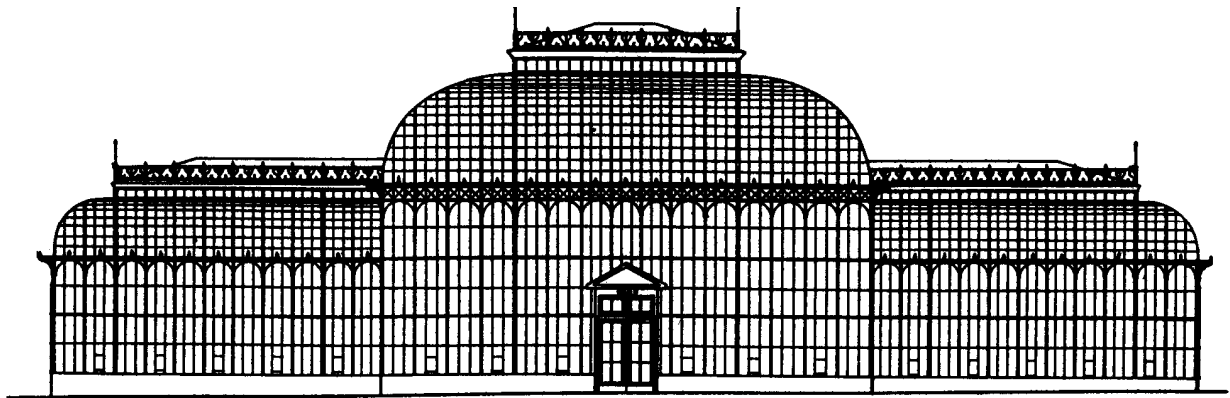


# LUOMUS

FINNISH MUSEUM OF NATURAL HISTORY

## DELECTUS SEMINUM

### List of seeds and spores available in 2019



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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 2019**

**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 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)  
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.	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	The nomenclature of the Finnish plants is according to Kurtto et al., 2019: Checklist of the vascular plants of Finland. Suomen putkilokasvien luettelo. – Norrlinia 34: 1-206. <a href="https://www.luomus.fi/sites/default/files/files/checklist_plants_finland.pdf">https://www.luomus.fi/sites/default/files/files/checklist_plants_finland.pdf</a>

## 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 were sampled year 2019 and are stored at +5°C. *Victoria cruziana* seeds from glasshouses collected year 2018 are kept in cool water.

## ORDERING

Request for material should reach us before **February 15, 2020**. Material is provided on a ‘first-come-first-served’ basis. Please note that we cannot provide phytosanitary certificates.

Non-IPEN members must sign the exchange agreement in the end of the Delectus Seminum.

Orders online <http://luomus.fi/en/delectus-seminum>

# I SEEDS COLLECTED FROM FINLAND

## POLYPODIOPHYTINA

### POLYPODIOPSISIDA

#### Athyriaceae

##### W FI-0-H-2019-0223 *Athyrium filix-femina* (L.) Roth

Finland, U, Espoo, Sorlampi. Close to S shore of Lake Sorlampi, by a footpath. WGS84 60°15'16"N 24°37'8"E. Edge of a swamp shore and mesic heath forest. Associated species: *Alnus glutinosa*, *Viola palustris*, *Equisetum sylvaticum*, *Phegopteris connectilis*, *Dryopteris expansa*. Rather scarce. Collecting area 4 m<sup>2</sup>, spores sampled from 10 fronds. Coll. Miranto, Mari, 2019-08-31.

#### Dryopteridaceae

##### W FI-0-H-2019-0226 *Dryopteris expansa* (C. Presl) Fraser-Jenk. & Jermy

Finland, U, Espoo, Sorlampi. Close to S shore of Lake Sorlampi, by a footpath. WGS84 60°15'16"N 24°37'8"E. Edge of swamp shore and mesic heath forest. Associated species: *Alnus glutinosa*, *Equisetum sylvaticum*, *Phegopteris connectilis*, *Athyrium filix-femina*, *Viola palustris*. Scarce. Collecting area 2 m<sup>2</sup>, spores sampled from 10 fronds. Coll. Miranto, Mari, 2019-08-31.

#### Thelypteridaceae

##### W FI-0-H-2019-0225 *Phegopteris connectilis* (Michx.) Watt

Finland, U, Espoo, Sorlampi. Close to S shore of Lake Sorlampi, by a footpath. WGS84 60°15'16"N 24°37'8"E. Edge of a swamp shore and mesic heath forest. Associated species: *Alnus glutinosa*, *Viola palustris*, *Equisetum sylvaticum*, *Athyrium filix-femina*, *Dryopteris expansa*. Locally abundant. Collecting area 15 m<sup>2</sup>, spores sampled from 10 fronds. Coll. Miranto, Mari, 2019-08-31.

## SPERMATOPHYTINA

### MAGNOLIOPSISIDA

#### 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.

#### Amaryllidaceae

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

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. Collecting area 1 000 m<sup>2</sup>, 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* L. subsp. *archangelica*

Finland, InL, Utsjoki. E side of the road Utsjoentie between Korretoja and Mieraslompola, along the brook Ivvánsajohka. WGS84 69°36'28.7"N 27°10'46.0"E. Brookside. Associated species: *Parnassia palustris*. Population size: tens of shoots, mostly sterile. Seeds sampled from 9 shoots. *Parnassia palustris* 2017-0427 collected from the same site. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

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

Finland, A, Jomala, Nåtö. Nåtö nature conservation area, Nygård house. WGS84 60°02'49"N 19°58'31"E. On yard close to an herb rich wooded meadow. Population size: 10 shoots. Collecting area 100 m<sup>2</sup>, seeds sampled from 3 shoots. Coll. Miranto, Mari, 2016-09-01.

### 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. Cracks of seashore rock. Scarce. Scattered along the coast with a span of a few hundred metres. 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, Öro. Öro 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. Collecting area 100 m<sup>2</sup>, seeds sampled from 10-25 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. Collecting area 300 m<sup>2</sup>, 30 infructences collected. 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. Collecting area 2 500 m<sup>2</sup>, seeds sampled from >100<500 ramets, 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*. Collecting area 2000 m<sup>2</sup>, seeds sampled from >100<500 ramets. 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 vosagiaca*, *Ribes alpinum*, *Vicia cracca*, *Lathyrus pratensis*, *Galium boreale*, *G. verum*. Common. Coll. Lindholm, Mikael, 2018-08-18.

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

Finland, U, Helsinki, Länsi-Pasila, Ruskeasuo. Central Park between Länsi-Pasila and Ruskeasuo, W of the Horse riding school Keskustallin Ratsastukoulu 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. Collecting area 1 500 m<sup>2</sup>, seeds sampled from 10-25 shoots, proportion of seed-bearing shoots 90%. Coll. Miranto, Mari; Huotari, Essi, 2016-07-19 and 2016-07-28.

### 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. Collecting area 5 000 m<sup>2</sup>, seeds sampled from 60 shoots, proportion of seed-bearing shoots >90%. 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. Collecting area 1 500 m<sup>2</sup>, seeds sampled from >100<500 scapes, proportion of seed-bearing individuals 50-80%. Coll. Hyrkäs, Noora, 2016-06-30.

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

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. Collecting area 30 000 m<sup>2</sup>, seeds sampled from 50 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. Collecting area 400 m<sup>2</sup>, seeds sampled from 15 shoots, most either already dispersed or still blooming. Coll. Miranto, Mari, 2019-09-06.

### W FI-0-H-2018-0207 *Tripolium pannonicum* subsp. *tripolium* (L.) Greuter

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 sambucifolia* subsp. *salina*. Locally common. Coll. Lindholm, Mikael, 2018-08-18.

## 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. Collecting area 15 000 m<sup>2</sup>, seeds sampled from 20 trees, proportion of seed-bearing trees 80 %. Coll. Lindholm, Mikael; Huotari, Essi, 2016-10-06.

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

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 rocky dryish field edges. Associated species: *Betula pendula*, *Betula pubescens*, *Populus tremula*, *Alnus glutinosa*, *Picea abies*, *Rhamnus frangula*, *Sorbus aucuparia*, *Salix caprea*, *Salix pentandra*, *Salix* spp., *Ribes alpinum*. Population size: hundreds of trees. Collecting area 40 000 m<sup>2</sup>, seeds sampled from 38 trees, proportion of seed-bearing trees 40%. Coll. Lindholm, Mikael, 2016-10-16.

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

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60° 13' 24.0780"N 22° 19' 16.4400"E. Forest edge close to seashore. Associated species: *Fraxinus excelsior*, *Juniperus communis*, *Alnus glutinosa*, *Prunus padus*, *Pinus sylvestris*, *Sorbus aucuparia*, *Viburnum opulus*, *Rosa caesia*, *R. vosagiaca*, *R. mollis*. 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. Seeds sampled from 25-50 shoots; proportion of seed-bearing shoots <50%. Coll. Rytteri, Terhi, 2015-09-09.

**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. vosagiaca*, *R. mollis*, *Fragaria vesca*, *Galium verum*. Common. Coll. Lindholm, Mikael, 2018-08-18.

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

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 vosagiaca*, *R. caesia*, *R. mollis*, *Ribes alpinum*, *Fragaria vesca*, *Galium verum*, *Achillea ptarmica*, *Platanthera bifolia*. Common. Coll. Lindholm, Mikael, 2018-09-10.

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

Finland, U, Vihti, 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. Collecting area 500 m<sup>2</sup>, seeds sampled from 50-100 scapes. Coll. Miranto, Mari; Lindholm, Mikael, 2016-08-17.

**Caprifoliaceae**

**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. 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-2016-0494 *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 podagraria*, *Poa pratensis*, *Festuca rubra*, *Equisetum arvense*. Population size: 25-50 shoots. Collecting area 100 m<sup>2</sup>, seeds sampled from 14 shoots, proportion of seed-bearing shoots 50% (partly still blooming). Coll. Miranto, Mari, 2016-07-29.

**W FI-0-H-2016-0505 *Valeriana sambucifolia* J. C. Mikan ex Pohl subsp. *sambucifolia***

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 pinetorum*. Population size: 25-50 shoots. Collecting area 100 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots >90. Coll. Miranto, Mari; Lindholm, Mikael, 2016-08-17.

**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. Collecting area 9 m<sup>2</sup>, seeds sampled from 50-100 shoots, proportion of seed-bearing shoots >90% (annual species). Coll. Reinikainen, Martina, 2017-08-08.

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

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

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

Finland, PeP, Kemijärvi, Tapioniemi. Along the road Sodankyläntie, 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-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*. Common. Collecting area 5 000 m<sup>2</sup>, seeds sampled from 6 spots. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-23.

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

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: *Lathyrus maritimus*. Population size: >1000 shoots. Collecting area 50 000 m<sup>2</sup>, seeds sampled from >100<500 shoots, proportion of seed-bearing shoots 20%. Coll. Rytteri, Terhi, 2016-09-22.

**W FI-0-H-2018-0177 *Lychnis flos-cuculi* L.**

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*, *Allium* sp., *Equisetum* sp. Population size: hundreds of shoots. Coll. Lindholm, Mikael, 2018-08-01.

**W FI-0-H-2017-0339 *Lychnis flos-cuculi* L.**

Finland, U, Helsinki, Ängskulla. Brook side, 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 brook side. Associated species: *Ribes nigrum*, *Ribes spicatum* subsp. *spicatum*, *Impatiens glandulifera*, *Deschampsia cespitosa*, *Equisetum sylvaticum*. Population size: 3 shoots. Collecting area 1 m<sup>2</sup>, seeds sampled from 3 shoots. Coll. Miranto, Mari, 2017-08-10.

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

Finland, PeP, Kemijärvi, Tapioniemi. Along the road Sodankyläntie, 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. Seeds sampled from tens of shoots. Coll. Lindholm, Mikael; Anttila, Aino, 2017-08-03.

**W FI-0-H-2018-0179 *Silene vulgaris* subsp. *vulgaris* var. *litoralis* (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*. Scattered. Collecting area 1 m<sup>2</sup>, seeds sampled from 7 shoots. Coll. Miranto, Mari, 2018-08-18.

**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 forest on riverside and spruce forest. Associated species: *Prunus padus*, *Lonicera xylosteum*, *Geum rivale*, *Geum urbanum*, *Impatiens noli-tangere*. Population size: >1000 shoots. Collecting area 20 000 m<sup>2</sup>, seeds sampled from >100<500 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. Collecting area 4 m<sup>2</sup>, seeds sampled from 10-25 shoots, proportion of seed-bearing shoots >90%. 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 Ivvánsjohka. WGS84 69°36'28.7"N 27°10'46.0"E. Brook side. 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. Collecting area 20 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots 50-80 % (still blooming). Coll. Väre, Henry; Miranto, Mari; Lindholm, Mikael, 2016-09-01.

## **Chenopodiaceae**

**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. Collecting area 1 000 m<sup>2</sup>, seeds sampled from 10 shoots, seeds partly still immature. Coll. Miranto, Mari, 2019-09-06.

### Convolvulaceae

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

Finland, U, Helsinki, Kumpula. The meadow between Kumpula botanic garden and Kumpula campus. WGS84 60°12'10"N 24°57'32"E. Seminatural mesic grassland, yearly mown. Hosts *Urtica dioica* and *Aegopodium podagraria*. Locally abundant. Collecting area 5 m<sup>2</sup>. 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. *alpina*, *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*, *Polypodium vulgare*. Scattered. Coll. Lindholm, Mikael, 2018-10-28.

### Cyperaceae

#### W FI-O-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. oxycoccus*, *Rhododendron tomentosum*, *Drosera rotundifolia*. Population size: 100 shoots. Collecting area 300 m<sup>2</sup>, seeds sampled from 60 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. The verge of 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*, *Cypripedium calceolus*, *Viburnum opulus*, *Sesleria uliginosa*. Population size: 100 culms. Collecting area 60 m<sup>2</sup>, seeds sampled from 50 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, Vakkajärvi W. WGS84 68°29'31"N 22°13'03"E. Mesotrophic sedge fen. Coll. Väre, Henry; Kaipiainen-Väre, Heidi, 2015-08-22.

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

Finland, V, Vihti, Salmi. Salmi recreation area, along the verge of 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*. Scattered. Collecting area 5 m<sup>2</sup>, seeds collected from 5 culms. 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. 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.

**Droseraceae**

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

Finland, ES, Hirvensalmi, Puula, Rainiolahti. Shore of 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. oxycoccus*, *Dactylorhiza* sp., *Sphagnum* spp. Population size: hundreds of shoots. Collecting area 50 m<sup>2</sup>. Coll. Lindholm, Mikael, 2018-09-15.

**Ericaceae**

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

Finland, SoL, Inari, Saariselkä. Urupää fell, W-slope, 100 m N of the parking area. WGS84 68°27'19"N 27°25'28.6"E. Road verge/fell slope. Associated species: *Antennaria dioica*, *Phyllodoce caerulea*. Common. Collecting area 10 000 m<sup>2</sup>, a widespread field layer species that reproduces also vegetatively, seeds sampled from tens of dwarf shrubs. 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. Collecting area 10 000 m<sup>2</sup>, 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. Shore of 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. Collecting area 50 m<sup>2</sup>. 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 the Lakes Sestjuvjeggi and Maadijpellastjävi. 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. 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* L. subsp. *nigrum***

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. 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. Kartoitusmuistomerkki, Istumakivi Monument along the road Pulmankijärventie. WGS84 70°3'39.6"N 27°53'17.6"E. Mountain heath, vegetation badly worn out. Scattered. Seeds sampled from 50 dwarf shrubs. 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*. Common. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-21.

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

Finland, SoL, Inari, Saariselkä, Urupää. Urupää fell, W-slope, 100 m N of the 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 open rock area. 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. Collecting area 100 m<sup>2</sup>, seeds sampled from 15 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 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. Collecting area 5 000 m<sup>2</sup>, seeds sampled from 100 dwarf shrubs, proportion of seed-bearing dwarf shrubs >90%. Coll. Miranto, Mari, 2014-07-16.

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

Finland, V, Vihti, Salmi, Pehkusuo. Salmi outdoor recreation area, bog Pehkusuo. WGS84 60°21'50.6"N 24°29'24.9"E. Bog. Abundant. Collecting area 1 000 m<sup>2</sup>, seeds sampled from 50 shoots, 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, bog Svartmossen. WGS84 60°19'50.6"N 24°39'49"E. Bog and adjacent slope. Associated species: *Rhododendron tomentosum*, *Vaccinium oxycoccus*. Population size: >100<500 dwarf shrubs. Collecting area 60 000 m<sup>2</sup>, seeds sampled from 50 dwarf shrubs, proportion of seed-bearing dwarf shrubs 50%. 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. Scattered with a span of a few hundred metres. 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 pepleoides*. Population size: >1000 shoots. Collecting area 50 000 m<sup>2</sup>, seeds sampled from >100<500 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. 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 Kumpula botanic garden and 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. Collecting area 100 m<sup>2</sup>, seeds sampled from 25-50 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 Kumpula botanic garden and 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 metres, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots >90%. Coll. Hyrkäs, Noora, 2016-08-16.

## Gentianaceae

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

Finland, V, Kemiönsaari, Öro, Balget. Öro Island, in the S shore of the cape E of bay Balget. WGS84 59°48'17"N 22°19'55"E. Sea shore meadow. Population size: 25-50 adult plants on the site, thousands of shoots on the whole island. Collecting area 50 m<sup>2</sup>, seeds sampled from 10-25 shoots. 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. Collecting area 16 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots >90%. 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. Collecting area 15000 m<sup>2</sup>, seeds sampled from 27 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. Collecting area 150 m<sup>2</sup>, seeds sampled from 50 shoots, proportion of seed-bearing shoots >90%. Coll. Miranto, Mari; Tiiri, Marita; Pulkkinen, Merja; Hägglund, Arne, 2014-09-16.

## Juncaceae

### W FI-0-H-2014-0654 *Juncus gerardii* 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. 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 metres NW of the Jorvi hospital area. WGS84 60°13'22"N 24°40'51"E. Wasteland between cycle path and field. Associated species: *Fallopia convolvulus*, *Galium spurium*, *Lapsana communis*, *Spergula arvensis*. Population size: 25-50 shoots. Collecting area 50 m<sup>2</sup>, seeds sampled from 10-25 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. 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. Collecting area 150 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots >90%. 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. 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 pinetorum*, *Filipendula ulmaria*, *Valeriana sambucifolia* subsp. *sambucifolia*, *Aegopodium podagraria*, *Urtica dioica*. Population size: 10-25 shoots. Collecting area 100 m<sup>2</sup>, seeds sampled from 10-25 shoots, proportion of seed-bearing shoots >90%. 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. Seeds sampled from 15 shoots. 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 lakeshore. Associated species: *Alnus glutinosa*, *Betula pubescens*, *Populus tremula*, *Pinus sylvestris*, *Frangula alnus*, *Salix* sp., *Phalaroides arundinacea*, *Lysimachia vulgaris*, *Tussilago farfara*. Scattered. Collected along the shore in the span of 150 m, seed sampled from tens of shoots. 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. Scattered. Seed sampled from 25-50 shoots. 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 horse 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>, seeds sampled from 46 shoots, 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. Collecting area 500 m<sup>2</sup>, 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. Shore of 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. Collecting area 50 m<sup>2</sup>. 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. Collecting area 30 m<sup>2</sup>, seeds sampled from 10-25 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 a 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. Collecting area 0.5 m<sup>2</sup>, seeds sampled from 10-25 plants, proportion of seed-bearing shoots 90%. 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 Gallen-Kallela museum and the bridge between Linudden and Tarvo. WGS84 60°12'21"N 24°50'28"E. Herb-rich forest edge close to seashore. Associated species: *Prunus padus*, *Picea abies*, *Acer platanoides*, *Ribes alpinum*, *Dryopteris filix-mas*, *Anemone nemorosa*, *Aegopodium podagraria*. Population size: 50-100 shoots. Collecting area 200 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots 50-80%. Coll. Miranto, Mari, 2016-05-18 and 2016-05-26.

### **Plantaginaceae**

#### **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. Scattered along the coast with a span of a few hundred metres. 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 pepleoides*, *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. Footpath verge in a mixed forest. Associated species: *Maianthemum bifolium*, *Fragaria vesca*, *Calamagrostis arundinacea*. Scattered. Collecting area a few square metres, seeds sampled from 15 shoots. Coll. Miranto, Mari, 2018-09-16.

**Poaceae**

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

Finland, U, Helsinki, Kumpula. The hill between Kumpula botanic garden and 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: >1 000 culms. Collecting area 1 500 m<sup>2</sup>, seeds sampled from 500 culms, proportion of seed-bearing culms >90%. 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*. Common. Collecting area 50 m<sup>2</sup>, seeds sampled from 25-50 culms. 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. Abundant. Scattered along the coast with a span of a few hundred metres. 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-2016-0473 *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. Collecting area 300 m<sup>2</sup>, seeds sampled from 50-100 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. Collecting area 1 000 m<sup>2</sup>, seeds sampled from 15 shoots, seeds mostly still immature. 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*, *Empetrum nigrum*, *Arctous alpina*, *Saxifraga aizoides*, *Astragalus alpinus* subsp. *arcticus*. Scattered. Seeds sampled from 10 shoots. *Arctous alpina* 2017-0393 and *Saxifraga aizoides* 2017-0409 collected from the same site. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

#### **W FI-0-H-2019-0230 *Rumex crispus* subsp. *littoreus* (Hardy) Akeroyd**

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. Collecting area 30 000 m<sup>2</sup>, seeds sampled from 50 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*. Common. Collecting area 50 m<sup>2</sup>, seeds sampled from 25-50 shoots, proportion of seed-bearing shoots 50%. 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*, *Schedonorus arundinaceus*, *Juncus gerardii*, *Cornus suecica*, *Vicia cracca*, *Lotus corniculatus*, *Plantago maritima*. Population size: hundreds of shoots. Collecting area 40 m<sup>2</sup>, seeds sampled from 40 shoots. Coll. Miranto, Mari, 2018-09-02.

#### **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 lakeshore. Associated species: *Alnus glutinosa*, *Betula pubescens*, *Populus tremula*, *Pinus sylvestris*, *Frangula alnus*, *Salix* sp., *Phalaroides arundinacea*, *Lysimachia vulgaris*, *Tussilago farfara*. 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: *Anthriscus sylvestris*, *Tussilago farfara*, *Phleum pratense*, *Trifolium pratense*, *Carex pallescens*. Population size: rather scarce. Collecting area 200 m<sup>2</sup>, seeds collected from 20 shoots. 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*. Scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

**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*. Abundant. Seeds sampled from 40 shoots. Coll. Lindholm, Mikael; Anttila, Aino, 2017-08-04 and 2017-09-20.

**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. Collecting area 100 m<sup>2</sup>, seeds sampled from 25-50 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 river bank. Scattered. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

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

Finland, U, Helsinki, Koskela, Vanhakaupunki. Both banks of the river Vantaanjoki; W bank: the area between the road Viikintie and the little artificial bay deviating from the river 500 m N; 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. Collecting area 7 000 m<sup>2</sup>, 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-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 vosagiaca*, *Ribes alpinum*. Population size: 4 small scattered bush clusters. Coll. Lindholm, Mikael, 2018-09-10.

**W FI-O-H-2015-0693 *Rosa vosagiaca* (N. H. F. Desp.) Déségl.**

Finland, V, Parainen, Mielisholm, Smedsudden. WGS84 60°13'25"N 22°19'16"E. Strip of land from sea shore 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*, and cultivated *Syringa* and *Ribes* spp. originating from the 19th century, when there was a cabin in the area. Population size: tens of bushes. Collecting area 12 000 m<sup>2</sup>, seeds sampled from 25 bushes or bush clusters, proportion of seed-bearing bushes 50-80 %. Coll. Lindholm, Mikael, 2015-10-05.

**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*. Locally abundant. Collecting area 150 m<sup>2</sup>, seeds sampled from 50-100 ramets. 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. Sawdust jogging track area. WGS84 60°13'42.8"N 24°47'57.6"E. Mixed forest. Population size: hundreds of trees. Collecting area 20 000 m<sup>2</sup>, seeds sampled from 50 trees, proportion of seed-bearing trees >90%. Coll. Miranto, Mari, 2014-08-26.

### **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. Lawn between a road and a parking lot. 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* spp. *arcticus*. Nine small patches. Coll. Lindholm, Mikael; Anttila, Aino, 2017-09-20.

### **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. Common. Coll. Lindholm, Mikael, 2018-08-18.

### **Violaceae**

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

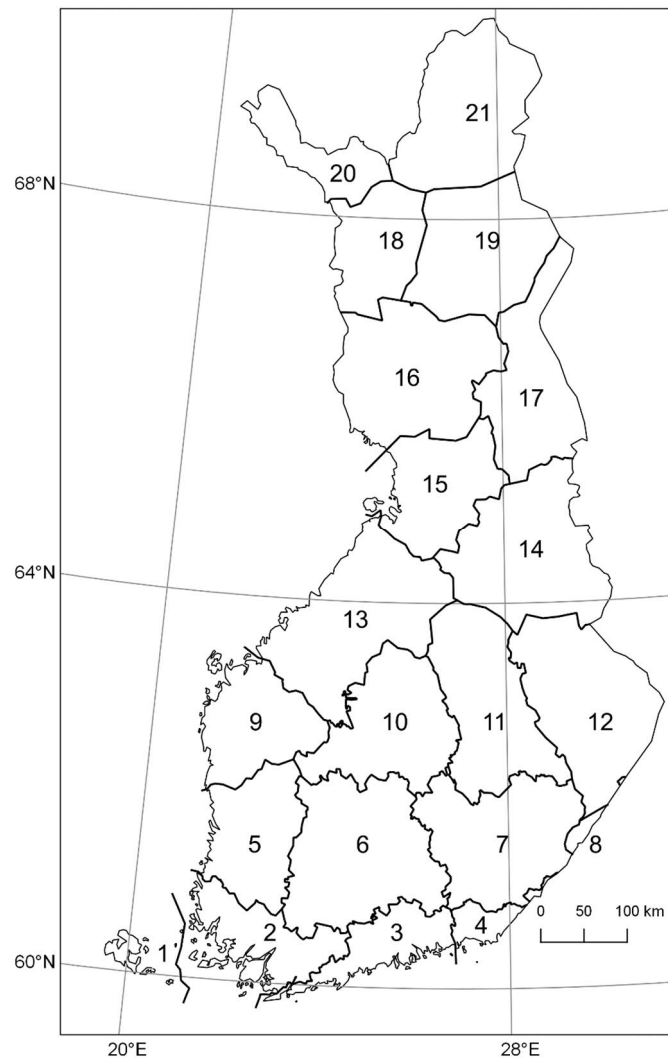
Finland, U, Hanko, Santalankorpi. WGS84 59°51'05.6"N 23°07'41.8"E. *Alnus glutinosa* swamp and *Phragmites australis* dominated alluvial meadow, along ditches. Associated species: *Viola uliginosa*. Population size: >1 000 shoots. Collecting area 20 000 m<sup>2</sup>, seeds sampled from 50 shoots, mostly 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 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

## AGREEMENT ON SUPPLY OF PLANT MATERIAL

The Botanic Gardens of the Botany Unit, Finnish Museum of Natural History, University of Helsinki (subsequently referred to as 'the Garden') recognizes the legal and moral obligations imposed on its work by the Nagoya Protocol, the Convention on Biological Diversity (CBD, Rio de Janeiro 1992), the Convention on International Trade in Endangered Species (CITES), and other agreements and laws relating to the protection and sustainable use of biodiversity. The Garden shall do its utmost to ensure its activities in no way violate the spirit or letter of such regulations, and it expects all its partners to comply with the same standards. Therefore, the Garden supplies whole plants, seeds, spores, other propagules, cuttings, or other plant material (= material) only under the conditions that:

1. The material is used solely for the common good in areas of scientific research, species conservation, and education, and not for commercial purposes.
2. Eventual commercialization of the material is separately agreed upon with the country of origin of the material, following the spirit of the CBD and in compliance with the laws of that country.
3. Information on the material supplied with it is appropriately stored, and the connection between the information and the material is maintained.
4. The Garden is duly acknowledged in the event that publications on the material are produced, and a copy of each such publication is given to the Garden without separate request.
5. The material or any products arising from it is passed to third parties only under the conditions listed in the agreement.

**Note: By ordering seeds you declare that you understand and accept the above conditions.** Institutions that are not member of the IPEN network are asked to send this agreement as signed by responsible person by mail.

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

\_\_\_\_\_

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

\_\_\_\_\_

**Signature of responsible person:**

\_\_\_\_\_



# LUOMUS

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