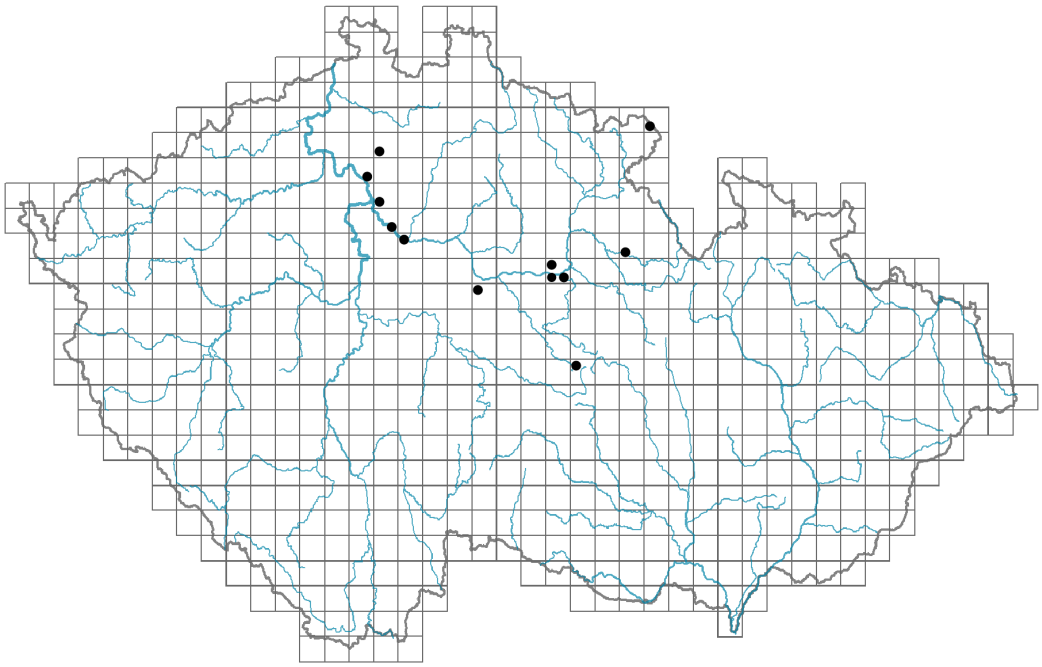
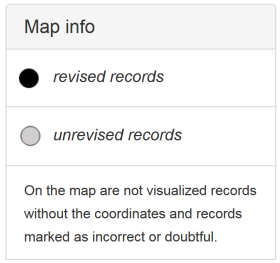
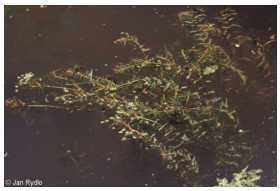
Groenlandia densa

Distribution











Habitus and growth type

Height [m]: **0.1–0.7**
Growth form: **clonal herb**
Life form: **hydrophyte**
Life strategy (Pierce method based on leaf traits): **R/SR**
Life strategy (Pierce method, C-score): **2.8 %**
Life strategy (Pierce method, S-score): **21.7 %**
Life strategy (Pierce method, R-score): **75.5 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **opposite, verticillate**
Leaf shape: **simple – entire**
Stipules: **present**
Petiole: **absent**
Leaf life span: **evergreen**
Leaf anatomy: **hydromorphic**

Flower

Flowering period [month]: **June–August**
Flower colour: **green**

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Flower symmetry: **actinomorphic**
Perianth type: **homochlamydeous**
Perianth fusion: **free**
Inflorescence type: **spica**
Dicliny: **synoecious**
Generative reproduction type: **mixed mating**
Pollination syndrome: **wind-pollination, water-pollination, selfing**

Fruit, seed and dispersal

Fruit type: **dry fruit – achene/cypsela/samara**
Fruit colour: **brown**
Reproduction type: **only vegetatively**
Dispersal unit (diaspore): **fruit, infrutescence or its part, turion, shoot fragment**
Dispersal strategy: **Wolffia (mainly hydrochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon**
Storage organ: **stolon**
Type of clonal growth organ: **hypogeogenous rhizome**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **1.5**
Number of clonal offspring: **6**
Lateral spreading distance by clonal growth [m]: **0.27**
Clonal index: **6**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **15**
Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **0**
Size of the belowground bud bank (root buds excluded): **20**
Depth of the belowground bud bank (root buds exluded) [cm]: **4**
Number of buds per shoot at the soil surface (root buds included): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **15**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **0**
Size of the belowground bud bank (root buds included): **20**
Depth of the belowground bud bank (root buds included) [cm]: **4**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

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Karyology

Chromosome number (2n): **30**
Ploidy level (x): **2**
2C genome size [Mbp]: **320.31**
1Cx monoploid genome size [Mbp]: **160.15**
Genomic GC content: **38.1 %**

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: **6 – transition between values 5 and 7**
Moisture indicator value: **12 – permanently or almost permanently submerged aquatic plant**
Reaction indicator value: **8 – transition between values 7 and 9, occurring mostly in calcium-rich conditions**
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**

Habitat and sociology

Occurrence in habitats

3 Aquatic vegetation

3A Macrophytic vegetation of eutrophic and mesotrophic still waters: **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 associations: **VBB10 *Groenlandietum densae***

Constant taxon

Constant taxon of associations: **VBB10 *Groenlandietum densae***

Dominant taxon

Dominant taxon of associations: **VBB10 *Groenlandietum densae***

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional**

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Floristic region: **Europe, Western Asia**
Distribution range extension along the continentality gradient: **6**
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: 12
taxon.data.freq_in_quad: 14

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0 %**
Occurrence frequency in vegetation plots with a cover above 5%: **80 %**
Occurrence frequency in vegetation plots with a cover above 25%: **80 %**
Occurrence frequency in vegetation plots with a cover above 50%: **40 %**
Mean percentage cover in vegetation plots: **51 %**
Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **1**
Number of narrow habitats in which the taxon has its optimum: **0**
Number of broad habitats in which the taxon occurs: **1**
Number of broad habitats in which the taxon has its optimum: **0**

Threats and protection

Red List 2017 (national categories): **C1t – critically threatened taxon, declining**
Red List 2017 (IUCN categories): **CR – critically endangered**
Legal protection: **critically threatened taxon**

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