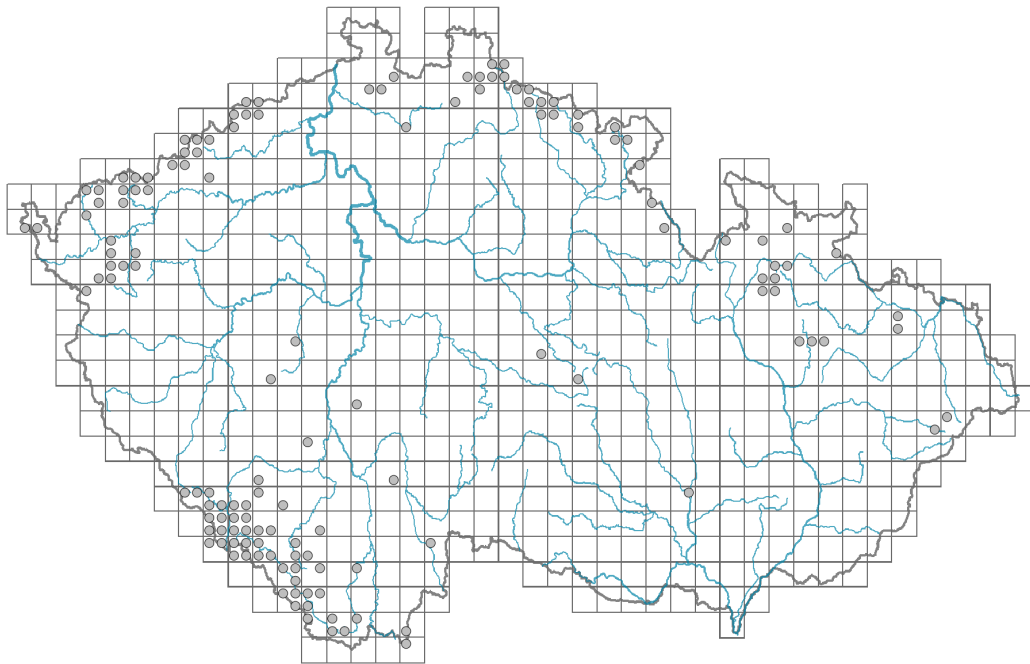


Betula pubescens subsp. *carpatica*

Distribution



Map info

● revised records

○ unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.



Habitus and growth type

Height [m]: **4-12**

Growth form: **shrub (tree)**

Life form: **nanophanerophyte (macrophanerophyte)**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **present**

Petiole: **present**

Leaf deciduousness in woody plants: **winter deciduous**

Functional leaf type in woody plants: **broad deciduous or semi-deciduous**

Flower

Flowering period [month]: **May-June**

Flower colour: **yellow-green**

Perianth type: **homochlamydeous, reduced or absent**

Perianth fusion: **reduced**

Inflorescence type: **amentum e floribus masculis, amentum e floribus femineis**

Generative reproduction type: **allogamy**

Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**

Fruit colour: **brown**

Dispersal unit (diaspore): **seed**

Dispersal strategy: **Epilobium (mainly anemochory and autochory)**

Myrmecochory: **non-myrmecochorous (b)**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **56**

Ploidy level (x): **4**

2C genome size [Mbp]: **1693.66**

1Cx monoploid genome size [Mbp]: **423.41**

Genomic GC content: **38.6 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **8 - light plant, only exceptionally occurring at less than 40% of diffuse radiation incident in an open area**

Temperature indicator value: **4 - transition between values 3 and 5**

Moisture indicator value: **5x - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out (generalist)**

Reaction indicator value: **2 - transition between values 1 and 3**

Nutrient indicator value: **2 - transition between values 1 and 3**

Salinity indicator value: **0 - not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.8**

Herb layer disturbance frequency indicator value: **-1.26**

Whole-community disturbance severity indicator value: **0.16**

Herb layer disturbance severity indicator value: **0.09**

Whole-community structure based disturbance indicator value: **0.1**

Herb layer structure-based disturbance indicator value: **0.07**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

- 1B Siliceous cliffs and block fields: **2 - optimum**
- 2 Alpine and subalpine grasslands
- 2B Subalpine tall-forb and tall-grass vegetation: **2 - optimum**
- 5 Vegetation of springs and mires
- 5E Acidic moss-rich fens and peatland meadows: **1 - rare occurrence**
- 5F Transitional mires: **1 - rare occurrence**
- 5G Raised bogs: **1 - rare occurrence**
- 5H Wet peat soils and bog hollows: **1 - rare occurrence**
- 6 Meadows and mesic pastures
- 6E Wet *Cirsium* meadows: **1 - rare occurrence**
- 6F Intermittently wet *Molinia* meadows: **1 - rare occurrence**
- 7 Acidophilous grasslands
- 7A Subalpine and montane acidophilous grasslands: **1 - rare occurrence**
- 7B Submontane *Nardus* grasslands: **1 - rare occurrence**
- 11 Heathlands and scrub
- 11A Dry lowland to subalpine heathlands: **2 - optimum**
- 11D Subalpine acidophilous *Pinus mugo* scrub: **1 - rare occurrence**
- 11H Subalpine deciduous scrub: **3 - dominant**
- 11R Scrub and pioneer woodland of forests clearings: **2 - optimum**
- 12 Forests
- 12G Acidophilous beech forests: **1 - rare occurrence**
- 12K Acidophilous oak forests: **2 - optimum**
- 12L Boreo-continental pine forests: **2 - optimum**
- 12P Peatland pine forests: **1 - rare occurrence**
- 12Q Peatland birch forests: **2 - optimum**
- 12R Acidophilous spruce forests: **2 - optimum**
- 12S Basiphilous spruce forests: **1 - rare occurrence**
- 12V Spruce plantations: **1 - rare occurrence**
- Affinity to the forest environment
- Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 - taxon occurring both in the forest and open vegetation**
- Diagnostic taxon
- Diagnostic taxon of classes: [KC *Roso pendulinae*-*Pinetea mugo*](#)
- Diagnostic taxon of alliances: [ADC *Salicion silesiaca*](#), [KCA *Pinion mugo*](#)
- Diagnostic taxon of associations: [ADC01 *Salici silesiaca*-*Betuletum carpaticae*](#), [LFD04 *Vaccinio uliginosi*-*Piceetum abietis*](#)
- Constant taxon
- Constant taxon of alliances: [ADC *Salicion silesiaca*](#)
- Constant taxon of associations: [ADC01 *Salici silesiaca*-*Betuletum carpaticae*](#), [KCA02 *Adenostylo alliariae*-*Pinetum mugo*](#)
- Dominant taxon
- Dominant taxon of associations: [ADC01 *Salici silesiaca*-*Betuletum carpaticae*](#)
- Ecological specialization indices
- Ecological specialization index for all vegetation types: **5.4**
- Ecological specialization index for non-forest vegetation: **5.3**
- Ecological specialization index for forest vegetation: **4.9**

Colonization ability

Index of colonization success (ICS): **1**

Index of colonization potential (ICP): **1**

Distribution and frequency

Continental degree: **6**

Distribution range extension along the continentality gradient: **2**

Elevational belt in the Czech Republic: **montane belt, subalpine belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **91**

taxon.data.freq_in_quad: **140**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **40 %**

Occurrence frequency in vegetation plots with a cover above 25%: **20 %**

Occurrence frequency in vegetation plots with a cover above 50%: **5 %**

Mean percentage cover in vegetation plots: **12.9 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **22**

Number of narrow habitats in which the taxon has its optimum: **9**

Number of broad habitats in which the taxon occurs: **7**

Number of broad habitats in which the taxon has its optimum: **4**

Threats and protection

Red List 2017 (national categories): **C4b - data deficient taxon**

Red List 2017 (IUCN categories): **DD - data deficient**

Legal protection: **not protected by law**