

## Novelties in the Flora of the Bohemian Forest II

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Dedicated to the memory of František Procházka

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### Abstract

The most interested results of ongoing floristic research in the Bohemian Forest mainly supported by the Czech-Bavarian project Květena Šumavy / Flora des Böhmerwaldes are presented. New localities of rare or regionally rare and declining species were found: e. g. *Aethusa cynapioides*, *Anthriscus nitidus*, *Botrychium lunaria*, *B. matricariifolium*, *Coeloglossum viride*, *Corallorhiza trifida*, *Cryptogramma crispera*, *Diphasiastrum complanatum*, *Erigeron macrophyllus*, *Goodyera repens*, *Hypericum hirsutum*, *Listera cordata*, *Montia fontana* s. l., *Myosotis caespitosa*, *Orchis mascula*, *Polystichum lonchitis*, *Salix myrsinifolia*, *Scheuchzeria palustris*. New localities of *Cephalanthera longifolia* are presented and an erroneous indication of occurrence of *Cephalanthera damasonium* is corrected. Rare species *Dianthus superbus* was found after 60 years on an old locality. Interesting findings of mainly synanthropic or weedy species, whose occurrence in the area is related to the human activities, are also presented. New introduced localities of several thermophilous or calcareous species as well as species escaped from the cultivation are given. The first occurrence of new alien taxa or localities currently spreading species were recorded: *Anthyllis vulneraria* subsp. *polyphylla*, *Eragrostis pectinacea*, *Erechtites hieraciifolius*, *Galega officinalis*, *Myosotis sparsiflora*, *Prunus serotina*, *Saxifraga tridactylites*. New results of the research of critical genera *Hieracium* and *Pilosella* are also presented.

*Key words:* Bohemian Forest, floristics, rare species, alien species

### INTRODUCTION

The second contribution about current floristic research in the Bohemian Forest thematically and methodically follows the previous one – Novelties in the Flora of the Bohemian Forest (ŠTECH et al. 2021).

### METHODS

New finds of rare, endangered or alien plant species found mainly in year 2021 and inside area of the Bohemian Forest are published. The nomenclature of taxa follows the second edition of the Key to the Flora of the Czech Republic (KAPLAN et al. 2019), only *Hieracium subcaesium* is used according to the Exkursionsflora von Deutschland (MÜLLER et al. 2021).

For localities, a short description, altitude, geographical coordinates in decimal degrees format and in the WGS 84 datum are given. The coordinates were determined using a GPS device or determined later from the map ([www.mapy.cz](http://www.mapy.cz)). In the second case, the estimation error in meters is given. Localities are assigned to a quadrant of the traditional Central European mapping grid (EHRENDORFER & HAMANN 1965), to an administrative district and in the Czech side they are classified to phytogeographical district (SKALICKÝ 1988). Date of finding and finder are also given. If the finding was documented by the herbarium voucher, the abbreviation of the herbarium where the item is stored is given (acronyms follow THIERS 2021). Brief comments on the importance of the findings are attached. The authors of the comment are listed at the end of the comment if they differ from the main authors of the article.

## Floristic records

The threat status in the bohemian part of Bohemian Forest (PROCHÁZKA & ŠTECH 2002), in the Czech Republic (GRULICH 2017), in the Ostbayerisches Grenzgebirge and in the whole Bayern (SCHEUERER & AHLMER 2003) and in Austrian part of Bohemian massif and in Upper Austria (HOHLA et al. 2009) is marked. This order is used: CZ-BF/CZ//OG/BY//ABM/UA.

### *Achillea pratensis* (-/-//D///-)

**CZ, 88d. Boubínsko-stožecká hornatina, 6949c, Včelná pod Boubínem** (distr. Prachatice): regularly mowed mountain flowering meadow c. 800 m W from the hunting lodge in the settlement “Na Pile”, 49.01626N, 13.83918E, 925 m a.s.l., dozens to hundreds of plants (10. 9. 2021 not. *D. Půbal*). – **37h. Prachatické Předšumaví, 6949c, Trpín** (distr. Prachatice): regularly mowed flowering meadow, in the past drained, at the beginning of the settlement c. 180 m W from the wooded hill near the settlement (690 m a.s.l.), 49.01590N, 13.90091E, 675 m a.s.l., dozens of plants (3. 9. 2021 not. *D. Půbal*). – **6949d, Kratušín** (distr. Prachatice): edge of a mowed cultural meadow, in the past a grassy field, c. 200 m S from the centre of village Kratušín, 49.02209N, 13.92830E, 650 m a.s.l., dozens of plants (25. 8. 2021 not. *D. Půbal*).

The newly discovered localities follow the previous locality list of overlooked tetraploid species, which has not been known from the Czech part of the Bohemian Forest at all (cf. ŠTECH et al. 2021). In addition, the locality near village Včelná pod Boubínem probably represents the first occurrence in the mountain phytogeographical subdistrict Boubínsko-stožecká hornatina.

*David Půbal*

### *Aethusa cynapium* (-/-//-/--/-)

**CZ, 37a. Horní Pootaví, 6847c, Červená** (distr. Klatovy): in the village, 49.12151N, 13.57792E ± 200 m, 785–800 m a.s.l. (8. 9. 2021 not. *K. Boublík & M. Lepší*).

New locality of ruderal and segetal species which is rare in the Bohemian Forest.

*Karel Boublík*

### *Aethusa cynapioides* (-/C4a//G/D//D/-)

**CZ, 37a. Horní Pootaví, 6847c, Kašperské Hory** (distr. Klatovy): wood warehouse by the forest road c. 480 m W of the St. Nicholas Cemetery Church west of the town, 49.14886N, 13.52898E, 675 m a.s.l. (27. 8. 2021 leg. *M. Štech*, CBFS). – **CZ, 88g. Hornovltavská kotlina, 7048d, Lenora** (distr. Prachatice): near the railway c. 660 m E of the railway stop “Lenora zastávka”, 48.92210N, 13.81148E, 755 m a.s.l. (25. 6. 2021 photo *M. Štech*).

New localities of species which is rare in the Bohemian Forest and it was known only from peripheral areas of the study area so far.

### *Agrostemma githago* (A1/C1t//1/1//1/1)

**BY, 7148a, Bischofsreut** (distr. Freyung-Grafenau): edge of field c. 1.1 km NNE of church of St. Valentin in village, edge of field, several tens of ex., probably sown or as a weed, together with *Rhinanthus alectorolophus*, 48.86289N, 13.73458E, 920 m a.s.l. (26. 6. 2021 leg. P. Lepší, CB).

The origin of the local occurrence can probably be traced to the mixture of seeds which was sown in the 2 m wide strip between the road and the edge of the cultural meadow. The dominant species was *Rhinanthus alectorolophus*, sparsely corncockle (*Agrostemma githago*) and rye as well. In addition, the corncockle was also recorded in 2003, 2017–2019 in the nearby settlement of Schnellenzipf (AFVB 2018). It is maintained there in cooperation with nature conservation on the local field.

Petr Lepší

### *Anthriscus nitidus* (-/-/-/-/-/-/-)

**AT, 7249a, Schwarzenberg am Böhmerwald** (distr. Rohrbach): scree forest and edge of forest road on the eastern slope of the Zwieselwiesen hill c 2.0 km SSE of the Plöckenstein Mt., 48.75342N, 13.86414E ± 130 m, 1130 m a.s.l. (24. 6. 2020 not. K. Boublík, M. Kotlínek, M. Lepší & D. Pübal).

It is probably the first record about occurrence of this rare species on the Austrian part of the Bohemian Forest (ZOBODAT 2022, GBIF 2022).

### *Anthyllis vulneraria* subsp. *polyphylla* (-/C4b//-/-//-/-)

**CZ, 88b, Šumavské pláňe, 6947b, Stachy** (distr. Prachatice): Kůsov settlement, c. 1.1 km NW of summit of Kamenný vrch hill, disturbed place in grassland, c. 100 individuals, 49.08612N, 13.64126E, 870 m a.s.l. (28. 6. 2021 leg. M. Lepší, CB/88323).

A new alien taxon for the studied area.

### *Botrychium lunaria* (C2/C2b//2/3//1/-)

**BY, 6844d, Gr. Arber** (distr. Regen): Gr. Arber near transmission tower, 49.11277N, 13.13628E, 1453 m a.s.l. (6. 8. 2021 not. W. Dieward). – **Gr. Arber** (distr. Regen): Gr. Arber W of radar towers, 49.11337N, 13.13436E, 1425 m a.s.l. (9. 6. 2021 not E. Kellnhofer, 30. 6. 2021 not. M. Scheuerer, 9. 8. 2021 not. W. Dieward).

The first record of this rare fern in the quadrant covering the highest altitudes of the Arber Massif. The species is currently much rarer on the Bavarian side of the Bohemian Forest than on the Czech one.

### *Botrychium matricariifolium* (C1/C1t//2/2//1/1)

**CZ, 88b, Šumavské pláňe, 7046b, Modrava, Březník** (distr. Klatovy): disturbed grassland close to spring c. 260 m W of the former gamekeeper's house, 48.97125N, 13.47889E, 1190 m a.s.l., 2 plants (23. 6. 2021 not. K. Boublík, M. Lepší & P. Lepší).

**BY, 6845d, Gr. Falkenstein** (distr. Regen): Ruckenwies (Ruckowitzschachten), northern part 49.10394N, 13.27207E, 1130 m a.s.l. (17. 6. 2021 not. C. Straubinger).

New localities of the rare species. In addition, the record of the Ruckowitzschachten and the history of its finding is described in STRAUBINGER et al. (2020).

Cornelia Straubinger

### ***Bromus erectus* (-/-/3/u//2/3)**

**CZ, 88g. Hornovltavská kotlina, 7048d, Lenora** (distr. Prachatice): dry hillside above the railway c. 360 m E(S)E of the railway stop “Lenora zastávka”, 48.92247N, 13.80737E, 765 m a.s.l. (25. 6. 2021 leg. M. Štech, CBFS).

The first locality of this rather thermophilous species in phytogeographical subdistrict Hornovltavská kotlina. An introduction by rail transport from limestone area around of town of Český Krumlov, where the species occurs, is highly probable.

### ***Buddleja davidii* (-/-/-/u//N-T/-)**

**CZ, 37a. Horní Pootaví, 6847c, Rejštejn** (distr. Klatovy): bridge over the Losenice brook and its surroundings c 50 m NE of the church, 49.14063N, 13.51685E, 570 m a.s.l., escaped (8. 9. 2021 not. K. Boublík & M. Lepší).

The first record of escaped plant of this alien species in the Czech part of the Bohemian Forest.  
Karel Boublík

### ***Buglossoides incrassata* subsp. *splitgerberi* (-/-/-/-/-/-)**

**CZ, 37e. Volyňské Předšumaví, 6949c, Šumavské Hořtice** (distr. Prachatice): mesic meadow, 49.03322N, 13.86744E, 805 m a.s.l. (21. 5. 2021 not. J. Janáková, P. Koutecký, D. Půbal & J. Štěrbová).

New locality of a rare weedy species.

### ***Carex limosa* (C2/C2b//3/3//1/2)**

**CZ, 88b. Šumavské pláně, 6845b, Javorná** (distr. Klatovy): Pramenišť nature reserve, large bog hollow in a peat bog (partly overgrown by spruce) NW of the former village of Zadní Šmauzy, on the right bank of Křemelná brook, c. 3.8 km SW of the church in Javorná and c. 1.8 km ESE of the summit of Mt. Mústek (1235 m a.s.l.), 49.19414N, 13.26853E, 1005 m a.s.l., several m<sup>2</sup>, together with *Scheuchzeria palustris* and *Drosera rotundifolia* (22. 7. 2021 not. P. Koutecký, 18. 8. 2021 leg. A. Vydrová & V. Grulich, BRNU).

This is one of the characteristic species of raised bogs of the central part of the Bohemian Forest. This locality belongs to the northernmost occurrences in the Bohemian Forest.

Petr Koutecký

### ***Cephalanthera damasonium***

The occurrence of this species near Stožec was incorrectly published in the last issue of this novelties (ŠTECH et al. 2021). Unfortunately, it was the editor’s mistake, and the locality was actually related to the species of *Cephalanthera longifolia* – see below.

### ***Cephalanthera longifolia* (C2/C3//2/3//2/-)**

**CZ, 88b. Šumavské pláně, 6947a, Zhůří** (distr. Klatovy): Meadows edge c. 1.0 km SE of the summit of the Huťská hora mountain, 49.08346N, 13.56013E, 1150 m a.s.l., c. 10 plants (17. 6. 2021 photo R. Roučková et al.). – **88e. Trojmezenská hornatina, 7148b, Stožec** (distr. Prachatice): area of former army compound near road Údolská cesta, 100 m SW of the crossroad Údolská cesta and Oslí cesta, 48.85081N, 13.81942E, 893 m a.s.l. (26. 6. 2020 not. J. Kuneš). – **88f. Želnavská hornatina, 7149a, Chlum** (distr. Prachatice): in forest c. 750 m N of the chapel in the village, 48.87280N, 13.90940E, 805 m a.s.l. (31. 5. 2022 not. J. Kuneš).

The locality near the village of Chlum was originally found around 2000 by L. Vozábal. He

has been monitoring the occurrence since the time of the discovery. It is surprising how many localities of this rare orchid are currently known, given the fact the species forms only small and probably temporary limited populations in study area.

### ***Coeloglossum viride* (C1/C2t//1/3//1-)**

**CZ, 371. Českokrumlovské Předšumaví, 7250b, Polná na Šumavě** (distr. Český Krumlov): c. 650 m SW of St. Martin church in village, *Brachypodium pinnatum* grassland, c. 30 individuals, 48.79182N, 14.14388E, 800 m a.s.l. (4. 6. 2021 not. *P. Lepší, M. Lepší & A. Lepší*). – **88d. Boubínsko-stožecká hornatina, 7048b, Kubova Huť** (distr. Prachatice): wet part of mesotrophic meadow 860 m ENE of the chapel in the village. 48.98566N, 13.78202E, 1055 m a.s.l., 13 flowering plants (10. 7. 2021 not. *K. Burianová & J. Štěrbová*).

Only few localities of *C. viride* in Boubínsko-stožecká hornatina district are known. Most of them are mentioned in Červená kniha jižní části Čech (LEPŠÍ et al. 2013). It was found in the village Kubova Huť during excursion of Orchidea Club Brno (ŠUK in ŠMITÁK 2004). In the year 2005 found new locality D. Půbal near Arnoštka (PŮBAL in EKRT & PŮBAL 2008). And the same botanist found on another meadow near the same village more flowering plants in the year 2020 (ŠTECH et al. 2021).

As *C. viride* is very inconspicuous, is not easy to find it. A new find near Kubova Huť was thanks to sitting for a while during a lunch break in a species rich *Calhion palustris* meadow with 97 flowering plants of *Dactylorhiza majalis* in company of *Listera ovata*, *Briza media*, *Platanthera* sp., *Willemetia stipitata*, *Carex pallescens*, *C. panicea*, *Arnica montana*, *Linum catharticum*, *Pilosella aurantiaca*, *Cirsium palustre*, *Bistorta officinalis* and other species.

*Kateřina Burianová & Jitka Štěrbová*

### ***Corallorhiza trifida* (C2/C2b//2/3//1-)**

**CZ, 88b. Šumavské pláně, 6947c, Kvilda** (distr. Klatovy): c. 680 m W of church in village, road ditch, two individuals, 49.01973N, 13.57056E, 1120 m a.s.l. (4. 7. 2021 not. *M. Lepší*).

New locality of rare species.

### ***Cryptogramma crisa* (C1/C1r//2/2//1-)**

**BY, 6844d, Gr. Arber** (distr. Regen): Gr. Arber, Seeriegel, SE-end of rock formation, 49.10909N, 13.13993E, 1370 m a.s.l., 3 plants (23. 8. 2021 not. *W. Diewald*).

Additional new locality at Gr. Arber. Others are known from Seeriegel (main rock formation, 2021 7 plants), Bärenriegel (2021 107 plants) and Schmuigglersteig at Gr. Arber (2021 14 plants).

*Wolfgang Diewald*

### ***Dentaria bulbifera* (C4a-//N/V//2/-)**

**CZ, 88c. Javorník, 6847d, Javorník u Stach** (distr. Prachatice): road verge 1.2 km NNW of Javorník observation tower, 49.14817N, 13.64714E, 880 m a.s.l. (29. 6. 2021 leg. *M. Kotlínek*, CB).

The first record on occurrence of this species in Javorník phytogeographical subdistrict.

### ***Dianthus superbis* (C1/C2r//1/3//2/2)**

**CZ, 371. Chvalšinské Předšumaví, 7250c, Hůrka (u Horní Planě)** (distr. Český Krumlov): forest margins on the SW slope of Hůrecký vrch hill (alternatively called Křížová hora), 48.74930N, 14.080097E, 765 m a.s.l. (24. 8. 2021 leg. *J. Janáková*).

Verification of current occurrence of this rare and declined species, recovery of an old report of HOLUB & SKALICKÝ (1959).

Jana Janáková

***Diphasiastrum complanatum* (C2/C2b//2/2//2/2)**

**CZ, 88b, Šumavské pláně, 6846c, Skelná** (distr. Klatovy): forest c 1.0 km SSE of the crossroads near the Prášily, Skelná bus stop, 49.14861N, 13.39000E, 825 m a.s.l., 2 plants of which 1 fertile (9. 9. 2021 not. *D. Půbal, K. Boublík & M. Lepší*).

New locality of the rare species.

***Dryopteris borreri* (-/C3//-/!/-/-)**

**AT, 7249a, Schwarzenberg am Böhmerwald** (distr. Rohrbach): scree forest and edge of forest road on the eastern slope of the Zwieselwiesen hill c. 2.0 km SSE of the Plöckenstein Mt., 48.75342N, 13.86414E ± 130 m, 1130 m a.s.l. (24. 6. 2020 not. *K. Boublík, M. Kotlínek, M. Lepší & D. Půbal*). – edge of forest road c. 750 m E of the Zwieselberg Mt., 48.73633N, 13.88061E ± 300 m, 950–1020 m a.s.l. (24. 6. 2020 not. *K. Boublík, M. Kotlínek, M. Lepší & D. Půbal*). – **7249d, Klaffer am Hochficht, Pfaffschlaghäuseln** (distr. Rohrbach): by the forest road 2.7 km SSE of the Hochficht Mt., 48.71451N, 13.93547E ± 100 m, 910 m a.s.l. (25. 6. 2020 not. *K. Boublík, M. Kotlínek, M. Lepší & D. Půbal*).

New localities of the scattered species.

***Dryopteris cambrensis* (-/C1t//-/!/R/-)**

**AT, 7249d, Ulrichsberg, Schöneben** (distr. Rohrbach): by the forest road c. 900 m NNW of the Schöneben village, 48.71333N, 13.94231E, 915 m a.s.l. (25. 6. 2020 leg. *K. Boublík, M. Kotlínek, M. Lepší & D. Půbal*, rev. *L. Ekrť, CB/87533*).

New locality of the rare species.

***Epilobium lamyi* (C2/C4b//3/3//D/D)**

**CZ, 88g, Hornovltavská kotlina, 7149a, Dobrá** (distr. Prachatice): railway embankment, between the bridge over Vltava River and the forest margin c. 350 m SW of that bridge, SE of the village, 48.88094N, 13.86326E, 740 m a.s.l., scattered (23. 7. 2021 not. *P. Koutecký*).

***Eragrostis pectinacea* (-/!/-/!/!/-/-)**

**CZ, 37l, Českokrumlovské Předšumaví, 7151c, Boletice** (distr. Český Krumlov): along road (close to former landfill) c. 250 m SW of Hoříčka hill (780 m a.s.l. spot height), exposed ground, growth c. 20 × 20 m, 48.81633N, 14.19678E, 740 m a.s.l. (8. 8. 2021 leg. *P. Lepší, CB*). – **7150b, Tisovka** (distr. Prachatice): enlarged edge of road c. 1.1 km SE of centre of settlement, 1 huge specimen, 48.89931N, 14.11050E, 725 m a.s.l. (17. 10. 2021 leg. *V. Dolejšek, P. Lepší & M. Lepší, CB*).

This species, neophyte with North American origin, is so far rarely widespread in Central Europe. The nearest occurrence of the year 2008 is located near the former military quarters in Český Krumlov (LEPŠÍ in LEPŠÍ & LEPŠÍ 2011), where it still occurs and is slowly spreading along the roads to the city center. Occurrence at the new sites mentioned above may be related to the Český Krumlov localities or all three localities are related to military activity in the area.

Petr Lepší

***Erechtites hieraciifolius* (-/-/-/-/-/-)**

**CZ, 37a. Horní Pootaví, 6847d, Nicov, former village Milov** (distr. Prachatice): forest clearing c. 500 m WNW of the centre of former village, 49.12147N, 13.59683E, 880 m a.s.l. (7. 9. 2021 not. *K. Boublik* & *M. Lepší*). – **88c. Javorník, 6847d, Javorník** (distr. Prachatice): forest clearing c. 120 m W of the peak of the Javorník Mt. (1066 m a.s.l.), 49.13817N, 13.65114E, 1050 m a.s.l. (7. 9. 2021 not. *K. Boublik* & *M. Lepší*). – **88g. Hornovltavská kotlina, 7250b, Olšina** (distr. Český Krumlov): bright forest along the Olšina nature trail, c. 1.4 km NE of Hodňov train stop, several individuals, 48.78985N, 14.11263E, 735 m a.s.l. (26. 8. 2020 leg. *M. Štech*, CBFS).

New localities of the alien, rapidly spreading species.

***Erigeron macrophyllus* (C3/C4a/-/-/-/1)**

**BY, 6844b, Lohberg** (distr. Cham): Lohbergerwald, forest road edge, 49.19205N, 13.10849E, 912 m a.s.l. (6. 8. 2020 leg. *W. Diewald*, rev. *O. Šída*, herb. *Diewald*).

This taxon represents the only taxon from the taxonomically difficult group of *E. angulosus/droebachiensis/macrophyllus*, that occurs in the Bohemian Forest (ŠÍDA 1998, 2000). This is the first report of this rare species on the Bavarian side of the Bohemian Forest.

***Euphorbia lathyris* (-/-/-/-/N-U/N-U)**

**AT, 7249c, Klaffer am Hochficht, Schönberg** (distr. Rohrbach): in the village, 48.71144N, 13.86411E ± 200 m, 650 m a.s.l., escaped (24. 6. 2020 not. *K. Boublik*, *M. Kotlínek*, *M. Lepší* & *D. Půbal*).

New locality of the alien species.

***Fallopia dumetorum* (-/-/3/3/-/-)**

**CZ, 37a. Horní Pootaví, 6847c, Rejštejn** (distr. Klatovy): close to road in the valley of the Losenice brook c. 900 m ESE of the church in the village, 49.13851N, 13.52855E, 590 m a.s.l. (8. 9. 2021 not. *K. Boublik* & *M. Lepší*). – **88b. Šumavské pláně, 6847c, Kašperské Hory, Podlesí** (distr. Klatovy): ruderal site in the settlement, 49.11327N, 13.55344E, 785 m a.s.l. (8. 9. 2021 not. *K. Boublik* & *M. Lepší*).

New species for the flora of the Bohemian Forest.

***Gagea lutea* (-/-/3/u/3/V)**

**CZ, 37a. Horní Pootaví, 6847c, Kašperské Hory** (distr. Klatovy): stream alluvium c. 2.3 km SE of the St. Markéta church in the town, 49.12948N, 13.57889E, 695 m a.s.l. (24. 4. 2021 leg. *M. Štech*, CBFS). – **CZ, 37l. Českokrumlovské Předšumaví, 7250d, Černá v Pošumaví** (distr. Český Krumlov): shrubs SE of the limestone quarry on Vápenný vrch hill c. 1.0 km S of the Neposkrvněná početí P. Marie church in the village, 48.72870N, 14.11189E, 775 m a.s.l. (18. 4. 2019 photo *M. Štech*).

So far, the species was known only from few localities within the study area. New localities suggest, that the species may occur more often than supposed, but it is overlooked due to its very early period of flowering.

***Galega officinalis* (-/C4a/-/3//N-U/N-U)**

**CZ, 37a. Horní Pootaví, 6847c, Kašperské Hory** (distr. Klatovy): c. 450 m ENE of St. Markéta church, disturbed urban lawn, several individuals, 49.14531N, 13.56152E, 750 m a.s.l. (26. 9. 2021 not. *M. Lepší*). A new alien taxon for the studied area.

***Gentianopsis ciliata* (C3/C3//2/V///-)**

**CZ, 88e. Trojmezenská hornatina, 7249d, Horní Planá, Zadní Zvonková** (distr. Český Krumlov): path along a small forest meadow c. 3.5 km NW of the church in the former village of Zadní Zvonková, 48.74087N, 13.94307E, 1080 m a.s.l. (18. 9. 2021 photo *M. Štech*).

Natural occurrence of this species is restricted on limestone areas in foothills and in the southeast of the study area. However, synanthropic localities are known especially from the central part of the Bohemian Forest. The new locality is the first occurrence in the massif of the Mt. Smrčina.

***Goodyera repens* (-/C1b//0/3//0/-)**

**CZ, 37e. Volyňské Předšumaví, 6949c, Škarez 2. díl** (distr. Prachatice): secondary pine forest in upper part of hill Studená (885 m a.s.l.), c. 500 m NW from this hill, 49.03842N, 13.88593E, 865 m a.s.l., 108 young individuals and 6 fertile individuals from last year (16. 4. 2022 photo *D. Půbal*).

This species is known from pine forests on limestones in the Bohemian Forest foothills. Only one locality is being known in the Bohemian Forest – Vápenný hill near village Černá v Pošumaví (PŮBAL in HADINEC & LUSTYK 2009) however recently not confirmed (PAVLÍČKO – pers. comm.). New finding is situated on the border of eastern Bohemian Forest and represents the first documented occurrence of this species in phytogeographical subdistrict of Volyňské Předšumaví. The site is in an approximately 100 years old pine forest with cranberry as dominant undergrowth species, *Pyrola media* is known from here and in addition the geological basis is formed mainly by stromatitic biotite migmatite.

*David Půbal*

***Hepatica nobilis* (-/-/N/u///-)**

**CZ, 37a. Horní Pootaví, 6846b, Hartmanice** (distr. Klatovy): forest edge near the Peklo tourist signpost c. 1.1 km WSW of the St. Kateřina church in the town, one plant, 49.16626N, 13.43956E, 685 m a.s.l. (24. 4. 2021 photo *M. Štech*).

This rather thermophilous species is extremely rare within the studied area. Only one plant near the road was found on new locality and it is very probably a synanthropic origin.

***Hieracium maculatum* (-/C4a//3/3//3/3)**

**CZ, 88d. Boubínsko-stožecká hornatina, 7148a, Strážný** (distr. Prachatice): c. 340 m SSE of summit of Pomezny hill, edge of forest road, c. 50 individuals, 48.88521N, 13.68632E, 935 m a.s.l. (25. 6. 2021 leg. *M. Lepší*, rev. *J. Chrtek*, CB/87908).

A new species for the studied area.

*Martin Lepší*

***Hieracium subcaesium* (-/-/-/-/-/-)**

**CZ, 88b. Šumavské pláň, 6947b, Zadov** (distr. Prachatice): c. 1.3 km WSW of summit of Kamenný vrch hill, slope above road in forest, several individuals, 49.07405N, 13.63604E, 875 m a.s.l. (11. 6. 2021 leg. *M. Lepší*, rev. *J. Chrtek*, CB/87909). – **88g. Hornovltavská kotlina, 7250b, Olšina** (distr. Český Krumlov): E edge of Olšina pond, c. 840 m NE of Hodňov train stop, *Pinus sylvestris* woodland, several individuals, 48.78561N, 14.109591E, 730 m a.s.l. (6. 6. 2021 leg. *M. Lepší*, rev. *J. Chrtek*, CB/87910).

A new native species for the studied area.

*Martin Lepší*



***Hypericum hirsutum* (-/-/3/u///-/-)**

**CZ, 88g. Hornovltavská kotlina, 7250b, Olšina** (distr. Český Krumlov): forest on the ridge c. 225 m WNW of the summit of the Suchý vrch hill c. 1.2 km SSE of the Hodňov railway station, 48.76918N, 14.11136E, 825 m a.s.l. (5. 6. 2021 not. *M. Štech & J. Janáková* et al.).

In the Czech side of the Bohemian Forest, this species was found on limestones near Černá v Pošumaví only in 2019 (JANÁKOVÁ & GRULICH in LEPŠÍ et al. 2021). The new locality is located outside the limestone and it is the second one in this area.

***Knautia ×posoniensis* (-/-/-/-/-/-)**

**CZ, 88b. Šumavské pláňe, 6948a, Křesanov** (distr. Prachatic): in U Sloupu settlement, c. 1.1 km NW of summit of Vodník hill, mesophilous grassland, scattered, 49.06269N, 13.73788E, 860 m a.s.l. (6. 7. 2021 leg. *M. Lepší & M. Štech*, CB/87869).

A new taxon for the studied area.

***Lilium martagon* (C4a/C4a//3/u//2/-)**

**AT, 7249a, Schwarzenberg am Böhmerwald** (distr. Rohrbach): ravine forest and edge of forest road on the eastern slope of the Zwieselwiesen hill c. 2.0 km SSE of the Plöckenstein Mt., 48.75342N, 13.86414E ± 130 m, 1130 m a.s.l. (24. 6. 2020 not. *K. Boublík, M. Kotilinek, M. Lepší & D. Půbal*).

Confirmation of the current occurrence of species that is very rare on the Austrian side of the Bohemian Forest.

***Listera cordata* (C1/C1t//2/3//1/-)**

**BY, 7047a, Lusen** (distr. Freyung-Grafenau): Schwarzbachhänge N Lusen, 48.96070N, 13.51501E, 1240 m a.s.l. (8. 7. 2021 not. *C. Straubinger & W. Diewald*).

Confirmation of the current occurrence of this rare species in the Bavarian part of the quadrant.

***Lychnis coronaria* (-/-/-/R//N-U/N-U)**

**CZ, 37a. Horní Pootaví, 6847c, Rejštejn** (distr. Klatovy): eastern part of the village, 49.14080N, 13.51975E, 575 m a.s.l., escaped (8. 9. 2021 not. *K. Boublík & M. Lepší*).

New locality of alien species escaped from the culture.

*Karel Boublík*

***Montia fontana* s. l. (0-2/1b-2t//2/2-3//1/1)**

**BY, 7148 a, Philippsreut** (distr. Freyung-Grafenau): Schwarzenenthal, 48.86368N, 13.71860E, 855 m a.s.l. (21. 5. 2021 not. *W. Diewald & C. Straubinger*).

All subspecies of *Montia fontana* are extremely rare on Bavarian side of the Bohemian Forest.

***Myosotis caespitosa* (C4a/C4a///-/-/-/-)**

**CZ, 88g. Hornovltavská kotlina, 7250b, Hodňov** (distr. Český Krumlov): the emergency spillway on the western end of the dam of Olšina fishpond, flat area with muddy substrate resembling an exposed fishpond bottom, 48.77874N, 14.09779E, 730 m a.s.l., hundreds of individuals (26. 6. 2021 leg. *P. Koutecký & E. Koutecká*, CBFS).

The species has so far only been reliably reported from Pěkná (KOUTECKÝ & KOUTECKÁ in ŠTECH et al. 2021). This find in another part of the Hornovltavská kotlina phytogeographical

subdistrict indicates that this species is probably more common in this area or it was at least before the filling of the Lipno reservoir.

***Myosotis discolor* (C4a/C2b//2/2//1/1)**

**CZ, 88g. Hornovltavská kotlina, 7250b, Hodňov** (distr. Český Krumlov): along road c. 500 m NE of railway stop, disturbed edge of road, c. 30 individuals, 48.78103N, 14.11034E, 730 m a.s.l. (23. 5. 2021 leg. *P. Lepší*, CB).  
New locality of the rare species.

***Myosotis sparsiflora* (-/C4a//R\*//0/1)**

**CZ, 37a. Horní Pootaví, 6847c, Červená** (distr. Klatovy): c. 820 m SW of Panna Marie Pomocná chapel in village, in Karlina Pila settlement, wet road edge, abundant, 49.11570N, 13.56864E, 700 m a.s.l. (26. 5. 2021 leg. *M. Lepší* & *M. Štech*, CB/88099).  
A new alien species for the studied area.

***Orchis mascula* (C1/C1b//3/3//2/V)**

**AT, 7249d, Schöneben** (distr. Rohrbach): c. 80 m NW of Heimatvertriebenenkirche, wet, oligotrophic meadow, 51 individuals, 48.71226N, 13.95468E, 900 m a.s.l. (1. 6. 2021 not. *M. Lepší* & *P. Lepší*).  
New locality of the rare species.

***Panicum miliaceum* (-/-//u//N-U/N-U)**

**CZ, 37a. Horní Pootaví, 6847c, Červená** (distr. Klatovy): in the village, 49.12151N, 13.57792E ± 200 m, 785–800 m a.s.l. (8. 9. 2021 not. *K. Boublík* & *M. Lepší*).  
New locality of the ruderal species.

***Pilosella blyttiana* (*P. aurantiaca* – *P. lactucella*) (-/C1r//-/-/(-)**

**CZ, 88d. Boubínsko-Stožecká hornatina, 7148b, České Žleby** (distr. Prachatice): pasture 2.5 km S of the České Žleby, 370 m W of top of Kaprad' hill, 48.85642N, 13.76800E, 941 m a.s.l. (26. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek* & *F. Krahulec*, CB).  
New locality of this rare taxon. Population is probably formed by primary hybrid.

*Milan Kotlínek*

***Pilosella brachiata* (-/-//-/3/3)**

**CZ, 88b. Šumavské pláně, 6947a, Horská Kvilda** (distr. Klatovy): Výhledy settlement, c. 690 m SE of summit of Lišák hill, grassland at edge of forest, c. 20 individuals, 49.06356N, 13.53472E, 1085 m a.s.l. (23. 6. 2021 leg. *M. Lepší*, *P. Lepší* & *K. Boublík*, det. *J. Chrtek*, *F. Krahulec*, CB/88300).  
A new taxon for the studied area. Population is probably formed by primary hybrid.

*Milan Kotlínek*

***Pilosella erythrochrsta* (*P. caespitosa* – *P. piloselloides*) (-/C3//-/1/1)**

**BY, 7148a, Philippsreut** (distr. Freyung – Grafenau): road verge next the underpass 450 m E of church in Philippsreut, 48.86625N, 13.68261E, 950 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek* & *F. Krahulec*, CB) – **Haidmühle** (distr. Freyung – Grafenau): road verge 1.0 km N of church in Bischofsreut, 48.86272N, 13.73617E, 930 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek* & *F. Krahulec*, CB).

New localities of this rare hybridogeneous species.

*Milan Kotlínek*

***Pilosella macranthela* (*P. glomerata*×*P. officinarum*) (-/C1r//-/-/(-)**

**CZ, 88b. Šumavské pláně, 7047d, Dolní Světlé Hory** (distr. Prachatice): verge of panel road NE of vanished settlements Josefov, 4.9 km W of church in Strážný, 48.91544N, 13.65364E, 950 m a.s.l. (23. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **88d. Boubínsko-Stožecká hornatina, 6949c, Včelná pod Boubínem** (distr. Prachatice): verge of the meadow 820 m NW of settlement Na Pile, 1.5 km SSW of chapel in Včelná pod Boubínem, 49.01967N, 13.83950E, 930 m a.s.l. (27. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **7148b, České Žleby** (distr. Prachatice): pasture 2.6 km S of the České Žleby, 370 m W of top of Kaprad' hill, 48.85633N, 13.76800E, 940 m a.s.l. (26. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

New localities of this taxon. Populations are probably formed by primary hybrids.

***Pilosella norrliniiformis* (*P. aurantiaca* – *P. glomerata*) (-/-/-/-/1/1)**

**CZ, 88d. Boubínsko-Stožecká hornatina, 7148b, České Žleby** (distr. Prachatice): pasture 2.2 km S of the České Žleby, 350 m W of top of Kaprad' hill, 48.85906N, 13.76939E, 960 m a.s.l. (26. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

New locality of this rare taxon. Population is probably formed by primary hybrid.

*Milan Kotlínek*

***Pilosella officinarum*×*P. scandinavica* (-/-/-/-/(-)**

**BY, 7148a, Philippsreut** (distr. Freyung – Grafenau): road verge in Mitterdorfer Straße on S edge of Vorderfirmiansreut, 1.4 km NW of church in Philippsreut, 48.87639N, 13.66631E, 960 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

First record of this taxon in the Bavarian side of the Bohemian Forest. Population is probably formed by primary hybrids.

*Milan Kotlínek*

***Pilosella polymastix* (*P. auhinia* – *P. caespitosa*) (-/C1b//-/0/0)**

**BY, 7148a, Haidmühle** (distr. Freyung – Grafenau): road verge NE of Schwarzenthal, 1.8 NNW of church in Bischofsreut, 48.86844N, 13.72431E, 880 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

The first record on occurrence of this hybridogeneous species in the Bohemian Forest.

*Milan Kotlínek*

***Pilosella scandinavica* (*P. floribunda* – *P. glomerata*) (-/C2r//-/1/1)**

**CZ, 88b. Šumavské pláně, 6947d, Nové Hutě** (distr. Prachatice): upper part of meadow in vanished settlement Granitz, 3.0 km S of church in Nové Hutě, 49.01106N, 13.65014E, 980 m a.s.l. (21. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **88d. Boubínsko-Stožecká hornatina, 7148b, České Žleby** (distr. Prachatice): road verge 350 m S of vanished settlement Mlaka, 2.6 km S of the České Žleby, 48.85897N, 13.75683E, 890 m a.s.l. (26. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **88g. Hornovltavská kotlina, 7148a, Strážný** (distr. Prachatice): road verge 1.4 km S of church in Strážný, 48.89656N, 13.72461E, 850 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB). – **7350a, Kyselov** (distr. Český Krumlov): verge of meadow S of vanished settlement Kyselov, 7.2 km S of railway station Černá v Pošumaví, 48.68111N, 14.05789E, 740 m a.s.l. (24. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

**BY, 7148a, Haidmühle** (distr. Freyung – Grafenau): road verge on SE edge of Bischofsreut, 800 m E of church, 48.85461N, 13.74383E, 900 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **Haidmühle** (distr. Freyung – Grafenau): road verge in Langreut, 1.5 km N of church in Bischofsreut,

48.86633N, 13.73290E, 900 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **Haidmühle** (distr. Freyung – Grafenau): road verge in Langreut, 1.5 km N of church in Bischofsreut, 48.86633N, 13.73290E, 900 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **7148a, Philippsreut** (distr. Freyung – Grafenau): forest road verge 1.3 km E of Philippsreut, 48.86631N, 13.69383E, 910 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB) – **Philippsreut** (distr. Freyung – Grafenau): road verge in Mitterdorfer Straße on S edge of Vorderfirmiansreut, 1.4 km NW of church in Philippsreut, 48.87639N, 13.66631E, 960 m a.s.l. (25. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

New localities of this rare hybridogeneous species.

*Milan Kotlínek*

### *Pilosella ziziana* (-/C4a//-/0/0)

**CZ, 88g. Hornovltavská kotlina, 7048d, Lenora** (distr. Prachatice): gravel dump on road verge on the S edge of Zátoň, 1.0 km S of railway stop Zátoň, 48.94236N, 13.79867E, 800 m a.s.l. (22. 6. 2021 leg. *M. Kotlínek*, rev. *J. Chrtek & F. Krahulec*, CB).

The first record on occurrence of this species in the Bohemian Forest.

*Milan Kotlínek*

### *Polygala multicaulis* (C3/C3//G/3//G/G)

**CZ, 88b. Šumavské pláně, 6846a, Javorná** (distr. Klatovy): dry grassland on the slope along a former road in an abandoned military area at Hadí vrch (1021 m a.s.l.), c. 320 m SSW of its summit, c. 4.5 km SSE of the church in the village, 49.18431N, 13.33649E, 1005 m a.s.l. (21. 7. 2021 not. *P. Koutecký*).

New locality of regionally rare species.

### *Polystichum lonchitis* (C1/C2b//1/V//I-U/-)

**CZ, 88b. Šumavské pláně, 6946a, Prášíly** (distr. Klatovy): culvert wall joints c. 3.6 km S of the destroyed St. Prokop church in the village, one huge plant, 49.07239N, 13.37907E, 1075 m a.s.l. (6. 7. 2021 leg. *M. Štech & M. Lepší*, CB).

New locality of very rare species.

### *Populus alba* (-/-/u/3///-)

**CZ, 88b. Šumavské pláně, 6846c, Prášíly, former village Frauenthal** (distr. Klatovy): on forest road c. 1.3 km SW of the peak of the Březník Mt. (1006 m a.s.l.), 49.14232N, 13.41503E, 840 m a.s.l., 1 seedling (9. 9. 2021 not. *K. Boublík, M. Lepší & D. Půbal*).

New locality of non-native species.

### *Prunus serotina* (-/-/u/u//N-U/N-U)

**BY, 6945a, Seebachschleife** (distr. Regen): W Großer Regen, at the mill canal, adventiv, 49.09156N, 13.19651E, 650 m a.s.l. (18. 7. 2020, not. *W. Diewald*) – **6945d, Zwiesel** (distr. Regen): Lindberg settlement, forest along road c. 1.1 km SE of church in settlement, adventiv, 7 individuals, 49.03100N, 13.26726E, 650 m a.s.l. (4. 9. 2021 not. *M. & P. Lepší*). – **Zwiesel** (distr. Regen): Lindberg settlement, along forest road c. 1.2 km SE of church in settlement, adventiv, 1 specimen, 49.03238N, 13.27062E, 720 m a.s.l. (4. 9. 2021 not. *M. & P. Lepší*).

Localities of currently spreading alien species.

***Rhamnus cathartica* (-/-//V/u//V/-)**

**CZ, 88b. Šumavské pláně, 6846d, Prostřední Paště** (distr. Klatovy): shrubs in the former village, 49.11941N, 13.47643E, 815 m a.s.l. (22. 9. 2021 not. *K. Boublík & D. Svoboda*). – **6846d, Zadní Paště** (distr. Klatovy): meadows and shrubs in the former village, 49.11205N, 13.45969E ± 160 m, 800 m a.s.l. (22. 9. 2021 not. *K. Boublík & D. Svoboda*). – **6846d, Srní, Sedlo settlement** (distr. Klatovy): shrubs along the brook in the pasture c 600 m WNW of the peak of Sedelský vrch hill (926 m a.s.l.), 49.10352N, 13.47212E, 810 m a.s.l. (23. 9. 2021 not. *K. Boublík & D. Svoboda*). – **88e. Trojmezenská hornatina, 7249d, Zadní Zvonková** (distr. Český Krumlov): former village Huťský Dvůr, 48.74147N, 13.96931E, 830 m a.s.l. (26. 6. 2020 not. *K. Boublík, M. Lepší & D. Půbal*).

New species for the two phytogeographical regions. The occurrence close to (former) settlements could represent the remnant of cultivation for medicine or woodcarving use.

*Karel Boublík*

***Rosa rubiginosa* (-/-//V/-//2/3)**

**BY, 7148a, Bischofsreut** (distr. Freyung-Grafenau): wet meadow surrounding of chapel of St. Wolfgang c. 380 m NWN of church of St. Valentin in village, 48.85622N, 13.73086E, 980 m a.s.l. (26. 6. 2021 not. *P. Lepší*).

Rather thermophilous species, which occurs only sporadically in higher elevation.

***Salix myrsinifolia* (C1/C1b//2/V//2/-)**

**CZ, 88g. Hornovltavská kotlina, 7249d, Horní Planá, Zadní Zvonková** (distr. Český Krumlov): shrubs north of the road c. 180 m S of the church in the former village of Zadní Zvonková, 48.72174N, 13.98388E, 810 m a.s.l. (18. 9. 2021 leg. *M. Štech*).

The species near Zadní Zvonková found S. Kučera in 1975. This locality could not be found during revision of all localities in southern Bohemia (LEPŠÍ et al. 2018). New locality does not fit the original Kučera's localization. However, it cannot be ruled out that the willow was found in the same site.

***Saxifraga tridactylites* (-/C3//2/V///-)**

**CZ, 37i. Chvalšinské Předšumaví, 7250b, Hořice na Šumavě** (distr. Český Krumlov): Polečnice settlement, in railway line in front of railway stop, c. 15 individuals, 48.79942N, 14.11995E, 765 m a.s.l. (23. 5. 2021 leg. *P. Lepší, CB*).

The first secondary record of *Saxifraga tridactylites* in the Bohemian Forest.

***Scheuchzeria palustris* (C1/C1b//2/3//1/1)**

**CZ, 88b. Šumavské pláně, 6845b, Javorná** (distr. Klatovy): Prameniště nature reserve, large bog hollow in a peat bog (partly overgrown by spruce) NW of the former village of Zadní Šmauzy, on the right bank of Křemelná brook, c. 3.8 km SW of the church in Javorná and c. 1.8 km ESE of the summit of Mt. Můstek (1235 m a.s.l.), 49.19414N, 13.26853E, 1005 m a.s.l., c. 6 m<sup>2</sup>, hundreds of individuals, together with *Carex limosa* and *Drosera rotundifolia* (22. 7. 2021 photo *P. Koutecký*, 18. 8. 2021 leg. *A. Výdrová & V. Grulich*, BRNU).

The locality was originally found by Z. Mašková in 2020. However, the exact localization was provided by P. Koutecký in 2021. This is one of the most characteristic species of raised bogs of the central part of the Bohemian Forest. This site is quite isolated. It is one of a few sites in the north-western part and the northernmost occurrence in the Bohemian Forest. The nearest sites are in the peat-bog islands and banks of glacial lakes (Großer and Kleiner

Arbersee) at the Mt Velký Javor/Großer Arber, c. 13.0 km to the south-west, and a peat bog Stará Jímka on the eastern slope of Mt. Poledník, c. 17.0 km to the south-east.

Petr Kouček

### *Trifolium alpestre* (-/1/3/0/1)

**CZ, 88a. Královský hvozď, 6745c, Datelov** (distr. Klatovy): forest road edge c. 1.6 km S–SSW of the chapel in the village, 49.23475N, 13.22453E, 830 m a.s.l. (10. 9. 2021 not. K. Boublík, M. Lepší & D. Půbal). – **CZ, 88b. Šumavské Pláně, 6946d, Modrava** (distr. Klatovy): grassy part of the road near the Rokytecká slat' bog c. 5.9 km W of the centre of the village, several plants, 49.01761N, 13.41853E, 1100 m a.s.l. (19. 5. 2021 & 4. 8. 2021 leg. M. Štech).

The first records about an introduction of this conspicuous species in the studied area. It is surprising, that the often visited locality near Rokytecká slat' was found only in 2021. This occurrence must be significantly older because it should be related to the old road consolidation with limestone gravel from the Bohemian Forest foothills.

### *Valerianella carinata* (-/C2r//u/3//1/2)

**CZ, 37c. Volyňské Předšumaví, 6949c, Šumavské Hořtice** (distr. Prachatice): mesic meadow, 49.03322N, 13.86744E, 805 m a.s.l. (21. 5. 2021 leg. J. Janáková, P. Kouček, D. Půbal & J. Štěrbová, CB).

New locality of a rare weedy species.

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