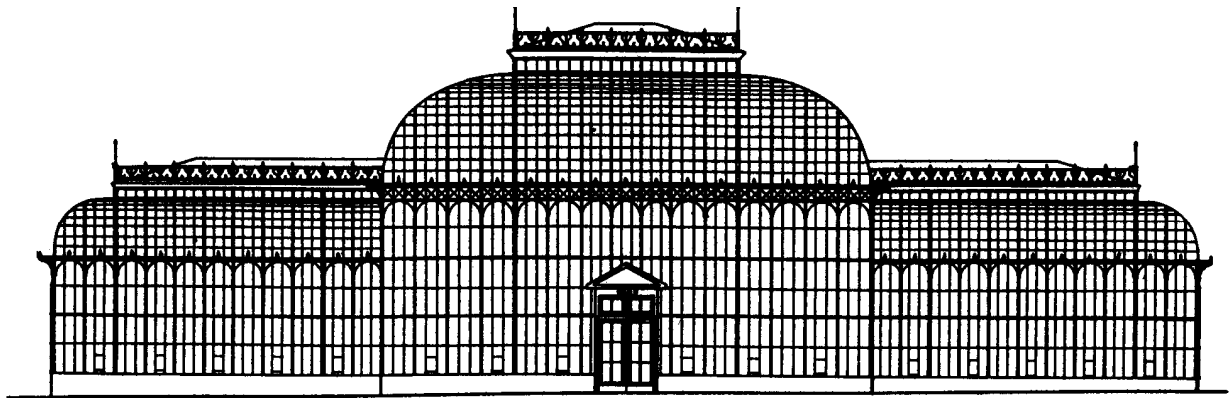


# LUOMUS

FINNISH MUSEUM OF NATURAL HISTORY

## DELECTUS SEMINUM

### List of seeds and spores available in 2023



Address:

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**COVER PICTURE:**

The south facade of the main greenhouses of University of Helsinki Botanic Garden in Kaisaniemi. The greenhouses were designed by Gustaf Nyström and built in 1889 and in 1896. They were thoroughly refurbished in 1996–1998.

# **DELECTUS SEMINUM**

**List of seeds and spores available  
at the Botanic Gardens of the University of Helsinki  
in 2023**

**Edited by:  
Mari Miranto,  
Henry Väre  
& Marko Hyvärinen**

Helsinki  
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Dear Reader,

The Botanic Garden of the University of Helsinki is pleased to offer this biennial Delectus Seminum for your convenience. The garden participates in an international seed exchange between botanic institutions that has been in existence for well over a century. This exchange program is exclusively for scientific, educational, and conservation purposes and allows botanic gardens to order seeds to enrich and maintain and their scientific living collections.

All seeds and spores offered in this Delectus Seminum are collected from naturally occurring Finnish populations and they do not contain any species that are, based on our current knowledge, invasive in Europe. Botanic gardens from other parts of the world are strongly encouraged to consult recent lists of invasive plants before ordering (e.g. [https://www.eppo.int/ACTIVITIES/plant\\_quarantine/alert\\_list](https://www.eppo.int/ACTIVITIES/plant_quarantine/alert_list)).

We support the Convention on Biological Diversity and all seeds are collected in a sustainable manner not harming the viability of natural populations. Moreover, we are committed to the principles of Access and Benefit Sharing and follow the guidelines of the Nagoya Protocol. However, one should note that Finland does not restrict the use of its genetic resources on the basis of Nagoya Protocol.

The Botanic Garden of the University of Helsinki is a member of the International Plant Exchange Network (IPEN) that allows for exchange of plant material with other IPEN members without bilateral agreements. Non-IPEN members must sign the exchange agreement in the end of the Delectus Seminum.

Marko Hyvärinen  
Director (Botany and Mycology)  
Finnish Museum of Natural History

## ABBREVIATIONS AND NOMENCLATURE

W	Wild collected
G	Cultivated (garden origin)
FI-0-H-2016-0661	An example of an IPEN number. We follow International Plant Exchange Network (IPEN) Code of Conduct. Explanation: FI = country of origin, i.e. Finland; 0 = no restrictions of transfer; H = garden code, i.e. Helsinki; 2016-0661 = accession number of the garden.
U, V, InL etc.	The map on the inside back cover shows the biogeographic provinces of Finland.
WGS84	Collecting localities are located according to the international coordinate system (WGS84 Degrees Minutes Seconds).
Nomenclature	Kurtto, A., Lampinen, R., Piirainen, M., Uotila, P., Hämet-Ahti, L., Leikkonen, M., Pihlajaniemi, L., Räsänen, J., Sennikov, A., Toivonen, H. & Väre, H. 2023. Tracheophyta, vascular plants. – In: FinBIF 2023. The FinBIF checklist of Finnish species 2022 – Finnish Biodiversity Information Facility, Finnish Museum of Natural History, University of Helsinki, Helsinki.

## STORAGE CONDITIONS

The seeds of Finnish plants have been collected from natural populations as of year 2014. They were sampled and processed according to the Millennium Seed Bank Partnership Standards for long term conservation (<http://brahmsonline.kew.org/Content/Projects/msbp/resources/Training/MSBP-Seed-Conservation-Standards.pdf>). The spores of the pteridophytes and the micro seeds of *Orthilia secunda* were sampled year 2023 and stored at +5°C. *Victoria cruziana* seeds from glasshouses collected years 2022 and 2023 are kept in cool water.

## ORDERING

Exchange of material is only possible with botanic gardens, universities and comparable scientific institutions which act in terms of the International Convention of Biological Diversity (Rio de Janeiro, 1992). We follow the IPEN Code of Conduct <https://www.bgci.org/our-work/inspiring-and-leading-people/policy-and-advocacy/access-and-benefit-sharing/the-international-plant-exchange-network/>. A crucial principle of the IPEN is that the material is used non-commercially in scientific research, education, conservation activities and raising public awareness. IPEN members may order material specifying only their IPEN acronym, but non-IPEN members must sign the exchange agreement in the end of the Delectus Seminum.

Requests are strongly preferred via the new platform BGCi Index Seminum <https://indexseminum.bgci.org/catalogue/university-of-helsinki-botanic-garden/delectus-seminum-2023>. Alternatively, you can request seeds by sending an e-mail to [hortus-botanicus@helsinki.fi](mailto:hortus-botanicus@helsinki.fi), but e-mail requests will be set aside in the order received and filled last. The deadline for the requests is **January 31, 2024** and dispatch will start in February. Please note that we cannot provide phytosanitary certificates. Contact Finnish Food Authority if you need one for importing seeds <https://www.ruokavirasto.fi/en/themes/import-and-export/export/contact-information/>.

# I SEEDS AND SPORES COLLECTED FROM FINLAND

## POLYPODIOPHYTINA

### POLYPODIOPSISIDA

#### Athyriaceae

##### **W** Fi-0-H-2023-0167 *Athyrium filix-femina* (L.) Roth

Finland, U, Kauniainen, Gallträsk. The spruce mire SW of Lake Gallträsk. WGS84 60°13'01"N 24°43'34"E. Fern spruce mire. Associated species: *Picea abies*, *Sorbus aucuparia*, *Phegopteris connectilis*, *Dryopteris carthusiana*, *D. expansa*, *Equisetum sylvaticum*, *Vaccinium myrtillus*, *Lysimachia vulgaris*. Population size: abundant. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-16.

#### Dryopteridaceae

##### **W** Fi-0-H-2023-0166 *Dryopteris carthusiana* (Vill.) H. P. Fuchs

Finland, U, Kauniainen, Gallträsk. The spruce mire SW of Lake Gallträsk. WGS84 60°13'01"N 24°43'34"E. Fern spruce mire. Associated species: *Picea abies*, *Sorbus aucuparia*, *Phegopteris connectilis*, *D. expansa*, *Athyrium filix-femina*, *Equisetum sylvaticum*, *Vaccinium myrtillus*, *Lysimachia vulgaris*. Population size: abundant. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-16.

##### **W** Fi-0-H-2023-0164 *Dryopteris expansa* (C. Presl) Fraser-Jenk. & Jermy

Finland, U, Kauniainen, Gallträsk. The spruce mire SW of Lake Gallträsk. WGS84 60°13'01"N 24°43'34"E. Fern spruce mire. Associated species: *Picea abies*, *Sorbus aucuparia*, *Dryopteris carthusiana*, *Phegopteris connectilis*, *Athyrium filix-femina*, *Equisetum sylvaticum*, *Vaccinium myrtillus*, *Lysimachia vulgaris*. Population size: abundant. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-16.

##### **W** FI-0-H-2023-0173 *Dryopteris filix-mas* (L.) Schott

Finland, U, Espoo, Sorlampi. Along a forest road c. 350 m SE of Lake Sorlampi and W of Isosuo Mire. WGS84 60°15'11.7"N 24°37'24.7"E. Forest road verge close to a spruce mire. Associated species: *Picea abies*, *Oxalis acetosella*, *Rubus saxatilis*, *Calamagrostis arundinacea*, *Phegopteris connectilis*. Population size: scattered. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-17.

#### Equisetaceae

##### **W** FI-0-H-2023-0124 *Equisetum fluviatile* L.

Finland, U, Kauniainen, Gallträsk. SE shore of Lake Gallträsk, next to a gravel path. WGS84 60°13'03.9"N 24°43'58.8"E. Eutrophic lake shore. Associated species: *Lysimachia vulgaris*, *Iris pseudacorus*, *Solanum dulcamara*, *Athyrium filix-femina*. Population size: hundreds of shoots. Hundreds of shoots on the shore and in the shallow water with a span of 10 m, mostly infertile. Coll. Miranto, Mari, 2023-06-14.

#### Ophioglossaceae

##### **W** FI-0-H-2023-0156 *Ophioglossum vulgatum* L.

Finland, U, Helsinki, Seurasaari. Seurasaari Island, Open-Air Museum, the seashore E of the Niemelä Tenant Farm. WGS84 60°10'57.7"N 24°53'20.7"E. A narrow zone of mostly bare soil 1.5 m of the waterline. Associated species: *Filipendula ulmaria*. Population size: 20 fronds. Spores mostly dispersed and fronds withered, all the spores captured probably from 1-2 fronds. Coll. Miranto, Mari, 2023-07-14.

#### Polypodiaceae

##### **W** FI-0-H-2023-0172 *Polypodium vulgare* L.

Finland, U, Espoo, Sorlampi. C. 300 m SE of Lake Sorlampi, W of Isosuo Mire and the forest road. WGS84 60°15'14.4"N 24°37'22.3"E. Mossy rock in in a heath forest. Associated species: *Vaccinium vitis-idaea*. Population size: scattered. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-17.

## **Thelypteridaceae**

### **W FI-0-H-2023-0165 *Phegopteris connectilis* (Michx.) Watt**

Finland, U, Kauniainen, Gallträsk. The spruce mire SW of Lake Gallträsk. WGS84 60°13'01"N 24°43'34"E. Fern spruce mire. Associated species: *Picea abies*, *Sorbus aucuparia*, *Dryopteris carthusiana*, *D. expansa*, *Athyrium filix-femina*, *Equisetum sylvaticum*, *Vaccinium myrtillus*, *Lysimachia vulgaris*. Population size: abundant. Collected a couple of fronds. Coll. Miranto, Mari, 2023-08-16.

## **SPERMATOPHYTINA**

### **MAGNOLIOPSIDA**

## **Alismataceae**

### **W FI-0-H-2019-0220 *Alisma plantago-aquatica* L.**

Finland, U, Espoo, Oittaa, Bodom, Hästberget. W shore of cape "Murhaniemi" of Lake Bodom. WGS84 60°14'34.4"N 24°39'56.2"E. Crack of rock on a eutrophic lake shore. Associated species: *Alnus glutinosa*, *Frangula alnus*, *Solanum dulcamara*, *Convolvulus sepium*, *Lysimachia vulgaris*. Population size: 8 shoots. Collecting area 0.5 m<sup>2</sup>, seeds sampled from 8 shoots, proportion of seed-bearing shoots 100%. Coll. Miranto, Mari, 2019-08-23.

## **Amaranthaceae**

### **W FI-0-H-2019-0229 *Atriplex praecox* Hülpf.**

Finland, U, Espoo, Knapperskär. Knapperskär Island, the shore W of the pier. WGS84 60°05'12.6"N 24°44'29.8"E. Partly sandy shingle seashore. Associated species: *Rumex crispus*, *Crambe maritima*, *Fallopia dumetorum*, *Cakile maritima*, *Leymus arenarius*. Population size: 20 shoots. Seeds partly still immature. Coll. Miranto, Mari, 2019-09-06.

## **Amaryllidaceae**

### **W FI-0-H-2019-0231 *Allium schoenoprasum* subsp. *schoenoprasum* var. *schoenoprasum* L.**

Finland, U, Espoo, Knapperskär. Knapperskär Island, S shore. WGS84 60°05'8"N 24°44'32"E. Rocky island in outer archipelago, coastal boulder and shingle shore. Associated species: *Rhinanthus angustifolius* subsp. *grandiflorus*, *Rubus saxatilis*, *Phalaroides arundinacea*. Population size: >500<1000 shoots. Seeds sampled from 450 shoots, most already partly dispersed. Coll. Miranto, Mari; Björk, Heikki, 2019-09-06.

## **Apiaceae**

### **W FI-0-H-2017-0425 *Angelica archangelica* subsp. *archangelica* L.**

Finland, InL, Utsjoki. E side of the road Utsjoentie between Korretoja and Mieraslompola, along the brook Ivvánasjohka. WGS84 69°36'28.7"N 27°10'46.0"E. Brookside. Associated species: *Parnassia palustris*. Population size: tens of shoots, mostly sterile. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

### **W FI-0-H-2023-0185 *Angelica sylvestris* L.**

Finland, U, Espoo, Koivuhovi, Ymmersta, Ullantorppa. The wasteland area bordered by gravel paths and the road Ullanmäentie, 100 m S of the railway. WGS84 60°12'22.5"N 24°42'00"E. Wasteland scrub. Associated species: *Rubus idaeus*, *Chamaenerion angustifolium*, *Cirsium arvense*, *Elytrigia repens*. Population size: 18 fertile individuals. 5 fertile individuals already dispersed, 2 still immature. Coll. Miranto, Mari, 2023-09-06.

### **W FI-0-H-2016-0554 *Laserpitium latifolium* L.**

Finland, A, Lemland, Nätö. Nätö nature conservation area, Nygård house. WGS84 60°02'49"N 19°58'31"E. On a yard close to a herb-rich wooded meadow. Population size: 10 shoots. Coll. Miranto, Mari, 2016-09-01.

### **W FI-0-H-2020-0282 *Ligusticum scoticum* L.**

Finland, U, Espoo, Kaparen. Kaparen Island, the shore of the little bay on in the middle of the island, on E shore. WGS84 60°4' 51.5"N 24° 40'31.1"E. On the edge of a seashore meadow, on accumulated *Phragmites australis* washed to the shore. Associated species: *Rumex crispus*, *R. aquaticus*, *Tanacetum vulgare*. Population size: 35. 10 seed-bearing stems still immature. Coll. Miranto, Mari, 2020-08-04.

**W FI-0-H-2014-0662 *Peucedanum palustre* (L.) Moench**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, from Vetokannas to the area NE from the field station of the Finnish Maritime Administration (WGS84:59°59'08.8"N 24°24'38.9"E - 59°58'44.6"N 24°23'35.2"E). WGS84 59°59'08.8"N 24°24'38.9"E. Cracks of seashore rock. Population size: scarce. Scattered along the coast with a span of a few hundred meters. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Pehkonen, Pertti; Ali-Mattila, Anna; Wikström-Tuominen, Reetta, 2014-09-02.

**Apocynaceae**

**W FI-0-H-2015-0656 *Vincetoxicum hirundinaria* Medik.**

Finland, V, Kemiönsaari, Örö. Örö Island, SW part of the island, on the dry meadow next to the radar tower. WGS84 59°48'25"N 22°18'56"E. Dry meadow. Population size: >100<500 shoots. Coll. Rytteri, Terhi, 2015-09-08.

**Araceae**

**W FI-0-H-2019-0233 *Calla palustris* L.**

Finland, U, Espoo, Sorlampi. The bog between Lakes Pikku Sorlampi and Sorlampi. WGS84 60°15'34"N 24°36'51"E. Inland swamp shore. Associated species: *Calamagrostis phragmitoides*, *Sphagnum* spp. Coll. Miranto, Mari, 2019-09-08.

**Asparagaceae**

**W FI-0-H-2016-0689 *Convallaria majalis* L.**

Finland, U, Helsinki, Käpylä. The wood surrounding the rock outcrop at the W end of the road Kimmontie. WGS84 60°12'37"N 24°56'18"E. Mixed forest. Population size: large clone. Proportion of seed-bearing ramets 20-50%. Coll. Hyrkäs, Noora, 2016-09-04.

**W FI-0-H-2018-0231 *Polygonatum odoratum* (Mill.) Druce**

Finland, V, Parainen, Mielisholm, Gloen. WGS84 60°13'21.1500"N 22°19'25.6800"E. Dry rocky meadow. Associated species: *Juniperus communis*, *Pinus sylvestris*, *Sorbus aucuparia*, *Convallaria majalis*, *Fragaria vesca*, *Viscaria vulgaris*, *Geranium sanguineum*, *Polypodium vulgare*. Population size: scattered. Coll. Lindholm, Mikael, 2018-09-10.

**W FI-0-H-2016-0538 *Polygonatum odoratum* (Mill.) Druce**

Finland, U, Helsinki, Käpylä. The rock outcrop at the W end of the road Kimmontie, W-facing slope. WGS84 60°12'37"N 24°56'18"E. Open rock outcrop area with few scattered trees. Associated species: *Pinus sylvestris*, *Sorbus aucuparia*, *Hylotelephium telephium*, *Avenella flexuosa*, *Anthoxanthum odoratum*. Coll. Hyrkäs, Noora, 2016-09-04.

**Asteraceae**

**W FI-0-H-2018-0205 *Centaurea jacea* L.**

Finland, V, Parainen, Mielisholm, Gloen. WGS84 60°13'18.4200"N 22°19'36.4800"E. Dry road verge. Associated species: *Prunus padus*, *Rosa dumalis*, *Ribes alpinum*, *Vicia cracca*, *Lathyrus pratensis*, *Galium boreale*, *G. verum*. Population size: common. Coll. Lindholm, Mikael, 2018-08-18.

**W FI-0-H-2018-0207 *Galatella tripolium* (L.) Galasso, Bartolucci & Ardenghi**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'23.7120"N 22°19'13.8600"E. Seashore alluvial meadow. Associated species: *Phragmites australis*, *Plantago maritima*, *Honckenya peploides*, *Lysimachia maritima*, *L. vulgaris*, *Valeriana excelsa* subsp. *salina*. Population size: locally common. Coll. Lindholm, Mikael, 2018-08-18.

**W FI-0-H-2016-0474 *Lactuca muralis* (L.) Gaertn.**

Finland, U, Helsinki, Länsi-Pasila, Ruskeasu. Central Park between Länsi-Pasila and Ruskeasu, W of the Horse riding school Keskustallin Ratsastuskoulu and sporadically 300 m N along the track until the allotment garden. WGS84 60°11'58"N 24°55'01"E. Herb-rich heath forest. Associated species: *Oxalis acetosella*, *Maianthemum bifolium*, *Lysimachia europaea*, *Paris quadrifolia*, *Chamaenerion angustifolium*, *Rubus*



*idaeus*, *Chelidonium majus*, *Dryopteris carthusiana*. Population size: 10-25 shoots. Coll. Miranto, Mari; Huotari, Essi, 2016-07-19.

**W FI-0-H-2019-0234 *Pentanema salicinum* (L.) D. Gut. Larr., Santos-Vicente, Anderb., E. Rico & M. M. Mart. Ort.**

Finland, EK, Hamina, Pappilansaaret, Takasaari. SW part of Takasaari Island. WGS84 60°33'25"N 27°11'44"E. Seashore meadow, grazed. Associated species: *Lysimachia vulgaris*, *Lythrum salicaria*, *Deschampsia cespitosa*. Population size: >500<1000 shoots. Coll. Miranto, Mari; Rytteri, Terhi, 2019-09-17.

**W FI-0-H-2016-0471 *Pilosella officinarum* F.W.Schultz & Sch.Bip.**

Finland, U, Helsinki, Käpylä. N embankment of Käpylä railway station. WGS84 60°13'16"N 24°56'51"E. Open sun-exposed, rocky railway embankment. Associated species: *Pilosella* spp., *Hieracium* spp., *Trifolium* spp. Population size: >500<1000 scapes. Proportion of seed-bearing individuals 50-80%. Coll. Hyrkäs, Noora, 2016-06-30.

**W FI-0-H-2019-0232 *Solidago virgaurea* subsp. *virgaurea* L.**

Finland, U, Espoo, Knapperskär. Knapperskär Island. WGS84 60°05'12"N 24°44'30"E. Rocky island in outer archipelago. Associated species: typical seashore and rock outcrop species, e.g., *Veronica longifolia* var. *maritima* and *Rumex acetosella*. Population size: 400 shoots. Coll. Miranto, Mari, 2019-09-06.

**W FI-0-H-2019-0227 *Sonchus arvensis* var. *maritimus* Wahlenb.**

Finland, U, Espoo, Knapperskär. Knapperskär Island, SW and S shore. WGS84 60°05'9"N 24°44'27"E. Rocky island in outer archipelago, coastal boulder shore. Associated species: *Lathyrus maritimus*, *Rubus saxatilis*, *Phalaroides arundinacea*. Population size: 40 shoots. Seeds sampled from 15 shoots, most either already dispersed or still blooming. Coll. Miranto, Mari, 2019-09-06.

## **Betulaceae**

**W FI-0-H-2016-0799 *Alnus glutinosa* (L.) Gaertn.**

Finland, U, Espoo, Moisö. The coastline on both sides of the bridge connecting the islands Moisö and Ramsö, in the span of 500 m. WGS84 60°06'57"N 24°41'45"E. Lush, sheltered herb-rich coastal forest. Associated species: *Pinus sylvestris*, *Picea abies*, *Prunus padus*, *Acer platanoides*, *Juniperus communis*, *Ribes alpinum*, *Rubus idaeus*, *Filipendula ulmaria*, *Phragmites australis*, *Rubus saxatilis*, *Asarum europaeum*. Population size: >100<500 trees. Coll. Lindholm, Mikael; Huotari, Essi, 2016-10-06.

**W FI-0-H-2017-0412 *Alnus incana* subsp. *kolaënsis* (N. I. Orlova) Á. Löve & D. Löve**

Finland, InL, Utsjoki, Pulmankijärvi. W shore of Lake Pulmankijärvi, 1 km S of the River Jääräjoki. WGS84 69°59'54.42"N 27°58'15.53"E. Stony, flooding lake shore, on a narrow zone close to the waterline. Associated species: *Juniperus communis*, *Betula* sp., *Cornus suecica*, *Vaccinium myrtillus*, *Trollius europaeus*, *Alchemilla* sp. Population size: thousands of bushes. Collecting area <5000 m<sup>2</sup>, population size thousands of bushes around the lake, tens of bushes on the collection site. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2016-0812 *Alnus incana* subsp. *incana* (L.) Moench**

Finland, EH, Kuhmoinen. The shore of Lake Päijänne and the field verge E of the road Laivasillantie and S of the road Kotalahdentie. WGS84 61°34'20"N 25°24'1"E. Lake shore thicket and dryish, rocky field edge. Associated species: *Betula pendula*, *Betula pubescens*, *Populus tremula*, *Alnus glutinosa*, *Picea abies*, *Frangula alnus*, *Sorbus aucuparia*, *Salix caprea*, *Salix pentandra*, *Salix* spp., *Ribes alpinum*. Population size: hundreds of trees. Coll. Lindholm, Mikael, 2016-10-16.

**W FI-0-H-2018-0228 *Betula pendula* var. *pendula* Roth**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'24.0780"N 22°19'16.4400"E. Forest edge close to the seashore. Associated species: *Fraxinus excelsior*, *Juniperus communis*, *Alnus glutinosa*, *Prunus padus*, *Pinus sylvestris*, *Sorbus aucuparia*, *Viburnum opulus*, *Rosa caesia*, *R. dumalis*, *R. mollis*. Population size: common. Coll. Lindholm, Mikael, 2018-09-10.

## **Brassicaceae**

**W FI-0-H-2015-0662 *Crambe maritima* L.**

Finland, V, Kemiönsaari, Öro. Öro Island, S part of the W shore. WGS84 59°48'14"N 22°18'31"E. Sandy

seashore. Population size: 100 shoots. Proportion of seed-bearing shoots <50%. Coll. Ryttyäri, Terhi, 2015-09-09.

**W FI-0-H-2020-0236 *Isatis tinctoria* L.**

Finland, U, Espoo, Westend. Along the hiking and cycling route Rantaraitti, 20 m W of the pier. WGS84 60°09'29.9"N 24°47'45.5"E. Rocky seashore and gravel road verge. Associated species: *Tanacetum vulgare*, *Senecio viscosus*, *Artemisia vulgaris* var. *coarctata*, *Valeriana excelsa* subsp. *salina*, *Phalaroides arundinacea*. Population size: 27 fertile individuals + c. 25 rosettes. Biennial, seeds collected from 25 fertile individuals, seeds of two individuals still immature. Coll. Miranto, Mari; Miranto, Antti, 2020-07-25.

**W FI-0-H-2020-0229 *Thlaspi arvense* L.**

Finland, U, Espoo, Espoon keskus. 50 m SE of the roundabout. WGS84 60°12'15.7"N 24°39'48.6"E. Wasteland. Associated species: *Tripleurospermum inodorum*, *Erysimum cheiranthoides*, *Chenopodium album*, *Myosotis arvensis*, *Galeopsis bifida*. Population size: 100. Coll. Miranto, Mari, 2020-07-13.

**W FI-0-H-2020-0230 *Turritis glabra* L.**

Finland, U, Espoo, Espoon keskus. 20 m W of the junction of the roads Kirkkojärventie and Kotikyläntie, between the road Kirkkojärventie and railway tracks. WGS84 60°12'25.5"NN 24°39'57"EE. Railway embankment. Associated species: *Centaurea jacea*, *Potentilla norvegica*, *P. argentea* group, *Achillea millefolium*, *Artemisia vulgaris* var. *vulgaris*, *Tanacetum vulgare*, *Agrostis capillaris*. Population size: 50 fertile individuals (partly immature). Biennial plant, the first year rosettes were not counted. Coll. Miranto, Mari, 2020-07-18.

**Campanulaceae**

**W FI-0-H-2018-0206 *Campanula persicifolia* L.**

Finland, V, Parainen, Mielisholm, Smedsudden. . WGS84 60°13'24.4920"N 22°19'18.1740"E. Open herb-rich site. Associated species: *Fraxinus excelsior*, *Juniperus communis*, *Viburnum opulus*, *Rosa caesia*, *R. dumalis*, *R. mollis*, *Fragaria vesca*, *Galium verum*. Population size: common. Coll. Lindholm, Mikael, 2018-08-18.

**W FI-0-H-2018-0230 *Campanula rotundifolia* subsp. *rotundifolia* L.**

Finland, V, Parainen, Mielisholm, Gloen. WGS84 60°13'18.6480"N 22°19'32.7720"E. Dry meadowish surroundings of a forest stand. Associated species: *Rosa dumalis*, *R. caesia*, *R. mollis*, *Ribes alpinum*, *Fragaria vesca*, *Galium verum*, *Achillea ptarmica*, *Platanthera bifolia*. Population size: common. Coll. Lindholm, Mikael, 2018-09-10.

**W FI-0-H-2016-0503 *Lobelia dortmanna* L.**

Finland, U, Espoo, Saarijärvi. The public beach of Lake Saarijärvi, in shallow water. WGS84 60°19'53N 24°36'39E. Oligotrophic clear-watered lake, sandy bottom. Population size: >1000 scapes. Coll. Miranto, Mari; Lindholm, Mikael, 2016-08-17.

**Caprifoliaceae**

**W FI-0-H-2016-0481 *Lonicera xylosteum* L.**

Finland, V, Vihti, Salmi. Salmi recreation area, mainly on the W side of the hiking track (two bushes on the E side), c. 250 m N of the NE end of Lake Poikkipuoliainen and one distinct bush further 300 m NE along the track. WGS84 60°22'25"N 24°28'55"E. Herb-rich spruce-dominated heath forest patches on the verge of a hiking track. Associated species: *Ribes alpinum*, *Convallaria majalis*, *Dryopteris carthusiana*, *Hepatica nobilis*, *Calamagrostis arundinacea*, *Dryopteris flix-mas*, *Acer platanoides*, *Mycelis muralis*, *Prunus padus*, *Ranunculus reptans*, *Oxalis acetosella*. Population size 40 shoots + 1 bush, seeds sampled from c. 30 + 1 shoots. Coll. Miranto, Mari, 2016-07-27.

**W FI-0-H-2014-0653 *Succisa pratensis* Moench**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Cracks of seashore rock. Population size: scarce. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2016-0505 *Valeriana excelsa* subsp. *sambucifolia* (Pohl) Holub**

Finland, V, Lohja, Karkali. The verge of the road Karkalintie, 500 m E of the parking lot of the Karkali Strict Nature Reserve. WGS84 60°14'48"N 23°49'16"E. Lush, half-open gravel road verge. Associated species: *Corylus avellana*, *Juniperus communis*, *Filipendula ulmaria*, *Stachys sylvatica*, *Aegopodium podagraria*, *Urtica dioica*, *Pteridium aquilinum* subsp. *pinetorum*. Population size: 25-50 shoots. Proportion of seed-bearing shoots >90%. Coll. Miranto, Mari; Lindholm, Mikael, 2016-08-17.

**W FI-0-H-2016-0494 *Valeriana officinalis* L.**

Finland, U, Espoo, Leppävaara. The cycle path verge running parallel to the road Vanha Turuntie in the span of 100 m, and the edge of the field 400 m E of the Mormon temple. WGS84 60°13'26"N 24°47'18"E. Field and cycle path verge. Associated species: *Aegopodium pogagraria*, *Poa pratensis*, *Festuca rubra*, *Equisetum arvense*. Population size: 25-50 shoots. Proportion of seed-bearing shoots 50% (partly still blooming). Coll. Miranto, Mari, 2016-07-29.

**Caryophyllaceae**

**W FI-0-H-2017-0349 *Arenaria serpyllifolia* L.**

Finland, V, Parainen, Mälhamn. Mälhamn Island. WGS84 60°2'25.059"N 21°48'26.785"E. Rocky, dry meadow on a S-facing slope. Population size: >1000 shoots. Proportion of seed-bearing shoots >90% (annual species). Coll. Reinikainen, Martina, 2017-08-08.

**W FI-0-H-2017-0281 *Cerastium alpinum* subsp. *alpinum* L.**

Finland, InL, Utsjoki, Isonkivenvaara. Between the road Pulmankijärventie and Lake Heikkovarjavri. WGS84 70°3'3.7"N 27°53'37"E. Road verge. Population size: common. Widely spread on the road verges, seeds sampled from 11 spots. Coll. Anttila, Aino; Lindholm, Mikael, 2017-08-04.

**W FI-0-H-2017-0422 *Dianthus superbus* L.**

Finland, PeP, Kemijärvi, Tapioniemi. Along the road Sodankyläntie (road number 5), next to a bridge crossing the River Kemijoki (Peuramukka). WGS84 66°55'01"N 27°26'54"E. Riverbank and roadside verge. Associated species: *Silene dioica*. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-22.

**W FI-0-H-2016-0779 *Honckenya peploides* (L.) Ehrh.**

Finland, EK, Kotka, Vanhakylänmaa. Vanhakylänmaa Island. WGS84 60°17'14"N 27°8'9"E. W-facing sandy seashore in the outer archipelago. Associated species: *Lathyrus maritimus*. Population size: >1000 shoots. Proportion of seed-bearing shoots 20%. Coll. Rytteri, Terhi, 2016-09-22.

**W FI-0-H-2017-0426 *Honckenya peploides* (L.) Ehrh.**

Finland, PeP, Kemi, Ajos, Korostennokka. WGS84 65°39'57"N 24°36'3.6"E. Sandy seashore. Associated species: *Salix* spp., *Betula* sp., *Hippophaë rhamnoides*, *Myrica gale*, *Veronica longifolia*, *Leymys arenarius*, *Thalictrum flavum*, *Primula nutans* subsp. *finmarchica* var. *jokelae*, *Achillea ptarmica*. Population size: common. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-23.

**W FI-0-H-2023-0151 *Moehringia trinervia* (L.) Clairv.**

Finland, U, Espoo, Niipperi. The area N of a parking lot, W of the Brook Niipperinoja, S of a field and E of the nature reserve of Niipperinpelto herb-rich forest. WGS84 60°16'50"N 24°44'17"E. Lush brookside meadow and herb-rich forest. Associated species: *Convallaria majalis*, *Lapsana communis*, *Filipendula ulmaria*, *Noccaea caerulescens*, *Poa nemoralis*. Population size: abundant. Annual species, seeds collected from 30 spots scattered in the area. Coll. Miranto, Mari, 2023-07-11.

**W FI-0-H-2017-0283 *Silene dioica* (L.) Clairv.**

Finland, PeP, Kemijärvi, Tapioniemi. Along the road Sodankyläntie (road number 5), next to a bridge crossing the River Kemijoki (Peuramukka). WGS84 66°55'01"N 27°26'54"E. Riverbank and roadside verge. Associated species: *Dianthus superbus*. Population size: abundant. Coll. Lindholm, Mikael; Anttila, Aino, 2017-08-03.

**W FI-0-H-2018-0177 *Silene flos-cuculi* (L.) Greuter & Burdet**

Finland, PeP, Tervola, Kurvila. Along road 4 (E75). WGS84 66°08'9.2"N 24°55'39.6"E. Road verge. Associated species: *Dactylorhiza maculata*, *D. incarnata*, *Silene dioica*, *Parnassia palustris*, *Trifolium pratense*, *Dianthus superbus*, *Equisetum* sp. Population size: hundreds of shoots. Coll. Lindholm, Mikael, 2018-08-01.

**W FI-0-H-2017-0339 *Silene flos-cuculi* (L.) Greuter & Burdet**

Finland, U, Helsinki, Ängskulla. Brookside, 100 m W of the road Puroniityntie and 500 m N of the road Porvoonväylä. WGS84 60°16'36"N 25°14'9"E. Lush brookside. Associated species: *Ribes nigrum*, *Ribes spicatum* subsp. *spicatum*, *Impatiens glandulifera*, *Deschampsia cespitosa*, *Equisetum sylvaticum*. Population size: 3 shoots. Coll. Miranto, Mari, 2017-08-10.

**W FI-0-H-2018-0179 *Silene vulgaris* subsp. *vulgaris* var. *littoralis* (Rupr.) Jalas**

Finland, U, Kirkkonummi, Stora Brändö. Stora Brändö Island, NW shore. WGS84 60°02'44.6"N 24°35'47.5"E. Coastal shingle shore. Associated species: *Alnus glutinosa*, *Phalaroides arundinacea*, *Lysimachia maritima*. Population size: scattered. Coll. Miranto, Mari, 2018-08-18.

**W FI-0-H-2020-0238 *Spergularia rubra* (L.) J. Presl & C. Presl**

Finland, U, Espoo, Espoon keskus. 30 m W of the junction of the roads Kirkkojärventie and Kotikyläntie, between the road Kirkkojärventie and railway tracks. WGS84 60°12'25.5"N 24°39'57"E. Gravel road and railway embankment. Associated species: *Matricaria discoidea*, *Trifolium repens*, *Tripleurospermum inodorum*, *Erigeron canadensis*, *Polygonum aviculare*. Population size: 100. Seed sampled from 17 individual 20.7. and from 15 individuals 11.9. (collecting area only 1 m<sup>2</sup>, partly overlapping with the first collection). Coll. Miranto, Mari, 2020-07-20.

**W FI-0-H-2016-0472 *Stellaria nemorum* L.**

Finland, U, Helsinki, Oulunkylä, Koskela, Vantaanjoki. W side of the River Vantaanjoki, patchy occurrence from the riverbank to the area N of the school. WGS84 60°13'17"N 24°58'16"E. Herb-rich riverside forest and spruce forest. Associated species: *Prunus padus*, *Lonicera xylosteum*, *Geum rivale*, *Geum urbanum*, *Impatiens noli-tangere*. Population size: >1000 shoots. Proportion of seed-bearing shoot 50-80%. Coll. Hyrkäs, Noora, 2016-06-30.

**W FI-0-H-2017-0344 *Viscaria vulgaris* Bernh.**

Finland, V, Lohja, Lohjansaari. Suninhaka/Kokkila dry meadow. WGS84 60°11'9"N 24°0'32"E. Dry meadow. Associated species: *Acinos arvensis*, *Linum catharticum*. Population size: 50-100 shoots. Coll. Rytteri, Terhi; Reinikainen, Martina, 2017-08-04.

**Celastraceae**

**W FI-0-H-2017-0427 *Parnassia palustris* L.**

Finland, InL, Utsjoki. E side of the road Utsjoentie between Korretoja and Mieraslompola, along the Brook Ivvánasjohka. WGS84 69°36'28.7"N 27°10'46.0"E. Brookside. Associated species: *Angelica archangelica* subsp. *archangelica*. Population size: tens of shoots. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

**W FI-0-H-2016-0664 *Parnassia palustris* L.**

Finland, A, Eckerö, Holmträsket. The verge of the narrow gravel road leading to Lake Holmträsket. WGS84 60°15'09"N 19°37'11"E. Small forest road verge. Associated species: ruderate species, e.g., *Tussilago farfara*. Population size: 50-100 shoots. Proportion of seed-bearing shoots 50-80 % (still blooming). Coll. Väre, Henry; Miranto, Mari; Lindholm, Mikael, 2016-09-01.

**Convolvulaceae**

**W FI-0-H-2016-0501 *Cuscuta europaea* subsp. *europaea* L.**

Finland, U, Helsinki, Kumpula. The meadow between the Kumpula Botanic Garden and the Kumpula Campus. WGS84 60°12'10"N 24°57'32"E. Seminatural mesic grassland, yearly mown. Hosts *Urtica dioica* and *Aegopodium podagraria*. Population size: locally abundant. Coll. Hyrkäs, Noora, 2016-08-15.

**Cornaceae**

**W FI-0-H-2017-0394 *Cornus suecica* L.**

Finland, InL, Utsjoki, Pulmankijärvi, Jääräjoki. S bank of the River Jääräjoki in the span of 500 m. WGS84 70°0'22.48"N 27°57'39.94"E. Bank of a strongly flowing river and the vicinity. Moist alpine meadow and mountain birch scrub dominated by *Betula pubescens* subsp. *czerepanovii*. Associated species: *Juniperus communis* subsp. *nana*, *Betula nana*, *Sorbus aucuparia*, *Vaccinium uliginosum*, *Rhododendron tomentosum*, *Saussurea alpina*, *Alchemilla* sp., *Thalictrum* sp. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

## Crassulaceae

### W FI-0-H-2018-0272 *Hylotelephium telephium* subsp. *maximum* (L.) H. Ohba

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'24.3540"N 22°19'15.1980"E. Dry, rocky meadow. Associated species: *Juniperus communis*, *Sorbus aucuparia*, *Convallaria majalis*, *Fragaria vesca*, *Campanula rotundifolia*, *Viscaria vulgaris*, *Viola arvensis*, *Polygonatum odoratum*, *Polypodium vulgare*. Population size: scattered. Coll. Lindholm, Mikael, 2018-10-28.

## Cyperaceae

### W FI-0-H-2019-0215 *Carex echinata* Murray

Finland, U, Espoo, Sorlampi. SE shore of Lake Sorlampi. WGS84 60°15'22.0"N 24°37'12.4"E. Swamp shore of an oligotrophic lake rich in humus. Associated species: *Vaccinium uliginosum*, *V. oxycoccos*, *Rhododendron tomentosum*, *Drosera rotundifolia*. Population size: 100 shoots. Proportion of seed-bearing shoots 50-80%. Coll. Miranto, Mari, 2019-08-23.

### W FI-0-H-2016-0661 *Carex flacca* Schreb.

Finland, A, Jomala. Along the road Hammarlandsvägen, 200 m towards Eckerö of the Kungsö junction. WGS84 60°07'10"N 19°51'55"E. Calcareous edge of a spruce forest. Associated species: *Neottia nidus-avis*, *Viburnum opulus*, *Sesleria uliginosa*. Population size: 100 culms. Proportion of seed-bearing culms 50-80%. Coll. Väre, Henry; Miranto, Mari; Lindholm, Mikael, 2016-09-01.

### W FI-0-H-2015-0616 *Carex limosa* L.

Finland, EnL, Enontekiö, Maunu, Vakkojärvi. Vakkojärvi W. WGS84 68°29'31"N 22°13'03"E. Mesotrophic sedge fen. Coll. Väre, Henry; Kaipainen-Väre, Heidi, 2015-08-22.

### W FI-0-H-2016-0485 *Carex pallescens* L.

Finland, V, Vihti, Salmi. Salmi recreation area, along the road Paratiisintie, with a span of 5 m in both directions from the junction of the roads Paratiisintie and Salmen Rinteläntie. WGS84 60°22'27"N 24°29'30"E. Gravel road verge. Associated species: *Anthriscus sylvestris*, *Tussilago farfara*, *Phleum pratense*, *Trifolium pratense*, *Ranunculus acris* subsp. *acris*. Population size: scattered. Coll. Miranto, Mari, 2016-07-27.

### W FI-0-H-2014-0640 *Carex viridula* var. *pulchella* (Lönnr.) B. Schmid

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Small moist depression on seashore rock. Population size: locally abundant. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

### W FI-0-H-2023-0126 *Eriophorum vaginatum* L.

Finland, U, Espoo, Sorlampi. S shore of Lake Pikku Sorlampi and NW shore of Lake Sorlampi. WGS84 60°15'33"N 24°36'56"E. Inland swamp shore. Associated species: *Vaccinium uliginosum*, *V. myrtillus*, *V. oxycoccos*, *Rubus chamaemorus*, *Empetrum nigrum* subsp. *nigrum*, *Rhododendron tomentosum*, *Carex canescens*. Population size: hundreds of shoots. Mostly fertile. Coll. Miranto, Mari, 2023-06-20.

## Droseraceae

### W FI-0-H-2018-0235 *Drosera rotundifolia* L.

Finland, ES, Hirvensalmi, Puula, Rainiolahti. The shore of the Bay Rainiolahti of Lake Puula. WGS84 61°39'50.4720"N 26°57'35.5680"E. Shore of a sheltered bay of a lake, 30 m zone from the water line. Associated species: *Frangula alnus*, *Myrica gale*, *Chamaedaphne calyculata*, *Rhododendron tomentosum*, *V. oxycoccos*, *Dactylorhiza* sp., *Sphagnum* sp. Population size: hundreds of shoots. Coll. Lindholm, Mikael, 2018-09-15.

## Ericaceae

### W FI-0-H-2017-0390 *Arctous alpina* (L.) Nied.

Finland, SoL, Inari, Saariselkä, Urupää. Urupää Fell, W-slope, 100 m N of a parking area. WGS84 68°27'19"N 27°25'28.6"E. Road verge/fell slope. Associated species: *Antennaria dioica*, *Phyllodoce*

*caerulea*. Population size: a widespread field layer species that reproduces also vegetatively. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-22.

**W FI-0-H-2017-0393 *Arctous alpina* (L.) Nied.**

Finland, InL, Utsjoki, Pulmankijärvi, Gaddasjohka. The area between the road Pulmankijärventie and Lake Pulmankijärvi, along the River Galddasjohka. WGS84 69°59'4"N 27°58'45.6"E. Sandy and gravelly area on lake shore. Associated species: *Betula pubescens* subsp. *czerepanovii*, *Salix* spp., *Juniperus communis*, *Myricaria germanica*, *Empetrum nigrum*, *Arctostaphylos uva-ursi*, *Saxifraga aizoides*, *Oxyria digyna*, *Astragalus alpinus* subsp. *arcticus*, *Cornus suecica*. Population size: common. A widespread field layer species that reproduces also vegetatively. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2014-0701 *Calluna vulgaris* (L.) Hull**

Finland, U, Espoo, Leppävaara. Leppävaara sawdust jogging track area. WGS84 60°13'42.8"N 24°47'57.6"E. Mixed forest. Associated species: *Pinus sylvestris*, *Picea abies*, *Sorbus aucuparia*, *Luzula pilosa*, *Avenella flexuosa*, *Vaccinium vitis-idaea*, *V. myrtillus*. Population size: hundreds of dwarf shrubs. Seeds sampled from 50 dwarf shrubs, proportion of seed-bearing dwarf shrubs >90%. Coll. Miranto, Mari, 2014-10-20.

**W FI-0-H-2018-0233 *Chamaedaphne calyculata* (L.) Moench**

Finland, ES, Hirvensalmi, Puula, Rainiolahti. The shore of the Bay Rainiolahti of Lake Puula. WGS84 61°39'50.4720"N 26°57'35.5680"E. Shore of a sheltered bay of a lake, 30 m zone from the water line. Associated species: *Betula pubescens*, *Frangula alnus*, *Myrica gale*, *Rhododendron tomentosum*, *Vaccinium uliginosum*, *Empetrum nigrum*, *Drosera rotundifolia*, *Dactylorhiza* sp., *Sphagnum* spp. Population size: hundreds of shoots. Coll. Lindholm, Mikael, 2018-09-15.

**W FI-0-H-2017-0399 *Empetrum nigrum* subsp. *hermaphroditum* (Hagerup) Böcher**

Finland, InL, Inari. W side of the road Kaamasentie, the area between Lakes Sestjuvjeppi and Maadijpellastjävri. WGS84 69°18'27.5"N 27°12'26.8"E. Alpine heath, partly moist, eventually turning to a wetland, multistemmed *Betula pubescens* subsp. *czerepanovii* as the dominating species. Associated species: *Rhododendron tomentosum*, *Vaccinium vitis-idaea*, *V. myrtillus*, *Phyllodoce caerulea*, *Pinguicula* sp. Population size: common. Typical widespread species in the field layer that reproduces also vegetatively. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-22.

**W FI-0-H-2014-0665 *Empetrum nigrum* subsp. *nigrum* L.**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, three adjacent spots on 1) Vetokannas; 2) NE from the field station of the Finnish Maritime Administration; and 3) S part of Telegrafberget Hill. WGS84 59°59'08.8"N 24°24'38.9"E. Small paludified depressions and depressions with heath-like dwarf shrub vegetation. Population size: rather scarce. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2017-0419 *Kalmia procumbens* (L.) Gift, Kron & P. F. Stevens ex Galasso, Banfi & F. Conti**

Finland, InL, Utsjoki, Nuorgam. Kartoitustuistomerkki, Istumakivi Monument along the road Pulmankijärventie. WGS84 70°3'39.6"N 27°53'17.6"E. Mountain heath, vegetation badly worn out. Population size: scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2017-0408 *Kalmia procumbens* (L.) Gift, Kron & P. F. Stevens ex Galasso, Banfi & F. Conti**

Finland, InL, Utsjoki, Skalluvaara. 500 m NW of the village next to the reindeer round-up site, on both sides of the road. WGS84 69°48'54.6"N 27°10'6.7"E. Road verge. Associated species: *Phyllodoce caerulea*. Population size: common. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

**W FI-0-H-2023-0175 *Orthilia secunda* (L.) House**

Finland, U, Loviisa, Norrsarvka, Jeppas. N border of the square 6709:3450 of Kasviatlas, Atlas of the Distribution of Vascular Plants in Finland. WGS84 60°29'47.0"N 26°06'02.3"E. Rather dry heath forest. Associated species: *Pinus sylvestris*, *Vaccinium vitis-idaea*, *Melampyrum pratense*. Population size: C. 100 fertile plants. Coll. Miranto, Mari; Haapala, Jaana, 2023-08-22.

**W FI-0-H-2017-0406 *Phyllodoce caerulea* (L.) Bab.**

Finland, SoL, Inari, Saariselkä, Urupää. Urupää Fell, W-slope, 100 m N of a parking area. WGS84

68°27'19"N 27°25'28.6"E. Road verge/fell slope. Associated species: *Antennaria dioica*, *Arctous alpina*. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-22.

**W FI-0-H-2017-0405 *Phyllodoce caerulea* (L.) Bab.**

Finland, InL, Utsjoki, Skalluvaara. 500 m NW of the village next to the reindeer round-up site, on both sides of the road. WGS84 69°48'54.6"N 27°10'6.7"E. Road verge. Associated species: *Kalmia procumbens*. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

**W FI-0-H-2014-0656 *Rhododendron tomentosum* Harmaja**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'08.8"N 24°24'38.9"E. Slightly paludified forest depression in the middle of a rock outcrop. Population size: locally abundant. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2017-0423 *Rhododendron tomentosum* Harmaja**

Finland, InL, Utsjoki, Pulmankijärvi, Jääräjoki. S bank of the River Jääräjoki. WGS84 70°0'22.48"N 27°57'39.95"E. Bank of a strongly flowing river and its vicinity. Moist alpine meadow and mountain birch scrub dominated by *Betula pubescens* subsp. *czerepanovii*. Associated species: *Juniperus communis* subsp. *alpina*, *Betula nana*, *Sorbus aucuparia*, *Vaccinium uliginosum*, *Cornus suecica*, *Saussurea alpina*, *Alchemilla* sp., *Thalictrum* sp. Population size: hundreds of dwarf shrubs. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2014-0498 *Vaccinium myrtillus* L.**

Finland, U, Espoo, Luukki, Halkolampi. Luukki recreation area, 50 m SE from the Halkolampi parking area. WGS84 60°19'35.9"N 24°39'50"E. Spruce-dominated heath forest slope. Associated species: *Picea abies*, *Juniperus communis*, *Sorbus aucuparia*, *Calamagrostis arundinacea*, *Lysimachia europaea*, *Melampyrum sylvaticum*, *Calluna vulgaris*. Population size: >1000 dwarf shrubs. Coll. Miranto, Mari, 2014-07-16.

**W FI-0-H-2014-0671 *Vaccinium oxycoccos* L.**

Finland, V, Vihti, Salmi, Pehkusuo. Salmi outdoor recreation area, Pehkusuo Bog. WGS84 60°21'50.6"N 24°29'24.9"E. Bog. Population size: abundant. Mostly infertile. Coll. Miranto, Mari; Tiiri, Marita; Pulkkinen, Merja; Hägglund, Arne, 2014-09-16.

**W FI-0-H-2014-0558 *Vaccinium uliginosum* L.**

Finland, U, Espoo, Luukki, Svartmossen. Luukki recreation area, Svartmossen Bog. WGS84 60°19'50.6"N 24°39'49"E. Bog and adjacent slope. Associated species: *Rhododendron tomentosum*, *Vaccinium oxycoccos*. Population size: >100<500 dwarf shrubs. Coll. Miranto, Mari, 2014-08-07.

**W FI-0-H-2014-0661 *Vaccinium vitis-idaea* L.**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, from Vetokannas to the area NE from the field station of the Finnish Maritime Administration. WGS84 59°59'08.8"N 24°23'35.2"E. Slightly paludified forest depressions in rock outcrop along the seashore. Population size: rather scarce. Collecting area scattered with a span of a few hundred meters. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

## **Fabaceae**

**W FI-0-H-2016-0780 *Lathyrus maritimus* Bigelow**

Finland, EK, Kotka, Vanhakylänmaa. Vanhankylänmaa Island. WGS84 60°17'14"N 27°8'9"E. W-facing sandy seashore in the outer archipelago. Associated species: *Honckenya peploides*. Population size: >1000 shoots. Proportion of seed-bearing shoots 20%. Coll. Rytteri, Terhi, 2016-09-22.

**W FI-0-H-2014-0660 *Lotus corniculatus* L.**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Cracks of seashore rock. Population size: scarce. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2016-0509 *Vicia cracca* L.**

Finland, U, Helsinki, Kumpula. The meadow between the Kumpula Botanic Garden and the Kumpula Campus. WGS84 60°12'10"N 24°57'32"E. Seminatural mesic grassland, yearly mown. Associated species: *Anthriscus sylvestris*, *Urtica dioica*, *Cuscuta europaea*, *Tanacetum vulgare*, *Vicia sepium*, *Dactylis glomerata*, *Alopecurus pratensis*. Population size: 50-100 shoots. Proportion of seed-bearing shoots >90%. Coll. Hyrkäs, Noora, 2016-08-16.

**W FI-0-H-2016-0508 *Vicia sepium* L.**

Finland, U, Helsinki, Kumpula. The meadow between the Kumpula Botanic Garden and the Kumpula Campus. WGS84 60°12'10"N 24°57'32"E. Seminatural mesic grassland, yearly mown. Associated species: *Anthriscus sylvestris*, *Urtica dioica*, *Cuscuta europaea*, *Tanacetum vulgare*, *Vicia cracca*, *Dactylis glomerata*, *Alopecurus pratensis*. Population size: 25-50 shoots. Collecting area a couple of square meters. Coll. Hyrkäs, Noora, 2016-08-16.

**Gentianaceae**

**W FI-0-H-2015-0655 *Centaurium littorale* (Turner) Gilmour**

Finland, V, Kemiönsaari, Örö, Balget. Örö Island, S shore of the cape E of the Bay Balget. WGS84 59°48'17"N 22°19'55"E. Seashore meadow. Population size: 25-50 adult plants on the site, thousands of shoots on the whole island. Coll. Rytteri, Terhi, 2015-09-08.

**W FI-0-H-2017-0360 *Centaurium littorale* (Turner) Gilmour**

Finland, V, Rauma, Ketoloutto. Ketoloutto Island. WGS84 61°8'9"N 21°20'22.2"E. Seashore meadow. Population size: >100<500 shoots. Coll. Rytteri, Terhi; Reinikainen, Martina, 2017-08-24.

**Grossulariaceae**

**W FI-0-H-2015-0567 *Ribes alpinum* L.**

Finland, V, Parainen, Mielisholm, Gloen. WGS84 60°13'17"N 22°19'21"E. Edge of a clear-cut. Associated species: *Sorbus aucuparia*, *Betula pubescens*, *Populus tremula*, *Juniperus communis*, *Rubus idaeus*. Population size: 200 bushes. Proportion of seed-bearing bushes 40% (dioecious species). Coll. Lindholm, Mikael; Anttila, Aino, 2015-08-10.

**Hypericaceae**

**W FI-0-H-2014-0670 *Hypericum maculatum* Crantz**

Finland, V, Vihti, Salmi. Salmi outdoor recreation area. Narrow strip of meadow by a footpath. WGS84 60°22'18.5"N 24°29'09.3"E. Meadow. Associated species: *Campanula cervicaria*, *Hieracium umbellatum*. Population size: 50-100 shoots. Coll. Miranto, Mari; Tiiri, Marita; Pulkkinen, Merja; Hägglund, Arne, 2014-09-16.

**W FI-0-H-2023-0188 *Hypericum perforatum* L.**

Finland, U, Helsinki, Mustikkamaa. SW part of Mustikkamaa Island, close to the bridge leading to Korkeasaari Island. WGS84 60°10'45.5"N 24°58'58"E. Shingle seashore and footpath verge. Associated species: *Tanacetum vulgare*, *Rumex crispus*. Population size: 50. Great part of the population still immature. Coll. Miranto, Mari, 2023-09-08.

**Juncaceae**

**W FI-0-H-2014-0654 *Juncus gerardi* Loisel.**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Stony and rocky seashore meadow, mostly at the water line. Population size: abundant. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**Lamiaceae**

**W FI-0-H-2016-0495 *Galeopsis speciosa* Mill.**

Finland, U, Espoo, Jorvi. The cycle path verge running parallel to the road Vanha Turuntie, a couple of hundred meters NW of the Jorvi hospital area. WGS84 60°13'22"N 24°40'51"E. Wasteland between a cycle



path and a field. Associated species: *Fallopia convolvulus*, *Galium spurium*, *Lapsana communis*, *Spergula arvensis*. Population size: 25-50 shoots. Proportion of seed-bearing shoots 50-80 % (partly still blooming). Coll. Miranto, Mari, 2016-07-29.

**W FI-0-H-2014-0702 *Lycopus europaeus* L.**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Stony and rocky seashore meadow. Population size: rather scarce. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2016-0500 *Prunella vulgaris* L.**

Finland, V, Parainen, Mielisholm, Ängsholm. WGS84 60°13'32"N 22°21'8"E. Old forest pasture. Associated species: *Quercus robur*, *Salix caprea*, *Ribes alpinum*, *Convallaria majalis*, *Calamagrostis epigejos*. Population size: 25-50 shoots. Coll. Miranto, Mari; Lindholm, Mikael; Tiiri, Marita, 2016-08-11.

**W FI-0-H-2014-0652 *Scutellaria galericulata* L.**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Cracks of seashore rock. Population size: scarce. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2016-0504 *Stachys sylvatica* L.**

Finland, V, Lohja, Karkali. The verge of the road Karkalintie, 500 m E of the parking lot of the Karkali Strict Nature Reserve. WGS84 60°14'48"N 23°49'16"E. Lush, half-open gravel road verge. Associated species: *Corylus avellana*, *Juniperus communis*, *Pteridium aquilinum* subsp. *pinetorum*, *Filipendula ulmaria*, *Valeriana excelsa* subsp. *sambucifolia*, *Aegopodium podagraria*, *Urtica dioica*. Population size: 10-25 shoots. Coll. Miranto, Mari; Lindholm, Mikael, 2016-08-17.

### **Lentibulariaceae**

**W FI-0-H-2017-0429 *Pinguicula vulgaris* L.**

Finland, InL, Utsjoki, Vetsikko. 1 km W of the erratic Kuninkaankivi. WGS84 69°57'1.7"N 27°16'51.3"E. Rock face with seepage water. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

### **Lythraceae**

**W FI-0-H-2018-0237 *Lythrum salicaria* L.**

Finland, EH, Kuhmoinen, Päijänne, Kotalahti. W shore of Lake Päijänne. WGS84 61°34'22.3680"N 25°24'15.9300"E. Stony lake shore. Associated species: *Alnus glutinosa*, *Betula pubescens*, *Populus tremula*, *Pinus sylvestris*, *Frangula alnus*, *Salix* sp., *Phalaroides arundinacea*, *Lysimachia vulgaris*, *Tussilago farfara*. Population size: scattered. Collected along the shore in the span of 150 m. Coll. Lindholm, Mikael, 2018-09-23.

**W FI-0-H-2014-0722 *Lythrum salicaria* L.**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, NE from the field station of the Finnish Maritime Administration. WGS84 59°58'44.6"N 24°23'35.2"E. Stony and rocky seashore meadow. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

### **Melanthiaceae**

**W FI-0-H-2017-0389 *Paris quadrifolia* L.**

Finland, InL, Utsjoki, Pulmankijärvi, Jääräjoki. W of Lake Pulmankijärvi, 200 m S of the River Jääräjoki. WGS84 70°0'13"N 27°58'8"E. Lush ditch verge. Population size: scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2016-0475 *Paris quadrifolia* L.**

Finland, U, Helsinki, Länsi-Pasila, Ruskeasuo. Central Park between Länsi-Pasila and Ruskeasuo, two spots: 1) W of the horse riding school Keskustallin Ratsastukoulu, and 2) 300 m N of the riding school and 50 m S

of the allotment garden. WGS84 60°11'58"N 24°55'01"E. Herb-rich heath forest. Associated species: *Oxalis acetosella*, *Maianthemum bifolium*, *Lysimachia europaea*, *Lactuca muralis*, *Dryopteris carthusiana*, *Chamaenerion angustifolium*, *Rubus idaeus*, *Chelidonium majus*. Population size: 46 shoots (26 + 20). Collecting area 25 + 9 m<sup>2</sup>, proportion of seed-bearing shoots >90%. Coll. Miranto, Mari; Huotari, Essi, 2016-07-19.

### Menyanthaceae

#### W FI-0-H-2014-0497 *Menyanthes trifoliata* L.

Finland, U, Espoo, Luukki, Halkolampi. Luukki recreation area, S end of Lake Halkolampi. WGS84 60°19'42.9"N 24°39'57.5"E. Overgrowing end of a lake. Associated species: *Vaccinium oxycoccos*, *Drosera rotundifolia*, *Carex echinata*, *C. rostrata*, *C. limosa*, *Rhynchospora alba*. Population size: 50-100 shoots. 20 infructescences collected, proportion of seed-bearing shoots < 20%. Coll. Miranto, Mari, 2014-07-16.

### Myricaceae

#### W FI-0-H-2018-0234 *Myrica gale* L.

Finland, ES, Hirvensalmi, Puula, Rainiolahti. The shore of the Bay Rainiolahti of Lake Puula. WGS84 61°39'50.4720"N 26°57'35.5680"E. Shore of a sheltered bay of a lake, 30 m zone from the water line. Associated species: *Betula pubescens*, *Pinus sylvestris*, *Juniperus communis*, *Frangula alnus*, *Chamaedaphne calyculata*, *Rhododendron tomentosum*, *Vaccinium uliginosum*, *V. oxycoccos*, *Empetrum nigrum*, *Drosera rotundifolia*, *Dactylorhiza* sp., *Sphagnum* spp. Population size: hundreds of shoots. Coll. Lindholm, Mikael, 2018-09-15.

### Orobanchaceae

#### W FI-0-H-2016-0493 *Rhinanthus angustifolius* subsp. *grandiflorus* (Wallr.) D. A. Webb

Finland, U, Helsinki, Laajasalo, Tahvonlahti. Uusikylä swimming place. WGS84 60°09'51"N 25°01'16"E. Artificial beach. Associated species: *Lysimachia vulgaris*, *Phragmites australis*, *Scutellaria galericulata*. Population size: 25-50 shoots. Proportion of seed-bearing shoots 50-80% (partly still blooming). Coll. Miranto, Mari, 2016-08-08.

### Papaveraceae

#### W FI-0-H-2016-0398 *Corydalis intermedia* (L.) Mérat

Finland, U, Raasepori. Raasepori castle ruins, along the footpath "Rakkauden polku", c. 20 m S of the walking bridge that crosses the River Slottströmmen. WGS84 59°59'41"N 23°29'1"E. Herb-rich forest. Associated species: *Prunus padus*, *Anemone nemorosa*. Population size: 10-25 shoots. Coll. Miranto, Mari; Lindholm, Mikael; Granroth, Janne, 2016-05-17.

#### W FI-0-H-2016-0397 *Corydalis solida* (L.) Clairv.

Finland, U, Espoo, Linudden. Between the junction leading to the Gallen-Kallela Museum and the bridge connecting the Islands Linudden and Tarvo. WGS84 60°12'21"N 24°50'28"E. Herb-rich forest edge close to the seashore. Associated species: *Prunus padus*, *Picea abies*, *Acer platanoides*, *Ribes alpinum*, *Dryopteris filix-mas*, *Anemone nemorosa*, *Aegopodium podagraria*. Population size: 50-100 shoots. Proportion of seed-bearing shoots 50-80%. Coll. Miranto, Mari, 2016-05-18.

### Plantaginaceae

#### W FI-0-H-2023-0187 *Linaria vulgaris* Mill.

Finland, U, Helsinki, Mustikkamaa. SW part of Mustikkamaa Island, close to the bridge leading to Korkeasaari Island. WGS84 60°10'47"N 24°58'60"E. Dry road verge close to the seashore. Associated species: *Tanacetum vulgare*, *Achillea millefolium*. Population size: C. 200 shoots. Great part of the population still immature. Coll. Miranto, Mari, 2023-09-08.

#### W FI-0-H-2014-0657 *Plantago maritima* L.

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Stony and rocky seashore meadow. Population size: rather abundant. Scattered along the coast with a span of a few hundred meters. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm,

Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2017-0434 *Veronica longifolia* L.**

Finland, PeP, Kemi, Ajos, Korostenokka. . WGS84 65°39'57.0"N 24°36'3.6"E. Sandy seashore. Associated species: *Salix* spp., *Hippophaë rhamnoides*, *Myrica gale*, *Honckenya peploides*, *Leymys arenarius*, *Thalictrum flavum*, *Primula nutans* subsp. *finmarchica* var. *jokelae*, *Achillea ptarmica*. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-19.

**W FI-0-H-2018-0232 *Veronica officinalis* L.**

Finland, U, Inkoo, Kopparnäs. Kopparnäs recreation area, the wood SE of the farthest parking lot by the road Kopparnäsvägen, along a path. WGS84 60°02'40.2"N 24°15'21.6"E. Forest path verge in a mixed forest. Associated species: *Maianthemum bifolium*, *Fragaria vesca*, *Calamagrostis arundinacea*. Population size: scattered. Collecting area a few square meters. Coll. Miranto, Mari, 2018-09-16.

**Poaceae**

**W FI-0-H-2023-0192 *Alopecurus pratensis* L.**

Finland, A, Finström, Godby. The green area behind the Godby center shopping mall, E side of the path that goes through the area. WGS84 60°13'52.3"NN 19°59'12.8"EE. Meadow/wasteland. Population size: 50. Coll. Levo, Martti, 2023-08-19.

**W FI-0-H-2020-0228 *Anthoxanthum nitens* subsp. *balticum* (G. Weim.) G. C. Tucker**

Finland, U, Siuntio, Störsvik, Kalvösundet. Kopparnäs-Störsvik recreation area, the narrow zone between the footpath and the sea. WGS84 60° 3' 26.4"N 24° 18' 29.4"E. Seashore meadow. Associated species: *Myosotis scorpioides*, *Lysimachia vulgaris*, *Galium palustre*, *Filipendula ulmaria*, *Juncus gerardii*, *Phalaroides arundinacea*. Population size: 1000 culms. Collecting area 60 x 2 m zone 0,5 m from the waterline. Coll. Miranto, Mari, 2020-06-29.

**W FI-0-H-2016-0416 *Anthoxanthum odoratum* L.**

Finland, U, Helsinki, Kumpula. The hill between the Kumpula Botanic Garden and the Kumpula Campus. WGS84 60°12'13"N 24°57'29"E. Sun-exposed urban rock outcrop. Associated species: *Solidago virgaurea*, *Viscaria vulgaris*, *Polygonatum odoratum*. Population size: >1000 culms. Coll. Miranto, Mari, 2016-06-06.

**W FI-0-H-2016-0540 *Brachypodium sylvaticum* (Huds.) P.Beauv.**

Finland, A, Lemland, Flaka, Marsö. . WGS84 59°59'49"N 20°8'42"E. Shady *Corylus avellana* dominated former pasture. Associated species: *Bromopsis benekenii*, *Brachypodium pinnatum*, *Hepatica nobilis*, *Primula veris*. Population size: common. Coll. Väre, Henry; Miranto, Mari; Lindholm, Mikael, 2016-09-04.

**W FI-0-H-2014-0658 *Leymus arenarius* (L.) Hochst.**

Finland, U, Kirkkonummi, Porkkalanniemi, Vetokannas. Porkkalanniemi recreation area. WGS84 59°59'09.8"N 24°24'32.9"E. Stony and rocky seashore meadow. Population size: abundant. Scattered along the coast with a span of a few hundred meters. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2023-0152 *Melica nutans* L.**

Finland, U, Espoo, Niipperi. The area N of a parking lot, W of the brook Niipperinoja, S of a field and E of the nature reserve of Niipperinpelto herb-rich forest. WGS84 60°16'50"N 24°44'17"E. Lush brookside meadow and herb-rich forest. Associated species: *Filipendula ulmaria*, *Moehringia trinervia*, *Silene flos-cuculi*. Population size: scattered. Coll. Miranto, Mari, 2023-07-11.

**W FI-0-H-2016-0473 *Milium effusum* L.**

Finland, U, Helsinki, Metsälä. N of the road Metsäläntie and opposite to the old logistics center Maaliikennekeskus, along a footpath, on the edge of the area cleared for an urban runoff channel. WGS84 60°13'16"N 24°55'50"E. Spruce-dominated herb-rich heath forest. Population size: >500<1000 culms. Proportion of seed-bearing culms >90%. Coll. Hyrkäs, Noora, 2016-06-30.

**W FI-0-H-2014-0659 *Molinia caerulea* (L.) Moench**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, NE from the field station of the

Finnish Maritime Administration. WGS84 59°58'44.6"N 24°23'35.2"E. Cracks of seashore rock. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**W FI-0-H-2014-0651 *Phalaroides arundinacea* (L.) Rauschert**

Finland, U, Kirkkonummi, Porkkalanniemi. Porkkalanniemi recreation area, NE from the field station of the Finnish Maritime Administration. WGS84 59°58'44.6"N 24°23'35.2"E. Cracks of seashore rock. Coll. Miranto, Mari; Fitzgerald, Heli; Lindholm, Mikael; Fredriksson, Christina; Vaniala, Anneli; Aittamäki, Anni-Elina; Kortelainen, Jukka; Wikström-Tuominen, Reetta; Pehkonen, Pertti; Ali-Mattila, Anna, 2014-09-02.

**Polygonaceae**

**W FI-0-H-2019-0228 *Fallopia dumetorum* (L.) Holub**

Finland, U, Espoo, Knapperskär. Knapperskär Island, the shore W of the pier. WGS84 60°05'12.6"N 24°44'29.8"E. Partly sandy shingle seashore. Associated species: *Rumex crispus*, *Crambe maritima*, *Atriplex longipes*, *Cakile maritima*, *Leymus arenarius*. Population size: 50 shoots. Coll. Miranto, Mari, 2019-09-06.

**W FI-0-H-2017-0411 *Oxyria digyna* (L.) Hill**

Finland, InL, Utsjoki, Pulmankijärvi, Gaddasjohka. The area between the road Pulmankijärventie and Lake Pulmankijärvi, along the River Galddasjohka. WGS84 69°59'4"N 27°58'45.6"E. Sandy and gravelly area on lake shore. Associated species: *Betula pubescens* subsp. *czerepanovii*, *Salix* spp., *Juniperus communis*, *Myricaria germanica*, *Arctous alpina*, *Saxifraga aizoides*, *Empetrum nigrum*, *Arctostaphylos uva-ursi*, *Astragalus alpinus* subsp. *arcticus*. Population size: scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2023-0150 *Rumex acetosa* var. *acetosa* L.**

Finland, U, Espoo, Niipperi. The area N of a parking lot, W of the brook Niipperinoja, S of a field and E of the nature reserve of Niipperinpelto herb-rich forest. WGS84 60°16'51"N 24°44'18"E. Lush brookside. Associated species: *Filipendula ulmaria*, *Achillea ptarmica*, *Lysimachia vulgaris*, *Galium uliginosum*, *Calamagrostis canescens*, *Poa nemoralis*. Population size: 60. Dioecious species, most of the female plants fertile. Coll. Miranto, Mari, 2023-07-11.

**W FI-0-H-2020-0294 *Rumex aquaticus* L.**

Finland, U, Espoo, Kaparen. Kaparen Island, on E side of the island, close to a small bay. WGS84 60°04'50,6"N 24°40'30,2"E. Natural seasonally partly drying pond on seashore rock. Associated species: *Rumex crispus*, *Filipendula ulmaria*, *Lythrum salicaria*, *Scrophularia nodosa*, *Epilobium adenocaulon*. Population size: 200 fertile shoots. Coll. Miranto, Mari; Björk, Raili, 2020-08-30.

**W FI-0-H-2019-0230 *Rumex crispus* L.**

Finland, U, Espoo, Knapperskär. Knapperskär Island. WGS84 60°05'12"N 24°44'30"E. Rocky island in outer archipelago. Associated species: typical seashore species, e.g., *Veronica longifolia* var. *maritima* and *Lythrum salicaria*. Population size: 300 shoots. Coll. Miranto, Mari, 2019-09-06.

**Primulaceae**

**W FI-0-H-2016-0477 *Lysimachia europaea* (L.) U. Manns & Anderb.**

Finland, EH, Janakkala, Kesijärvi. W side of Lake Kesijärvi, 50 m N of the small parking area used by boaters. WGS84 60°58'39"N 24°45'5"E. Mesic heath forest. Associated species: *Vaccinium myrtillus*, *Linnaea borealis*, *Calamagrostis arundinacea*. Population size: common. Coll. Miranto, Mari; Lindholm, Mikael; Huotari, Essi, 2016-07-21.

**W FI-0-H-2018-0215 *Lysimachia maritima* (L.) Galasso, Banfi & Soldano**

Finland, U, Kirkkonummi, Stora Brändö. Stora Brändö Island, NE shore S of the pier. WGS84 60°02'39.1"N 24°36'02.5"E. Coastal shingle shore. Associated species: *Alnus glutinosa*, *Phragmites australis*, *Lolium arundinaceum*, *Juncus gerardii*, *Cornus suecica*, *Vicia cracca*, *Lotus corniculatus*, *Plantago maritima*. Population size: hundreds of shoots. Coll. Miranto, Mari, 2018-09-02.

**W FI-0-H-2023-0184 *Lysimachia thyrsiflora* L.**

Finland, U, Kauniainen, Gallträsk. SW shore of Lake Gallträsk, next to a gravel path and a pier. WGS84 60°13'02.2"N 24°43'31"E. Eutrophic lake shore. Associated species: *Calla palustris*, *Iris pseudacorus*, *Menyanthes trifoliata*, *Carex rostrata*. Population size: 20 fertile shoots, tens of infertile shoots. Coll. Miranto, Mari, 2023-09-06.

**W FI-0-H-2018-0238 *Lysimachia vulgaris* L.**

Finland, EH, Kuhmoinen, Päijänne, Kotalahti. W shore of Lake Päijänne. WGS84 61°34'22.3680"N 25°24'15.9300"E. Stony lake shore. Associated species: *Alnus glutinosa*, *Betula pubescens*, *Populus tremula*, *Pinus sylvestris*, *Frangula alnus*, *Salix* sp., *Phalaroides arundinacea*, *Lysimachia vulgaris*, *Tussilago farfara*. Population size: scattered. Collected along the shore in the span of 150 m, seed sampled from tens of shoots. Coll. Lindholm, Mikael, 2018-09-23.

**Ranunculaceae**

**W FI-0-H-2016-0484 *Ranunculus acris* subsp. *acris* L.**

Finland, V, Vihti, Salmi. Salmi recreation area, along the verge of the road Paratiisintie, with a span of 50 m in both directions from the junction of the roads Paratiisintie and Salmen Rinteläntie. WGS84 60°22'27"N 24°29'30"E. Gravel road verge. Associated species: *Athriscus sylvestris*, *Tussilago farfara*, *Phleum pratense*, *Trifolium pratense*, *Carex pallescens*. Population size: rather scarce. Coll. Miranto, Mari, 2016-07-27.

**W FI-0-H-2017-0431 *Thalictrum alpinum* L.**

Finland, InL, Utsjoki, Pulmankijärvi, Jääräjoki. S bank of the River Jääräjoki, in the span of 400 m, W of the road Pulmankijärventie. WGS84 70°0'24"N 27°58'4.9"E. Lush riverbank and moist alpine meadow. Associated species: *Betula nana*, *Juniperus communis* subsp. *alpina*, *Salix myrsinites*, *Angelica archangelica* subsp. *archangelica*, *Saussurea alpina*, *Cornus suecica*, *Trollius europaeus*. Population size: scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2020-0283 *Thalictrum flavum* L.**

Finland, U, Espoo, Kaparen. Kaparen Island, the shore of the little bay in the middle of the island, on E shore. WGS84 60°4'51.5"N 24°40'31.1"E. Seashore meadow. Associated species: *Rubus saxatilis*, *Tripleurospermum maritimum* subsp. *maritimum*, *Lysimachia vulgaris*, *Tanacetum vulgare*, *Agrostis stolonifera*. Population size: 100 shoots. Collection 1 (4.8.2020): Seeds sampled from 5 shoots, others still immature; collection 2 (30.08.2020): Seeds sampled from 11 shoots. Plenty of infertile shoots. Coll. Miranto, Mari, 2020-08-04.

**W FI-0-H-2017-0284 *Trollius europaeus* L.**

Finland, InL, Utsjoki, Pulmankijärvi. S bank of the River Jääräjoki, 20 m W of the road Pulmankijärventie. WGS84 70°0'24"N 27°58'4.9"E. Lush riverbank. Associated species: *Juniperus communis* subsp. *alpina*, *Angelica archangelica* subsp. *archangelica*, *Saussurea alpina*, *Cornus suecica*, *Thalictrum alpinum*. Population size: abundant. Two collections: 1) 4.8. and 2) 20.9.2017. 1) Seeds sampled from c. 10 individuals (fruits mostly immature), 2) replenishment 10-25 individuals. Coll. Lindholm, Mikael; Anttila, Aino, 2017-08-04.

**Rhamnaceae**

**W FI-0-H-2015-0700 *Frangula alnus* Mill.**

Finland, V, Parainen, Stortervolandet, Sattmark. WGS84 60°14'53"N 22°14'33"E. Road verge/forest edge. A small accession, several berries from 7 individuals. Mostly dispersed. Coll. Lindholm, Mikael, 2015-10-19.

**Rosaceae**

**W FI-0-H-2016-0479 *Comarum palustre* L.**

Finland, EH, Nokia, Tottijärvi, Kirstuanjärvi. S shore of Lake Kirstuanjärvi. WGS84 61°24'31"N 23°20'32"E. Reedy shore of a dystrophic lake. Associated species: *Phragmites australis*, *Carex lasiocarpa*, *Hydrocharis morsus-ranae*, *Nuphar lutea*. Population size: >100<500 shoots. Proportion of seed-bearing shoots 20-50%. Coll. Hyrkäs, Noora, 2016-07-24.

**W FI-0-H-2017-0421 *Comarum palustre* L.**

Finland, InL, Utsjoki, Nuorgam, Tenojoki. Along the rapids flowing to the River Tenojoki and the bank of

the River Tenonjoki, 200 m E of the premises of Tenon luonnontuote Oy. WGS84 70°05'1.1"N 27°53'15.7"E. Rocky rapids and riverbank. Population size: scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**W FI-0-H-2016-0478 *Prunus padus* subsp. *padus* L.**

Finland, U, Helsinki, Koskela, Vanhakaupunki. Both banks of the River Vantaanjoki: 1) W bank: the area between the road Viikintie and the little artificial bay deviating from the river c. 500 m N of Viikintie; 2) E bank: the area between the road Viikintie and the motorway E75. WGS84 60°13'16"N 24°58'45"E. Lush riverside scrub. Associated species: *Salix caprea*, *Salix phylicifolia*, *Urtica dioica*, *Rubus idaeus*, *Filipendula ulmaria*. Population size: tens of trees. Seeds sampled from 23 trees (9 trees from W bank and 14 trees from E bank), the trees growing in the shade or the branches on the shady side infertile. Coll. Miranto, Mari; Lindholm, Mikael; Huotari, Essi, 2016-07-25.

**W FI-0-H-2015-0692 *Rosa caesia* Sm.**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'25"N 22°19'19"E. A zone from the seashore towards inland, rock outcrops and lush herb-rich vegetation. Accompanying species: *Betula pubescens*, *Fraxinus excelsior*, *Prunus padus*, *Sorbus aucuparia*, *Alnus incana*, *Malus sylvestris*, *Pinus sylvestris*, *Juniperus communis*, *Quercus robur*, *Ribes alpinum*, *Rosa dumalis*, and cultivated *Syringa* and *Ribes* spp. originating from the 19th century, when there was a cabin in the area. Population size: 100. Number of plants found recorded from the collecting area, there are more scarcely scattered plants on the whole island of Mielisholm. Coll. Lindholm, Mikael, 2000-10-05.

**W FI-0-H-2015-0693 *Rosa dumalis* Bechst.**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'25"N 22°19'16"E. A zone from the seashore towards inland, rock outcrops and lush herb-rich vegetation. Associated species: *Betula pubescens*, *Fraxinus excelsior*, *Prunus padus*, *Sorbus aucuparia*, *Alnus incana*, *Malus sylvestris*, *Pinus sylvestris*, *Juniperus communis*, *Quercus robur*, *Ribes alpinum*, *Rosa caesia*, and cultivated *Syringa* and *Ribes* spp. originating from the 19th century, when there was a cabin in the area. Population size: tens of bushes. Number of plants found recorded from the collecting area, there are more scarcely scattered plants on the whole island of Mielisholm, totaling probably thousands. Coll. Lindholm, Mikael, 2015-10-05.

**W FI-0-H-2018-0229 *Rosa mollis* Sm.**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'25.2840"N 22°19'18.9360"E. Forest edge and field verge. Associated species: *Pinus sylvestris*, *Juniperus communis*, *Sorbus aucuparia*, *Alnus incana*, *Betula pendula*, *Rosa dumalis*, *Ribes alpinum*. Population size: 4 small, scattered bush clusters. Coll. Lindholm, Mikael, 2018-09-10.

**W FI-0-H-2016-0498 *Rubus saxatilis* L.**

Finland, V, Parainen, Mielisholm, Ängsholm. WGS84 60°13'34"N 22°21'17"E. Old forest pasture. Associated species: *Quercus robur*, *Salix caprea*, *Ribes alpinum*, *Convallaria majalis*, *Calamagrostis epigejos*. Population size: locally abundant. Coll. Miranto, Mari; Lindholm, Mikael; Tiiri, Marita, 2016-08-11.

**W FI-0-H-2014-0668 *Sorbus aucuparia* subsp. *aucuparia* L.**

Finland, U, Espoo, Leppävaara. Leppävaara sawdust jogging track area. WGS84 60°13'42.8"N 24°47'57.6"E. Mixed forest. Population size: hundreds of trees. Coll. Miranto, Mari, 2014-08-26.

**W FI-0-H-2017-0398 *Sorbus aucuparia* subsp. *glabrata* (Wimm. & Grab.) Hayek**

Finland, InL, Utsjoki. Along the road Karigasniementie between Karigasniemi and Kaamanen, 2 km W of the junction of the roads Karigasniementie and Ailigasjärventie. WGS84 69°23'59.2"N 26°1'30.6"E. Birch-dominated roadside wood. Associated species: *Betula* sp., *Salix* spp., *Vaccinium uliginosum*, *Vaccinium vitis-idaea*, *Juniperus communis*. Population size: 25-50. Selected individuals with sparsely-haired leaf undersides. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

## Salicaceae

**W FI-0-H-2017-0436 *Salix pentandra* L.**

Finland, OP, Oulu, Nuottasaari, at the junction of the roads Lumijoentie and Jääsalontie, next to the parking lot of OMP-Konepaja. WGS84: 64°59'37.1"N 25°26'58.4"E. A lawn between a road and a parking lot.

Population size: tens of individuals. Collecting area 10 m<sup>2</sup>, population size tens of individuals, seeds sampled from 2 trees, proportion of seed-bearing trees 50%. Coll. Kestilä, Annikki, 2017-10-24.

### **Saxifragaceae**

#### **W FI-0-H-2017-0409 *Saxifraga aizoides* L.**

Finland, InL, Utsjoki, Pulmankijärvi, Gaddasjohka. The area between the road Pulmankijärventie and Lake Pulmankijärvi, along the River Galddasjohka. WGS84 69°59'4"N 27°58'45.6"E. Sandy and gravelly area on lake shore. Associated species: *Salix* spp., *Juniperus communis*, *Myricaria germanica*, *Empetrum nigrum*, *Arctostaphylos uva-ursi*, *Astragalus alpinus* ssp. *arcticus*. Population size: nine small patches. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

### **Scrophulariaceae**

#### **W Fi-0-H-2023-0186 *Scrophularia nodosa* L.**

Finland, U, Helsinki, Mustikkamaa. SW part of Mustikkamaa Island, close to the bridge leading to Korkeasaari Island. WGS84 60°10'46.3"N 24°59'02"E. Lush footpath verge close to the seashore. Associated species: *Artemisia vulgaris*, *Linaria vulgaris*, *Hypericum perforatum*, *Tanacetum vulgare*. Population size: 40 shoots. Part of the population still immature. Coll. Miranto, Mari, 2023-09-08.

### **Solanaceae**

#### **W FI-0-H-2018-0204 *Solanum dulcamara* L.**

Finland, V, Parainen, Mielisholm, Gloen. WGS84 60°13'12.6180"N 22°19'41.3760"E. Moist ditch bottom and bank. Associated species: *Phragmites australis*, *Typha latifolia*, *Lysimachia vulgaris*, *Caltha palustris*, *Iris pseudacorus*, *Sparganium* sp., *Juncus* spp. Population size: common. Coll. Lindholm, Mikael, 2018-08-18.

### **Violaceae**

#### **W FI-0-H-2014-0496 *Viola palustris* L.**

Finland, U, Hanko, Santalankorpi. WGS84 59°51'05.6"N 23°07'41.8"E. *Alnus glutinosa* swamp and *Phragmites australis* dominated alluvial meadow, along ditches. Associated species: *Viola uliginosa*. Population size: >1 000 shoots. Seeds in the population mostly infertile or already dispersed. Coll. Miranto, Mari; Rytteri, Terhi, 2014-07-04.

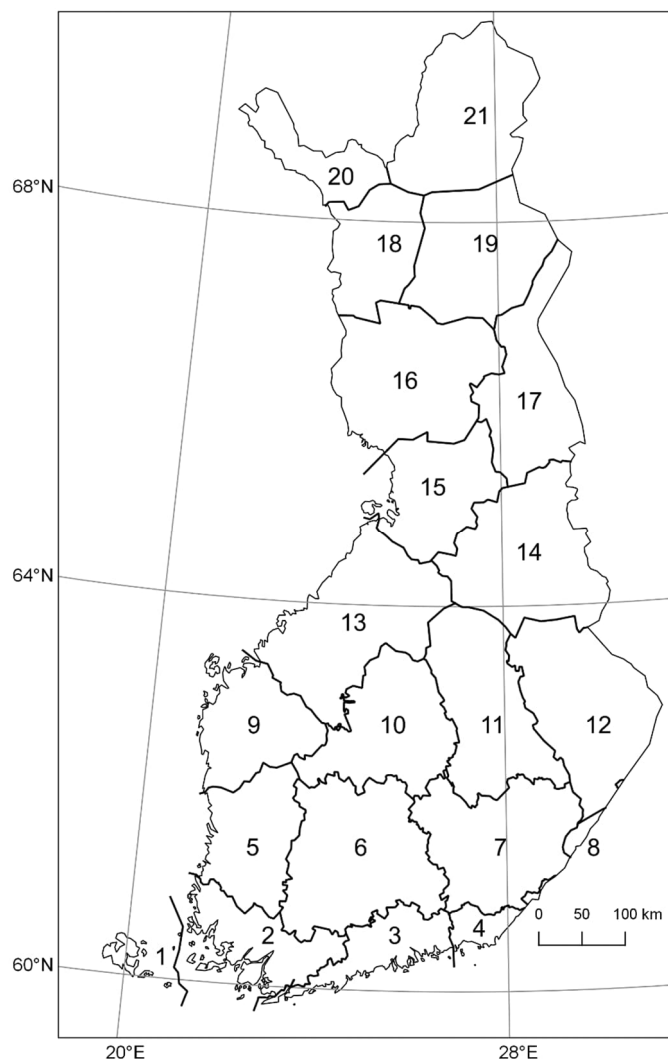
## **II SEEDS COLLECTED FROM THE GLASSHOUSES**

### **Nymphaeaceae**

#### **G XX-0-H-00YY-0885 *Victoria cruziana* Orb.**

The accession has been cultivated in the glasshouses since early 20<sup>th</sup> century.

# THE BIOGEOGRAPHICAL PROVINCES IN FINLAND



1	A	Ahvenanmaa	Al	Alandia	Åland
2	V	Varsinais-Suomi	Ab	Regio aboënsis	
3	U	Uusimaa	N	Nylandia	
4	EK	Etelä-Karjala	Ka	Karelia australis	South Karelia
5	St	Satakunta	St	Satakunta	
6	EH	Etelä-Häme	Ta	Tavastia australis	South Häme
7	ES	Etelä-Savo	Sa	Savonia australis	South Savo
8	LK	Laatokan Karjala	Kl	Karelia ladogensis	Ladoga Karelia
9	EP	Etelä-Pohjanmaa	Oa	Ostrobothnia australis	South Ostrobothnia
10	PH	Pohjois-Häme	Tb	Tavastia borealis	North Häme
11	PS	Pohjois-Savo	Sb	Savonia borealis	North Savo
12	PK	Pohjois-Karjala	Kb	Karelia borealis	North Karelia
13	KP	Keski-Pohjanmaa	Om	Ostrobothnia media	Central Ostrobothnia
14	Kn	Kainuu	Ok	Ostrobothnia kajanensis	
15	OP	Oulun Pohjanmaa	Obo	Ostrobothnia ouluensis	Oulu Ostrobothnia
16	PeP	Perä-Pohjanmaa	Obu	Ostrobothnia ultima	Outer Ostrobothnia
17	Ks	Koillismaa	Ks	Regio kuusamoënsis	
18	KiL	Kittilän Lappi	Lkk	Lapponia kittilensis	Kittilä Lapland
19	SoL	Sompion Lappi	Lks	Lapponia sompiensis	Sompio Lapland
20	EnL	Enontekiön Lappi	Le	Lapponia enontekiensis	Enontekiö Lapland
21	InL	Inarin Lappi	Li	Lapponia inarensis	Inari Lapland



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**Affiliation and address:** \_\_\_\_\_

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**Name of responsible person in block letters:**

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**Signature of responsible person:**

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