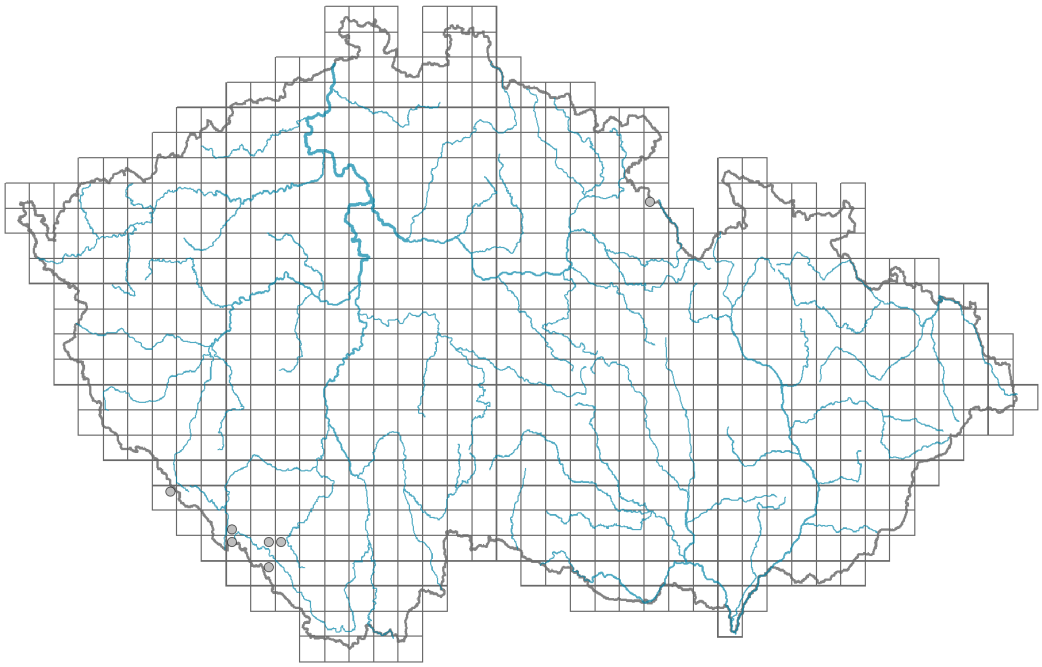
Lycopodium annotinum subsp. *annotinum*

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: **chamaephyte**
Life strategy: **CS – competitor/stress-tolerator**
Life strategy (Pierce method based on leaf traits): **S/SR**
Life strategy (Pierce method, C-score): **0 %**
Life strategy (Pierce method, S-score): **64.1 %**
Life strategy (Pierce method, R-score): **35.9 %**

Leaf

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

Flower

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

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Dicliny: **synoecious**



Fruit, seed and dispersal

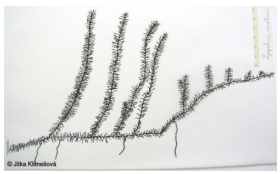
Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **spore**
Dispersal strategy: **Lycopodium (mainly anemochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality



Shoot metamorphosis: **stolon-like rhizome**
Storage organ: **stolon-like rhizome**
Type of clonal growth organ: **stolon**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **4**
Number of clonal offspring: **2.3**
Lateral spreading distance by clonal growth [m]: **0.22**
Clonal index: **3**

Bud bank



Number of buds per shoot at the soil surface (root buds excluded): **15**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **3**
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): **18**
Depth of the belowground bud bank (root buds exluded) [cm]: **2**
Number of buds per shoot at the soil surface (root buds included): **15**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **3**
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): **18**
Depth of the belowground bud bank (root buds included) [cm]: **2**

Trophic mode

Parasitism and mycoheterotrophy: **partial or initial mycoheterotroph**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **66, 68**
Ploidy level (x): **2**
2C genome size [Mbp]: **8488.91**
1Cx monoploid genome size [Mbp]: **4244.46**
Genomic GC content: **42.8 %**

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Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **3 – shade plant, usually occurring where the incident radiation is less than 5% of that in an open area, but also at sunnier sites**
Temperature indicator value: **4 – transition between values 3 and 5**
Moisture indicator value: **6 – transition between values 5 and 7**
Reaction indicator value: **2 – transition between values 1 and 3**
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: **-1.94**
Herb layer disturbance frequency indicator value: **-0.92**
Whole-community disturbance severity indicator value: **0.29**
Herb layer disturbance severity indicator value: **0.13**
Whole-community structure based disturbance indicator value: **0.06**
Herb layer structure-based disturbance indicator value: **0.09**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

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

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 – rare occurrence**
5C Alpine and subalpine soft-water springs: **1 – rare occurrence**
5F Transitional mires: **1 – rare occurrence**
5G Raised bogs: **1 – rare occurrence**

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **1 – rare occurrence**

11 Heathlands and scrub

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

12 Forests

12E Herb-rich beech forests: **1 – rare occurrence**
12G Acidophilous beech forests: **2 – optimum**
12L Boreo-continental pine forests: **1 – rare occurrence**
12P Peatland pine forests: **1 – rare occurrence**
12Q Peatland birch forests: **1 – rare occurrence**
12R Acidophilous spruce forests: **2 – optimum**
12S Basiphilous spruce forests: **1 – rare occurrence**
12V Spruce plantations: **1 – rare occurrence**

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Affinity to the forest environment

Affinity to the forest environment in Mesophyticum and Oreophyticum: **1.1 – taxon occurring mainly in the closed forest**

Diagnostic taxon

Diagnostic taxon of alliances: **LFC *Piceion abietis***

Diagnostic taxon of associations: **LFC03 *Equiseto sylvatici-Piceetum abietis***

Constant taxon

Constant taxon of associations: **KCA02 *Adenostylo alliariae-Pinetum mugo***

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.6**

Ecological specialization index for non-forest vegetation: **5.6**

Ecological specialization index for forest vegetation: **5.9**

Colonization ability

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

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

Distribution and frequency

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

Floristic region: **circumpolar**

Continentality degree: **6**

Distribution range extension along the continentality gradient: **6**

Elevational belt in the Czech Republic: **submontane belt, montane belt, subalpine belt (colline belt)**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 372

taxon.data.freq_in_quad: 768

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%: **17.5 %**

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: **4.4 %**

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: **16**

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

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

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

Threats and protection

Red List 2017 (national categories): **C3 – vulnerable taxon**

Red List 2017 (IUCN categories): **LC – least concern**

Legal protection: **vulnerable taxon**

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