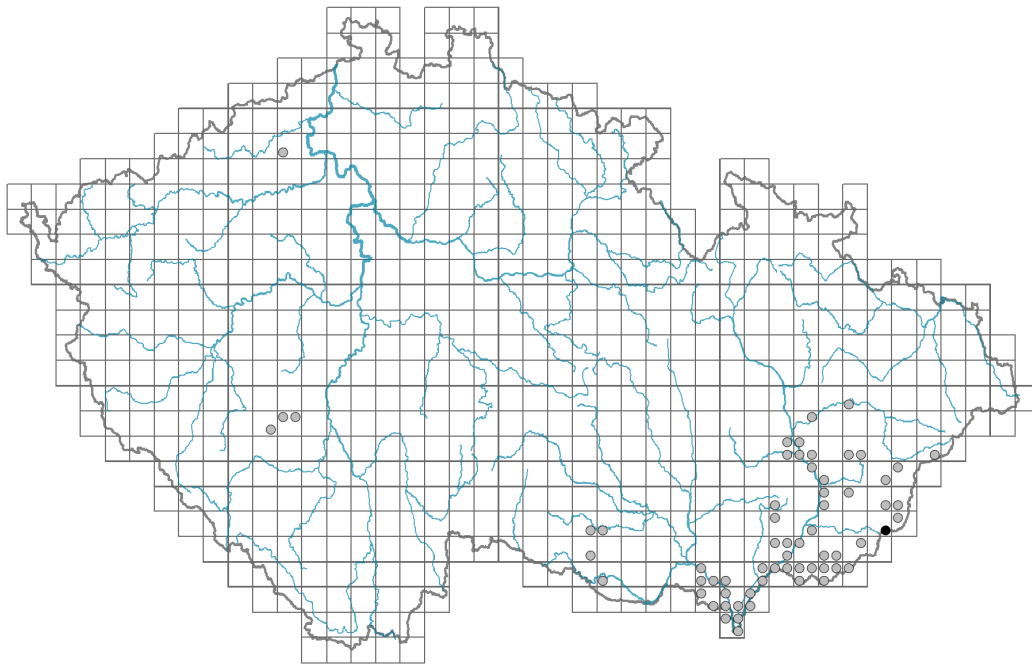


Cardamine matthioli

Distribution



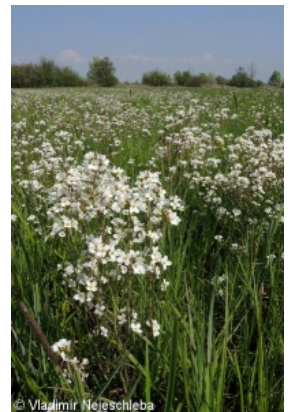
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Map info

● revised records

○ unrevised records

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



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Habitus and growth type

Height [m]: **0.1-0.5**Growth form: **clonal herb**Life form: **hemicryptophyte**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**Leaf arrangement (phyllotaxis): **alternate**Leaf shape: **simple - pinnately divided, compound - imparipinnate**Stipules: **absent**Petiole: **both present and absent**

Flower

Flowering period [month]: **April-May**Flower colour: **white**Flower symmetry: **actinomorphic**Perianth type: **calyx and corolla**Perianth fusion: **free**Calyx fusion: **aposepalous**Inflorescence type: **racemus**Generative reproduction type: **allogamy self-incompatibility**

© Dana Michalčová

Fruit, seed and dispersal

Fruit type: **dry fruit - siliqua**

Dispersal unit (diaspore): **seed, leaf-born plantlet**

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): **16 (18)**

Ploidy level (x): **2**

2C genome size [Mbp]: **709.64**

1Cx monoploid genome size [Mbp]: **354.82**

Genomic GC content: **40.3 %**

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: **6 - transition between values 5 and 7**

Moisture indicator value: **8 - transition between values 7 and 9**

Reaction indicator value: **6 - transition between values 5 and 7**

Nutrient indicator value: **5 - occurring at moderately nutrient-rich sites, and less frequently at poor and rich sites**

Salinity indicator value: **1 - salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.25**

Herb layer disturbance frequency indicator value: **-0.25**

Whole-community disturbance severity indicator value: **0.28**

Herb layer disturbance severity indicator value: **0.31**

Whole-community structure based disturbance indicator value: **0.56**

Herb layer structure-based disturbance indicator value: **0.67**

Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation



4A Reed-beds of eutrophic still waters: **1 - rare occurrence**

4G Tall-sedge beds: **2 - optimum**

5 Vegetation of springs and mires

5D Calcareous fens: **1 - rare occurrence**

6 Meadows and mesic pastures

6D Alluvial meadows of lowland rivers: **2 - optimum**

6E Wet *Cirsium* meadows: **1 - rare occurrence**

6F Intermittently wet *Molinia* meadows: **2 - optimum**

11 Heathlands and scrub

11I Willow carrs: **1 - rare occurrence**

11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**

12 Forests

12A Alder carrs: **2 - optimum**

12B Alluvial forests: **2 - optimum**

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 associations: [TDE03 *Lathyro palustris-Gratioletum officinalis*](#), [TDE04 *Cnidio dubii-Deschampsietum cespitosae*](#)

Constant taxon

Constant taxon of associations: [TDE03 *Lathyro palustris-Gratioletum officinalis*](#), [TDE04 *Cnidio dubii-Deschampsietum cespitosae*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **6.4**

Ecological specialization index for non-forest vegetation: **6.4**

Distribution and frequency

Continental degree: **5**

Distribution range extension along the continentality gradient: **3**

Elevational belt in the Czech Republic: **lowlands, colline belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 41

taxon.data.freq_in_quad: 64

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%: **4.7 %**

Occurrence frequency in vegetation plots with a cover above 25%: **0 %**

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

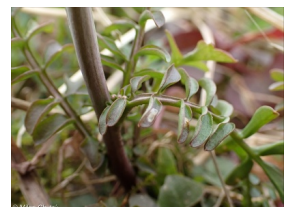
Mean percentage cover in vegetation plots: **2.4 %**

Maximum percentage cover in vegetation plots: **13 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **10**

Number of narrow habitats in which the taxon has its optimum: **5**



Number of broad habitats in which the taxon occurs: **5**

Number of broad habitats in which the taxon has its optimum: **3**

Threats and protection

Red List 2017 (national categories): **C4a - near threatened taxon**

Red List 2017 (IUCN categories): **NT - near threatened**

Legal protection: **not protected by law**