

Chromosome numbers of bulbous monocotyledons of the Transcarpathian flora (Ukraine)

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Abstract: Chromosome numbers of 21 specimens of bulbous monocotyledons of the Transcarpathian flora (Ukraine) are determined.

Keywords: chromosome numbers, Transcarpathian flora, Ukrainian Carpathians, Liliaceae s.l.

Alliaceae J. Agardh

Allium angulosum L.

2n=16 Transcarpathian Lowland*, north of the village of Tiszaagtelek (Uzhhorod district), alluvial meadow in the flood plain of the Latoritsa River, 106 m a.s.l.;

Allium montanum F.C. Schmidt

2n=32 Transcarpathian Lowland, Volcanic hills, Mt. Chorna Hora near Vynohradiv, southern slope, open rocky outcrops among the steppe grassland sites, 260 m a.s.l.;

Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), on open southern rocky slopes, 210 m a.s.l.;

2n=32, 32+1B Ukrainian Carpathians, Bukovets Polonyna, Mt. Pikuy, rocky outcrops at the summit, 1405 m a.s.l.;

*Note – Delimitation of the Transcarpathian territory corresponds to morphogenic ecoregions according to KRUHLOV (2008)

***Allium scorodoprasum* L.**

- 2n=16** Transcarpathian Lowland, near Chop (Uzhhorod district), riparian thickets near Tsyhanske Lake, 105 m a.s.l.;
Transcarpathian Lowland, near the village of Barvinok (Uzhhorod district), at the roadside, 120 m a.s.l.;
Transcarpathian Lowland, Uzhhorod, at the roadside, 150 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Chorna Hora near Vynohradiv, the southern slope, scrub, 310 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), southern slopes, edge of the oak woods, 250 m a.s.l.;
Ukrainian Carpathians, Borzhava-Krasna Polonyny, near the village of Vovchiy (Svalyava district), birch wood;

***Allium oleraceum* L.**

- 2n=40** Transcarpathian Lowland, Volcanic hills, Mt. Kholmetska Hora, near the village of Kholmci (Uzhhorod district), forest road in the open oak woodland, 280 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), grassy southern slope, 250 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Chorna Hora near Vynohradiv, southern slope, steppe grassland site, 260 m a.s.l.;

***Allium schoenoprasum* L. subsp. *alpinum* (DC) Čelak.**

- 2n=16** Ukrainian Carpathians, Chornohora Polonyna, northern slope, Mt. Breskul, site of Tsybul'nik in the Breskul'skiy cirque, subalpine water-spring and banks of streams, 1380 m a.s.l.;
Ukrainian Carpathians, Chornohora Polonyna, northern slope of Mt. Dantsyr, subalpine water-spring and banks of streams, 1700 m a.s.l.;

***Allium ursinum* L. subsp. *ucrainicum* Kleopow et Oxner.**

- 2n=14** Transcarpathian Lowland, north of the village of Velyka Dobron' (Uzhhorod district), riparian oak forests, 110 m a.s.l.;
Ukrainian Carpathians, Volcanic Vyhoriat-Hutyn Ridge, southern megaslope, near the village of Nevitske (Uzhhorod district), beech forest, 200 m a.s.l.;
Ukrainian Carpathians, Latorytsia-Rika Verkhovyna, near the village of Nyzhni Vorota (Volovets' district), beech forest, 515 m a.s.l.;

***Allium victorialis* L.**

- 2n=16** Ukrainian Carpathians, Bukovets Polonyna, Mt. Pikuj, southern slopes, mesophilous montane meadows, 1350 m a.s.l.;
Ukrainian Carpathians, Svydivets' Polonyna, Mt. Blyznytsya, subalpine tall herb communities, 1650 m a.s.l.;

Ukrainian Carpathians, Chornohora Polonyna, Mt. Brebeneskul, subalpine tall herb communities, 1850 m a.s.l.;

Ukrainian Carpathians, Chornohora Polonyna, Mt. Menchul, subalpine scrubs with *Juniperus nana*, 1588 m a.s.l.;

Ukrainian Carpathians, Chornohora Polonyna, Mt. Petros, subalpine tall herb communities, 1800 m a.s.l.

***Allium vineale* L.**

2n=32 Transcarpathian Lowland, near the village of Storozhnytsya (Uzhhorod district), grassy slope of the dam, 120 m a.s.l.;

Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), grassy southern slope, 250 m a.s.l.;

Transcarpathian Lowland, Volcanic hills, Mt. Chorna Hora near Vynohradiv, southern slope, steppe grassland site, 260 m a.s.l.;

Transcarpathian Lowland, Irshavske foothills, near the village of Onok (Vynohradiv district), southern slope of the hill, secondary scrub vegetation with *Robinia pseudoacacia*, 160 m a.s.l.

Amaryllidaceae J. St.-Hil.

***Leucojum aestivum* L.**

2n=22 Transcarpathian Lowland, near the village of Solomonovo (Uzhhorod district), alluvial meadows in the flood plain of the Latoritsa River, 102 m a.s.l.;

Transcarpathian Lowland, near the village of Chervone (Uzhhorod district), alluvial meadows in the flood plain of the Latoritsa River, 103 m a.s.l.;

Transcarpathian Lowland, near the village of Velyki Berehy (Berehovo district), Otok woodland in the Borzhava River flood plain, riverine old oak-elm-ash forest, 125 m a.s.l.

***Leucojum vernum* L. subsp. *carpaticum* (Sweet) K.Richt.**

2n=20 Transcarpathian Lowland, Tulolenik woodland in the Latoritsa River flood plain, near the village of Velyki Geyevtsi (Uzhhorod district), riverine oak-elm-ash forest, 120 m a.s.l.;

Ukrainian Carpathians, Latorytsia-Rika Verkhovyna, near the village of Nyzhni Vorota (Volovets' district), wet hay meadow, 550 m a.s.l.;

Ukrainian Carpathians, Volcanic Vyhорlat-Hutyn Ridge, the Synatoria Ridge, Mt. Antalovetska Pol'ana, hay meadow on the mountain summit, 980 m a.s.l.;

Ukrainian Carpathians, Volcanic Vyhорlat-Hutyn Ridge, the Synatoria Ridge, Mt. Sokolets, hay meadow on the mountain summit, 550 m a.s.l.

***Narcissus poeticus* subsp. *radiiflorus* (Salisb.) Baker**

2n=14, 14+1B Transcarpathian Lowland, Nagy Liget woodland in the Fornos'kyj Stream flood plain, near the village of Fornos (Mukachevo district), flood plain oak-elm-ash forest, 125 m a.s.l.

Hyacinthaceae Batsch

Muscari transsilvanicum Schur

- 2n=18** Transcarpathian Lowland, Irshavske foothills, near the village of Onok (Vynohradiv district), southern slope of the hill, secondary scrub vegetation with *Robinia pseudoacacia*, 160 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Kholmovetska Hora, south of the village of Kholmovets (Vynohradiv district), southern slope, open xerothermic oak woodland, 295 m a.s.l.;
Ukrainian Carpathians, the Upper Tysa Basin, Mocharka woodland, west of the settlement of Bushtino (Tyachiv district), edge of the open oak woodland, 210 m a.s.l.

Muscari comosum (L.) Mill.

- 2n=18** Transcarpathian Lowland, Volcanic hills, Mt. Kholmetska Hora, near the village of Kholmci (Uzhhorod district), open oak woodland at the foot of the northern slope, 150 m a.s.l.;
Transcarpathian Lowland, Irshavske foothills, near the village of Onok (Vynohradiv district), southern slope of the hill, secondary scrub vegetation with *Robinia pseudoacacia*, 160 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Chorna Hora near Vynohradiv, southern slope, steppe grassland site, 250 m a.s.l.;
Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), grassy southern slope, 250 m a.s.l.;
Transcarpathian Lowland, east of Uzhhorod, meadow in the apple orchard, 120 m a.s.l.;
Transcarpathian Lowland, north of Uzhhorod, vineyard, rocky outcrops on the southern slope.

Scilla kladnii Schur

- 2n=18** Transcarpathian Lowland, Lobogov woodland, near the village of Shalanky (Vynohradiv district), plain oak-hornbeam forest, 130 m a.s.l.;
Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Avashski Hory Ridge, near the village of Shayan (Khust district), collinar neutrophilous beech forest, 230 m a.s.l.;
Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Synatoria Ridge, Mt. Antalovec'ka Pol'ana, neutrophilous beech forest, 890 m a.s.l.;
Ukrainian Carpathians Latorytsia-Rika Verkhovyna, environs of the village of Nyzhni Vorota (Volovets' district), wet hay meadow, 550 m a.s.l.;
Ukrainian Carpathians, Rakhiv Flysch Polonyny, Polonyna Dumen, montane *Nardeta* grasslands, 950 m a.s.l.;
Ukrainian Carpathians, Chornohora Polonyna, Mt. Menchul Kvasivskiy, subalpine beech-sycamore forest, 1300 m a.s.l.

***Ornithogalum kochii* Parl.**

2n=18, 18+1-3B Transcarpathian Lowland, Volcanic hills, Mt. Klynovetska Hora, north of the village of Okli Hegy (Vynohradiv district), grassy southern slope, 240 m a.s.l.;

2n=18, 18+1B, 27 Transcarpathian Lowland, Irshavske foothills, near the village of Onok (Vynohradiv district), southern slope of the hill, secondary scrub vegetation with *Robinia pseudoacacia*, 160 m a.s.l.;

2n=18, 18+1-3B, 27, 27+3B Transcarpathian Lowland, Volcanic hills, Mt. Kholmetska Hora, near the village of Kholmci (Uzhhorod district), open oak woodland on the northern slope, 180 m a.s.l.

***Ornithogalum umbellatum* L.**

2n=45 Transcarpathian Lowland, near Chop (Uzhhorod district), grasslands at the roadside, 108 m a.s.l.;

Transcarpathian Lowland, near the village of Velyky Berehy (Berehovo district), grasslands at the roadside, 140 m a.s.l.;

2n=45, 45+3B Transcarpathian Lowland, island on the Tisza River, near the village of Drotynci (Vynohradiv district), alluvial forest edge, 110 m a.s.l.;

Liliaceae Juss. s. str.

***Erythronium dens-canis* L.**

2n=24 Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Avashski Hory Ridge, near the village of Shayan (Khust district), collinar neutrophilous beech forest, 260 m a.s.l.;

Ukrainian Carpathians, Rakhiv Flysch Polonyny, Mt. Apetska, secondary montane *Nardeta* grasslands, 1350 m a.s.l.;

2n=24, 36 Ukrainian Carpathians, Apshytsia-Kosivs'ka Low Mts., near the village of Vodytsa (Tyachiv district), neutrophilous beech forest, 420 m a.s.l.;

***Lilium martagon* L.**

2n=24, 24+1, 3, 4, 6B Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Synatoria Ridge, Mt. Sokolets, hay meadow on the mountain summit, 600 m a.s.l.

2n=24 Transcarpathian Lowland, Volcanic Berehovo Hills, Mt. Velyka Hora (Nagy Hegy), north of the village of Muzhiyevo (Berehovo district), southern slope, Carpathian open oak-hornbeam woods, 260 m a.s.l.;

Ukrainian Carpathians, Bukovets Polonyna, Mt. Pikuy, southern slope, mesophilous montane meadows, 1350 m a.s.l.;

2n=24, 24+1, 6B Ukrainian Carpathians, Chornohora Polonyna, Carpathian Biosphere Reserve, Tovstij Grun woodland, north of the village Ust'-Hoverla (Rakhiv district), spruce forests, 990 m a.s.l.

***Lilium bulbiferum* L.**

2n=24 Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Borliyov Dil Ridge, Mt. Dil, south of the village of Pasika (Svalyava district), hay meadow on the mountain summit, 630 m a.s.l.

***Fritillaria meleagris* L.**

- 2n=24** Transcarpathian Lowland, Tulolenik woodland in the Latoritsa River flood plain, near the village of Velyki Geyevtsi (Uzhhorod district), riverine oak-elm-ash forests, 120 m a.s.l.;
- Transcarpathian Lowland, Peresh woodland in the Latoritsa River flood plain, near the village of Mali Geyevtsi (Uzhhorod district), riverine oak-elm-ash forests, 115 m a.s.l.;
- Transcarpathian Lowland, near Chop (Uzhhorod district), alluvial meadows, 120 m a.s.l.;
- Transcarpathian Lowland, Kozuptovo woodland in the Mala Latoritsa River flood plain, near the village of Drahynya (Mukachevo district), riverine oak-elm-ash forests, 120 m a.s.l.;
- Transcarpathian Lowland, Lobogov woodland, near the village of Shalanky (Vynohradiv district), riverine plain oak woods, 130 m a.s.l.;

Iridaceae Juss.

***Crocus heuffelianus* Herb.**

- 2n=10** Transcarpathian Lowland, Ostrosh woodland, south of Mukachevo, plain oak-hornbeam woods, 125 m a.s.l.;
- Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, woodland near the village of Tsyhanivtsi (Uzhhorod district), oak-hornbeam woods, 200m a.s.l.;
- Ukrainian Carpathians, Volcanic Vyhorlat-Hutyn Ridge, the Avashski Hory Ridge, near the village of Shayan (Hust district), collinar neutrophilous beech forest, 260 m a.s.l.;
- Ukrainian Carpathians, Rakhiv Flysch Polonyny, Mt. Apecka, secondary montane Nardeta grasslands, 1350 m a.s.l.;
- Ukrainian Carpathians, Rakhiv Flysch Polonyny, Polonyna Dumen, montane Nardeta grasslands, 1300 m a.s.l.;
- Ukrainian Carpathians, Chornohora Polonyna, Mt. Menchul Kvasivskij, montane Nardeta grasslands, 1500 m a.s.l.;
- Ukrainian Carpathians, Chornohora Polonyna, Mt. Petros, acidophilous grassland communities in the alpine belt, 1900 m a.s.l.

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