
	Gymnostomum aeruginosum	E0	2	.	2	1	.	.	.	.	.	.	.	.	.	.	3	21
	Campylium stellatum	E0	+	.	.	.	.	.	.	.	.	.	.	.	+	+	3	21
	Conocephalum conicum	E0	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	7
	Bryum pseudotriquetrum	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
	Oxyrrhynchium schleicheri	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	7
	Barbilophozia sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7
ES	***Elyno-Seslerietea***																	
	Sesleria caerulea	E1	.	.	.	+	1	.	1	+	+	+	.	2	1	2	9	64
	Carex mucronata	E1	.	.	.	.	.	r	+	.	.	.	+	.	.	.	3	21
	Carex ornithopodoides	E1	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1	7
FB	***Festuco-Brometea***																	
	Buphthalmum salicifolium	E1	.	.	.	.	+	+	.	1	+	.	.	.	.	.	4	29
MA	***Molinio-Arrhenatheretea***																	
	Caltha palustris	E1	.	.	2	+	.	.	.	.	.	.	.	.	.	.	2	14
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7
BA	***Betulo-Alnetea***																	
	Salix appendiculata	E1	.	.	.	.	+	.	+	+	+	.	.	.	.	+	5	36

	Number of relevé (Zaporedna štev. popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	Pr.	Fr.
MuA	***Mulgedio-Aconitetea***																	
	Chaerophyllum hirsutum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Petasites hybridus	E1	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
EA	***Epilobietea angustifolii***																	
	Eupatorium cannabinum	E1	.	.	.	1	+	+	.	.	.	.	.	.	.	.	3	21
	Tussilago farfara	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7
EP	***Erico-Pinetea***																	
	Erica carnea	E1	.	.	.	.	+	+	1	+	+	.	.	.	.	.	5	36
	Leontodon incanus	E1	.	.	.	+	+	.	.	.	+	.	.	.	.	.	3	21
	Peucedanum austriacum	E1	.	.	.	.	.	+	.	.	+	.	.	.	.	.	2	14
	Carex ornithopoda	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	7
VP	***Vaccinio-Piceetea***																	
	Veronica urticifolia	E1	.	.	.	+	.	.	.	.	.	+	.	+	+	1	5	36
	Saxifraga cuneifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	+	2	14
AF	***Aremonio-Fagion***																	
	Lamium orvala	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Primula vulgaris	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
TA	***Tilio-Acerion***																	
	Acer pseudoplatanus	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Tilia platyphyllos	E2a	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Aruncus dioicus	E1	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	7
FS	***Fagetalia sylvaticae***																	
	Petasites albus	E1	.	.	.	+	.	.	.	.	.	.	.	.	+	.	2	14
	Galium laevigatum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	+	2	14
	Brachypodium sylvaticum	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7
QP	***Quercetalia pubescenti-petraeae***																	
	Carex flacca	E1	2	2	+	.	.	.	.	.	.	.	.	.	.	.	3	21
	Ostrya carpinifolia	E2a	.	.	.	+	.	.	.	+	.	.	.	.	+	.	3	21
	Fraxinus ornus	E2a	r	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7
QF	***Querco-Fagetea***																	
	Hedera helix	E1	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Carex digitata	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	7
SP	***Salicetea purpureae***																	
	Salix purpurea	E2a	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
ML	**Mosses and lichens (Mahovi in lišaji)**																	
	Tortella tortuosa	E0	.	.	.	.	+	.	1	+	+	.	.	.	.	.	4	29
	Brachythecium rutabulum	E0	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Rhynchostegium riparioides	E0	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
	Encalypta streptocarpa	E0	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	7

Legend / Legenda

C Chert – roženec
D Dolomite – dolomit
L Limestone – apnenec
M Marlstone – laporovec
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

Table 4 (Tabela 4): *Primuletum carniolicae* Accetto 2008 *violetosum biflorae*.

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Pr.	Fr.
	Database number of relevé (Delovna štev. popisa)		258588	260931	260936	260938	260929	261055	260932	268210	260915	260940	260930	275149	260916	260917	261056		
	Elevation in m (Nadmorska višina v m)		460	560	550	550	570	600	560	850	550	550	560	430	570	580	600		
	Aspect (Lega)		N	W	W	NWW	SE	NW	NW	NE	NE	NW	NW	N	NW	N	NE		
	Slope in degrees (Nagib v stopinjah)		90	95	85	90	90	70	95	90	80	80	80	80	80	90	95		
	Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
	Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Cover of herb layer in % (Zastiranje zeliščne plasti v %)	E1	20	15	30	20	20	30	20	20	40	60	20	20	30	50	30		
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	10	20	20	10	30	30	20	20	60	80	20	40	20	30	10		
	Number of species (Število vrst)		18	15	28	28	23	26	14	14	17	26	20	17	22	22	7		
	Relevé area (Velikost popisne ploskve)	m^2	10	4	4	10	5	5	5	5	5	10	10	15	10	5	5		
	Date of taking relevé (Datum popisa)		9/29/2015	4/15/2016	4/15/2016	4/15/2016	4/15/2016	4/20/2016	4/15/2016	8/30/2017	4/15/2016	4/15/2016	4/15/2016	4/22/2019	4/15/2016	4/15/2016	4/20/2016		
	Locality (Nahajališče)		Govškarca - Kanomlja	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec	Gačnik - Brdo	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec	Gačnik	Žirovnica - Raskovec	Žirovnica - Raskovec	Žirovnica - Raskovec		
	Quadrant (Kvadrant)		9949/4	9950/4	9950/4	9950/4	9950/4	9950/4	9950/4	9949/3	9950/4	9950/4	9950/4	9949/1	9950/4	9950/4	9950/4		
	Coordinate GK Y (D-48)	m	422149	430440	430488	430430	430388	430318	430464	412447	430396	430418	430422	410984	430391	430373	430310		
	Coordinate GK X (D-48)	m	5099632	5096271	5096326	5096266	5096235	5096162	5096296	5100926	5096265	5096248	5096252	5103382	5096208	5096190	5096174		
	Diagnostic species of the association (Diagnostične vrste asociacije)																	Pr.	Fr.
AP	*Primula carniolica*	E1	2	1	2	2	2	1	2	2	1	1	2	1	2	2	1	15	100
AP	*Orthothecium rufescens*	E0	+	1	+	1	2	1	1	+	3	2	2	2	1	2	1	15	100
AP	*Valeriana tripteris*	E1	+	+	+	.	r	+	.	.	+	.	+	.	+	.	.	8	53
	Differential species of the subassociation (Razlikovalnice asociacije)																		
AP	*Viola biflora*	E1	+	+	+	+	1	+	+	1	2	3	1	+	+	+	2	15	100
VP	*Veronica urticifolia*	E1	+	+	+	+	+	1	+	+	+	+	+	.	.	.	.	11	73
AP	*Pinguicula alpina*	E1	.	+	.	+	+	.	.	.	+	.	+	+	1	1	+	9	60
	***Cystopteridion* s. lat. *(Astrantio-Paederotion luteae* nom. prov.)**																		
	Aster bellidiastrum	E1	1	+	+	1	1	1	+	.	1	+	1	1	1	1	+	14	93
	Asplenium viride	E1	+	1	+	+	1	1	.	.	+	1	.	.	+	.	.	9	60
	Cystopteris fragilis	E1	.	.	+	+	+	.	1	+	.	1	1	.	+	.	.	8	53
	Carex brachystachys	E1	+	.	+	1	.	.	.	+	.	.	1	.	+	+	.	7	47
	Paederota lutea	E1	1	.	.	.	.	.	.	+	.	.	.	1	.	.	.	3	20

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Pr.	Fr.
	Hymenostylium recurvirostre	E0	.	.	+	.	.	+	.	.	.	.	.	.	.	+	.	3	20
	Tofieldia calyculata	E1	.	.	.	+	.	.	.	.	.	.	.	1	.	+	.	3	20
	Palustriella commutata	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Moehringia muscosa	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
	Astrantia carniolica	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	7
	Fissidens dubius	E0	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	1	7
	Valeriana saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	7
PcSp	***Physoplexido comosae-Saxifragion petraeae***																		
	Campanula cespitosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	+	3	20
	Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	1	7
AT	***Asplenietea trichomanis***																		
	Asplenium ruta-muraria	E1	+	r	+	+	+	+	+	+	.	+	.	.	r	+	.	11	73
	Asplenium trichomanes	E1	+	+	+	1	+	.	1	1	.	+	+	.	.	.	.	9	60
TR	***Thlapietea rotundifolii***																		
	Hieracium bifidum	E1	r	.	.	+	.	+	+	.	.	.	+	+	.	.	.	6	40
	Gymnocarpium robertianum	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
MC	***Montio-Cardaminetea***																		
	Conocephalum conicum	E0	1	1	+	+	+	1	.	+	2	2	1	2	.	+	.	12	80
	Oxyrrhynchium hians	E0	+	.	+	.	.	+	.	.	.	.	.	.	.	.	.	3	20
	Campylium stellatum	E0	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	2	13
	Oxyrrhynchium schleicheri	E0	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	2	13
	Cirriphyllum cirrhosum	E0	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Distichium capillaceum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	7
ES	***Elyno-Seslerietea***																		
	Sesleria caerulea	E1	.	.	.	.	.	+	.	.	.	.	.	.	2	1	.	3	20
	Carex mucronata	E1	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
FB	***Festuco-Brometea***																		
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	r	+	.	2	13
BA	***Betulo-Alnetea***																		
	Salix appendiculata	E1	.	.	.	.	.	r	.	.	.	.	.	.	+	.	.	2	13
MuA	***Mulgedio-Aconitetea***																		
	Petasites hybridus	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	1	7
EP	***Erico-Pinetea***																		
	Calamagrostis varia	E1	+	+	+	+	.	.	.	.	+	+	+	+	+	2	.	10	67
	Rhododendron hirsutum	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	.	2	13
	Rubus saxatilis	E1	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
	Erica carnea	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	1	7
VP	***Vaccinio-Piceetea***																		
	Veronica urticifolia	E1	+	+	+	+	+	1	+	+	+	+	+	.	.	.	.	11	73
	Homogyne sylvestris	E1	.	.	.	+	.	r	.	.	.	.	.	.	.	.	.	2	13
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	1	.	+	.	.	.	2	13
	Clematis alpina	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
	Rosa pendulina	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	7
AF	***Aremonio-Fagion***																		
	Scopolia carniolica	E1	.	.	r	.	.	.	.	.	.	.	.	.	r	.	.	2	13
	Cyclamen purpurascens	E1	.	.	.	r	.	.	.	.	.	.	.	+	.	.	.	2	13
	Helleborus niger	E1	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	7

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Pr.	Fr.
	Cardamine enneaphyllos	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
TA	***Tilio-Acerion***																		
	Aruncus dioicus	E1	.	r	.	.	.	+	.	.	+	+	+	.	.	.	.	5	33
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.	+	r	+	r	.	.	4	27
	Polystichum aculeatum	E1	.	.	+	.	.	.	.	.	.	.	r	.	.	.	.	2	13
	Ulmus glabra	E2a	.	.	.	.	.	.	.	.	+	r	.	.	.	.	.	2	13
	Acer pseudoplatanus	E1	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Phyllitis scolopendrium	E1	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	1	7
FS	***Fagetalia sylvaticae***																		
	Galeobdolon flavidum	E1	r	.	+	+	r	+	.	.	.	.	+	.	+	.	.	7	47
	Cardamine pentaphyllos	E1	.	r	.	.	.	.	.	.	.	r	r	.	.	r	.	4	27
	Campanula trachelium	E1	.	+	r	.	.	.	.	.	.	+	.	.	.	.	.	3	20
	Lathyrus vernus	E1	.	.	r	.	.	.	.	.	+	.	.	.	.	.	.	2	13
	Galium laevigatum	E1	.	.	.	.	.	+	r	.	.	.	.	.	.	.	.	2	13
	Salvia glutinosa	E1	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7
	Daphne mezereum	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
	Mercurialis perennis	E1	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	7
	Mycelis muralis	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	7
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
	Prenanthes purpurea	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	7
QF	***Querco-Fagetea***																		
	Carex digitata	E1	.	.	.	r	.	+	+	.	+	r	r	+	+	+	.	9	60
	Hepatica nobilis	E1	.	.	r	r	.	.	.	.	+	+	.	+	.	.	.	5	33
	Taxus baccata	E2b	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	7
ML	**Mosses and lichens (Mahovi in lišaji)**																		
	Neckera crispa	E0	.	.	+	+	2	1	+	.	.	.	.	+	.	.	.	6	40
	Ctenidium molluscum	E0	.	.	.	.	.	.	.	+	.	+	2	1	1	.	.	5	33
	Mnium thomsonii	E0	.	.	+	+	+	+	.	.	.	.	.	.	.	.	.	4	27
	Tortella tortuosa	E0	.	.	+	.	.	.	+	.	1	.	.	.	.	.	.	3	20
	Pedinophyllum interruptum	E0	.	.	.	.	1	+	.	.	.	.	.	.	.	1	.	3	20
	Mnium marginatum	E0	.	.	.	.	+	+	.	.	.	.	.	.	.	+	.	3	20
	Brachythecium starkei	E0	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Plagiomnium rostratum	E0	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	7
	Marchantia polymorpha	E0	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	7

Legend / Legenda

D Dolomite – dolomit
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

Table 5 (Tabela 5): *Phyteumato columnae-Primuletum carniolicae*. Relevé number 1–37.

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12
	Database number of relevé (Delovna številka popisa)		259019	259020	273980	217874	258592	275224	269300	278013	278010	226622	266154	269299
	Elevation in m (Nadmorska višina v m)		975	975	745	260	485	230	475	700	660	215	250	475
	Aspect (Lega)		NE	NE	NE	SW	S	E	NW	N	N	NW	N	NE
	Slope in degrees (Nagib v stopinjah)		80	90	90	90	80	95	70	90	80	90	90	90
	Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
	Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100
	Cover of herb layer in % (Zastiranje zeliščne plasti v %)	E1	30	20	30	30	40	40	35	20	30	20	25	30
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	30	20	30	10	20	10	50	10	5	10	20	20
	Number of species (Število vrst)		24	24	16	17	13	10	20	27	20	11	10	14
	Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	3	10	10	15	10	5	10	10
	Date of taking relevé (Datum popisa)		6/25/2015	6/25/2015	7/2/2018	4/19/2007	9/29/2015	4/18/2019	6/20/2017	4/29/2019	4/29/2019	5/8/2009	4/9/2017	6/20/2017
	Locality (Nahajališče)		Oblakov vrh-Maslinca	Oblakov vrh-Maslinca	Gačnik	Pršjak	Govškarca-Kanomlja	Gorenja trebuša - Ščura	Jagršče-Sjavnica	Gorenja Trebuša-Drnulk	Gorenja Trebuša-Drnulk	Stopnik-Idrijca	Gačnik	Jagršče-Sjavnica
	Quadrant (Kvadrant)		9949/1	9949/1	9949/1	9949/1	9949/4	9948/2	9949/2	9948/2	9948/2	9849/3	9949/1	9949/2
	Coordinate GK Y (D-48)	m	414439	414436	412009	409858	421985	409627	418040	408491	408574	415408	410338	418059
	Coordinate GK X (D-48)	m	5101703	5101709	5101929	5101922	5099617	5103347	5105396	5102623	5102681	5106880	5104116	5105394
	Diagnostic species of the association (Diagnostične vrste asociacije)													
AP	*Primula carniolica*	E1	r	1	+	1	3	3	2	2	2	+	+	1
PcSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	+	+	1	+	+	+	+	+	r	+	+	1
AP	*Paederota lutea*	E1	1	2	2	2	1	1	2	2	2	+	1	2
AP	*Orthothecium rufescens*	E0	+	+	+	+	2	1	1	+	1	+	1	1
AP	*Valeriana tripteris*	E1	1	+	1	.	.	.	1	r	.	.	.	.
AP	*Carex brachystachys*	E1	+	r	2	+	1	1	.	.	+	.	.	+
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**													
	Aster bellidiastrum	E1	+	1	1	1	1	.	.	.	.	1	1	+
	Asplenium viride	E1	.	r	+	.	.	.	+	r	.	.	.	.
	Fissidens dubius	E0	+	+	.	.	.	.	1	+	.	.	.	.
	Valeriana saxatilis	E1	.	.	.	.	.	1	.	.	1	.	2	1
	Tofieldia calyculata	E1	.	.	.	1	.	+	+	1	1	.	+	.
	Viola biflora	E1	2	+	+	.	.	.	.	.	.	.	.	.
	Barbula crocea	E0	.	.	2	.	.	.	.	.	.	.	.	.
	Cystopteris fragilis	E1	1	1	+	.	.	.	.	.	.	.	.	.
	Preissia quadrata	E0	.	.	.	.	.	.	.	.	.	.	.	.

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
269303	269301	273965	230232	246867	274036	230234	268195	241497	259048	255777	258581	273979	258597	275218	269305	274329	269366	269369	230610	258593	275599	241495	275601	246308
570	475	780	350	1250	895	325	890	800	1460	450	390	745	500	650	470	480	460	420	830	495	775	780	760	440
SEE	E	NW	NE	N	SW	N	E	NE	NW	E	N	SW	NE	NNE	NE	N	SSW	E	NWW	SW	NW	NE	NE	NW
90	80	85	90	80	90	90	85	80	80	80	90	90	90	80	80	85	70	80	95	90	85	80	85	90
D	D	D	D	D	D	D	D	D	L	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	30	15	30	35	20	20	30	30	30	30	20	30	30	30	40	30	30	20	30	30	20	20	25	20
10	30	20	10	20	30	30	20	10	20	20	10	10	20	30	40	20	20	20	5	10	10	5	10	20
13	17	15	29	32	14	18	15	24	15	25	12	10	18	15	26	26	15	15	17	11	14	16	15	20
10	10	10	10	10	10	10	5	10	4	5	4	10	4	10	10	10	5	5	10	2	10	10	10	10
6/20/2017	6/20/2017	7/2/2018	4/14/2009	8/13/2003	7/16/2018	4/14/2009	8/30/2017	4/12/2011	6/22/2015	5/14/2002	9/29/2015	7/2/2018	9/29/2015	4/18/2019	6/20/2017	5/8/2018	3/31/2017	3/31/2017	5/13/2005	9/29/2015	5/16/2019	4/12/2011	5/16/2019	6/17/2011
Jagrške-Sjavnica	Jagrške-Sjavnica	Gačnik	Divje jezero	Sončni rob-Hudo polje	Gačnik	Divje jezero	Gačnik	Skopica	Mali Golak	Skopica-Vučja grapa	Govškarca-Kanomlja	Gačnik	Govškarca-Kanomlja	Drnulk-Kobilica	Jagrške-Sjavnica	Gorenja Trebuša-Srna grapa	Kazarska grapa-Žabže	Kazarska grapa-Žabže	Kanomlja-V Studencu	Govškarca-Kanomlja	Gorenja Trebuša-Drnulk	Skopica	Gorenja Trebuša-Drnulk	Šebrelje-Kanačnik
9949/2	9949/2	9949/1	0050/1	0049/1	9949/3	0050/1	9949/3	9948/2	0049/1	9848/4	9950/3	9949/1	9949/4	9948/2	9949/2	9949/3	9849/4	9849/3	9949/3	9949/4	9948/2	9948/2	9948/2	9849/3
418052	418044	412186	425057	414658	412655	425017	412456	408404	412475	408583	422739	411972	421919	408536	418048	410696	416359	416285	415822	421955	408234	408398	408264	415931
5105339	5105356	5101817	5093568	5094216	5100796	5093614	5100959	5106342	5093446	5106940	5099403	5101954	5099660	5102698	5105306	5100026	5110990	5110887	5100016	5099625	5103552	5106348	5103490	5108041
1	1	1	2	2	1	2	2	1	+	1	+	1	2	2	1	2	2	2	2	2	1	1	+	2
+	1	r	+	1	+	+	+	1	1	1	+	+	+	1	1	+	+	+	+	1	1	+	1	1
1	1	.	1	2	2	1	1	2	1	1	+	1	+	2	1	1	.	.	2	2	2	1	2	1
+	1	1	1	+	.	.	+	.	.	+	+	+	1	3	2	+	1	1	.	+	+	.	.	.
+	+	.	+	+	.	r	.	.	.	1	+	+	+	+	1	+	+	.	+	.	+	+	+	2
+	.	.	+	+	+	.	r	.	.	.	.	+	+	r	+	r	.	r	r	+	+	.	+	+
+	1	+	+	+	1	1	1	1	1	+	1	1	+	.	1	+	.	.	+	.	.	.	.	.
.	.	+	1	+	+	.	.	.	+	+	+	+	+	+	1	+	.	.	+	.	r	.	.	.
.	1	.	.	.	.	.	.	.	+	.	+	.	.	.	1	+	.	.	.	.	+	.	.	.
1	1	+	+	r	1	+	.	.	.	r	.	.	.	.	.	.	.	.	+	.	.	.	.	.
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	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12
	Hymenostylium recurvirostre	E0	+	+	.	.	.	.	.	.	+	.	.	.
	Moehringia muscosa	E1	+	.	.	.	.	.	.	.	.	.	.	.
	Primula x venusta	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Pellia endiviifolia	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Selaginella helvetica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Palustriella commutata	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Heliosperma veselskyi subsp. *veselskyi*	E1	.	.	.	.	.	.	.	.	.	.	.	.
PcSp	***Physoplexido comosae-Saxifragion petraeae***													
	Campanula cespitosa	E1	.	.	.	+	+	.	.	+	+	.	.	.
	Athamanta turbith	E1	.	.	.	.	.	.	.	.	r	.	.	.
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
PC	***Potentilletalia caulescentis***													
	Potentilla caulescens	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Primula auricula	E1	.	.	.	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***													
	Asplenium ruta-muraria	E1	.	.	.	+	+	.	.	r	.	+	.	.
	Asplenium trichomanes	E1	1	+	.	.	.	.	.	r	.	.	+	.
	Hieracium glaucum	E1	.	.	.	.	.	.	.	+	1	.	.	.
TR	***Thlaspietea rotundifolii***													
	Hieracium bifidum	E1	.	.	.	+	+	.	+	+	+	.	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aquilegia iulia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Dryopteris villarii	E1	.	.	.	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***													
	Conocephalum conicum	E0	.	.	.	.	.	.	.	.	.	.	.	1
	Distichium capillaceum	E0	+	+	.	+	.	.	.	.	.	.	.	.
	Ditrichum flexicaule	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Campylium stellatum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***													
	Sesleria caerulea	E1	.	.	.	.	.	.	+	1	1	1	+	1
	Carex mucronata	E1	.	.	.	.	.	.	.	.	+	.	.	.
	Betonica alopecuros	E1	.	.	.	.	.	.	.	.	.	.	.	+
	Carduus crassifolius	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Gentiana clusii	E1	.	.	.	.	.	.	.	.	+	.	.	.
	Laserpitium peucedanoides	E1	.	.	.	.	.	.	.	.	.	.	.	.
FB	***Festuco-Brometea***													
	Carex humilis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Galium lucidum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Brachypodium rupestre	E1	.	.	.	.	.	.	.	.	.	.	.	.
MA	***Molinio-Arrhenatheretea***													
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Taraxacum x Ruderalia	E1	.	.	.	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***													
	Salix appendiculata	E1	.	.	.	+	.	.	.	+	.	.	.	+
	Salix glabra	E1	.	.	.	.	.	.	.	+	+	.	.	.
MuA	***Mulgedio-Aconitetea***													
	Senecio ovatus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Ranunculus platanifolius	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aconitum degenii subsp. *paniculatum*	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Saxifraga rotundifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***													
	Laserpitium siler	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Viola hirta	E1	.	.	.	.	.	.	.	.	.	.	.	.

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
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	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12
	Anthericum ramosum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium latifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Thalictrum minus	E1	.	.	.	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***													
	Rubus idaeus	E1	.	.	.	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea***													
	Calamagrostis varia	E1	1	.	.	+	+	+	+	+	.	+	.	.
	Rhododendron hirsutum	E1	.	.	.	.	.	.	+	+	+	.	.	+
	Erica carnea	E1	.	.	.	+	.	+	.	+	+	.	.	.
	Polygala chamaebuxus	E1	.	.	.	+	.	.	+	+	.	.	.	.
	Carex ornithopoda	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Rubus saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carex alba	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Leontodon incanus	E1	.	.	.	1	.	.	.	.	.	.	.	.
	Molinia arundinacea	E1	.	.	.	.	.	+	.	.	.	.	.	.
	Amelanchier ovalis	E1	.	.	.	.	.	.	.	+	.	.	.	.
	Aster amellus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aquilegia nigricans	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Pinus sylvestris	E2a	.	.	.	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Pinetea***													
	Veronica urticifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Solidago virgaurea	E1	.	.	.	.	.	.	.	r	.	.	.	.
	Hieracium murorum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis alpina	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Gentiana asclepiadea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Picea abies	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum lonchitis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rosa pendulina	E1	.	.	.	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***													
	Cyclamen purpurascens	E1	.	.	+	.	.	.	.	.	.	.	.	.
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Hemerocallis lilioasphodelus	E1	.	.	.	.	.	.	.	.	.	+	.	.
	Potentilla carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Primula vulgaris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Lamium orvala	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rhamnus fallax	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium krapfii	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Omphalodes verna	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Knautia drymeia	E1	.	.	.	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***													
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum aculeatum	E1	r	.	.	.	.	.	.	.	.	.	.	.
	Phyllitis scolopendrium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Acer pseudoplatanus	E1	r	.	.	.	.	.	.	.	.	.	.	.
	Geranium robertianum	E1	+	+	.	.	.	.	.	.	.	.	.	.
	Tephroseris pseudocrispa	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Ulmus glabra	E2a	.	.	.	.	.	.	.	.	.	.	.	.
	Acer platanoides	E2a	.	.	.	.	.	.	.	.	.	.	.	.

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	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12
FS	***Fagetalia sylvaticae***													
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Galeobdolon flavidum	E1	.	r	+	.	.	.	.	.	.	.	.	.
	Mercurialis perennis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Mycelis muralis	E1	r	+	.	.	.	.	.	.	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Melica nutans	E1	.	.	.	.	.	.	.	.	.	.	.	+
	Symphytum tuberosum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Campanula trachelium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine pentaphyllos	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Petasites albus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Sambucus nigra	E2a	.	.	.	.	.	.	.	.	.	.	.	.
	Lathyrus vernus	E1	.	.	.	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***													
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	+	+	.	.	.
	Mercurialis ovata	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis recta	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Euonymus verrucosa	E2a	.	.	.	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***													
	Carex digitata	E1	.	.	.	.	.	.	+	+	.	.	.	.
	Hepatica nobilis	E1	.	.	+	.	.	.	.	.	.	.	.	.
	Hedera helix	E1	.	.	.	.	.	.	.	.	.	+	.	.
	Veratrum nigrum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Acer campestre	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis vitalba	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Quercus petraea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine impatiens	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Lonicera xylosteum	E1	.	.	.	.	.	.	.	.	.	.	.	.
ML	**Mosses and lichens (Mahovi in lišaji)**													
	Neckera crispa	E0	1	1	1	.	+	.	.	+	.	.	.	.
	Ctenidium molluscum	E0	1	1	.	.	.	.	+	+	.	.	.	.
	Tortella tortuosa	E0	.	.	1	+	1	.	2	1	+	1	+	1
	Mnium thomsonii	E0	.	.	.	.	.	.	1	.	.	.	.	.
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiochila porreloides	E0	+	+	.	.	.	.	.	.	.	.	.	.
	Encalypta streptocarpa	E0	+	+	.	.	.	.	.	.	.	.	.	.
	Leiocolea collaris	E0	.	.	.	.	.	.	+	.	.	.	.	.
	Marchantia polymorpha	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Bryum capillare	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	+	.	.	.	.	.
	Mnium stellare	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Isothecium alopecuroides	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Lejeunea cavifolia	E0	.	+	.	.	.	.	.	.	.	.	.	.
	Myurella sibirica	E0	.	+	.	.	.	.	.	.	.	.	.	.
	Neckera complanata	E0	.	+	.	.	.	.	.	.	.	.	.	.
	Didymodon ferrugineus	E0	.	.	.	.	.	.	+	.	.	.	.	.
	Trichostomum brachydontium	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Myurella julacea	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Hypnum cupressiforme var. *resupinatum*	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Lichenes div.	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Lophozia sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Dichodontium pellucidum subsp. *flavescens*	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Mnium marginatum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiobryum zierii	E0	.	.	.	.	.	.	.	.	.	.	.	.

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Table 5 (Tabela 5): *Phyteumato columnae-Primuletum carniolicae*. Relevé number 38–73.

	Number of relevé (Zaporedna številka popisa)		38	39	40	41	42	43	44	45	46	47	48	49
	Database number of relevé (Delovna številka popisa)		230615	278030	278031	242921	274414	278019	242923	275598	273969	274020	242931	258598
	Elevation in m (Nadmorska višina v m)		1050	910	925	830	505	750	840	770	775	785	890	500
	Aspect (Lega)		NW	NW	NW	NE	W	NE	N	NNE	S	SSW	NE	W
	Slope in degrees (Nagib v stopinjah)		90	90	70	90	80	90	90	90	85	90	85	80
	Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li
	Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100
	Cover of herb layer in % (Zastiranje zeliščne plasti v %)	E1	20	20	20	20	30	25	15	20	20	20	30	40
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	10	10	30	20	40	10	20	20	20	10	20	40
	Number of species (Število vrst)		15	18	14	14	20	16	11	14	11	11	10	18
	Relevé area (Velikost popisne ploskve)	m^2	10	20	10	10	10	15	10	5	10	10	10	2
	Date of taking relevé (Datum popisa)		7/14/2004	4/16/2019	4/16/2019	4/18/2012	4/23/2018	4/29/2019	4/18/2012	5/16/2019	7/2/2018	7/16/2018	4/18/2012	9/29/2015
	Locality (Nahajališče)		Vojsko-V Studencu	Stador-Kobilica	Stador-Kobilica	Skopica	Kazarska grapa	Gorenja Trebuša-Drnulk	Skopica	Gorenja Trebuša-Drnulk	Gačnik	Gačnik	Velike Vrše	Govškarca-Kanomlja
	Quadrant (Kvadrant)		9949/3	9948/2	9948/2	9948/2	9849/3	9948/2	9948/2	9948/2	9949/1	9949/1	9948/2	9949/4
	Coordinate GK Y (D-48)	m	415736	408043	408060	408327	415320	408334	408354	408230	412117	412115	407993	421925
	Coordinate GK X (D-48)	m	5099687	5101657	5101677	5106389	5111461	5102809	5106389	5103541	5101925	5101933	5105332	5099650
	Diagnostic species of the association (Diagnostične vrste asociacije)													
AP	*Primula carniolica*	E1	1	+	r	+	+	1	+	+	1	1	2	2
PcSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	+	+	+	+	1	+	+	+	+	+	+	+
AP	*Paederota lutea*	E1	1	1	1	+	1	1	+	1	2	1	.	+
AP	*Orthothecium rufescens*	E0	+	+	+	.	+	+	.	.	.	.	.	.
AP	*Valeriana tripteris*	E1	.	.	+	+	.	.	.	.	.	.	.	.
AP	*Carex brachystachys*	E1	r	.	.	.	1	+	.	.	.	.	.	.
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**													
	Aster bellidiastrum	E1	.	.	.	.	.	.	.	.	1	1	.	+
	Asplenium viride	E1	.	.	.	+	+	.	+	.	.	.	.	+
	Fissidens dubius	E0	+	+	.	.	.	+	.	.	.	.	.	.
	Valeriana saxatilis	E1	.	.	.	.	.	+	.	r	+	.	.	.
	Tofieldia calyculata	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Viola biflora	E1	+	.	.	.	.	.	.	.	.	.	.	.
	Barbula crocea	E0	.	.	+	.	.	.	.	.	.	.	.	.
	Cystopteris fragilis	E1	.	r	.	.	.	.	.	.	.	.	.	.
	Preissia quadrata	E0	.	.	.	.	2	1	.	.	.	.	.	.

50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	Pr.	Fr.
269424	269425	274402	269198	278005	278008	269430	269297	246397	266158	263169	246395	268193	259018	269394	274407	275254	275255	263172	269177	269181	269182	263753	269396		
770	770	535	540	680	670	780	450	330	250	450	330	870	970	654	560	690	730	420	425	430	435	380	660		
SEE	N	N	N	NNE	NNE	N	NE	N	NW	N	NE	NW	NE	NNE	W	N	NE	NE	NE	NE	NE	NW	N		
85	80	70	70	80	80	80	85	90	100	90	80	85	90	80	80	85	90	80	80	60	80	80	90		
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
30	30	30	30	35	40	30	30	30	25	20	30	30	25	30	30	30	30	30	40	30	30	30	15		
40	40	30	50	10	20	30	30	30	25	19	20	30	20	10	30	30	30	30	60	5	20	20	10		
10	17	21	15	19	23	13	23	17	12	16	34	20	24	22	24	21	29	16	24	15	18	13	6		
5	10	10	5	15	15	5	10	50	10	10	100	5	10	5	10	15	15	10	10	5	5	10	2		
4/20/2017	4/20/2017	4/23/2018	4/7/2017	4/29/2019	4/29/2019	4/20/2017	6/20/2017	4/22/2011	4/9/2017	9/12/2016	4/22/2011	8/30/2017	6/25/2015	5/26/2107	4/23/2018	4/27/2019	5/16/2019	9/12/2016	4/7/2017	4/7/2017	4/7/2017	6/24/2016	5/26/2017		
Bukovski Vrh-Degarnik	Bukovski Vrh-Degarnik	Kazarska grapa	Orehovska grapa-Nemci	Goirenja Trebuša-Drnulk	Goirenja Trebuša-Drnulk	Bukovski Vrh-Degarnik	Jagršče-Sjavnica	Jagršče-Sjavnica	Gačnik	Orehovska grapa	Jagršče-Sjavnica	Gačnik	Oblakov vrh-Maslinca	Kazarska grapa-Degarnik	Kazarska grapa	Čepovan-Drnulk	Čepovan-Drnulk	Orehovska grapa	Orehovska grapa	Orehovska grapa	Orehovska grapa	Orehovska grapa	Kazarska grapa	Kazarska grapa-Degarnik		
9849/3	9849/3	9849/3	9849/4	9948/2	9948/2	9849/3	9949/2	9949/2	9949/1	9849/4	9849/4	9949/3	9949/1	9849/3	9849/3	9948/2	9948/2	9849/4	9849/4	9849/4	9849/4	9849/3	9849/3		
415139	415127	415532	417834	408621	408411	415240	418011	417202	410303	418076	417201	412447	414448	415147	415307	407582	407804	418220	418224	418177	418172	416035	415385		
5110930	5110939	5111307	5111257	5103083	5103022	5110954	5105487	5106621	5104150	5110995	5106770	5100954	5101710	5111240	5111290	5102792	5103192	5110806	5110830	5110838	5110848	5110995	5111208		
																								Pr.	Fr.
2	1	1	2	2	3	1	1	1	1	1	1	1	1	1	+	2	2	1	1	3	2	+	1	73	100
+	+	1	2	1	1	r	+	+	+	+	+	+	1	2	1	+	+	+	+	+	+	+	+	73	100
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.	r	+	.	.	+	.	.	1	+	.	1	+	+	+	+	.	1	.	.	.	.	.	.	36	49
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	Number of relevé (Zaporedna številka popisa)		38	39	40	41	42	43	44	45	46	47	48	49
	Hymenostylium recurvirostre	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Moehringia muscosa	E1	+	.	.	.	.	.	.	.	+	.	.	.
	Primula x venusta	E1	.	r	.	.	.	.	.	r	.	.	.	.
	Pellia endiviifolia	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Selaginella helvetica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Palustriella commutata	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Heliosperma veselskyi subsp. *veselskyi*	E1	.	.	.	.	.	.	.	.	.	.	.	.
PcSp	***Physoplexido comosae-Saxifragion petraeae***													
	Campanula cespitosa	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Athamanta turbith	E1	.	.	.	.	.	.	.	r	.	.	.	.
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
PC	***Potentilletalia caulescentis***													
	Potentilla caulescens	E1	.	r	.	.	.	.	.	r	.	.	1	.
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Primula auricula	E1	.	.	.	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***													
	Asplenium ruta-muraria	E1	+	+	+	1	1	+	+	+	+	+	1	+
	Asplenium trichomanes	E1	1	+	+	1	1	1	1	.	+	+	1	+
	Hieracium glaucum	E1	.	.	.	.	.	.	.	.	.	.	.	.
TR	***Thlaspietea rotundifolii***													
	Hieracium bifidum	E1	.	+	+	.	+	+	.	.	.	.	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	+	.	.	.	.	.	.	r
	Adenostyles glabra	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aquilegia iulia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Dryopteris villarii	E1	.	.	.	.	.	.	.	.	.	.	.	.
MC	***Montio-Cardaminetea***													
	Conocephalum conicum	E0	.	.	+	.	.	.	.	.	.	.	.	.
	Distichium capillaceum	E0	+	.	.	.	.	.	.	.	.	.	.	.
	Ditrichum flexicaule	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Campylium stellatum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***													
	Sesleria caerulea	E1	.	r	.	.	.	.	+	+	1	+	1	.
	Carex mucronata	E1	.	.	.	+	.	.	+	.	.	.	.	.
	Betonica alopecuros	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carduus crassifolius	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carex ferruginea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Gentiana clusii	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium peucedanoides	E1	.	.	.	.	.	.	.	.	.	.	.	.
FB	***Festuco-Brometea***													
	Carex humilis	E1	.	.	.	.	.	.	.	r	.	.	.	.
	Buphthalmum salicifolium	E1	.	r	.	.	.	.	.	.	.	.	.	.
	Galium lucidum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Brachypodium rupestre	E1	.	.	.	.	.	.	.	.	.	.	.	.
MA	***Molinio-Arrhenatheretea***													
	Angelica sylvestris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Caltha palustris	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Taraxacum x Ruderalia	E1	.	.	.	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***													
	Salix appendiculata	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Salix glabra	E1	.	.	.	.	.	.	.	.	.	.	.	.
MuA	***Mulgedio-Aconitetea***													
	Senecio ovatus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Ranunculus platanifolius	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aconitum degenii subsp. *paniculatum*	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Saxifraga rotundifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***													
	Laserpitium siler	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Viola hirta	E1	.	.	.	.	.	.	.	.	.	.	.	.

50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	Pr.	Fr.
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	Number of relevé (Zaporedna številka popisa)		38	39	40	41	42	43	44	45	46	47	48	49
	Anthericum ramosum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium latifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Thalictrum minus	E1	.	.	.	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***													
	Rubus idaeus	E1	.	.	.	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea***													
	Calamagrostis varia	E1	+	+	.	.	.	.	.	.	.	.	.	+
	Rhododendron hirsutum	E1	.	+	r	r	.	1	.	.	.	.	r	.
	Erica carnea	E1	.	.	.	.	.	.	.	.	.	.	.	r
	Polygala chamaebuxus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carex ornithopoda	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rubus saxatilis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Carex alba	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Leontodon incanus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Amelanchier ovalis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aster amellus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aquilegia nigricans	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Pinus sylvestris	E2a	.	.	.	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Pinetea***													
	Veronica urticifolia	E1	+	.	.	.	.	.	.	.	.	.	.	.
	Homogyne sylvestris	E1	.	.	.	+	.	r	.	.	.	.	.	.
	Solidago virgaurea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Hieracium murorum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis alpina	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Gentiana asclepiadea	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Oxalis acetosella	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Picea abies	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Polystichum lonchitis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Aposeris foetida	E1	.	.	.	.	.	.	.	.	.	.	.	r
	Rosa pendulina	E1	.	.	.	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***													
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	.	.	.	.	+
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Hemerocallis lilioasphodelus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Potentilla carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Primula vulgaris	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Euphorbia carniolica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Lamium orvala	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Rhamnus fallax	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Laserpitium krapfii	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Omphalodes verna	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Knautia drymeia	E1	.	.	.	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***													
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.	.	.	r
	Polystichum aculeatum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Phyllitis scolopendrium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Acer pseudoplatanus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Geranium robertianum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Tephroseris pseudocrispa	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Ulmus glabra	E2a	.	.	.	.	.	.	.	.	.	.	.	.
	Acer platanoides	E2a	.	.	.	.	.	.	.	.	.	.	.	.

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	Number of relevé (Zaporedna številka popisa)		38	39	40	41	42	43	44	45	46	47	48	49
FS	***Fagetalia sylvaticae***													
	Salvia glutinosa	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Galeobdolon flavidum	E1	.	.	.	.	+	.	.	.	.	.	.	r
	Mercurialis perennis	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Mycelis muralis	E1	.	.	+	.	.	.	.	.	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Melica nutans	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Symphytum tuberosum	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Campanula trachelium	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine pentaphyllos	E1	.	.	.	.	+	.	.	.	.	.	.	.
	Asarum europaeum subsp. *caucasicum*	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Petasites albus	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Sambucus nigra	E2a	.	.	.	.	.	.	.	.	.	.	.	.
	Lathyrus vernus	E1	.	.	.	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescenti-petraeae***													
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.	.	r	.
	Ostrya carpinifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Mercurialis ovata	E1	.	.	.	.	.	.	.	r	.	.	.	.
	Clematis recta	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Euonymus verrucosa	E2a	.	.	.	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***													
	Carex digitata	E1	.	.	.	.	.	+	.	.	.	.	.	+
	Hepatica nobilis	E1	.	r	.	.	.	+	.	.	.	.	.	r
	Hedera helix	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Veratrum nigrum	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Acer campestre	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Clematis vitalba	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Quercus petraea	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Cardamine impatiens	E1	.	.	.	.	.	.	.	.	.	.	.	.
	Lonicera xylosteum	E1	.	.	.	.	.	.	.	.	.	.	.	.
ML	**Mosses and lichens (Mahovi in lišaji)**													
	Neckera crispa	E0	1	+	+	+	2	.	1	1	1	1	1	2
	Ctenidium molluscum	E0	.	+	1	+	+	.	1	1	1	1	2	2
	Tortella tortuosa	E0	+	.	.	+	+	+	.	.	.	1	.	.
	Mnium thomsonii	E0	.	.	.	.	.	.	+	+	.	+	.	.
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiochila porreloides	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Encalypta streptocarpa	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Leiocolea collaris	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Marchantia polymorpha	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Bryum capillare	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Mnium stellare	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Isothecium alopecuroides	E0	.	.	.	1	.	.	.	.	.	.	.	.
	Lejeunea cavifolia	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Myurella sibirica	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Neckera complanata	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Didymodon ferrugineus	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Trichostomum brachydontium	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Myurella julacea	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Hypnum cupressiforme var. *resupinatum*	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Lichenes div.	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Lophozia sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Dichodontium pellucidum subsp. *flavescens*	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiomnium rostratum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Mnium marginatum	E0	.	.	.	.	.	.	.	.	.	.	.	.
	Plagiobryum zierii	E0	.	.	.	.	.	.	.	.	.	.	.	.

Legend / Legenda: D Dolomite – dolomit L Limestone – apnenec Li Lithosol – kamnišče Fr. Frequency in % – frekvenca v %

50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	Pr.	Fr.
.	r	.	.	.	r	.	.	.	.	r	.	.	r	+	+	.	.	.	.	.	.	.	.	10	14
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.	+	+	.	r	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	16	22
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3	3	2	3	1	2	2	2	2	+	1	2	+	1	1	.	2	+	2	3	+	2	2	1	53	73
1	2	2	1	2	2	+	+	.	.	.	2	1	2	1	2	1	2	.	+	.	.	.	.	42	58
.	.	.	.	.	.	.	.	.	.	.	.	1	+	.	.	.	2	+	.	.	.	.	.	29	40
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Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta

Table 6 (Tabela 6): *Phyteumato-Primuletum carniolicae astrantietosum carniolicae.*

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Database number of relevé (Delovna številka popisa)		230633	241567	241568	234480	235012	246868	259052	259053	242177
	Elevation in m (Nadmorska višina v m)		1190	810	810	1110	215	1250	1430	1440	1380
	Aspect (Lega)		NW	SE	NW	W	NE	NE	N	NW	NE
	Slope in degrees (Nagib v stopinjah)		90	90	90	95	90	80	90	80	80
	Parent material (Matična podlaga)		DL	D	D	D	D	D	L	L	L
	Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li
	Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	20	20	30	20	30	30	30	20	15
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	5	5	5	5	30	20	20	10	5
	Number of species (Število vrst)		16	17	15	15	15	23	24	18	11
	Relevé area (Velikost popisne ploskve)	m^2	10	10	10	10	5	10	5	5	5
	Date of taking relevé (Datum popisa)		7/3/2000	5/5/2011	5/5/2011	7/20/2004	4/25/2005	8/13/2003	6/22/2015	6/22/2015	8/4/1998
	Locality (Nahajališče)		Bukov vrh	Bukov vrh - Brusova grapa	Bukov vrh - Brusova grapa	Hudournik	Gačnik	Sončni rob	Mali Golak	Mali Golak	Srednji Golak
	Quadrant (Kvadrant)		0049/1	9949/3	9949/3	9949/1	9949/1	0049/1	0049/1	0049/1	0049/1
	Coordinate GK Y (D-48)	m	413635	413790	413770	413757	410107	414653	412426	412435	413074
	Coordinate GK X (D-48)	m	5094650	5095679	5095671	5102207	5104236	5094330	5093455	5093412	5093352
	Diagnostic species of the association (Diagnostične vrste asociacije)										
AP	*Primula carniolica*	E1	+	1	1	1	1	1	1	1	+
AP	*Paederota lutea*	E1	1	2	1	1	1	2	2	2	1
PcSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	+	+	+	.	+	+	+	+	.
AP	*Orthothecium rufescens*	E0	.	.	.	+	2	2	2	1	1
AP	*Carex brachystachys*	E1	.	.	.	.	.	.	+	.	.
AP	*Valeriana tripteris*	E1	.	.	.	.	.	.	+	.	.
	Differential species of the subassociation (Razlikovalnice subasociacije)										
AP	*Viola biflora*	E1	+	+	+	+	.	+	1	+	+
AP	*Valeriana saxatilis*	E1	+	+	+	+	1	+	1	1	+
AP	*Astrantia carniolica*	E1	r	.	.	.	1	+	.	.	.
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**										
	Aster bellidiastrum	E1	+	+	+	.	1	1	+	+	+
	Asplenium viride	E1	.	.	.	.	.	.	+	+	.
	Pinguicula alpina	E1	r	+	+	r	+	+	+	+	r
	Tofieldia calyculata	E1	.	+	+	.	1	+	+	.	.
	Cystopteris fragilis	E1	+	.	.	+	.	.	.	.	+
	Fissidens dubius	E0	.	+	.	.	.	.	+	.	.

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Pr.	Fr.
234555	271153	271155	241563	246867	268197	268209	273971	268206	268207	268204	273912	273973	268212	275148	278093	273964	278100		
810	420	430	800	1250	890	845	775	845	890	850	590	755	840	430	470	780	460		
NE	N	NW	NE	N	E	SE	N	E	NW	W	W	NE	NW	SE	SW	NE	N		
80	90	95	80	80	95	80	85	80	80	90	95	95	85	90	90	80	80		
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
40	20	35	30	35	20	30	30	40	60	30	15	20	35	30	30	60	60		
10	10	10	10	20	10	10	20	30	30	20	5	20	20	10	30	30	70		
22	18	16	24	22	16	18	17	18	24	21	18	17	22	14	17	17	20		
5	10	10	10	10	5	5	20	5	5	5	20	10	5	15	15	10	15		
5/19/2004	5/3/2018	5/3/2018	5/5/2011	8/13/2003	8/30/2017	8/30/2017	7/2/2018	8/30/2017	8/30/2017	8/30/2017	7/25/2018	7/2/2018	8/30/2017	4/22/2019	12,6.2019	7/2/2018	12,6.2019		
Gorenja Trebuša - Lazna - Špičast rob	Gorenja Trebuša - Makčeva grapa	Gorenja Trebuša - Makčeva grapa	Mali Govci	Sončni rob	Gačnik	Gačnik - Brdo	Gačnik	Gačnik	Gačnik	Gačnik	Gačnik - Medved	Gačnik	Gačnik-Brdo	Gačnik	Gačnik	Gačnik	Gačnik		
9948/4	9949/3	9949/3	9949/3	0049/1	9949/3	9949/3	9949/1	9949/1	9949/3	9949/1	9949/1	9949/1	9949/3	9949/1	9949/1	9949/1	9949/1		
408748	410066	410105	413679	414658	412494	412459	412108	412495	412577	412503	411222	412050	412457	410992	411150	412218	411121		
5099263	5100660	5100659	5095879	5094216	5101188	5100916	5101912	5101431	5100830	5101371	5102794	5101938	5100950	5103416	5103138	5101768	5103184		
																		Pr.	Fr.
2	1	2	+	2	2	2	1	1	1	1	+	1	1	2	1	+	1	27	100
1	1	2	2	2	2	2	2	1	2	1	1	1	1	1	1	2	1	27	100
+	+	+	1	1	+	+	+	+	1	+	.	+	+	.	+	.	+	22	81
1	.	1	+	.	.	1	1	+	1	1	1	+	+	.	.	1	1	19	70
+	.	.	.	+	+	+	+	+	1	+	+	+	.	.	.	+	+	13	48
+	+	+	+	+	+	.	.	.	.	.	.	+	+	.	.	.	+	10	37
1	+	+	1	+	+	1	+	1	+	r	+	.	+	r	+	+	+	25	93
.	.	+	r	r	+	1	+	1	1	1	1	+	.	.	1	1	.	22	81
.	+	+	+	.	+	r	1	+	2	r	.	+	2	1	1	3	1	18	67
+	r	.	+	+	+	1	1	+	.	.	+	+	+	1	+	1	1	23	85
+	1	1	+	+	+	r	+	.	+	1	+	.	1	+	+	.	.	16	59
.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	11	41
.	.	.	.	.	.	.	.	+	+	.	.	.	.	+	.	+	+	10	37
+	.	.	+	.	.	.	.	.	.	+	.	.	+	.	.	.	.	7	26
.	.	.	.	.	.	.	.	.	1	.	.	.	+	1	+	.	.	6	22

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Soldanella minima	E1	.	.	.	+	.	+	+	.	.
	Cystopteris regia	E1	.	.	.	+	.	.	.	+	.
	Hymenostylium recurvirostre	E0	.	.	.	+	.	1	.	.	.
	Pellia endiviifolia	E0	.	.	.	.	.	.	.	.	.
	Barbula crocea	E0	.	.	.	.	.	.	.	.	.
	Solorina saccata	E0	.	.	.	.	.	+	.	.	.
	Heliosperma pusillum	E1	.	.	.	.	.	.	+	.	.
	Preissia quadrata	E0	.	.	.	.	.	.	.	.	.
	Palustriella commutata	E0	.	.	.	.	.	.	.	.	.
PcSp	***Physoplexido comosae-Saxifragion petraeae***										
	Campanula cespitosa	E1	.	.	.	.	.	+	.	.	.
PC	***Potentilletum caulescentis***										
	Potentilla caulescens	E1	r	.	.	+	.	r	.	.	.
	Kernera saxatilis	E1	.	.	.	.	.	.	.	.	.
AT	***Asplenietea trichomanis***										
	Asplenium ruta-muraria	E1	r	+	.	.	.	.	.	+	.
	Asplenium trichomanes	E1	.	+	r	+	.	.	.	.	.
TR	***Thlapietea rotundifolii***										
	Adenostyles glabra	E1	.	.	.	.	r	r	+	.	.
	Hieracium bifidum	E1	.	+	.	.	+	.	.	.	.
	Dryopteris villarii	E1	.	.	.	.	.	.	+	+	.
	Aquilegia iulia	E1	.	.	.	.	.	.	.	.	.
	Gymnocarpium robertianum	E1	.	.	.	.	.	.	.	.	.
CD	***Caricetalia davallianae***										
	Parnassia palustris	E1	.	.	.	.	.	+	.	.	.
MC	***Montio-Cardaminetea***										
	Conocephalum conicum	E0	.	.	.	.	.	.	+	.	+
	Campylium stellatum	E0	.	.	.	.	.	.	.	.	+
	Distichium capillaceum	E0	.	.	.	.	.	.	.	.	.
ES	***Elyno-Seslerietea***										
	Sesleria caerulea	E1	+	+	+	+	+	+	r	.	.
	Laserpitium peucedanoides	E1	.	.	r	.	.	.	+	+	.
	Carex ferruginea	E1	+	.	.	.	.	.	.	.	.
	Carex mucronata	E1	.	+	r	+	.	.	.	.	.
	Carex firma	E1	.	.	r	.	.	1	.	.	.
	Campanula witasekiana	E1	.	.	.	.	.	.	+	.	.
	Phyteuma orbiculare	E1	.	.	.	.	.	.	.	.	.
TG	***Trifolio-Geranietea***										
	Digitalis grandiflora	E1	.	.	.	.	.	.	.	.	.
BA	***Betulo-Alnetea***										
	Salix appendiculata	E1	.	.	.	.	.	.	.	r	.
MuA	***Mulgedio-Aconitetea***										
	Chaerophyllum hirsutum	E1	.	.	.	.	.	.	.	.	.
	Veratrum album	E1	.	.	.	.	.	.	r	.	.
	Crepis paludosa	E1	.	.	.	.	.	.	.	.	.
EA	***Epilobietea angustifolii***										
	Rubus idaeus	E1	.	.	.	.	.	.	.	.	.
EP	***Erico-Pinetea***										
	Calamagrostis varia	E1	.	.	.	.	.	+	.	.	.
	Rhododendron hirsutum	E1	.	r	r	.	.	.	+	+	.
	Rhodothamnus chamaecistus	E1	+	+	+	.	.	r	.	.	.

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Pr.	Fr.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	11
.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	3	11
+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	11
.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	1	.	3	11
.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4
.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	4	15
.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	+	1	+	.	.	+	+	+	.	+	+	.	.	.	.	11	41
+	+	+	+	.	.	.	.	.	.	+	+	1	.	.	.	.	.	10	37
.	.	.	.	.	+	r	+	+	.	.	.	.	.	.	.	r	+	9	33
r	+	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	7	26
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
1	1	+	.	.	.	.	.	.	+	1	+	.	+	1	1	1	2	13	48
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	1	+	.	1	+	+	.	+	+	.	.	+	.	1	16	59
.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	4	15
.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	3	11
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	11
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	1	4
.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	+	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	1	4
.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
+	.	.	+	.	.	+	+	.	.	+	+	.	+	.	+	.	.	9	33
.	.	.	.	+	.	.	.	+	+	+	.	.	.	.	.	r	.	9	33
.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	5	19

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9
	Pinus nigra	E1	.	r	.	.	.	.	.	.	.
	Polygala chamaebuxus	E1	.	.	.	.	r	.	.	.	.
	Erica carnea	E1	.	.	.	.	r	.	.	.	.
	Cirsium erisithales	E1	.	.	.	.	.	.	.	.	.
	Aquilegia nigricans	E1	.	.	.	.	.	.	.	.	.
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.
VP	***Vaccinio-Piceetea***										
	Homogyne sylvestris	E1	.	.	.	.	.	.	.	.	.
	Clematis alpina	E1	.	.	.	.	.	.	.	.	.
	Veronica urticifolia	E1	.	.	.	.	.	.	.	.	.
AF	***Aremonio-Fagion***										
	Anemone trifolia	E1	.	.	.	.	.	.	.	.	.
	Cyclamen purpurascens	E1	.	.	.	.	.	.	.	.	.
	Cardamine enneaphyllos	E1	.	.	.	.	.	.	.	.	.
	Cardamine trifolia	E1	.	.	.	.	.	.	.	.	.
TA	***Tilio-Acerion***										
	Acer pseudoplatanus	E1	.	.	.	.	.	r	.	.	.
	Aruncus dioicus	E1	.	.	.	.	.	.	.	.	.
	Thalictrum aquilegiifolium	E1	.	.	.	.	.	.	.	.	.
FS	***Fagetalia sylvaticae***										
	Galeobdolon flavidum	E1	.	.	.	.	.	.	.	.	.
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	.
	Galium laevigatum	E1	.	.	.	.	.	.	.	.	.
	Mycelis muralis	E1	.	.	.	.	.	.	.	.	.
	Salvia glutinosa	E1	.	.	.	.	.	.	.	.	.
QP	***Quercetalia pubescentis***										
	Fraxinus ornus	E1	.	.	.	.	.	.	.	.	.
	Ostrya carpinifolia	E2a	.	.	.	.	.	.	.	.	.
QF	***Querco-Fagetea***										
	Carex digitata	E1	.	.	.	.	.	.	.	.	.
	Hepatica nobilis	E1	.	.	.	.	.	.	.	.	.
	Carex umbrosa	E1	.	.	.	.	r	.	.	.	.
ML	**Mosses and lichens (Mahovi in lišaji)**										
	Ctenidium molluscum	E0	+	.	.	.	.	+	.	.	.
	Neckera crispa	E0	.	.	.	+	.	.	.	.	.
	Tortella tortuosa	E0	.	.	.	.	.	.	.	.	+
	Brachythecium rutabulum	E0	.	.	.	.	.	.	.	.	.
	Plagiopus oederi	E0	+	.	.	.	.	.	.	+	.
	Bryum sp.	E0	.	.	.	.	.	.	1	.	.
	Lescuraea plicata	E0	.	.	.	.	.	.	.	+	.
	Dicranum scoparium	E0	.	.	.	.	.	.	.	+	.
	Marchantia polymorpha	E0	.	.	.	.	.	.	.	.	.
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.
	Pedinophyllum interruptum	E0	.	.	.	.	.	.	.	.	.
	Plagiochila porelloides	E0	.	.	.	.	.	.	.	.	.

Legend / Legenda

D Dolomite – dolomit
L Limestone – apnenec
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Pr.	Fr.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	4
+	r	.	.	.	.	.	+	.	r	.	.	.	.	.	.	.	.	4	15
.	.	.	.	.	.	.	.	.	+	.	.	+	2	.	.	+	.	4	15
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	4
+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	2	7
.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	4
.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	1	4
.	+	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	3	11
r	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	2	7
.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	2	7
.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	2	7
.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
1	r	+	.	.	.	r	.	.	r	+	.	+	+	.	+	.	.	9	33
.	.	.	.	.	.	.	.	.	.	.	.	.	2	+	.	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
+	+	.	1	1	+	1	1	.	1	.	+	.	+	1	1	.	.	14	52
1	+	1	1	1	+	1	.	1	+	.	.	.	1	.	.	.	.	11	41
.	.	.	.	+	.	1	.	+	2	+	.	+	1	.	.	1	.	9	33
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	2	3	11
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	7
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4
.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	1	4

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Table 7 (Tabela 7): *Phytocoenosis of* Primulo carniolicae-Potentilletosum caulescentis.

Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Pr.	Fr.
Database number of relevé (Delovna številka popisa)		228717	244377	246923	247018	275606	246607	269206	269310	255778	278001	278002	278004	275371	277987	278020	278018		
Elevation in m (Nadmorska višina v m)		240	950	1050	1050	670	470	543	485	510	670	670	665	660	710	730	720		
Aspect (Lega)		N	NE	NE	NE	SEE	NE	NE	NEE	N	NE	NE	NNE	NNE	NEE	N	N		
Slope in degrees (Nagib v stopinjah)		100	80	80	80	80	80	70	90	80	85	80	80	90	90	90	95		
Parent material (Matična podlaga)		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
Soil (Tla)		Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li	Li		
Stoniness in % (Kamnitost v %)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	30	25	20	20	30	30	30	30	35	35	25	30	30	20	25	20		
Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	30	5	5	5	30	5	10	10	10	20	5	10	10	5	5	5		
Number of species (Število vrst)		27	12	13	15	21	19	19	17	23	29	26	31	23	18	15	13		
Relevé area (Velikost popisne ploskve)	m^2	10	5	12	12	15	10	10	5	5	15	15	15	15	10	15	15		
Date of taking relevé (Datum popisa)		4/22/2004	8/10/2012	7/1/1998	7/1/1998	5/16/2019	5/4/2011	4/7/2017	11/18/2017	5/14/2002	4/29/2019	4/29/2019	4/29/2019	4/29/2019	7/12/2019	4/29/2019	4/29/2019		
Locality (Nahajališče)		Straža (Idrijca)	Poldanovec	Hudournik	Hudournik	Grenja Trebuša - Drnulk	Šebrelje - Sv. Ivan	Orehovska graba - Nemci	Šebrelje - Sv. Ivan	Skopica - Vučja graba	Grenja Trebuša - Drnulk	Grenja Trebuša - Drnulk	Grenja Trebuša - Drnulk	Drnulk - Kobilica	Grenja Trebuša - Drnulk	Grenja Trebuša - Drnulk	Grenja Trebuša - Drnulk		
Quadrant (Kvadrant)		9849/4	9849/3	9949/1	9949/1	9948/2	9849/4	9849/4	9849/4	9848/4	9848/2	9848/2	9848/2	9848/2	9848/2	9848/2	9948/2		
Coordinate GK Y (D-48)	m	418442	409813	413662	413728	408332	416374	417696	416791	408523	408643	408646	408635	408562	408453	408424	408320		
Coordinate GK X (D-48)	m	5106926	5097119	5102365	5102274	5103605	5108067	5111204	5107974	5106876	5103053	5103051	5103073	5102692	5102624	5102700	5103002		

																						Pr.	Fr.
	Diagnostic species of the association (Diagnostične vrste asociacije)																						
AP	*Primula carniolica*	E1	+	+	+	+	+	1	1	+	1	1	1	+	1	1	1	16	100
PcSp	*Phyteuma scheuchzeri* subsp. *columnae*	E1	+	+	+	+	1	+	+	+	+	1	1	+	1	+	+	16	100
AP	*Paederota lutea*	E1	1	2	1	1	r	+	.	+	1	1	1	1	1	+	1	15	94
AP	*Orthothecium rufescens*	E0	+	.	.	+	.	+	1	+	+	+	+	.	.	.	.	9	56
AP	*Valeriana saxatilis*	E1	.	.	+	+	.	.	+	.	1	1	+	+	+	.	+	9	56
AP	*Carex bnachystachys*	E1	.	+	.	+	+	.	.	.	.	r	.	r	.	+	+	8	50
	Differential species of the subassociation (Razlikovalnice subasociacije)																		
PC	*Potentilla caulescens*	E1	.	.	+	r	.	+	1	+	+	.	+	+	1	1	1	12	75
EP	*Erica carnea*	E1	.	.	.	.	r	+	+	+	+	+	+	+	+	+	.	11	69
EP	*Polygala chamaebuxus*	E1	+	.	.	.	.	.	+	+	+	+	+	2	.	.	.	8	50
PC	*Primula auricula*	E1	.	.	.	.	1	.	.	.	+	+	+	.	.	.	.	4	25
AP	*Primula x venusta*	E1	.	.	.	.	.	.	.	.	+	+	r	.	.	.	.	3	19
AP	***Cystopteridion* s. lat. (*Astrantio-Paederotion luteae* nom. prov.)**																		
	Fissidens dubius	E0	+	.	.	.	+	.	.	+	.	.	+	.	.	.	.	4	25
	Asplenium viride	E1	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	1	6
	Tofieldia calyculata	E1	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1	6
	Preissia quadrata	E0	.	.	.	.	.	.	.	.	.	+	.	.	+	+	.	3	19
	Hymenostylium recurvirostre	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Pellia endiviifolia	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Eucladium verticillatum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Barbula crocea	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	6
PcSp	***Physoplexido comosae-Saxifragion petraeae***																		
	Campanula cespitosa	E1	.	.	.	.	.	.	+	.	r	.	.	.	+	r	.	4	25
	Athamanta turbith	E1	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	6
PC	***Potentilletalia caulescentis***																		
	Potentilla caulescens	E1	.	.	+	r	.	+	+	1	+	+	+	.	+	1	1	12	75
	Primula auricula	E1	.	.	.	.	1	.	.	.	.	+	+	.	+	.	.	4	25
	Kernera saxatilis	E1	.	.	+	+	.	.	+	.	.	.	.	.	.	.	.	3	19
	Rhamnus pumilus	E1	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	1	6
AT	***Asplenieta trichomanis***																		
	Asplenium trichomanes	E1	+	.	+	+	+	.	.	.	r	.	.	+	+	+	r	10	63
	Asplenium ruta-muraria	E1	+	.	+	+	+	.	.	r	r	+	.	+	.	.	.	8	50
	Hieracium glaucum	E1	.	.	.	.	.	.	.	.	.	.	.	1	.	+	.	2	13

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Pr.	Fr.
TR	***Thlaspietea rotundifolii***																			
	Hieracium bifidum	E1	.	r	.	.	1	.	.	.	.	.	.	.	+	+	+	+	6	38
	Gymnocarpium robertianum	E1	.	.	.	.	+	+	.	.	.	.	+	.	.	.	.	.	3	19
	Aquilegia iulia	E1	.	r	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Campanula cochleariifolia	E1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Hieracium porrifolium	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	6
MC	***Montio-Cardaminetea***																			
	Campylium stellatum	E0	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	2	13
	Bryum pseudotriquetrum	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Oxyrrhynchium hians	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Cratoneuron filicinum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Cololejeunea calcarea	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
ES	***Elyno-Seslerietea***																			
	Sesleria caerulea	E1	1	r	1	1	1	+	2	+	1	2	1	1	1	+	.	+	15	94
	Carex mucronata	E1	.	.	+	.	.	1	1	1	1	+	1	+	.	.	.	+	9	56
	Betonica alopecuros	E1	.	.	.	.	.	.	.	.	r	.	r	+	.	+	.	.	4	25
	Aster bellidiastrum	E1	1	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	3	19
	Gentiana clusii	E1	.	.	.	.	.	.	.	.	.	+	r	.	1	.	.	.	3	19
	Phyteuma orbiculare	E1	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	3	19
	Hieracium villosum	E1	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	2	13
	Carex firma	E1	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Globularia cordifolia	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	1	6
FB	***Festuco-Brometea***																			
	Carex humilis	E1	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	2	13
	Buphthalmum salicifolium	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
BA	***Betulo-Alnetea***																			
	Salix appendiculata	E1	+	.	.	.	.	+	.	.	r	.	+	.	+	.	+	2	7	44
	Salix glabra	E1	.	.	.	.	.	.	+	.	.	r	.	.	.	.	.	.	2	13
RP	***Rhamno-Prunetea***																			
	Juniperus communis	E2a	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	1	6
TG	***Trifolio-Geranietea***																			
	Laserpitium siler	E1	.	.	.	.	.	.	.	.	+	r	+	+	.	.	.	.	4	25
	Thesium bavarum	E1	.	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	1	6
	Viola hirta	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Pr.	Fr.
EP	***Erico-Pinetea***																			
	Erica carnea	E1	.	.	.	.	r	+	+	+	+	+	+	+	+	+	+	.	11	69
	Rhododendron hirsutum	E1	+	.	.	.	.	+	.	.	+	+	+	+	+	+	+	.	9	56
	Calamagrostis varia	E1	1	r	+	+	+	.	+	.	.	+	.	.	.	+	.	.	8	50
	Polygala chamaebuxus	E1	+	.	.	.	.	.	+	+	+	+	+	+	2	.	.	.	8	50
	Asperula aristata	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	1	+	.	3	19
	Leontodon incanus	E1	.	.	.	.	.	.	.	.	.	r	r	.	+	.	.	.	3	19
	Rhodothamnus chamaecistus	E1	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	2	13
	Amelanchier ovalis	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	1	6
	Aquilegia nigricans	E1	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	1	6
	Genista januensis	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	1	6
	Molinia arundinacea	E1	.	.	.	.	.	.	.	.	.	r	.	.	.	.	.	.	1	6
	Pinus nigra	E1	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	6
VP	***Vaccinio-Piceetea***																			
	Clematis alpina	E1	.	.	+	r	.	.	.	.	.	.	.	.	.	.	.	.	2	13
	Hieracium murorum	E1	+	.	.	.	.	.	.	.	r	.	.	.	.	.	.	.	2	13
	Veronica urticifolia	E1	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
AF	***Aremonio-Fagion***																			
	Cyclamen purpurascens	E1	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	3	19
	Helleborus niger	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6
	Primula vulgaris	E1	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	1	6
FS	***Fagetalia sylvaticae***																			
	Fagus sylvatica	E1	.	.	.	.	.	.	.	.	r	.	.	r	.	.	.	.	2	13
	Mycelis muralis	E1	.	.	.	.	r	.	.	.	.	.	.	.	.	.	.	.	1	6
QP	***Quercetalia pubescenti-petraeae***																			
	Ostrya carpinifolia	E1	+	.	.	.	r	+	+	.	.	.	r	+	+	.	.	+	8	50
	Fraxinus ornus	E1	.	.	.	.	r	.	.	.	+	r	r	r	.	+	.	.	6	38
	Mercurialis ovata	E1	.	.	.	.	+	.	.	+	.	.	+	+	.	.	.	.	4	25
	Melittis melissophyllum	E1	.	.	.	.	.	.	.	.	.	.	.	r	.	.	.	.	1	6
QF	***Quereco-Fagetea***																			
	Carex digitata	E1	.	.	.	.	+	+	.	.	.	.	.	+	.	.	.	.	3	19
	Hedera helix	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	r	.	1	6
	Hepatica nobilis	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	1	6

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Pr.	Fr.
ML	**Mosses and lichens (Mahovi in lišaji)**																			
	Ctenidium molluscum	E0	1	.	.	.	.	+	+	+	.	+	+	.	1	.	.	+	8	50
	Tortella tortuosa	E0	.	+	.	+	.	.	+	.	+	.	.	.	+	+	.	.	6	38
	Neckera crispa	E0	.	.	.	.	.	+	1	1	.	.	+	.	.	.	.	.	4	25
	Pedinophyllum interruptum	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Trichostomum crispulum	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Anomodon attenuatus	E0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Plagiomnium rostratum	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Encalypta streptocarpa	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Anomodon viticulosus	E0	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	6
	Homalothecium sericeum	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Neckera complanata	E0	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	1	6
	Lichenes div.	E0	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	1	6
	Dicranodontium denudatum	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	1	6
	Schistidium apocarpum	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	1	6

Legend / Legenda

D Dolomite – dolomit
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

Table 8 (Tabela 8): *Primulo carniolicae-Potentilletum clusianae.*

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	Pr.	Fr.
	Database number of relevé (Delovna številka popisa)		236342	234471	246510	236341	236351	236350		
	Elevation in m (Nadmorska višina v m)		1320	1280	1170	1330	1325	1320		
	Aspect (Lega)		NW	NW	NE	NW	NW	NE		
	Slope in degrees (Nagib v stopinjah)		90	90	85	90	90	90		
	Parent material (Matična podlaga)		D	D	D	D	D	D		
	Soil (Tla)		Li	Li	Li	Li	Li	Li		
	Stoniness in % (Kamnitost v %)		100	100	100	70	70	100		
	Cover of herb layer in % (Zastiranje zeliščne plasti v %):	E1	30	30	30	30	30	30		
	Cover of moss layer in % (Zastiranje mahovne plasti v %)	E0	5	5	5	5	5	5		
	Number of species (Število vrst)		13	21	23	18	21	22		
	Relevé area (Velikost popisne ploskve)	m^2	2	10	10	5	3	10		
	Date of taking relevé (Datum popisa)		7/31/2010	8/27/2004	5/11/2011	8/4/2010	8/4/2010	8/4/2010		
	Locality (Nahajališče)		Zeleni rob	Zeleni rob	Poldan-ovec	Zeleni rob	Zeleni rob	Zeleni rob		
	Quadrant (Kvadrant)		9949/3	9949/3	9949/3	9949/3	9949/3	9949/3		
	Coordinate GK Y (D-48)	m	411517	411773	410299	411442	411445	411512		
	Coordinate GK X (D-48)	m	5095832	5095846	5096834	5095838	5095850	5095836		
	Diagnostic species of the association (Diagnostične vrste asociacije)								Pr.	Fr.
PC	*Potentilla clusiana*	E1	+	1	1	2	1	+	6	100
AP	*Primula carniolica*	E1	+	+	+	1	1	1	6	100
ES	*Carex firma*	E1	+	1	1	+	+	+	6	100
EP	*Rhodothamnus chamaecistus*	E1	+	1	1	+	+	+	6	100
PC	*Campanula cochleariifolia*	E1	+	r	.	+	+	1	5	83
TR	*Hladnikia pastinacifolia*	E1	.	+	+	r	.	.	3	50
TR	*Aquilegia iulia*	E1	.	.	+	.	r	+	3	50
ES	*Hieracium pilosum*	E1	.	.	.	+	+	+	3	50
AP	***Cystopteridion* s. lat. *(Astrantio-Paederotion luteae* nom. prov.)**									
	Paederota lutea	E1	1	+	.	+	1	2	5	83
	Valeriana saxatilis	E1	.	r	+	+	+	+	5	83
	Astrantia carniolica	E1	r	+	.	.	+	+	4	67
	Viola biflora	E1	+	.	.	r	+	1	4	67
	Tofieldia calyculata	E1	.	r	.	.	+	.	2	33
	Carex brachystachys	E1	.	.	.	r	.	+	2	33
	Orthothecium rufescens	E0	.	.	.	.	+	1	2	33
	Pinguicula alpina	E1	.	+	.	.	.	.	1	17
	Ranunculus traunfellneri	E1	1	.	.	.	.	.	1	17
	Soldanella minima	E1	+	.	.	.	.	.	1	17
	Primula x venusta	E1	.	.	r	.	.	.	1	17
	Cystopteris fragilis	E1	.	.	.	.	.	1	1	17

	Number of relevé (Zaporedna številka popisa)		1	2	3	4	5	6	Pr.	Fr.
PcSp	***Physoplexido comosae-Saxifragion petraeae***									
	Phyteuma scheuchzeri subsp. *columnae*	E1	.	.	.	+	+	1	3	50
	Saxifraga squarrosa	E1	.	+	+	.	.	.	2	33
PC	***Potentilletalia caulescentis***									
	Bupleurum petraeum	E1	.	.	.	1	1	.	2	33
	Primula auricula	E1	.	.	1	.	.	.	1	17
	Rhamnus pumilus	E1	.	.	+	.	.	.	1	17
AT	***Asplenieta trichomanis***									
	Valeriana tripteris	E1	.	.	.	.	.	+	1	17
TR	***Thlaspietea rotundifolii***									
	Adenostyles glabra	E1	.	.	.	.	.	r	1	17
	Hieracium bifidum	E1	.	.	.	.	.	r	1	17
MC	***Montio-Cardaminetea***									
	Distichium capillaceum	E0	.	+	.	.	.	.	1	17
ES	***Elyno-Seslerietea***									
	Sesleria caerulea	E1	r	1	1	2	1	1	6	100
	Aster bellidiastrum	E1	+	.	.	.	+	+	3	50
	Carex mucronata	E1	.	.	+	+	+	.	3	50
	Laserpitium peucedanoides	E1	.	.	r	+	+	.	3	50
	Hieracium pilosum	E1	.	.	.	+	+	+	3	50
	Hieracium villosum	E1	.	r	.	.	.	.	1	17
	Leontopodium alpinum	E1	.	.	+	.	.	.	1	17
	Dryas octopetala	E1	.	.	+	.	.	.	1	17
	Gentiana clusii	E1	.	.	r	.	.	.	1	17
BA	***Betulo-Alnetea***									
	Salix appendiculata	E1	.	r	r	.	.	.	2	33
	Salix glabra	E1	.	+	+	.	.	.	2	33
EP	***Erico-Pinetea***									
	Rhododendron hirsutum	E1	.	+	+	.	+	+	4	67
	Pinus nigra	E1	.	.	r	.	.	.	1	17
ML	**Mosses (Mahovi)**									
	Neckera crispa	E0	.	+	+	1	.	.	3	50
	Tortella tortuosa	E0	.	+	+	+	+	1	5	83
	Ctenidium molluscum	E0	+	+	.	.	.	.	2	83

Legend / Legenda

D Dolomite – dolomit
Li Lithosol – kamnišče
Pr. Presence (number of relevés in which the species is presented) – število popisov, v katerih se pojavlja vrsta
Fr. Frequency in % – frekvenca v %

Table 9: Synoptic table of rock crevice communities with *Primula carniolica*.
Tabela 9: Sintezna tabela združb skalnih razpok z vrsto *Primula carniolica*.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sign for syntaxa (Oznaka sintaksonov)		AcPa	AcPc	PhcPc-ac	PhcPc-ty	PcPcl-CT	PcPcl-TG	Pcty	Pccb	Pcvb	Pc-No	Pc-Do	PC-Nrp	Pc-Iv	PcPcl-As	PhPc-pc
Author (Avtor)		IDAM	IDAM	IDAM	IDAM	IDAM	ID	MA	MA	ID	IDBD	IDBDBV	BDBV	BDID	MA	ID
Number of relevés (Število popisov)		19	56	27	73	16	8	28	10	15	6	14	5	7	9	6
***Cystopteridion* s. lat. (*Astrantio carniolicae-Paederotion luteae* nom. prov.)**																
Pinguicula alpina	E1	100	86	41	.	.	50	7	.	60	33	14	40	71	.	17
Hymenostylium recurvirostre	E0	84	77	11	8	6	.	.	.	20	.	7	.	.	.	.
Palustriella commutata	E0	74	89	4	1	.	.	.	.	7	.	.	.	.	.	.
Aster bellidiastrum	E1	58	43	85	45	19	88	7	20	93	83	43	60	100	.	50
Tofieldia calyculata	E1	58	54	37	16	6	38	4	40	20	17	14	60	43	.	33
Astrantia carniolica	E1	58	88	67	.	.	38	.	.	7	.	.	.	.	.	67
Orthothecium rufescens	E0	47	84	70	56	56	38	50	40	100	50	29	.	.	.	33
Paederota lutea	E1	26	39	100	74	94	100	100	100	20	67	29	80	86	100	83
Saxifraga aizoides	E1	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Carex brachystachys	E1	16	32	48	45	50	.	4	50	47	33	7	20	43	.	33
Preissia quadrata	E0	16	29	4	12	19	.	.	.	.	.	.	.	.	.	.
Barbula crocea	E0	16	9	7	10	6	.	.	.	.	.	.	.	.	.	.
Pellia endiviifolia	E0	16	5	11	3	6	.	.	.	.	.	7	.	.	.	.
Valeriana saxatilis	E1	5	43	81	32	56	75	29	70	7	.	.	.	.	33	83
Fissidens dubius	E0	5	9	22	27	25	38	29	10	7	.	36	20	.	.	.
Eucladium verticillatum	E0	5	7	.	.	6	.	.	.	.	.	.	.	.	.	.
Selaginella helvetica	E1	5	.	.	3	.	.	.	.	.	.	.	.	.	.	.
Primula carniolica	E1	.	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Asplenium viride	E1	.	21	59	40	6	13	11	70	60	50	36	80	29	.	.
Valeriana tripteris	E1	.	11	37	49	.	.	18	30	53	83	64	80	71	.	17
Viola biflora	E1	.	7	93	16	.	.	.	.	100	.	.	.	14	.	67
Soldanella minima	E1	.	2	11	.	.	.	.	.	.	.	.	.	.	.	17
Moehringia muscosa	E1	.	2	.	8	.	.	.	.	7	33	36	20	29	.	.
Cystopteris fragilis	E1	.	.	26	12	.	.	.	.	53	33	14	60	.	.	17
Cystopteris regia	E1	.	.	11	.	.	.	.	.	.	.	.	.	.	.	.
Heliosperma pusillum	E1	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
Solorina saccata	E0	.	.	4	.	.	.	7	.	.	.	.	.	.	.	.
Primula x venusta	E1	.	.	.	4	19	.	.	.	.	.	.	.	.	.	17
Heliosperma veselskyi subsp. *veselskyi*	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Collema fuscovirens	E0	.	.	.	.	.	.	21	.	.	.	.	.	.	56	.
Ranunculus traunfellneri	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	17
Physoplexido comosae-Saxifragion petraeae																
Campanula cespitosa	E1	47	27	7	15	25	.	.	10	20	.	29	20	.	.	.
Phyteuma scheuchzeri subsp. *columnae*	E1	11	48	81	100	100	88	.	.	7	.	.	.	.	.	50
Micromeria thymifolia	E1	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Hieracium pospichalii	E1	.	4	.	.	.	.	.	.	.	.	.	20	.	.	.
Athamanta turbith	E1	.	.	.	5	6	38	.	.	.	.	.	.	.	.	.
Saxifraga squarrosa	E1	.	.	.	.	.	25	.	.	.	.	.	.	.	.	33
Silene hayekiana	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Potentilletalia caulescentis																
Potentilla caulescens	E1	16	21	15	10	75	88	14	.	.	.	.	100	.	100	.
Kernera saxatilis	E1	.	4	4	7	19	.	.	.	.	.	.	.	.	22	.
Primula auricula	E1	.	.	.	1	25	.	.	.	.	.	.	.	.	.	17
Rhamnus pumilus	E1	.	.	.		6	13	.	10	.	.	7	.	29	78	17
Campanula cochleariifolia	E1	.	.	.		6	25	.	.	.	.	.	.	.	.	83
Asplenium seelosii	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	33	.
Potentilla clusiana	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100
Bupleurum petraeum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	33
Asplenietea trichomanis																
Asplenium trichomanes	E1	11	14	37	56	63	25	25	50	60	83	64	20	57	22	.
Asplenium ruta-muraria	E1	.	11	41	67	50	38	25	80	73	100	71	60	71	56	.
Hieracium glaucum	E1	.	.	.	3	13	.	.	.	.	.	.	.	.	.	.
Erysimum sylvestre	E1	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.
Thlaspietea rotundifolii																
Petasites paradoxus	E1	37	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Achnatherum calamagrostis	E1	11	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Adenostyles glabra	E1	11	13	33	3	.	25	4	10	.	.	.	.	.	.	17
Hieracium bifidum	E1	11	18	26	48	38	50	.	10	40	33	57	60	57	.	17
Hieracium porrifolium	E1	5	2	.	5	6	25	.	.	.	.	7	.	.	.	.
Gymnocarpium robertianum	E1	.	9	4	12	19	.	.	.	7	33	14	40	.	.	.
Aquilegia iulia	E1	.	.	4	1	6	13	.	.	.	.	.	.	.	.	50
Dryopteris villarii	E1	.	.	7	1	.	.	.	.	.	.	.	.	.	.	.
Saxifraga caesia	E1	.	.	.	.	.	13	.	.	.	.	.	.	.	.	.
Hladnikia pastinacifolia	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50
Caricetalia davallianae																
Carex lepidocarpa	E1	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Parnassia palustris	E1	.	5	4	.	.	.	.	.	.	.	.	.	.	.	.
Schoenus nigricans	E1	.	5	.	.	.	.	.	.	.	.	.	.	.	.	.
Montio-Cardaminetea																
Conocephalum conicum	E0	11	32	48	25	.	13	.	.	80	67	14	.	.	.	.
Bryum pseudotriquetrum	E0	11	4	.	.	6	.	.	.	.	.	.	.	.	.	.
Cratoneuron filicinum	E0	5	4	.	.	6	.	.	.	.	.	.	.	.	.	.
Campylium stellatum	E0	.	7	4	1	13	.	.	.	13	.	.	.	.	.	.
Distichium capillaceum	E0	.	2	4	7	.	.	.	.	.	.	.	.	.	.	17
Ditrichum flexicaule	E0	.	2	.	1	.	.	.	.	.	.	.	.	.	.	.
Campylium calcareum	E0	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Campylium elodes	E0	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Cololejeunea calcarea	E0	.	.	.	1	6	.	.	.	.	.	.	.	.	.	.
Oxyrrhynchium hians	E0	.	.	.	.	6	.	.	.	20	.	.	.	.	.	.
Oxyrrhynchium schleicheri	E0	.	.	.	.	.	.	.	.	13	.	.	.	.	.	.
Elyno-Seslerietea																
Sesleria caerulea	E1	68	61	59	53	94	100	75	100	20	33	29	40	43	89	100
Carex mucronata	E1	11	38	11	14	56	75	11	100	.	.	.	20	.	100	50
Phyteuma orbiculare	E1	.	9	4		19	.	4	10	.	17	.	.	14	.	.
Carex ferruginea	E1	.	7	11	3	.	13	.	.	.	.	.	.	.	.	.
Carex firma	E1	.	4	7		6	38	.	.	.	.	.	.	.	.	100
Betonica alopecuros	E1	.	2	.	5	25	.	7	10	.	.	.	.	14	.	.
Laserpitium peucedanoides	E1	.	2	15	1	.	38	11	10	.	.	.	.	29	.	50
Campanula witasekiana	E1	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Carduus crassifolius	E1	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.
Gentiana clusii	E1	.	.	.	1	19	.	.	.	.	.	.	.	.	.	17
Hieracium villosum	E1	.	.	.		13	.	.	.	.	17	.	.	.	.	17
Leontopodium alpinum	E1	.	.	.	.	.	13	.	.	.	.	.	.	.	.	17
Dryas octopetala	E1	.	.	.	.	.	13	.	.	.	.	.	.	.	.	17
Ranunculus carinthiacus ?	E1	.	.	.	.	.	13	.	.	.	.	.	.	.	.	.
Hieracium pillosum	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50
Festuco-Brometea																
Buphthalmum salicifolium	E1	.	4	.	3	6	.	.	10	13	.	7	20	29	11	.
Galium lucidum	E1	.	2	.	1	.	.	.	10	.	.	14	.	.	.	.
Carex humilis	E1	.	.	.	4	13	.	4	10	.	.	.	.	.	.	.
Brachypodium rupestre	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Linum catharticum	E1	.	.	.	.	.	13	.	.	.	.	.	.	.	.	.
Globularia punctata	E1	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.
Campanula rotundifolia	E1	.	.	.	.	.	.	.	10	.	.	.	.	.	.	.
Sanguisorba minor	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Molinio-Arrhenatheretea, Calthion																
Angelica sylvestris	E1	5	.	.	4	.	.	.	.	.	.	.	.	.	.	.
Pimpinella major	E1	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Caltha palustris	E1	.	2	.	1	.	.	.	.	.	.	.	.	.	.	.
Cirsium oleraceum	E1	.	2	.	.	.	.	.	.	.	.	.	.	14	.	.
Taraxacum x Ruderalia	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Euphorbia villosa	E1	.	.	.	.	.	.	.	.	.	.	.	.	14	.	.
Trifolio-Geranietea																
Laserpitium siler	E1	.	4	.	3	25	.	.	.	.	.	7	.	14	11	.
Laserpitium latifolium	E1	.	2	.	1	.	.	.	.	.	.	7	20	14	.	.
Digitalis grandiflora	E1	.	.	4	.	.	.	.	.	.	.	.	.	14	.	.
Viola hirta	E1	.	.	.	3	6	.	.	10	.	17	.	.	.	.	.
Anthericum ramosum	E1	.	.	.	1	.	.	.	.	.	.	7	.	.	.	.
Thalictrum minus	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Thesium bavarum	E1	.	.	.		6	.	.	.	.	.	.	.	.	.	.
Vincetoxicum hirundinaria	E1	.	.	.	.	.	.	.	.	.	.	14	.	.	11	.
Betulo-Alnetea																
Salix appendiculata	E1	21	13	7	7	44	25	4	10	13	17	21	40	43	.	33
Salix glabra	E1	.	11	.	3	13	63	.	.	.	.	.	.	.	.	33
Mulgedio-Aconitetea																
Chaerophyllum hirsutum	E1	5	4	7		.	.	.	.	.	.	.	.	.	.	.
Crepis paludosa	E1	5	2	4	.	.	.	.	.	.	.	14	.	.	.	.
Petasites hybridus	E1	5	.	.	.	.	.	.	.	7	.	.	.	14	.	.
Veratrum album	E1	.	.	4	.	.	.	.	.	.	.	.	20	.	.	.
Senecio ovatus	E1	.	.	.	5	.	.	.	.	.	.	7	40	.	.	.
Aconitum degenii subsp. *paniculatum*	E1	.	.	.	1	.	.	.	.	.	17	7	.	.	.	.
Ranunculus platanifolius	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Saxifraga rotundifolia	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Athyrium filix-femina	E1	.	.	.	.	.	.	.	.	.	17	.	20	.	.	.
Centaurea montana	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Epilobietea angustifolii																
Eupatorium cannabinum	E1	5	5	.	.	.	.	.	.	.	.	.	.	14	.	.
Urtica dioica	E1	.	.	.	.	.	.	.	.	.	17	.	.	.	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sambuco-Salicion capreae, Rhamno-Prunetea																
Rubus idaeus	E1	.	.	4	1	.	.	.	.	.	.	.	.	.	.	.
Juniperus communis (inc. *J. intermedia*)	E2a	.	.	.		6	.	.	20	.	.	14	.	.	.	.
Salix caprea	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Sorbus aucuparia	E2a	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Viburnum lantana	E2a	.	.	.	.	.	.	.	.	.	.	.	.	14	.	.
Erico-Pinetea																
Molinia arundinacea	E1	58	43	4	1	6	.	4	.	7	.	.	.	29	.	.
Calamagrostis varia	E1	37	32	33	32	50	13	.	.	67	50	50	.	29	.	.
Erica carnea	E1	16	21	4	14	69	25	36	70	7	17	36	60	.	11	.
Carex ornithopoda	E1	11	5	.	5	.	.	11	20	.	.	29	.	.	11	.
Leontodon incanus	E1	11	.	.	1	19	.	.	.	.	.	7	.	14	.	.
Gymnadenia odoratissima	E1	5	.	.	.	.	13	.	.	.	.	.	.	.	.	.
Rhododendron hirsutum	E1	.	11	33	26	56	38	21	40	13	.	14	20	43	.	67
Rhodothamnus chamaecistus	E1	.	7	19	1	13	75	.	.	.	.	.	.	.	.	100
Aquilegia nigricans	E1	.	4	4	1	6	.	.	.	.	.	7	20	.	.	.
Cirsium erisithales	E1	.	2	4	3	.	.	.	.	.	.	.	.	14	.	.
Polygala chamaebuxus	E1	.	2	4	5	50	13	7	30	.	.	.	.	.	22	.
Pinus nigra	E1	.	.	4		6	.	.	10	.	.	.	.	.	.	17
Rubus saxatilis	E1	.	.	.	5	.	.	.	.	.	.	.	.	29	.	.
Carex alba	E1	.	.	.	4	.	.	7	.	.	17	29	.	.	.	.
Amelanchier ovalis	E1	.	.	.	1	6	25	.	40	.	.	.	20	.	11	.
Pinus sylvestris	E2a	.	.	.	1	.	.	.	.	.	.	.	.	14	.	.
Aster amellus	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Asperula aristata	E1	.	.	.		19	13	.	.	.	.	.	.	.	.	.
Globularia cordifolia	E1	.	.	.		6	13	4	10	.	17	.	.	.	11	.
Genista januensis	E1	.	.	.		6	.	.	.	.	.	.	.	.	.	.
Allium ericetorum	E1	.	.	.	.	.	.	.	10	.	.	.	.	.	.	.
Cotoneaster tomentosus	E1	.	.	.	.	.	.	.	10	.	.	.	.	.	.	.
Chamaecytisus hirsutus	E1	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.
Euphrasia cuspidata ?	E1	.	.	.	.	.	.	.	.	.	.	.	.	.	22	.
Vaccinio-Piceetea																
Picea abies	E1	5	2	.	3	.	13	18	.	.	17	21	40	71	.	.
Veronica urticifolia	E1	5	7	4	18	6	.	.	.	73	50	.	.	.	.	.
Solidago virgaurea	E1	.	4	.	4	.	.	.	.	.	.	.	.	.	.	.
Aposeris foetida	E1	.	2	.	1	.	.	.	.	7	.	.	20	.	.	.
Gentiana asclepiadea	E1	.	2	.	3	.	.	4	.	.	.	.	.	.	.	.
Homogyne sylvestris	E1	.	2	15	15	.	.	21	40	13	17	14	60	.	.	.
Oxalis acetosella	E1	.	2	.	3	.	.	.	.	13	17	.	.	.	.	.
Clematis alpina	E1	.	.	15	4	13	.	.	.	7	17	.	.	.	.	.
Hieracium murorum	E1	.	.	.	4	13	.	.	10	.	50	.	20	.	.	.
Polystichum lonchitis	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Rosa pendulina	E1	.	.	.	1	.	.	4	10	.	.	7	.	.	.	.
Abies alba	E1	.	.	.	.	.	.	4	30	.	.	14	20	.	.	.
Rhytidiadelphus triquetrus	E0	.	.	.	.	.	.	.	.	.	.	.	40	.	.	.
Aremonio-Fagion																
Cyclamen purpurascens	E1	.	13	7	23	19	.	14	60	13	33	7	20	.	.	.
Euphorbia carniolica	E1	.	9	.	3	.	.	.	.	7	.	.	20	.	.	.
Primula vulgaris	E1	.	5	.	4	6	.	7	.	.	.	.	.	.	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cardamine trifolia	E1	.	4	4	4	.	.	.	.	7	.	.	20	.	.	.
Helleborus niger	E1	.	4	.	7	6	13	14	40	7	33	21	.	14	.	.
Knautia drymeia	E1	.	4	.	1	.	.	.	.	.	.	.	.	14	.	.
Potentilla carniolica	E1	.	4	.	4	.	.	.	.	.	.	.	.	.	.	.
Anemone trifolia	E1	.	2	7	4	.	13	.	.	.	.	.	.	.	.	.
Hemerocallis lilioasphodelus	E1	.	2	.	4	.	25	.	.	.	.	7	.	.	.	.
Lamium orvala	E1	.	2	.	1	.	.	.	.	.	.	.	.	.	.	.
Dentaria enneaphyllos	E1	.	.	4		.	.	.	.	7	33	.	.	.	.	.
Laserpitium krapfii	E1	.	.	.	1	.	.	.	10	.	.	.	.	.	.	.
Rhamnus fallax	E1	.	.	.	1	.	.	.	10	.	.	.	.	.	.	.
Omphalodes verna	E1	.	.	.	1	.	.	.	.	.	17	.	.	14	.	.
Scopolia carniolica	E1	.	.	.	.	.	.	.	.	13	33	7	20	.	.	.
Tilio-Acerion																
Aruncus dioicus	E1	.	4	4	11	.	.	.	.	33	33	14	20	14	.	.
Phyllitis scolopendrium	E1	.	4	.	8	.	.	.	.	.	33	.	.	.	.	.
Acer pseudoplatanus	E1	.	2	7	7	.	.	11	.	7	.	14	20	.	.	.
Polystichum aculeatum	E1	.	2	.	8	.	.	.	.	13	33	7	40	.	.	.
Thalictrum aquilegiifolium	E1	.	.	4	4	.	.	7	20	27	.	21	40	.	.	.
Geranium robertianum	E1	.	.	.	5	.	.	.	.	.	.	21	20	29	.	.
Tephroseris pseudocrispa	E1	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.
Acer platanoides	E2a	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Ulmus glabra	E2a	.	.	.	1	.	.	.	.	13	.	.	.	.	.	.
Fagetalia sylvaticae																
Galium laevigatum	E1	11	4	7	7	.	.	7	.	13	.	14	20	.	.	.
Fagus sylvatica	E1	5	.	7	7	13	13	4	20	7	17	14	60	29	.	.
Laburnum alpinum	E2a	5	.	.	.	.	25	.	.	.	.	.	.	.	.	.
Salvia glutinosa	E1	5	9	4	14	.	.	7	.	.	.	.	20	.	.	.
Mycelis muralis	E1	.	20	7	8	6	.	4	.	7	50	14	.	.	.	.
Galeobdolon flavidum	E1	.	5	11	11	.	13	.	.	47	.	.	20	.	.	.
Brachypodium sylvaticum	E1	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
Melica nutans	E1	.	4	.	3	.	.	.	.	.	.	29	20	.	.	.
Asarum europaeum subsp. *caucasicum*	E1	.	2	.	1	.	.	.	.	.	.	.	.	.	.	.
Dentaria pentaphyllos	E1	.	2	.	1	.	.	.	.	27	50	.	.	.	.	.
Prenanthes purpurea	E1	.	2	.	.	.	.	.	.	7	.	7	40	.	.	.
Mercurialis perennis	E1	.	.	.	10	.	.	7	30	7	.	21	20	14	.	.
Symphytum tuberosum	E1	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.
Campanula trachelium	E1	.	.	.	1	.	.	.	.	20	67	7	.	.	.	.
Lathyrus vernus	E1	.	.	.	1	.	.	.	.	13	.	.	.	.	.	.
Petasites albus	E1	.	.	.	1	.	.	.	.	.	.	.	20	.	.	.
Sambucus nigra	E2a	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Viola reichenbachiana	E1	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.
Daphne mezereum	E2a	.	.	.	.	.	.	.	10	7	.	.	20	.	.	.
Lonicera alpigena	E2a	.	.	.	.	.	.	.	.	.	17	.	.	.	.	.
Myosotis sylvatica agg.	E1	.	.	.	.	.	.	.	.	.	33	.	.	.	.	.
Heracleum sphondylium	E1	.	.	.	.	.	.	.	.	.	.	7	.	.	.	.
Poa nemoralis	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Polygonatum multiflorum	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Quercetalia pubescenti-petraeae																
Carex flacca	E1	21	5	.		.	.	.	.	.	.	.	.	14	.	.
Ostrya carpinifolia	E1	11	2	4	10	50	13	21	60	.	.	14	.	29	33	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fraxinus ornus	E1	.	5	7	15	38	38	14	20	.	.	21	20	.	18	.
Mercurialis ovata	E1	.	.	.	7	25	.	.	.	.	.	.	.	.	.	.
Clematis recta	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Euonymus verrucosa	E2a	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Melittis melissophyllum	E1	.	.	.		6	.	.	.	.	.	.	.	.	.	.
Sorbus aria	E2a	.	.	.	.	.	.	.	30	.	.	7	.	29	.	.
Querco-Fagetea																
Potentilla erecta	E1	5	.	.	.	.	.	.	.	.	.	.	.	14	.	.
Carex digitata	E1	.	32	33	38	19	13	.	.	60	33	21	40	.	.	.
Hedera helix	E1	.	9	.	8	6	.	.	.	.	.	7	.	.	.	.
Clematis vitalba	E1	.	7	.	1	.	.	.	.	.	.	.	.	.	.	.
Carex umbrosa	E1	.	5	4	.	.	.	.	.	.	.	.	.	.	.	.
Hepatica nobilis	E1	.	5	7	22	6	.	11	10	33	33	7	20	.	.	.
Frangula alnus	E2a	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Taxus baccata	E1	.	2	.	.	.	.	.	.	7	.	7	.	.	.	.
Veratrum nigrum	E1	.	.	.	5	.	.	.	.	.	.	.	.	.	.	.
Acer campestre	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Cardamine impatiens	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Lonicera xylosteum	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Quercus petraea	E1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Anemone nemorosa	E1	.	.	.	.	.	.	.	.	.	17	7	20	.	.	.
Corylus avellana	E1	.	.	.	.	.	.	.	.	.	.	.	20	.	.	.
Salicetea purpureae																
Salix eleagnos	E2a	21	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mosses and lichens (Mahovi in lišaji)																
Brachythecium rutabulum	E0	5	2	11	1	.	.	.	.	.	.	.	.	.	.	.
Ctenidium molluscum	E0	5	14	52	58	50	25	21	60	33	83	64	40	.	.	33
Neckera crispa	E0	5	27	41	73	25	38	54	70	40	100	71	100	.	22	50
Tortella tortuosa	E0	5	11	33	40	38	25	57	50	20	33	7	.	.	.	83
Leiocolea collaris	E0	5	.	.	3	.	.	.	.	.	.	.	.	.	.	.
Reboulia hemisphaerica	E0	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Marchantia polymorpha	E0	.	4	4	3	.	.	4	.	7	.	.	40	.	.	.
Heterocladium heteropterum	E0	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
Mnium thomsonii	E0	.	4	.	8	.	.	.	.	27	.	.	.	.	.	.
Bryum sp.	E0	.	2	4	.	.	.	.	.	.	.	.	.	.	.	.
Mnium marginatum	E0	.	2	.	1	.	.	.	.	20	.	.	.	.	.	.
Dichodontium pellucidum	E0	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Encalypta vulgaris	E0	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Lophozia sp.	E0	.	2	.	1	.	.	.	.	.	.	.	.	.	.	.
Rhynchostegium murale	E0	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.
Schistidium apocarpum	E0	.	.	4	5	6	.	.	30	.	.	.	.	.	33	.
Pedinophyllum interruptum	E0	.	.	4	3	6	.	.	.	20	.	.	.	.	.	.
Plagiochila porelloides	E0	.	.	4	4	.	.	.	.	.	.	.	.	.	.	.
Plagiopus oederi	E0	.	.	7	.	.	.	.	.	.	.	.	.	.	.	.
Lescuraea plicata	E0	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
Dicranum scoparium	E0	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
Encalypta streptocarpa	E0	.	.	.	4	6	.	7	.	.	.	.	.	.	.	.
Isothecium alopecuroides	E0	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.
Mnium stellare	E0	.	.	.	3	.	.	.	.	.	.	7	.	.	.	.
Bryum capillare	E0	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.

Successive number (Zaporedna številka)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Plagiomnium rostratum	E0	.	.	.	1	6	.	.	.	.	.	.	.	.	.	.
Dichodontium pellucidum subsp. *flavescens*	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Didymodon ferrugineus	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Plagiobryum zierii	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Lejeunea cavifolia	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Myurella sibirica	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Neckera complanata	E0	.	.	.	1	6	.	.	.	.	.	.	.	.	.	.
Trichostomum brachydontium	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Myurella julacea	E0	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
Lichenes div.	E0	.	.	.	1	6	13	.	.	.	.	.	.	.	.	.
Homalothecium sericeum	E0	.	.	.	.	6	.	.	.	.	.	7	.	.	33	.
Dicranodontium denudatum	E0	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.
Trichostomum crispulum	E0	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.
Anomodon attenuatus	E0	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.
Anomodon viticulosus	E0	.	.	.	.	6	.	.	.	.	.	.	.	.	.	.
Musci sp.	E0	.	.	.	.	.	13	.	.	.	.	.	.	.	.	.
Lepraria crassissima	E0	.	.	.	.	.	.	32	70	.	.	.	.	.	22	.
Collema polycarpon	E0	.	.	.	.	.	.	18	.	.	.	.	.	.	.	.
Trentepohlia aurea	E0	.	.	.	.	.	.	4	10	.	.	.	.	.	.	.
Brachythecium sp.	E0	.	.	.	.	.	.	.	10	.	.	.	.	.	.	.
Brachythecium starkei	E0	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.
Cirriphyllum cirrhosum	E0	.	.	.	.	.	.	.	.	7	.	.	.	.	.	.
Plagiomnium undulatum	E0	.	.	.	.	.	.	.	.	.	17	.	60	.	.	.
Tortella sp.	E0	.	.	.	.	.		.	.	.	.	.	.	.	33	.
Caloplaca sp.	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	22	.

Legend (Legenda)

1 AcPa *Astrantio carniolicae-Pinguiculetum alpinae*, this article, Table 2.
2 AcPc *Astrantio carniolicae-Primuletum carniolicae*, this article, Table 1.
3 PhcPc-ac *Phyteumato columnae-Primuletum carniolicae astrantietosum carniolicae*, this article, Table 6.
4 PhcPc-ty *Phyteumato columnae-Primuletum carniolicae typicum*, this article, Table 5.
5 PcPcl-CT *Phyteumato columnae-Primuletum carniolicae potentilletosum caulescentis*, this article, Table 7.
6 PcPcl-TG *Phyteumato columnae-Primuletum carniolicae potentilletosum carniolicae* (*Primulo carniolicae-Potentilletum caulescentis*), Dakskobler (1998, Table 1, pp. 286–287).
7 Pcty *Primuletum carniolicae*, Accetto (2008, Table 1, pp. 42–44).
8 Pccb *Primuletum carniolicae caricetosum brachystachyos*, Accetto (2015, Table 27, pp. 98–99).
9 Pcvb *Primuletum carniolicae violetosum biflorae*, this article, Table 4.
10 Pc-No *Primuletum carniolicae* s. lat., Dolinar et al. (2017, Table 1, pp. 30–32).
11 Pc-Do *Primuletum carniolicae* s. lat., Dolinar et al. (2013, Table 1, pp. 13–16).
12 Pc-Npr *Primuletum carniolicae* s. lat., Dolinar et al. (2015, Table 1, pp. 40–43).
13 Pc-Iv *Primuletum carniolicae* s. lat., Dolinar et al. (2013: Table 2, pp. 17–18).
14 PcPcl-As *Paederoto luteae-Potentilletum caulescentis* (*Primulo carniolicae-Potentilletum caulescentis* var. *Asplenium seelosii*), Accetto (2008, Table 5, pp. 49–50).
15 PcPcl *Primulo carniolicae-Potentilletum clusianae*, this article, Table 8.

ID Igor Dakskobler
AM Andrej Martinčič
BD Branko Dolinar
BV Branko Vreš
MA Marko Accetto

Table 10: Phytosociological groups in the researched rock crevice communities in the western and central Slovenia (relative frequencies).
Tabela 10: Skupine diagnostičnih vrst v preučenih združbah skalnih razpok v zahodni in osrednji Sloveniji (relativne frekvence).

Succesive number (Zaporedna številka)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sign for syntaxa (Oznaka sintaksonov)	AcPa	AcPc	PhcPc-ac	PhcPc-ty	PcPcl-CT	PcPcl-TG	Pcty	Pccb	Pcvb	Pc-No	Pc-Do	PC-Nrp	Pc-Iv	PcPcl-As	PhPc-pc
Author (Avtor)	ID	ID	ID	ID	ID	ID	MA	MA	ID	IDBD	IDBDBV	BDBV	BDID	MA	ID
Number of relevés (Število popisov)	19	56	27	73	16	8	28	10	15	6	14	5	7	9	6
***Cystopteridion* s. lat. (*Astrantio carniolicae-Paederotion luteae*)**	**50.2**	**50.1**	**50.2**	**32.1**	**22.7**	**29.2**	**37.0**	**27.0**	**39.1**	**27.5**	**27.8**	**25.4**	**38.0**	**25.7**	**33.1**
Physoplexido comosae-Saxifragion petraeae	5.32	4.76	4.79	**7.03**	**6.78**	**7.62**	0	0.51	1.4	0	1.85	2.46	0	0	4.22
Potentilletalia caulescentis	1.35	1.51	1.03	1.04	**6.78**	**6.36**	1.34	0.51	0	0	0.45	4.1	1.88	**20.7**	**12.7**
Asplenietea trichomanis	0.93	1.51	**4.25**	**7.35**	6.52	3.18	**4.78**	**6.63**	**6.89**	**8.64**	**9.06**	3.28	**8.31**	**6.93**	0
Thlaspietea rotundifolii	**6.33**	2.77	4.03	4.15	3.57	6.36	0.38	1.02	2.44	3.12	4.97	4.1	3.7	0	6.81
Montio-Cardaminetea, Caricetalia davallianae	3.63	3.8	3.05	1.6	0.31	0.66	0	0	5.18	3.16	0.89	0	0	0	0
Elyno-Seslerietea	6.67	**7.41**	**6.04**	4.71	**12**	**15.3**	**10.3**	**11.73**	1.04	3.16	1.85	2.46	**6.49**	**16.8**	**21.2**
Festuco-Brometea	0.00	0.36	0	0.56	0.98	0.66	0.77	2.04	0.67	0	1.34	1.64	1.88	0.98	0
Molinio-Arrhenatheretea, Calthion	0.84	0.24	0	0.4	0	0	0	0	0	0	0	0	1.82	0	0
Trifolio-Geranietea	0	0.36	0.22	0.56	1.91	0	0	0.51	0	0.8	2.23	0.82	2.73	1.95	0
Betulo-Alnetea	1.77	1.45	0.38	0.56	2.95	4.44	0.38	0.51	0.67	0.8	1.34	1.64	2.79	0	3.35
Mulgedio-Aconitetea	1.27	0.36	0.82	0.56	0	0	0	0	0.36	1.61	1.79	4.1	0.91	0	0
Sambuco-Salicion capreae, Rhamno-Prunetea, Epilobietea	0.42	0.3	0.22	0.08	0.31	0	0	1.02	0	0.8	0.89	1.64	1.82	0	0
Erico-Pinetea	**11.7**	**7.66**	5.93	**6.07**	**16.1**	**11.5**	**8.61**	**12.2**	4.87	4.77	**11.4**	4.92	**11.2**	7.82	**9.34**
Vaccinio-Piceetea	0.84	1.27	1.85	3.35	1.66	0.66	**4.88**	**4.59**	**5.85**	**7.94**	3.57	**8.2**	4.61	0	0
Aremonio-Fagion	0	2.95	1.2	3.51	1.6	2.57	3.35	6.12	2.8	7.04	2.68	3.28	2.73	0	0
Tilio-Acerion	0	0.72	0.82	2.96	0	0	1.72	1.02	4.82	4.68	4.91	**5.74**	2.79	0	0
Fagetalia sylvaticae	2.2	3.13	1.96	4.07	0.98	2.57	3.16	3.06	**8.03**	**11.05**	**7.21**	**11.5**	2.79	0	0
Quercetalia pubescenti-petraeae	2.7	0.72	0.6	2	6.16	2.57	3.35	5.61	0	0	2.68	0.82	**4.67**	**4.53**	0
Querco-Fagetea, Salicetea purpureae	2.2	3.74	2.4	4.71	1.6	0.66	1.05	0.51	**5.18**	3.92	3.13	4.1	0.91	0	0
Mosses and lichens (Mahovi in lišaji)	1.69	4.88	10.2	12.6	7.09	5.75	18.9	15.3	10.7	11	9.95	9.84	0	14.7	9.29
Total (Skupaj)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Legend – see Table 9 (**Legenda** – glej tabelo 9)

Table 11: List of species in rock crevice communities with *Primula carniolica*, stored in the FLoVegSi database, with frequency more than 10%.
Tabela 11: Seznam vrst v združbah skalnih razpok z vrsto *Primula carniolica* s frekvenco več kot 10 %.

	Number of relevés	Frequency
Vascular plants (Cevnice)		
Primula carniolica	348	100
Paederota lutea	209	60
Phyteuma scheuchzeri subsp. *columnae*	196	56
Sesleria caerulea	187	54
Aster bellidiastrum	178	51
Astrantia carniolica	147	42
Asplenium ruta-muraria	147	42
Valeriana saxatilis	142	41
Asplenium trichomanes	141	41
Calamagrostis varia	139	40
Carex brachystachys	132	38
Carex digitata	126	36
Pinguicula alpina	120	34
Valeriana tripteris	118	34
Asplenium viride	114	33
Tofieldia calyculata	109	31
Hieracium bifidum	105	30
Carex mucronata	77	22
Rhododendron hirsutum	76	22
Erica carnea	75	22
Cyclamen purpurascens	63	18
Viola biflora	60	17
Campanula cespitosa	55	16
Veronica urticifolia	55	16
Potentilla caulescens	52	15
Salix appendiculata	47	14
Molinia arundinacea	45	13
Galeobdolon flavidum	44	13
Hepatica nobilis	44	13
Ostrya carpinifolia	43	12
Cystopteris fragilis	41	12
Fraxinus ornus	39	11
Aruncus dioicus	37	11
Salvia glutinosa	35	10
Mosses (Mahovi)		
Orthothecium rufescens	221	64
Neckera crispa	166	48
Ctenidium molluscum	143	41
Conocephalum conicum	110	32
Tortella tortuosa	101	29
Palustriella commutata	62	18
Fissidens dubius	56	16
Hymenostylium recurvirostre	48	14