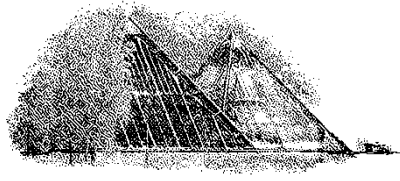


# INDEX

## SEMINUM 2018



**HORTUS BOTANICUS UNIVERSITATIS OULUENSIS  
OULU, FINLANDIA**



## HORTUS BOTANICUS UNIVERSITATIS OULUENSIS OULU, FINLANDIA

### **Agreement on the supply of living plant materials<sup>1</sup> for non-commercial purposes leaving the International Plant Exchange Network**

Against the background of the provisions and decisions of the Convention on Biological Diversity of 1992 (CBD) and in particular those on access to genetic resources and benefit sharing, the garden is dedicated to promoting the conservation, sustainable use, and research of biological diversity. The garden therefore expects its partners in acquiring, maintaining, and transferring plant material to always act in accordance with the CBD and the Convention on the International Trade in Endangered Species (CITES).

The responsibility for legal handling of the plant material passes on to the recipient upon receipt of the material. The requested plant material will be supplied to the recipient only on the following conditions:

1. Based on this agreement, the plant material is supplied only for non-commercial use such as scientific study and educational purposes as well as environmental protection. Should the recipient at a later date intend a commercial use or a transfer for commercial use, the country of origin's prior informed consent (PIC) must be obtained in writing before the material is used or transferred. The recipient is responsible for ensuring an equitable sharing of benefits.
2. On receiving the plant material, the recipient endeavours to document the received plant material, its origin (country of origin, first receiving garden, "donor" of the plant material, year of collection) as well as the acquisition and transfer conditions in a comprehensible manner.
3. In the event that scientific publications are produced based on the supplied plant material, the recipient is obliged to indicate the origin of the material (the supplying garden and if known the country of origin) and to send these publications to the garden and to the country of origin without request.
4. On request, the garden will forward relevant information on the transfer of the plant material to the body charged with implementing the CBD<sup>2</sup>.
5. The recipient may transfer the received plant material to third parties only under these terms and conditions and must document the transfer in a suitable manner (e.g. by using the documentation form, such as provided in Annex 1.3).

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<sup>1</sup> According to the CBD "genetic resources" means genetic material of actual or potential value. This definition covers both living and not living material. The Code of Conduct and the IPEN covers only the exchange of living plant material (living plants or parts of plants, diaspores) thus falling in the definition of genetic resources.

<sup>2</sup> ideally, the national focal point in the garden's home country



BOTANICAL GARDENS  
INDEX SEMINUM 2018

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**Staff:** **Director:** Aspi Jouni, **Curator:** Ruotsalainen Anna Liisa, **Head Gardener:** Kauppila Tuomas

## **Nomenclature**

– <https://www.onki.fi>

– Hämet-Ahti, L., Suominen, J., Ulvinen, T. & Uotila, P.: Retkeilykasvio (Field Flora of Finland). — Ed. 4. 656 pp. Helsinki 1998.

– Hämet-Ahti, L. & al. 2005: Additions and corrections to the fourth edition of Retkeilykasvio (Field Flora of Finland). — *Lutukka* 21(2):41-85

– Hämet-Ahti, L. & al. 2005: Additions and corrections to the fourth edition of Retkeilykasvio (Field Flora of Finland), second part: technical corrections. — *Lutukka* 21(3): 109-116.-

The Botanical Garden Index Seminum is published biennial.

Index is available on website [www.oulu.fi/botgarden](http://www.oulu.fi/botgarden)

## **Requests for seeds**

Requests for seeds for 2019 are advised to be sent before 31st of March 2019.

Non-IPEN members must use the accompanying desiderata form. IPEN members can ignore the form and send their desiderata directly by email to the email address specified on the desiderata form (to [bot.garden@oulu.fi](mailto:bot.garden@oulu.fi)).

Please take note of the 'Agreement on the supply of living plant material for non-commercial purposes leaving the International Plant Exchange Network' s on the reserve of the order form and sign it. Otherwise, we cannot send you seeds.

Material is provided on a 'first-come-first-served' basis, until the available supply is exhausted. Please inform us about any errors in the list.

We cannot provide phytosanitary certificates.

## Seeds and spores collected in the wild

The abbreviation preceding the collection locality refers to the biological province, see also the map on page 11. The exact collecting localities are given according to the World Geodetic System WGS 84.

### FAMILIE

Order Nr. Art, Ipen Nr. Location, Collector, Date.

### APIACEAE

1. *Angelica sylvestris*, FI-0-OULU-2018-149. FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
2. *Angelica archangelica*, NO-0-OULU-2019-9. NO. Troms. Storfjord. Didnujohka. Lat: 69°10'N 25.10''E. BG. 12.9.2018.

### ASTERACEAE

3. *Cirsium helenioides*, NO-0-OULU-2019-12 NO. Troms. Storfjord. Gåldajärvi. Lat: 69°5'N Long: 20°30'E. Alt: 520 m. AH. 8.9.2018.
4. *Gnaphalium norvegicum*, SE-0-OULU-2018-122 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
5. *Leontodon autumnalis*, NO-0-OULU-2018-175 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2018.
6. *Saussurea alpina*, NO-0-OULU-2018-163 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
7. *Solidago virgaurea*, NO-0-OULU-2018-161 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
8. *Solidago virgaurea*, NO-0-OULU-2018-174 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
9. *Solidago virgaurea*, SE-0-OULU-2018-114 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'67''N Long: 20°20'35' E. Alt: 590 m. AH. 3.10.2017.

### BETULACEAE

10. *Betula nana*, NO-0-OULU-2019-5 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44'19.77''N Long: 20°0'36.10''E. BG. 13.9.2018.
11. *Betula nana*, SE-0-OULU-2018-128 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
12. *Betula pubescens* subsp. *czerepanovii*, SE-0-OULU-2018-121 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. 590 m. AH. 3.10.2017.

### BRASSICACEAE

13. *Cardamine bellidifolia*, NO-0-OULU-2019-2 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44' 19.77''N Long: 20°0'36.10''E. BG. 13.9.2018.

### CAMPANULACEAE

14. *Campanula rotundifolia*, NO-0-OULU-2018-155 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.

### CARYOPHYLLACEAE

15. *Cerastium alpinum* subsp. *alpinum*, SE-0-OULU-2018-116 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
16. *Cerastium alpinum*, NO-0-OULU-2019-7 NO. Troms. Lyngen. Blåvatnet. Lat: 69° 44' 19.77''N Long: 20° 0' 36.10''E. BG. 13.9.2018.
17. *Silene acaulis*, NO-0-OULU-2019-14 NO. Storfjord. Njearrelahku. Lat: 69° 3'N Long: 20°10'E. Alt: 800 m. AH. 10.9.2018.
18. *Silene dioica*, FI-0-OULU2018-143 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
19. *Silene dioica*, FI-0-OULU2019-21 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 5.8.2017.
20. *Silene dioica*, NO-0-OULU-2019-48 NO. Troms. Storfjord. Gåldajärvi. Lat: 69° 5'N Long: 20° 30'E. Alt: 520 m. AH. 8.9.2018.
21. *Stellaria graminea*, NO-0-OULU-2018-183 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
22. *Viscaria alpina*, SE-0-OULU-2018-123 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.

## CORNACEAE

23. *Cornus suecica*, FI-0-OULU2018-145 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
24. *Cornus suecica*, NO-0-OULU-2019-33 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.

## CRASSULACEAE

25. *Rhodiola rosea*, SE-0-OULU-2018-115 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
26. *Rhodiola rosea*, NO-0-OULU-2018-137 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 31.12.2018.

## CUPRESSACEAE

27. *Juniperus communis*, FI-0-OULU2019-26 FI. EnL. Enontekiö. Kiehuvuopio. Lat: 68.5636 N Long: 21.9624 E. Alt: 370 m. BG. 15.9.2017.
28. *Juniperus communis*, NO-0-OULU-2019-44 NO. Troms. Storfjord. Skibotn. Lat: 69°23'21.88''N Long: 20°15'40.83''E. BG. 12.9.2018.

## CYPERACEAE

29. *Carex atrata*, NO-0-OULU-2018-138 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51'' E. AH. 5.10.2017.
30. *Carex bigelowii* subsp. *rigida*, NO-0-OULU-2018-139 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
31. *Eriophorum angustifolium*, NO-0-OULU-2018-153 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
32. *Eriophorum scheuchzeri*, NO-0-OULU-2018-133 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
33. *Eriophorum vaginatum*, NO-0-OULU-2018-164 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
34. *Trichophorum cespitosum*, NO-0-OULU-2018-152 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.

## DIAPENSIACEAE

35. *Diapensia lapponica*, SE-0-OULU-2018-124 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
36. *Diapensia lapponica*, NO-0-OULU-2019-22 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10'' Long: 20°47'37.96''E. BG. 12.09.2017.

## ELAEAGNACEAE

37. *Hippophaë rhamnoides*, FI-0-OULU2018-140 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.

## EMPETRACEAE

38. *Empetrum nigrum*, NO-0-OULU-2018-171 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.

## ERICACEAE

39. *Arctostaphylos alpina*, NO-0-OULU-2019-45 NO. Troms. Kåfjord. Blåvatnet. Lat: 69°44'19.77''N Long: 20°0'36.10''E. BG. 13.9.2018.
40. *Arctostaphylos uva-ursi*, FI-0-OULU2018-141 FI. PeP. Kemi. Lat: 65.6739 N Long: 24.5180 E. Ajos. BG. 11.9.2017.
41. *Cassiope hypnoides*, FI-0-OULU2019-41 FI. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 24.10.2018.
42. *Cassiope tetragona*, NO-0-OULU-2018-157 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10'' N Long: 20°47'37.96''E. BG. 12.9.2017.
43. *Loiseleuria procumbens*, NO-0-OULU-2018-159 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
44. *Loiseleuria procumbens*, NO-0-OULU-2019-49 NO Storfjord. Njearrelahku. Lat: 69°3'N Long: 20°10'E. Alt: 800 m. AH. 10.9.2018.
45. *Phyllodoce caerulea*, NO-0-OULU-2018-136 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
46. *Phyllodoce caerulea*, NO-0-OULU-2018-151 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
47. *Pyrola rotundifolia* subsp. *norvegica*, NO-0-OULU-2018-172 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
48. *Rhododendron lapponicum*, NO-0-OULU-2019-23 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
49. *Rhododendron lapponicum*, NO-0-OULU-2019-50 NO Storfjord. Njearrelahku. Lat: 69°3'N Long: 20°10'E. Alt: 800 m. AH. 10.9.2018.

50. *Vaccinium microcarpum*, FI-0-OULU2019-31FI. EnL.Enontekiö. Lat: 68°52.817 N Long: 21° 04.730 E. Peera. BG. 11.9.2017.
51. *Vaccinium myrtillus*, NO-0-OULU-2019-25 NO. Troms. Kåfjord. Ankerlia. Lat: 69°23'43''N Long: 21°00'32''E. BG. 13.9.2017.
52. *Vaccinium uliginosum*, NO-0-OULU-2019-34 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
53. *Vaccinium vitis-idaea*, FI-0-OULU2018-148 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
54. *Vaccinium vitis-idaea*, NO-0-OULU-2018-168 NO. Troms. Storfjord. Skibotn. Lat: 69°22'37''N Long: 20°16'15''E. Strandby. BG. 14.9.2017.
55. *Vaccinium vitis-idaea*, NO-0-OULU-2019-17 NO. Troms. Storfjord. Parasdalen. Lat: 69°5'21.22''N Long: 20°6'31.52''E. BG. 11.09.2018.

#### FABACEAE

56. *Astragalus alpinus*, SE-0-OULU-2018-127 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
57. *Astragalus alpinus*, NO-0-OULU-2018-178 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
58. *Lathyrus japonicus* subsp. *maritimus*, FI-0-OULU2019-43 FI. OP. Hailuoto. Marjaniemi. Lat: 65°02.3'N Long: 24° 33'E. BG. 28.8.2018.

#### GENTIANACEAE

59. *Gentiana nivalis*, SE-0-OULU-2018-113 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.

#### GERANIACEAE

60. *Geranium sylvaticum*, FI-0-OULU2019-20 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. AH. 6.8.2018.

#### JUNCACEAE

61. *Luzula spicata*, NO-0-OULU-2018-131 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
62. *Luzula spicata*, NO-0-OULU-2019-46 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 26.10.2018.
63. *Luzula sudetica*, NO-0-OULU-2018-160 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2018.

#### LENTIBULARIACEAE

64. *Pinguicula alpina*, NO-0-OULU-2019-30 NO. Troms. Kåfjord. Ankerlia. Lat: 69°23'43''N Long: 21°00'32''E. BG. 13.09.2017.

#### LINNAEACEAE

65. *Linnaea borealis*, NO-0-OULU-2018-165 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2018.
66. *Linnaea borealis*, NO-0-OULU-2019-29 NO. Troms. Kåfjord. Ankerlia. Lat: 69°23'43''N Long: 21°00'32''E. BG. 13.09.2017.

#### LYTHRACEAE

67. *Lythrum salicaria*, FI-0-OULU2019-38 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N. Long: 25.2140 E. Alt: 131 m. AH. 30.9.2018.

#### MELANTHIACEAE

68. *Paris quadrifolia*, FI-0-OULU2018-142 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.

#### MYRSINACEAE

69. *Trientalis europaea*, NO-0-OULU-2019-10 NO. Troms. Storfjord. Gåldajärvi. Lat: 69°5'N Long: 20°30'E. Alt: 520 m. AH. 8.9.2018

#### ORCHIDACEAE

70. *Chamorchis alpina*, NO-0-OULU-2019-28 NO. Troms. Kåfjord. Ankerlia. Lat: 69°23'43''N Long: 21°00'32''E. BG. 13.9.2017

#### OROBANCHACEAE

71. *Bartsia alpina*, NO-0-OULU-2019-24 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.09.2017.
72. *Bartsia alpina*, NO-0-OULU-2019-6 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44'19.77''N Long: 20°0'36.10''E. BG. 13.09.2018.
73. *Euphrasia frigida*, SE-0-OULU-2018-119 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
74. *Pedicularis lapponica*, NO-0-OULU-2018-166 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.

75. *Pedicularis lapponica*, SE-0-OULU-2018-125 SE. Lappland. Kiruna. Pältsanjåkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
76. *Pedicularis palustris* subsp. *palustris*, FI-0-OULU2019-47 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 30.9.2018.
77. *Pedicularis sceptrum-carolinum*, NO-0-OULU-2018-184 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
78. *Rhinanthus minor*, NO-0-OULU-2018-154 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2018.
79. *Rhinanthus minor*, NO-0-OULU-2018-181 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.

#### **OXALIDACEAE**

80. *Oxalis acetosella*, FI-0-OULU2019-36 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 20.8.2017.

#### **PARNASSIACEAE**

81. *Parnassia palustris*, NO-0-OULU-2018-179 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
82. *Parnassia palustris*, NO-0-OULU-2019-42 NO. Troms. Storfjord. Parasdalen. Lat: 69° 5' 21.22''N Long: 20°6'31.52''E. BG. 11.9.2018.

#### **PINACEAE**

83. *Pinus sylvestris*, NO-0-OULU-2018-182 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.

#### **PLANTAGINACEAE**

84. *Veronica alpina*, NO-0-OULU-2019-13 NO. Storfjord. Njearrelahku. Lat: 69°3'N Long: 20°10'E Alt: 800 m. AH. 10.9.2018.

#### **POACEAE**

85. *Anthoxanthum odoratum* subsp. *alpinum*, NO-0-OULU-2019-40 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 24.10.2018.
86. *Calamagrostis purpurea*, NO-0-OULU-2019-8 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.09.2018.
87. *Festuca rubra*, SE-0-OULU-2018-126 SE. Lappland. Kiruna. Pältsanjåkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
88. *Milium effusum*, NO-0-OULU-2019-11 NO. Troms. Storfjord. Lat: 69°5'N Long: 20°30'E. Gåldajärvi. AH. 8.9.2018.
89. *Molinia caerulea*, FI-0-OULU2019-37 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003. Long: 25.2140. Alt: 131 m. AH. 30.9.2018.
90. *Nardus stricta*, NO-0-OULU-2018-158 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
91. *Phleum alpinum*, NO-0-OULU-2019-27 NO. Troms. Kåfjord. Ankerlia. Lat: 69°23'43''N Long: 21°00'32''E. BG. 13.9.2017.

#### **POLEMONIACEAE**

92. *Polemonium caeruleum*, NO-0-OULU-2019-19 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 10.10.2018.

#### **POLYGONACEAE**

93. *Oxyria digyna*, NO-0-OULU-2018-135 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.

#### **RANUNCULACEAE**

94. *Caltha palustris*, FI-0-OULU2019-18 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 21.6.2018.
95. *Ranunculus acris*, NO-0-OULU-2018-132 NO. Troms. Storfjord. Lat: 69°05'16''N Long: 20°10'51''E. Paras. AH. 5.10.2018.
96. *Ranunculus glacialis*, NO-0-OULU-2018-130 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. Alt: 1000 m. AH. 5.10.2017.
97. *Thalictrum alpinum*, NO-0-OULU-2019-16 NO. Storfjord. Njearrelahku. Lat: 69°3'N Long: 20°10'E. Alt: 800 m. AH. 10.9.2018.
98. *Trollius europaeus*, NO-0-OULU-2018-162 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
99. *Trollius europaeus*, SE-0-OULU-2018-120 SE. Lappland. Kiruna. Pältsanjåkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.



## ROSACEAE

100. *Alchemilla alpina*, NO-0-OULU-2019-35 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44'19.77''N Long: 20°0'36.10''E. BG. 13.9.2018.
101. *Comarum palustre*, NO-0-OULU-2018-177 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
102. *Dryas octopetala*, NO-0-OULU-2019-4 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44'19.77''N Long: 20° 0' 36.10''E. BG. 13.09.2018.
103. *Geum rivale*, FI-0-OULU2019-39 FI. PH. Kannonkoski. Koiraniemi. Lat: 63.003 N Long: 25.2140 E. Alt: 131 m. AH. 30.9.2018.
104. *Potentilla crantzii*, SE-0-OULU-2018-118 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
105. *Rosa majalis*, FI-0-OULU2018-150 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
106. *Rubus chamaemorus*, NO-0-OULU-2019-32 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10''N Long: 20°47'37.96''E. BG. 12.9.2017.
107. *Rubus idaeus*, NO-0-OULU-2018-170 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
108. *Rubus saxatilis*, FI-0-OULU2018-144 FI. PeP. Kemi. Ajos. Lat: 65.6739 N. Long: 24.5180 E. BG. 11.9.2017.
109. *Rubus saxatilis*, NO-0-OULU-2018-169 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.
110. *Sibbaldia procumbens*, NO-0-OULU-2018-129 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
111. *Sorbus aucuparia*, FI-0-OULU2018-147 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.
112. *Sorbus aucuparia*, NO-0-OULU-2018-167 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.

## RUSCACEAE

113. *Convallaria majalis*, FI-0-OULU2018-146 FI. PeP. Kemi. Ajos. Lat: 65.6739 N Long: 24.5180 E. BG. 11.9.2017.

## SAXIFRAGACEAE

114. *Saxifraga oppositifolia*, NO-0-OULU-2018-134 NO. Troms. Storfjord. Paras. Lat: 69°05'16''N Long: 20°10'51''E. AH. 5.10.2017.
115. *Saxifraga oppositifolia*, NO-0-OULU-2019-51 NO Storfjord. Njearrelahku. Lat: 69° 3'N Long: 20° 10'E. Alt: 800 m. AH. 10.9.2018.
116. *Saxifraga oppositifolia*, SE-0-OULU-2018-117 SE. Lappland. Kiruna. Pältsanjäkka. Lat: 68°58'067''N Long: 20°20'35''E. Alt: 590 m. AH. 3.10.2017.
117. *Saxifraga stellaris*, NO-0-OULU-2019-15 NO Storfjord. Njearrelahku. Lat: 69° 3'N Long: 20°10'E. Alt: 800 m. AH. 10.9.2018.
118. *Saxifraga stellaris*, NO-0-OULU-2019-3 NO. Troms. Lyngen. Blåvatnet. Lat: 69°44'19.77''N Long: 20°0'36.10''E. BG. 13.9.2018.

## TAMARICACEAE

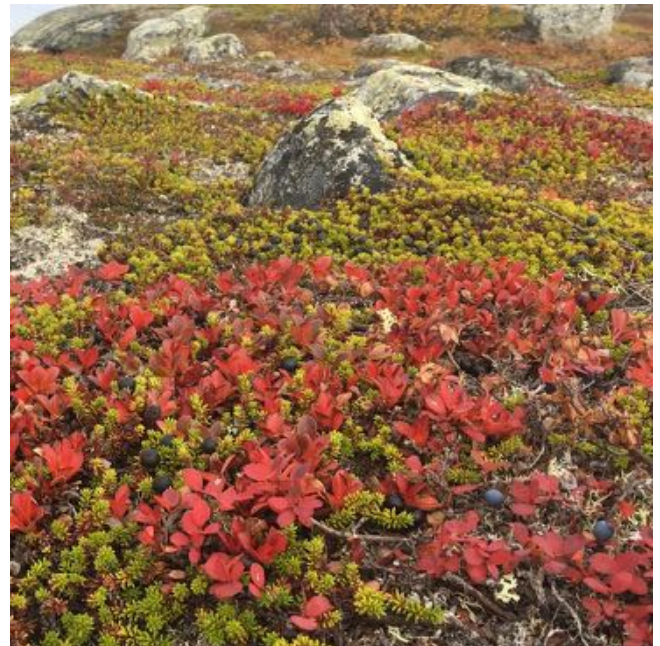
119. *Myricaria germanica*, NO-0-OULU-2018-173 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2017.

## TOFIELDIACEAE

120. *Tofieldia pusilla*, NO-0-OULU-2018-156 NO. Troms. Storfjord. Didnujohka. Lat: 69°10'25.10'' N Long: 20°47'37.96''E. BG. 12.9.2017.

## VALERIANACEAE

121. *Valeriana sambucifolia*, NO-0-OULU-2018-176 NO. Troms. Storfjord. Skibotn. Strandby. Lat: 69°22'37''N Long: 20°16'15''E. BG. 14.9.2018.



## Collectors

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**AH** Aino Hämäläinen

## Appendix 1.

### BIOGEOGRAPHICAL PROVINCES IN FINLAND:

A/A	Ahvenanmaa (Alandia)
V/Ab	Varsinais-Suomi/ (Regio aboënsis)
U/N	Uusimaa (Nylandia)
EK/Ka	Etelä-Karjala (Karelia australis)
St/St	Satakunta (Satakunta)
EH/Ta	Etelä-Häme (Tavastia australis)
ES/Sa	Etelä-Savo (Savonia australis)
LK/Kl	Laatokan Karjala (Karelia ladogensis)
EP/Oa	Etelä-Pohjanmaa (Ostrobothnia australis)
PH/Tb	Pohjois-Häme (Tavastia borealis)
PS/Sb	Pohjois-Savo (Savonia borealis)
PK/Kb	Pohjois-Karjala (Karelia borealis)
KP/Om	Keski-Pohjanmaa (Ostrobothnia media)
Kn/Kn	Kainuu (Ostrobothnia kajanensis)
OP/Obo	Oulun Pohjanmaa (Ostrobothnia ouluensis)
PeP/Obu	Perä-Pohjanmaa (Ostrobothnia ultima)
<b>Ks/Ks</b>	<b>Koillismaa</b> <b>(Regio kuusamoënsis)</b>
KiL/Lkk	Kittilän Lappi (Lapponia kittilensis)
SoL/Lks	Sompion Lappi (Lapponia sompiensis)
EnL/Le	Enontekiön Lappi (Lapponia enontekiensis)
InL/Li	Inarin Lappi (Lapponia inarensis)

