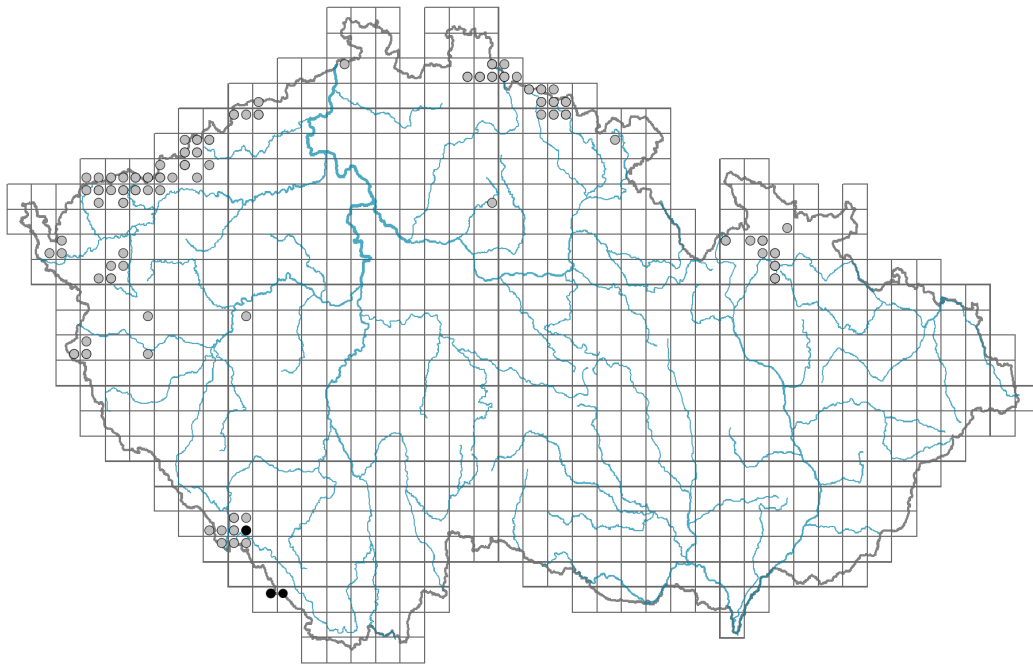


# *Empetrum nigrum* agg.

## Distribution

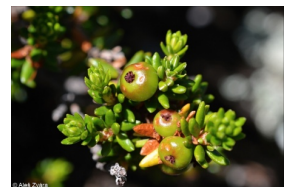


### Map info

● 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]: **0.1-0.5**

Growth form: **dwarf shrub**

Life form: **chamaephyte**

Life strategy: **CSR - competitor/stress-tolerator/ruderal**

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

Life strategy (Pierce method, C-score): **0 %**

Life strategy (Pierce method, S-score): **100 %**

Life strategy (Pierce method, R-score): **0 %**

## Leaf

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

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

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **present**

Leaf life span: **evergreen**

Leaf deciduousness in woody plants: **evergreen**

Leaf anatomy: **scleromorphic**

Functional leaf type in woody plants: **needle-like, sclerophyllous**

## Flower

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

Flowering phase: **2 Acer platanoides-Anemone nemorosa (start of early spring)**

Flower colour: **pink, red**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

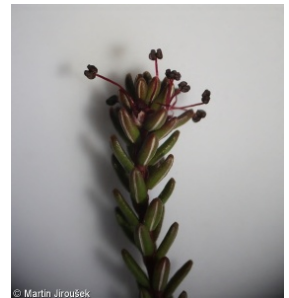
Calyx fusion: **aposepalous**

Inflorescence type: **racemus**

Dicliny: **synoecious, dioecious**

Generative reproduction type: **allogamy**

Pollination syndrome: **wind-pollination, insect-pollination**



## Fruit, seed and dispersal

Fruit type: **fleshy fruit - drupe**

Fruit colour: **blue, black**

Reproduction type: **mostly vegetatively, rarely by seed/spores, by seed/spores and vegetatively**

Dispersal unit (diaspore): **seed, fruit, infrutescence or its part**

Dispersal strategy: **Cornus (mainly autochory and endozoochory)**

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

## Belowground organs and clonality

Shoot metamorphosis: **stolon**

Primary root: **present**

Position of root buds: **lateral roots**

Role of root buds in life-history of a plant: **additive**

### Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **14**

Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **10**

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): **24**

Depth of the belowground bud bank (root buds excluded) [cm]: **3**

Number of buds per shoot at the soil surface (root buds included): **14**

Number of buds per shoot at a depth of 0–10 cm (root buds included): **11**

Number of buds per shoot at a depth greater than 10 cm (root buds included): **8**

Size of the belowground bud bank (root buds included): **33**

Depth of the belowground bud bank (root buds included) [cm]: **5**

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

## Karyology

Chromosome number (2n): **26, 50, 52**

Ploidy level (x): **2, 4**

2C genome size [Mbp]: **1653.3**

1Cx monoploid genome size [Mbp]: **553.77**

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

Reaction indicator value: **2x - transition between values 1 and 3 (generalist)**

Nutrient indicator value: **2 - transition between values 1 and 3**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.93**

Herb layer disturbance frequency indicator value: **-1.84**

Whole-community disturbance severity indicator value: **0.07**

Herb layer disturbance severity indicator value: **0.08**

Whole-community structure based disturbance indicator value: **0.33**

Herb layer structure-based disturbance indicator value: **0.21**

## Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **2 - optimum**

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **2 - optimum**

5 Vegetation of springs and mires

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

5F Transitional mires: **1 - rare occurrence**

5G Raised bogs: **2 - optimum**

5H Wet peat soils and bog hollows: **1 - rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **2 - optimum**

11D Subalpine acidophilous *Pinus mugo* scrub: **2 - optimum**

12 Forests

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**

Diagnostic taxon

Diagnostic taxon of classes: [RC \*Oxycocco-Sphagneteta\*](#)

Diagnostic taxon of alliances: [LFD \*Vaccinio uliginosi-Pinion sylvestris\*](#), [RCA \*Sphagnion magellanic\*](#), [RCC \*Oxycocco microcarpi-Empetrion hermaphroditi\*](#)

Diagnostic taxon of associations: [LFD03 \*Vaccinio-Pinetum montanae\*](#), [RCA02 \*Andromedo polifoliae-Sphagnetum magellanic\*](#), [RCA03 \*Vaccinio uliginosi-Pinetum mugo\*](#), [RCC01 \*Trichophoro cespitosi-Sphagnetum compacti\*](#), [RCC02 \*Empetro nigri-Sphagnetum fusi\*](#)

Constant taxon

Constant taxon of associations: [RCA02 \*Andromedo polifoliae-Sphagnetum magellanic\*](#), [RCA03 \*Vaccinio uliginosi-Pinetum mugo\*](#)

Dominant taxon

Dominant taxon of associations: [RCA02 \*Andromedo polifoliae-Sphagnetum magellanic\*](#), [RCC02 \*Empetro nigri-Sphagnetum fusi\*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **7.2**

Ecological specialization index for non-forest vegetation: **7.2**

Ecological specialization index for forest vegetation: **7.2**

## Distribution and frequency

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

Floristic region: **circumpolar**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **47**

taxon.data.freq\_in\_quad: **83**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.4 %**

Occurrence frequency in vegetation plots with a cover above 5%: **35.2 %**

Occurrence frequency in vegetation plots with a cover above 25%: **16.7 %**

Occurrence frequency in vegetation plots with a cover above 50%: **7.4 %**

Mean percentage cover in vegetation plots: **12.8 %**

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: **12**

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

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

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