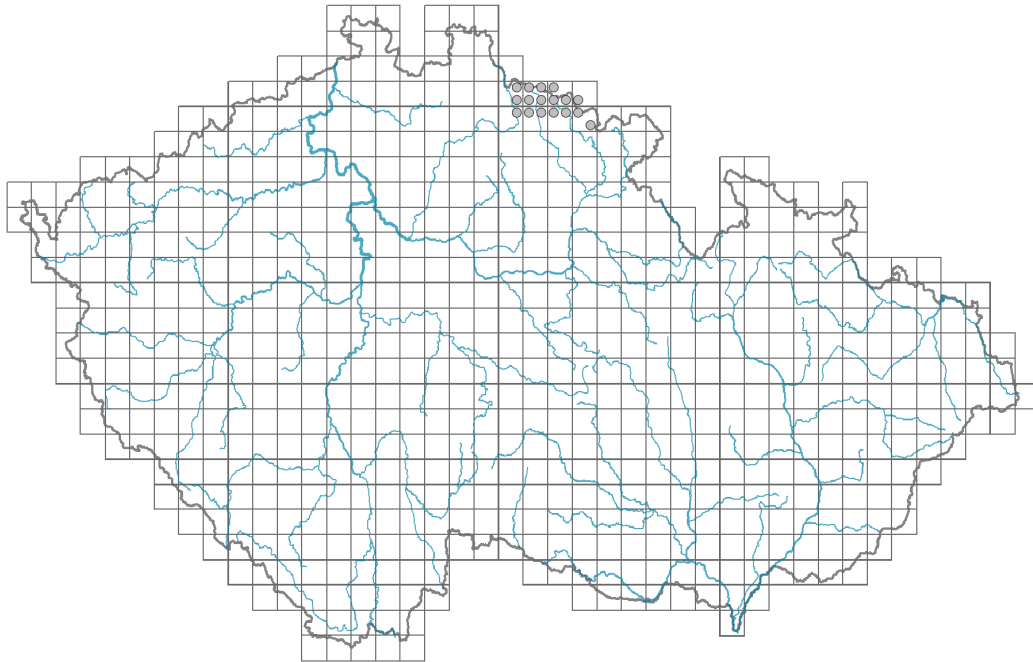


# Campanula bohemica

## 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]: **0.15-0.4**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate, rosulate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

## Flower

Flowering period [month]: **July-September**

Flower colour: **violet, blue**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **campanulate**

Calyx fusion: **synsepalous**

Inflorescence type: **racemus, flores solitarii**



## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

Dispersal unit (diaspore): **seed**

Dispersal strategy: **Allium (mainly 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): **68**

Ploidy level (x): **4**

2C genome size [Mbp]: **3794.51**

1Cx monoploid genome size [Mbp]: **948.63**

Genomic GC content: **40.5 %**

## Taxon origin

Origin in the Czech Republic: **native**

## Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **7 - half-light plant, mostly occurring at full light, but also in the shade up to about 30% of diffuse radiation incident in an open area**

Temperature indicator value: **3 - cool indicator, occurring mainly in subalpine areas**

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

Reaction indicator value: **3 - acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**

Nutrient indicator value: **3 - occurring at nutrient-poor sites more frequently than at average sites and exceptionally at rich sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.53**

Herb layer disturbance frequency indicator value: **-0.53**

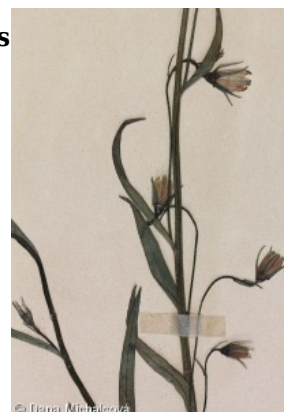
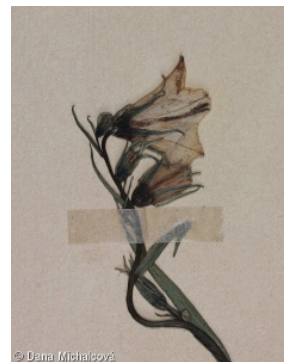
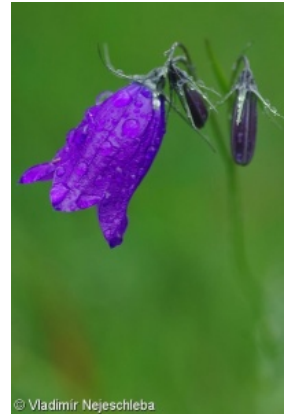
Whole-community disturbance severity indicator value: **0.24**

Herb layer disturbance severity indicator value: **0.28**

Whole-community structure based disturbance indicator value: **0.58**

Herb layer structure-based disturbance indicator value: **0.74**

## Habitat and sociology



## Occurrence in habitats

## 1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **1 - rare occurrence**

## 2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **1 - rare occurrence**2B Subalpine tall-forb and tall-grass vegetation: **1 - rare occurrence**

## 5 Vegetation of springs and mires

5C Alpine and subalpine soft-water springs: **1 - rare occurrence**

## 6 Meadows and mesic pastures

6B Montane mesic meadows: **2 - optimum**

## 7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **2 - optimum**

## 11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 - rare occurrence**11D Subalpine acidophilous *Pinus mugo* scrub: **1 - rare occurrence**

## 12 Forests

12R Acidophilous spruce forests: **1 - rare occurrence**

## Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **0 - taxon that does not spontaneously occur in Czech forests**Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

## Diagnostic taxon

Diagnostic taxon of classes: [AC \*Elyno-Seslerietea\*](#)Diagnostic taxon of alliances: [ACA \*Agrostion alpinae\*](#), [ADB \*Calamagrostion arundinaceae\*](#), [TEA \*Nardion strictae\*](#), [TEB \*Nardo strictae-Agrostion tenuis\*](#)Diagnostic taxon of associations: [AAA01 \*Avenello flexuosae-Callunetum vulgaris\*](#), [ACA01 \*Saxifraga oppositifoliae-Festucetum versicoloris\*](#), [ADB01 \*Bupleuro longifoliae-Calamagrostietum arundinaceae\*](#), [TDB02 \*Melandrio rubri-Phleetum alpini\*](#), [TEA02 \*Thesio alpini-Nardetum strictae\*](#), [TEB01 \*Sileno vulgaris-Nardetum strictae\*](#)

## Constant taxon

Constant taxon of alliances: [TEA \*Nardion strictae\*](#)Constant taxon of associations: [TDB02 \*Melandrio rubri-Phleetum alpini\*](#), [TEA02 \*Thesio alpini-Nardetum strictae\*](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **6.7**Ecological specialization index for non-forest vegetation: **6.8**

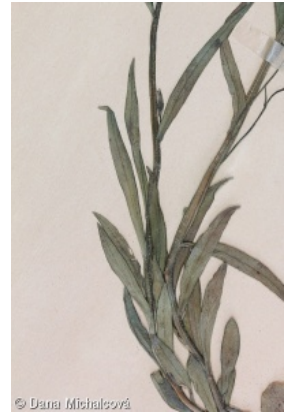
## Distribution and frequency

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: 12

taxon.data.freq\_in\_quad: 21

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.2 %**

Occurrence frequency in vegetation plots with a cover above 5%: **15.9 %**

Occurrence frequency in vegetation plots with a cover above 25%: **1.6 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **4.5 %**

Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **9**

Number of narrow habitats in which the taxon has its optimum: **2**

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

Number of broad habitats in which the taxon has its optimum: **2**

### **Threats and protection**

Red List 2017 (national categories): **C2b - endangered taxon, rare and declining**

Red List 2017 (IUCN categories): **VU - vulnerable**

Legal protection: **endangered taxon**