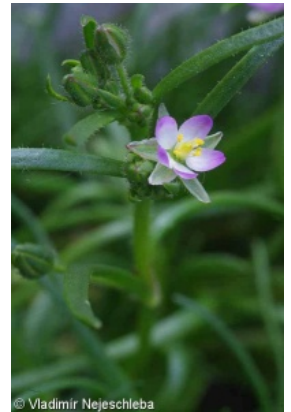
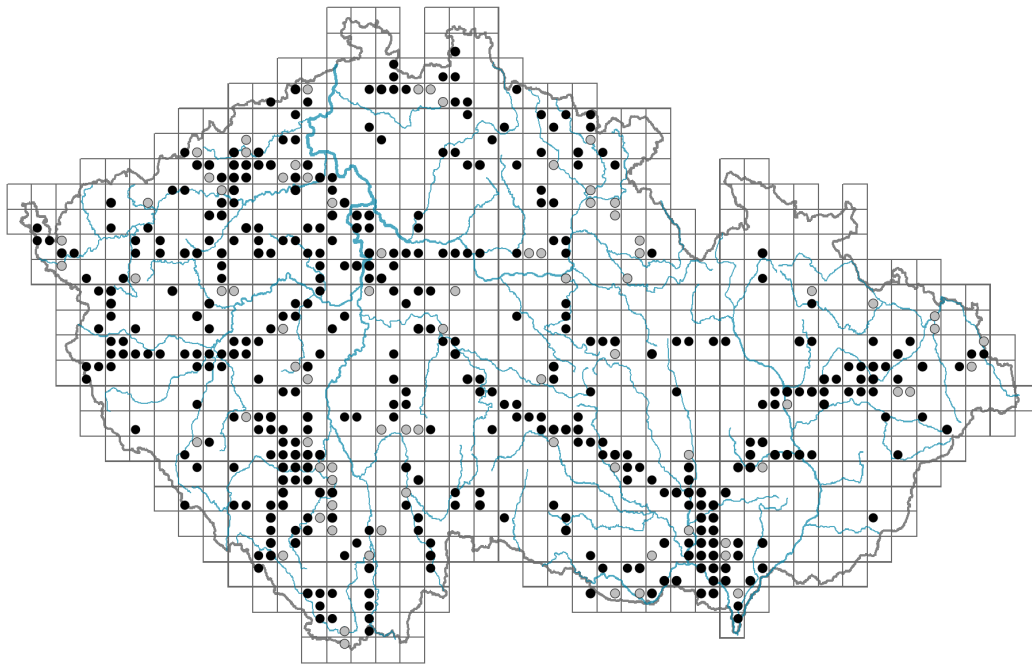


# *Spergularia marina*

## 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]: **0.05-0.2**

Growth form: **polycarpic perennial non-clonal herb**

Life form: **hemicryptophyte (therophyte)**

Life strategy: **S - stress-tolerator**

Life strategy (Pierce method based on leaf traits): **S**

Life strategy (Pierce method, C-score): **0.5 %**

Life strategy (Pierce method, S-score): **89.6 %**

Life strategy (Pierce method, R-score): **9.9 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **opposite**

Leaf shape: **simple - entire**

Stipules: **present**

Petiole: **absent**

Leaf life span: **overwintering green**

Leaf anatomy: **succulent**

## Flower

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



Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**

Flower colour: **white, pink**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **dichasium**

Dicliny: **synoecious, gynomonoecious, gynodioecious**

Generative reproduction type: **autogamy**

Pollination syndrome: **insect-pollination, selfing, pseudocleistogamy**

### **Fruit, seed and dispersal**

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

Reproduction type: **only by seed/spores**

Dispersal unit (diaspore): **seed**

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

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

### **Belowground organs and clonality**

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Branching type of stem-derived organs of clonal growth: **sympodial**

Primary root: **present**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds excluded) [cm]: **1**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds included) [cm]: **1**

### **Trophic mode**

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

### **Karyology**

Chromosome number (2n): **36**

Ploidy level (x): **4**

2C genome size [Mbp]: **1050.58**

1Cx monoploid genome size [Mbp]: **262.65**

Genomic GC content: **40.5 %**

## 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: **7 - humidity indicator, focus on well moistened, but not wet soils**

Reaction indicator value: **8 - transition between values 7 and 9, occurring mostly in calcium-rich conditions**

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

Salinity indicator value: **7 - polyhaline, on soils with a high salt content**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **0.04**

Herb layer disturbance frequency indicator value: **0.04**

Whole-community disturbance severity indicator value: **0.54**

Herb layer disturbance severity indicator value: **0.55**

Whole-community structure based disturbance indicator value: **0.74**

Herb layer structure-based disturbance indicator value: **0.78**

## Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

4H Vegetation of low annual hygrophilous herbs: **2 - optimum**

10 Saline vegetation

10G Continental vegetation of annual halophilous grasses: **3 - dominant**

10H Inland vegetation of succulent halophytes: **2 - optimum**

10I Inland saline meadows: **2 - optimum**

10J Saline steppes: **2 - optimum**

13 Anthropogenic vegetation

13C Annual vegetation of trampled habitats: **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 classes: [TA \*Crypsitea aculeatae\*](#), [TB \*Thero-Salicornietea strictae\*](#)

Diagnostic taxon of alliances: [TAA \*Cypero-Spergularion salinae\*](#), [TBA \*Salicornion\*](#)

***prostratae*, TCA *Puccinellion limosae***

Diagnostic taxon of associations: [TAA01 \*Crypsietum aculeatae\*](#), [TAA02 \*Heleochoëtum schoenoidis\*](#), [TBA02 \*Spergulario marginatae-Suaedetum prostratae\*](#), [TCA01 \*Puccinellietum limosae\*](#)

Constant taxon

Constant taxon of classes: [TA \*Crypsietea aculeatae\*](#)

Constant taxon of alliances: [TAA \*Cypero-Spergularion salinae\*](#)

Constant taxon of associations: [TAA01 \*Crypsietum aculeatae\*](#)

Dominant taxon

Dominant taxon of associations: [MBB02 \*Bidenti frondosae-Atriplicetum prostratae\*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.2**

Ecological specialization index for non-forest vegetation: **5.3**

## Distribution and frequency

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

Floristic region: **circumpolar**

Continentality degree: **9**

Distribution range extension along the continentality gradient: **5**

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

Expansive taxon in the region: **Bohemian Thermophyticum, Bohemian Moravian Mesophyticum, Pannonian Thermophyticum, Carpathian Mesophyticum**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **294**

taxon.data.freq\_in\_quad: **488**

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%: **31.3 %**

Occurrence frequency in vegetation plots with a cover above 25%: **9.4 %**

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

Mean percentage cover in vegetation plots: **8.7 %**

Maximum percentage cover in vegetation plots: **42 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **6**

Number of narrow habitats in which the taxon has its optimum: **6**

Number of broad habitats in which the taxon occurs: **3**

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

## 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**