

160/1997

Nature Conservation Decree

Issued in Helsinki, February 7, 1997

Chapter 1

General provisions

Section 1

Cooperation between authorities

The environmental authorities and the forestry authorities shall cooperate in the formulation of principles for the management and use of commercial forests within the confines of a nature conservation programme, a protected habitat type, a landscape conservation area, a site hosting a species under strict protection and sites included in, or proposed by the Council of State for inclusion in, the Natura 2000 network.

Regarding land owned by the State, the agency or institution administering a site referred to in paragraph 1 shall be involved in this cooperation.

Section 2

Monitoring of naturally occurring species and natural habitat types

The Ministry of the Environment shall organize the monitoring of naturally occurring species and natural habitat types so as to establish their conservation status. Special priority shall be assigned to endangered species, priority species and habitat types referred to in the Directive of the Council of the European Community (92/43/EEC) on the conservation of natural habitats and of wild fauna and flora, hereinafter the Habitats Directive, and to items listed in annex V of the Directive of the Council of the European Community (79/409/EEC) on the conservation of wild birds.

If monitoring data indicate that the conservation status of a species or natural habitat type is no longer favourable, the Ministry of the Environment shall take steps to restore its favourable conservation status.

Section 3

Nature conservation information system

An information system (*nature conservation information system*) shall be maintained on nature reserves, natural monuments, nature conservation programmes, natural habitat types, sites hosting endangered species, sites included in or proposed by the Council of State for inclusion in the Natura 2000 network and landscape conservation areas.

The information system shall contain decisions taken under the Nature Conservation Act (1096/1996) and other essential data related to the planning, implementation, supervision and research of nature and landscape conservation, as provided in further detail by the Ministry of the Environment.

Paragraph 3 was repealed by decree issued May 21, 1999 (694/1999).

Paragraph 4 was repealed by decree issued May 21, 1999 (694/1999).

Chapter 2

Nature conservation programmes

Section 4

Nature conservation programme

In addition to what is provided in section 7 of the Nature Conservation Act, a nature conservation programme shall state the conservation objectives and the criteria by which sites are selected for protection, and define the sites to be included. The location and boundaries of sites included in the programme shall be indicated on an appropriate map, and the programme shall include an appended assessment of its financial and social implications.

Section 5

Obtaining opinions on a nature conservation programme

A proposed nature conservation programme shall be submitted for the opinion of all government authorities and institutions within whose jurisdiction it lies, the local authority concerned, the Regional Council, national non-governmental nature-

conservation and environmental organizations and associations promoting the interests of landowners.

Chapter 3

Acquisition and administration of nature reserves

Section 6

Acquisition of nature reserves

The Ministry of the Environment shall decide on State acquisition of land for the purpose of nature conservation. The Ministry of the Environment can, however, delegate this duty, either wholly or in part, to a regional environmental centre.

Land purchased by the State for the purpose of nature conservation shall be under the administration of the Ministry of the Environment. Before such land is designated as a nature reserve, the Ministry of the Environment is authorized to delegate its administration to the Finnish Forest and Park Service.

In accordance with the Act on the Finnish Forest and Park Service (1169/1993), the Forest and Park Service shall decide on the acquisition of land for the purpose of nature conservation in line with annual objectives adopted by Parliament. Such lands are administered by the Forest and Park Service.

Section 7

Administration of nature reserves

State-owned nature reserves are administered by the Forest and Park Service, unless provided or decided otherwise when the reserve is designated. Authorities and agencies in charge of administering nature reserves shall see that they are used and managed as instructed by the Ministry of the Environment.

What is provided in paragraph 1 shall not apply, however, to nature reserves administered by some other ministry.

Any decision made by the Forest and Park Service under section 17, paragraph 1 of the Nature Conservation Act, to designate a nature reserve shall be published in the Statute Book of Finland.

Section 8

Council for National Parks

The Forest and Park Service and the Finnish Forest Research Institute are authorized to appoint a council to oversee matters related to the management and use of national parks. The council may include, among others, representatives of the government authorities and local authorities concerned, scientific and nature conservation organizations and representatives of the local community.

Section 9

Compensation paid in instalments

The first instalment of compensation referred to in section 54 of the Nature Conservation Act shall be paid within the period provided for final payment of compensation in section 52 of the Act on Redemption of Immovable Property and Special Rights (603/1977). Other instalments shall be paid at yearly intervals after the lapse of said period.

If the sum of compensation is less than 50,000 euros, it shall not be split up into instalments. (10.1.2002/14)

Chapter 4

Natural habitat types and landscape conservation areas

Section 10

Protected habitat types

The characteristic features of a natural habitat type are taken to include bedrock or soil, hydro-ecology and food chain and the plant and animal species and populations that have naturally adapted to these conditions.

The natural habitat types referred to in section 29 of the Nature Conservation Act refer to the following habitats:

- 1) Wild woods rich in broad-leafed deciduous species, with at least 20 tree-sized broad-leafed deciduous tree specimens growing either in one cluster or several adjacent clusters per hectare within a contiguous tract of land to which boundaries can be assigned. Deciduous broad-leafed species are oak, small-leafed lime, maple, ash, fluttering elm and wych elm. A tree is tree-sized when its diameter exceeds seven centimetres at a height of 1.3 metres. In the case of oak, however, said diameter shall be 20 centimetres at said height.
- 2) Hazel woods with at least 20 hazel bush specimens of at least two metres in height or width growing either in one or several adjacent clusters per hectare within a contiguous tract of land to which boundaries can be assigned.
- 3) Common alder woods rich in swampland or springs, having common alder as the predominant tree species and with lady ferns, marsh ferns and other large ferns as tussock undergrowth. Interceding undergrowth consists of swamp vegetation, usually plants of the arum family and irises.
- 4) Sandy shores in their natural state, covering an area large enough to form a contiguous expanse of vegetation that hosts plant and animal species typical for sandy shore habitats. The soil substance consists of sand or silt, the shore profile not being significantly altered by development, reclaiming or levelling.
- 5) Coastal meadows, being uncultivated and characterised by open terrain and low-growing vegetation as a result of natural processes or traditional livelihoods, and consisting of nearly treeless and shrubless grass- or herb-rich coastal terrain.
- 6) Treeless or naturally sparsely wooded sand dunes formed from particles transported and piled by winds, which are, silviculturally, wasteland or low-productive land.
- 7) Juniper meadows, or uncultivated semi-open terrain consisting of moist or dry meadows shaped by traditional livelihoods. An abundance of juniper is the outstanding feature of the landscape, alternating with typical rock and meadow vegetation.

8) Wooded meadows consisting of semi-open terrain and having at least five trees reaped for leaf fodder per hectare in alternation with typical meadow vegetation.

9) Single trees or groups of not more than five trees dominating an open landscape, typically being thick-trunked, old, often ramified and broad-crowned. The diameter of pine, birch or oak shall be at least 60 centimetres at a height of 1.3 metres, and 40 centimetres for other tree species. 'Open landscape' is not taken to include regenerated forest areas.

Section 11

Notification and registration of decisions

Notification of a decision made by a regional environment centre under section 30 or 47 of the Nature Conservation Act shall be given to the forestry centre, local authority and Regional Council.

The decision shall also be entered in the real estate register.

Section 12

Cooperation between regional environment centres and forestry centres

Regional environment centres shall cooperate with local forestry centres in setting the boundaries of natural habitat types as referred to in section 29, paragraph 1, subparagraphs 1-3, of the Nature Conservation Act before the decision referred to in section 30 of said Act is made. Regarding land owned by the State, the regional environment centre shall also collaborate with the authority or institution administering it.

Section 13

Preparing a decision concerning a landscape conservation area

The Ministry of the Environment shall cooperate with the Ministry of Agriculture and Forestry in preparing the decision to designate a landscape conservation area of national interest in agricultural or forest areas.

The Regional Council shall cooperate with the forestry centre in drafting proposals for the designation of a landscape conservation area for the protection of a forest landscape.

Section 14

Opinions obtained on a proposal for a landscape conservation area

An opinion shall be obtained on a proposed landscape conservation area from those government authorities and agencies in whose jurisdiction it lies, from the local authority concerned, the Regional Council and from the non-governmental organizations involved in nature conservation and environmental protection and from other associations promoting the interests of landowners in the area concerned.

Section 15

Decision on a landscape conservation area

The decision to designate a landscape conservation area shall specify which precise elements constitute its scenic value and the objectives of its protection and management. The designation decision shall include provisions on preservation of the landscape conservation area or any part thereof, as specified in section 34, paragraph 1.

Section 16

Outdoor advertising

Notices and advertisements announcing a meeting, public briefing, entertainment or other comparable function, or elections or a referendum, as referred to in section 36, paragraph 2, of the Nature Conservation Act, shall be posted no earlier than one month prior to the event in question and shall be removed within one week after the function is held.

Chapter 5

Protection of species

Section 17
Fish species

Fish species within the scope of application of the Nature Conservation Act, as referred to in section 37 of said Act, are listed in appendix 1 to this decree.

Section 18
Protection of animal species

Animal species protected throughout the country under the provisions of section 38, paragraph 2, of the Nature Conservation Act are listed in appendix 2 to this decree.

Section 19
Large birds of prey

Large birds of prey referred to in section 39, paragraph 2 of the Nature Conservation Act are the golden eagle (*Aquila chrysaetos*), sea eagle (*Haliaeetus albicilla*), spotted eagle (*Aquila clanga*), the lesser spotted eagle (*Aquila pomarina*) and osprey (*Pandion haliaeetus*).

Section 20
Protected plant species

Plant species protected throughout the country under the provisions of section 42, paragraph 1, of the Nature Conservation Act are listed in appendix 3(a) of this decree, protected vascular plants south of Oulu Province are listed in appendix 3(b) and vascular plants protected in the provinces of Oulu and Lapland are listed in appendix 3(c).

The Ministry of the Environment shall issue more detailed provisions in its decision on the gathering and taking for commercial purposes of tree-sized or pillar-like junipers and on the gathering of sea buckthorn berries.

Section 21

Threatened species

Threatened species referred to in section 46 of the Nature Conservation Act are listed in appendix 4 of this decree.

Section 22

Species under strict protection

Species under strict protection referred to in section 47, paragraph 1, of the Nature Conservation Act are marked with an asterisk (*) in appendix 4 of this decree.

Section 23

Species occurring in Finland listed in annex IV (a) of the Habitats Directive

Section 49, paragraph 1 of the Nature Conservation Act shall apply to species listed in annex IV(a) of the Habitats Directive, which occur naturally in Finland and are listed in appendix 5 of this decree.

Chapter 6

Miscellaneous provisions

Section 23a (3.10.1997/916)

Designated customs offices for import and export of specimens representing threatened species

When importing or exporting animals, or parts or derivatives thereof, referred to in Council Regulation (EC) No. 338/97 on the Protection of Species of Wild Flora and Fauna by Regulating Trade Therein, from or to countries outside the European Community (*third countries*), the designated customs offices referred to in section 44a of the Nature Conservation Act are:

- 1) Helsinki, port;
- 2) Helsinki-Vantaa airport;

- 3) Vaalimaa;
- 4) Kilpisjärvi;
- 5) Raja-Jooseppi.

When importing or exporting plants, or parts or derivatives thereof, referred to in the Council Regulation mentioned in paragraph 1, from or to third countries, the designated customs offices referred to in section 44a of the Nature Conservation Act are:

- 1) Helsinki, port;
- 2) Helsinki-Vantaa airport;
- 3) Turku;
- 4) Vaalimaa.

Section 24

The Natura 2000 network and the Network of Baltic Sea Coastal and Marine Protected Areas

What is provided in section 5 concerning opinions obtained for proposed nature conservation programmes shall apply, as appropriate, to sites proposed for inclusion in the Natura 2000 network and the Network of Baltic Sea Coastal and Marine Protected Areas.

Before any decision is made which is likely to result in a significant contraction or substantial deterioration in the protection or management of a site included in the Network of Baltic Sea Coastal and Marine Protected Areas, the Baltic Marine Environment Commission shall be given an opportunity to state its opinion on the matter.

Section 25

More detailed provisions

More detailed provisions on the implementation of this Decree shall be issued as necessary by the Ministry of the Environment.

Section 26

Entry into force and repeals

This decree comes into effect on March 1, 1997.

This decree repeals the following decrees and Council of State decision:

- 1) decree on the protection of certain plant species, issued May 22, 1992 (450/1992) and later amendments thereto;
- 2) decree on the protection of certain animal species, issued June 10, 1994 (483/1994);
- 3) decree on the acquisition, administration and management of nature reserves, issued April 26, 1996 (296/1996); and
- 4) Council of State decision on species under strict protection, issued June 1, 1989 (519/1989).

The Ministry of the Environment decision on the duties of regional environment centres in the acquisition of nature reserves (298/1996) issued under the decree repealed above in paragraph 2, subparagraph 3, shall nevertheless remain in force.

Annex 1

FISH SPECIES WITHIN THE SCOPE OF APPLICATION OF THE NATURE
CONSERVATION ACT**Abramis ballerus***Alburnus alburnus**Ammodytes tobianus**Belone belone***Blicca bjoerkna**Carassius carassius**Cobitis taenia**Cottus gobio**Cottus poecilopus**Culaea inconstans**Cyclopterus lumpus**Gasterosteus aculeatus**Gobio gobio**Gobius niger**Gobiusculus flavescens**Hyperoplus lanceolatus**Ictalurus nebulosus**Lampetra planeri**Leucaspis delineatus**Leuciscus cephalus**Leuciscus leuciscus**Liparis liparis**Lumpenus lampetraeformis**Myoxocephalus scorpius**Nerophis ophidion**Noemacheilus barbatulus**Pelecus cultratus**Pholis gunnellus**Phoxinus phoxinus**Pomatoschistus microps**Pomatoschistus minutus**Pungitius pungitius***Scardinius erythrophthalmus**Spinachia spinachia**Sygnathus typhle**Taurulus bubalis**Zoarces viviparus*

* fish species marked with asterix occur in large
populations in particular in eutrophic waters.

Annex 2

PROTECTED ANIMAL SPECIES**Reptilia***Anguis fragilis**Coronella austriaca**Lacerta vivipara*

Natrix natrix

Amphibia

Bufo bufo

Rana arvalis

Rana temporaria

Triturus cristatus

Triturus vulgaris

Mollusca

Margaritifera Margaritifera

Unio crassus

Lepidoptera

Agriades glandon

Bembecia ichneumoniformis (B. scopigera)

Caryocolum petryi

Chloroclystis v-ata relictata

Clossiana thore thore

Clossiana titania

Cynaeda dentalis

Ethmia terminella

Eurodryas aurinia

Hesperia comma catana

Hypodryas maturna

Lobesia euphorbiana

Lopinga achine

Lycaena dispar

Maculinea arion

Melitaea diamina

Parnassius apollo

Parnassius mnemosyne

Pseudophilotes baton

Scolitantides orion

Scopula corrivalaria

Scopula decorata

Zygaena osterodensis

Coleoptera

Cucujus cinnaberinus

Dytiscus latissimus

Graphoderus bilineatus

Osmoderma eremita.23

Odonata

Aeshna viridis

Leucorrhinia albifrons

Leucorrhinia caudalis

Leucorrhinia pectoralis

Annex 3(a)

**PLANT SPECIES PROTECTED THROUGHOUT
THE COUNTRY**

Tracheophyta

Aconitum lycoctonum (*A. septentrionale*)
Agrimonia pilosa
Alisma wahlenbergii
Androsace septentrionalis
Anemone patens
Anemone trifolia
Anemone vernalis
Antennaria lanata
Anthyllis vulneraria
Arctagrostis latifolia
Arctophila fulva
Arenaria norvegica
Arenaria pseudofrigida (*A. ciliata*)
Armeria maritima
Arnica angustifolia
Artemisia campestris subsp. *bottnica*
Asarum europaeum
Asperula tinctoria
Asplenium adulterinum
Bistorta major (*Polygonum bistorta*)
Botrychium simplex
Botrychium virginianum
Bromus benekenii
Calypso bulbosa
Campanula uniflora
Cardamine flexuosa
Cardamine impatiens
Cardamine parviflora
Carduus nutans
Carex hartmanii
Carex holostoma
Carex lepidocarpa subsp. *jemtlandica*
Carex paniculata
Carex vulpina
Carlina biebersteinii (*C. vulgaris* subsp. *longifolia*)
Carlina vulgaris (*C. vulgaris* subsp. *vulgaris*)
Cephalanthera rubra
Chamorchis alpina
Cinna latifolia
Cladium mariscus
Clematis alpina subsp. *sibirica* (*C. alpina*)
Crepis praemorsa
Crepis tectorum subsp. *nigrescens*
Cynoglossum officinale
Cypripedium calceolus
Dactylorhiza incarnata subsp. *cruenta*
Dactylorhiza majalis
Dactylorhiza sambucina
Daphne mezereum
Dianthus arenarius.²⁴

Diplazium sibiricum
Draba alpina
Draba cinerea
Dryopteris fragrans
Elymus farctus
Epilobium obscurum
Epipactis atrorubens
Epipactis helleborine
Epipactis palustris
Epipogium aphyllum
Erica tetralix
Erigeron borealis
Euphorbia palustris
Festuca gigantea
Galium saxatile
Gentianella tenella
Gypsophila fastigiata
Hammarbya paludosa
Helianthemum nummularium
Hepatica nobilis
Hippophaë rhamnoides
Hippuris tetraphylla
Hypericum montanum
Juniperis communis (tree-like and pillar-like)
Kobresia simpliciuscula
Lappula deflexa
Lathraea squamaria
Lathyrus vernus
Leersia oryzoides
Lepidium latifolium
Listera ovata
Lonicera caerulea
Malus sylvestris
Melampyrum arvense
Melica ciliata
Microstylis monophyllos
Moehringia lateriflora
Najas flexilis
Najas tenuissima
Neottia nidus-avis
Nymphaea (red-flowered forms)
Ononis arvensis
Ophrys insectifera
Orchis militaris
Oxytropis lapponica
Pimpinella major
Platanthera bifolia
Platanthera chloranta
Polygala vulgaris
Polygonum foliosum

Polygonum oxyspermum (*P. oxyspermum* subsp.##*oxyspermum*)

Polystichum lonchitis

Potentilla neumanniana

Potentilla nivea subsp. *chamissonis* (*P. chamissonis*)

Potentilla nivea subsp. *nivea* (*P. nivea*)

Potentilla subarenaria

Primula nutans

Primula veris

Pseudorchis albida

Puccinellia phryganodes

Pulmonaria obscura

Ranunculus glacialis

Ranunculus lapponicus

Rhododendron lapponicum

Salix pyrolifolia

Salsola kali subsp. *kali*

Samolus valerandi

Saxifraga adscendens

Saxifraga hirculus

Schoenus ferrugineus

Scleranthus perennis

Sedum villosum

Silene furcata

Silene wahlbergella (*S. uralensis*)

Sium latifolium

Thalictrum aquilegifolium

Thalictrum minus subsp. *kemense* (*T. kemense*)

Trisetum subalpestre

Ulmus glabra

Ulmus laevis

Veratrum album

Veronica fruticans

Vicia cassubica

Viola collina

Viola persicifolia

Viola rupestris subsp. *relicta*

Viola uliginosa

Bryophyta

Buxbaumia viridis

Cephalozia macounii

Cynodontium suecicum

Dichelyma capillaceum

Dicranum viride

Limprichtia vernicosa (*Drepanocladus vernicosus*)

Meesia longiseta

Annex 3(b)

PROTECTED VASCULAR PLANTS SOUTH OF OULU PROVINCE

Angelica archangelica subsp. *archangelica*

Catabrosa aquatica

Dactylorhiza incarnata subsp. *incarnata*

Dactylorhiza traunsteineri

Dianthus superbus

Gymnadenia conopsea

Saxifraga cespitosa

Saxifraga nivalis

Woodsia alpina.25

Annex 3(c)

PROTECTED VASCULAR PLANTS IN THE
PROVINCES OF OULU AND LAPPLAND

Anemone nemorosa

Asplenium ruta-muraria

Corydalis intermedia

Impatiens noli-tangere

Iris pseudacorus

Poa remota

Polygonatum odoratum

Thelypteris palustris

Annex 4

THREATENED SPECIES

* Species under strict protection

Tracheophyta

Aconitum lycoctonum (*A. septentrionale*)

**Agrimonia pilosa*

Agrimonia procera

Agrostis clavata

Alchemilla hirsuticaulis

**Alisma wahlenbergii*

Allium schoenoprasum var. *sibiricum*

Allium ursinum

Ammophila arenaria

Anagallis minima

**Androsace septentrionalis*

Anemone patens (*Pulsatilla p.*)

Anemone trifolia

Antennaria porsildii

Antennaria nordhageniana

Antennaria lanata

Anthyllis vulneraria subsp. *lapponica*

**Anthyllis vulneraria* subsp. *polyphylla*

Arctagrostis latifolia

Arctium nemorosum

**Arctophila fulva*

Arenaria pseudofrigida (*A. ciliata*)

Arenaria norvegica

**Armeria maritima* subsp. *intermedia*

**Armeria maritima* subsp. *elongata*

Armeria maritima subsp. *sibirica*

**Arnica angustifolia*

Artemisia campestris subsp. *bottnica*
Asarum europaeum
 **Asperula tinctoria*
 **Asplenium adulterinum*
Asplenium ruta-muraria
 **Bistorta major* (*Polygonum bistorta*)
Botrychium lanceolatum
Botrychium matricariifolium
 **Botrychium simplex*
 **Botrychium virginianum*
 **Bromus benekenii*
Calypso bulbosa
Campanula uniflora
Campanula cervicaria
 **Cardamine parviflora*
 **Cardamine flexuosa*
 **Cardamine impatiens*
Carduus nutans
Carex atherodes
 **Carex hartmanii*
Carex heleonastes
Carex lepidocarpa subsp. *jemtlandica*
Carex microglochin.26
Carex paniculata
Carex riparia
Carex viridula var. *bergrothii*
 **Carex vulpina*
Carlina biebersteinii (*C. vulgaris* subsp. *longifolia*)
Carlina vulgaris (*C. vulgaris* subsp. *vulgaris*)
Catabrosa aquatica
 **Cephalanthera rubra*
 **Cerastium fontanum* subsp. *vulgare* var. *kajanense*
Chamorchis alpina
Chenopodium bonus-henricus
Cinna latifolia
 **Cladium mariscus*
Clematis alpina subsp. *sibirica* (*C. alpina*)
 **Crepis praemorsa*
 **Crepis tectorum* subsp. *nigrescens*
Cynoglossum officinale
Cypripedium calceolus
Dactylorhiza incarnata subsp. *cruenta*
Dactylorhiza traunsteineri
Dianthus arenarius
Diphasiastrum tristachyum (*D. complanatum* subsp. *chamaecyparissus*)
Draba alpina
Draba cinerea
Draba lactea
Draba nemorosa
Dryopteris fragrans

Elatine alsinastrum
Elymus alaskanus
**Elymus farctus*
**Epilobium laestadii*
Epilobium lamyi
Epilobium obscurum
Epipactis atrorubens
**Epipactis palustris*
Epipogium aphyllum
Equisetum x trachyodon
**Erica tetralix*
Erigeron acer subsp. *decoloratus*
**Erigeron borealis*
Euphrasia micrantha
Euphrasia salisburgensis
Euphrasia rostkoviana subsp. *fennica*
**Festuca gigantea*
**Galium saxatile*
**Gentianella amarella*
**Gentianella campestris*
Gentianella tenella
Gentianella uliginosa
Gymnocarpium robertianum
Gymnocarpium continentale (*G. jessoëense*)
Gypsophila fastigiata
Gypsophila muralis
Herniaria glabra
Hippuris tetraphylla
**Hypericum montanum*
Juncus x montellii
Kobresia myosuroides
**Kobresia simpliciuscula*
Lappula deflexa
**Leersia oryzoides*
Lepidium latifolium
Lithospermum arvense
**Lonicera caerulea*
Lychnis alpina var. *serpentinicola*
Malus sylvestris
Malva pusilla
Melampyrum arvense
**Melica ciliata*
Melilotus altissimus
**Microstylis monophyllos*
Moehringia lateriflora
Myosotis nemorosa
Myricaria germanica
**Najas flexilis*
**Najas tenuissima*
Odontites vernus

Oenanthe aquatica
 **Ononis arvensis*
Ophrys insectifera
Oxytropis lapponica
 **Petasites spurius*
Phleum phleoides
Pilularia globulifera
 **Pimpinella major*
 **Polygonum oxyspermum* (*P. oxyspermum* subsp. *oxyspermum*)
Potamogeton rutilus
Potamogeton polygonifolius
Potamogeton friesii
Potentilla anglica
 **Potentilla neumanniana*
Potentilla nivea subsp. *chamissonis* (*P. chamissonis*)
Potentilla nivea subsp. *nivea* (*P. nivea*)
 **Potentilla subarenaria*
Primula nutans
Pseudorchis albida
 **Puccinellia phryganodes*
Ranunculus sulphureus
Ranunculus reptabundus (*R. sceleratus* subsp. *reptabundus*)
Ranunculus aquatilis var. *diffusus* (*R. trichophyllus*
 subsp. *trichophyllus*)
Rhododendron lapponicum
Rumex maritimus
Sagina maritima
 **Salix pyrolifolia*
Salix triandra
 **Salsola kali* subsp. *kali*
Samolus valerandi
Saxifraga adscendens
Saxifraga hirculus
Schoenus ferrugineus
Scirpus radicans
Scleranthus perennis.27
 **Sedum villosum*
 **Silene furcata*
Silene tatarica
Silene wahlbergella (*S. uralensis*)
 **Sium latifolium*
Sorbus intermedia
Sparganium erectum subsp. *erectum*
 **Stellaria crassifolia* var. *minor* (*S. crassifolia* var. *brevifolia*)
Stellaria fennica
 **Thalictrum aquilegifolium*
 **Thalictrum lucidum*
Thalictrum minus subsp. *kemense* (*T. kemense*)
 **Trisetum subalpestre*
Ulmus glabra

Ulmus laevis
 **Veratrum album*
 **Vicia cassubica*
 **Viola collina*
Viola persicifolia
Viola rupestris subsp. *relicta*
 **Viola uliginosa*

Bryophyta

Hepaticopsida

Anastrophyllum cavifolium
Anastrophyllum michauxii
 **Anastrophyllum sphenoloboides*
Arnellia fennica
 **Calypogeia suecica*
 **Cephalozia catenulata*
 **Cephalozia macounii*
 **Chiloscyphus cuspidatus*
 **Chiloscyphus latifolius*
Conocephalum conicum
Cryptothallus mirabilis
 **Douinia ovata*
Eremonotus myriocarpus
Frullania fragilifolia
 **Frullania oakesiana*
Frullania tamarisci
 **Harpanthus scutatus*
Jungermannia leiantha
Jungermannia obovata
Lophozia ascendens
Lophozia badensis
Lophozia bantriensis
Lophozia collaris
Lophozia grandiretis
Lophozia laxa
 **Lophozia perssonii*
 **Mannia fragrans*
 **Marsupella funckii*
Marsupella sparsifolia
Marsupella sprucei
 **Nowellia curvifolia*
 **Porella cordaeana*
 **Radula lindenbergiana*
Reboulia hemisphaerica
Riccardia incurvata
Riccia beyrichiana
 **Scapania aequiloba*
 **Scapania apiculata*
Scapania crassiretis
Scapania cuspiduligera
Scapania nemorea

Trichocolea tomentella

Bryopsida

**Amblyodon dealbatus*

Anoetangium aestivum

Anomobryum julaceum

**Anomodon rugelii*

Bryoerythrophyllum ferruginascens

Bryum cryophilum

Bryum neodamense

Bryum nitidulum

**Buxbaumia viridis*

Campylium elodes

Campylophyllum halleri

Cirriphyllum cirrosum

**Cirriphyllum tommasonii*

**Coscinodon cribrosus*

**Cynodontium suecicum*

**Desmatodon cernuus*

Desmatodon systylius

**Dichelyma capillaceum*

**Dicranum tauricum*

**Dicranum viride*

Diphyscium foliosum

Ditrichum zonatum

Encalypta mutica

Encalypta procera

**Eurhynchium speciosum*

**Eurhynchium striatum*

Fissidens pusillus

**Grimmia anomala*

Grimmia unicolor

Grimmia donniana

Grimmia decipiens

Grimmia anodon

**Gymnostomum calcareum*

**Hygroamblystegium tenax*

Hydrogrimmia mollis

Hygrohypnum cochlearifolium

Hygrohypnum molle

Hygrohypnum norvegicum

Lescuraea plicata

**Limprichtia lapponica*

**Meesia longiseta*

Myrinia pulvinata

**Neckera pennata*

Orthotrichum cupulatum.28

Orthotrichum diaphanum

Orthotrichum gymnostomum

Orthotrichum paradoxum

**Orthotrichum patens*

Orthotrichum stramineum
Orthotrichum striatum
Oxystegius tenuirostris
Philonotis calcarea
Plagiobryum demissum
Plagiomnium drummondii
 **Plagiothecium platyphyllum*
 **Polytrichastrum pallidisetum*
 **Pseudocalliergon angustifolium*
 **Pseudocalliergon turgescens*
Pseudoleskeella papillosa
 **Psilopilum cavifolium*
 **Rhabdoweisia crispata*
 **Seligeria brevifolia*
Seligeria donniana
Seligeria tristichoides
Seligeria subimmersa
 **Sphagnum imbricatum*
 **Sphagnum molle*
 **Splachnum melanocaulon*
Thamnobryum alopecurum
 **Timmia bavarica*
Timmia norvegica
 **Tortula mucronifolia*
Trematodon laetevirens
 **Zygodon conoideus*
 **Zygodon viridissimus*

Algae

Ahnfeltia plicata
Ceramium rubrum
Chara baltica
 **Chara braunii*
Chara strigosa
Chorda tomentosa
Nitella hyalina
 **Nitella batrachosperma*
Nitellopsis obtusa
Polyides rotundus

Macrofungi

Ascomycetes

Ascocoryne turficola
 **Ascotremella faginea*
Ciboria batschiana
Cordyceps bifusispora (*C. dennisii*)
 **Cordyceps capitata*
Geoglossum atropurpureum
 **Geoglossum cookeianum*
 **Geoglossum fallax*
 **Geoglossum starbaeckii*
Geoglossum umbratile

Helvella leucomelaena
Helvella nigricans
 **Helvella oblongispora*
 **Helvella palustris*
 **Helvella pedunculata*
 **Hypocreopsis lichenoides*
 **Karstenella vernalis*
Leucoscypha ovilloides
 **Microglossum olivaceum*
 **Morchella semilibera*
 **Otidea phlebophora*
 **Otidea concinna*
Peziza gerardii
 **Peziza saniosa*
Peziza succosa
Plectania melastoma
Pseudorhizina sphaerospora
Sarcosoma globosum
 **Sarcosphaera crassa*
 **Sowerbyella brevispora*
 **Sowerbyella requisii*
Trichoglossum hirsutum
 **Urnula craterium*
 **Xylaria polymorpha*
Tremellales
Protodontia piceicola
Protomerulius caryae (*Aporpium c.*)
 **Tremellodendropsis tuberosa*
 **Tremiscus helvelloides*
Aphylophorales
Amylocorticium subincarnatum
 **Amyloporia crassa*
Amyloporia sitchensis
 **Anomoporia albolutescens*
Anomoporia bombycina
 **Anomoporia myceliosa*
Antrodia albobrunnea
Antrodia infirma
 **Antrodia mellita*
Antrodia primaeva
Antrodia pulvinascens
Antrodiella americana
 **Antrodiella citrinella*
 **Aurantioporus fissilis*
Boletopsis leucomelaena
 **Ceraceomyces sulphurinus*
 **Clavaria zollingeri*
 **Clavicornia cristata*
 **Clavicornia taxophila*
 **Coltricia cinnamomea*

**Cotylidia muscigena*
Crustoderma dryinum
Cystostereum murrainii.29
Datronia stereoides
**Dentipellis fragilis*
Dichomitus campestris
Dichomitus squalens
**Diplomitoporus crustulinus*
Fistulina hepatica
Ganoderma lucidum
Gelatoporia pannocincta
Gloeophyllum protractum
**Gloiodon strigosus*
Gomphus clavatus
Granulocystis flabelliradiata
Grifola frondosa
Haploporus odoratus
**Hydnellum auratile*
Hydnellum geogenium
**Hydnellum mirabile*
Hyphoderma guttuliferum
Hyphoderma involutum
Hyphoderma obtusum
Hyphodontia alienata
Hypochniciellum cremeoisabellinum
Hypochniciellum ovoideum
Hypochnicium vellereum
Inocutis dryophila
**Inonotopsis subiculosa*
**Inonotus hispidus*
Junghuhnia collabens
Kavinia alboviridis
**Kavinia himantia*
Laurilia sulcata
Lentaria albovinacea
Metulodontia nivea
Multiclavula mucida
Mycoacia aurea
Mycoacia uda
Onnia tomentosa
Onnia triquetra
Paullicorticium ansatum
Peniophora septentrionalis
**Perenniporia medulla-panis*
Perenniporia subacida
**Perenniporia tenuis*
Phellinus ferruginosus
Phellinus robustus
**Phlebia bresadolae*
Phlebia diaphana

Phlebia diffissa
Phlebia firma
Phlebia longicystidia
Phlebia subulata
Phylloporia ribis
Physodontia lundellii
 **Piloporia sajanensis*
 **Plicaturopsis crispa*
 **Polyporus badius*
 **Polyporus pseudobetulinus*
 **Polyporus umbellatus*
Postia guttulata
Postia hibernica
Postia lateritia (P. lowei)
 **Punctularia strigosozonata*
 **Pycnoporellus alboluteus*
Pycnoporellus fulgens
 **Radulodon erikssonii*
Ramaricium albochraceum
Ramariopsis crocea
Repetobasidium vestitum
 **Sarcodon fuligineoviolaceus*
 **Scytinostromella nannfeldtii*
Scytinostroma galactinum
Sistotrema raduloides
Skeletocutis jelicii
Skeletocutis lenis
Skeletocutis lilacina
Skeletocutis odora
Skeletocutis stellae
Spongipellis spumeus
Steccherinum litschaueri
Thelephora anthocephala
 **Trametes suaveolens*
 **Trametes trogii*
Trichaptum pargamenum (T. biforme)
Tubulicrinis inornatus
 **Tyromyces canadensis*
 **Xenasma rimicola*
 **Xylobolus frustulatus*
Agaricales
Agrocybe paludosa
 **Amanita ceciliae*
Amanita friabilis
Amanita gemmata
Amanita magnivolvata
Armillaria ectypa
 **Baeospora myriadophylla*
Bolbitius reticulatus
 **Boletus appendiculatus*

**Boletus gabretae*
**Boletus queletii*
**Boletus radicans*
**Boletus suspectus*
**Boletus satanas*
**Calocybe onychina*
**Camarophyllus russocoriaceus*
Catathelasma imperiale
**Chamaemyces fracidus*
**Chamonixia caespitosa*
**Clitocybe fennica*
Clitocybe gigas
**Clitocybe gilvaoides*
**Clitocybe hydrogramma*
Cortinarius anthracinus
**Cortinarius cinnabarinus*
Cortinarius odorifer.30
**Cortinarius olivaceofuscus*
Cortinarius percomis
**Cortinarius phrygianus*
**Cortinarius venetus*
Cystoderma tuomikoskii
Cystoderma ambrosii
Cystoderma niveum
**Elasmomyces mattirolianus*
Entoloma corvinum
Entoloma cyanulum
Entoloma euchroum
**Entoloma olivaceotinctum*
**Entoloma queletii*
**Entoloma rubrobasis*
**Entoloma tjallingiorum*
Entoloma scabropellis
Entoloma sinuatu (E. eulividum)
Hohenbuehelia atrocaerulea
**Hohenbuehelia longipes*
Hydropus scabripes
**Hygrocybe colemanniana*
Hygrocybe fornicata
**Hygrocybe ovina*
**Hygrocybe spadicea*
Hygrophoropsismorganii
**Hygrophorus aureus*
Hygrophorus gliocyclus
Hygrophorus hyacinthinus
Hygrophorus inocybiformis
Hygrophorus pacificus
**Hygrophorus purpurascens*
**Hygrotrama foetens*
Hygrotrama schulzeri

Inocybe appendiculata
Inocybe asterospora
**Inocybe cryptocystis*
**Inocybe erubescens*
Inocybe fraudans
Inocybe fuscidula var. *bisporigera*
**Inocybe godeyi*
**Inocybe hirculus*
Inocybe hystrix
Inocybe inodora
**Inocybe multicoronata*
**Inocybe mytiliodora*
Inocybe petiginosa
**Inocybe pudica*
Inocybe squarrosa
**Inocybe urceolicystis*
Lactarius dryadophilus
**Lactarius fulvissimus*
Lactarius serifluus
**Lactarius vellereus*
Lactarius violascens
**Leccinum tessellatum*
Lentinellus castoreus
**Lepiota alba*
**Lepiota grangei*
**Lepiota lignicola*
**Lepiota setulosa*
Lepista albofragrans
Lepista glaucocana
**Lepista singeri*
**Leucopaxillus subzonalis*
**Limacella guttata*
Marasmius cohaerens
**Marasmius torquescens*
Marasmius wynnei
**Melanoleuca brachyspora*
**Melanophyllum eyrei*
Microcollybia verna (*Collybia* v.)
Microcollybia racemosa (*Collybia* r.)
**Micromphale foetidum*
**Mycena cyanorhiza*
**Mycena pelianthina*
**Mycena tintinnabulum*
Mycena lammiensis
**Mythicomycetes corneipes*
Panus suavissimus
**Pholiota albocrenulata*
**Pholiota subochracea*
**Pleurotus calyptratus*
Pluteus umbrosus

Rhodocybe gemina
 **Pulveroboletus lignicola*
 **Russula virescens*
Russula lepida
 **Russula olivacea*
Russula pectinatoides
Singerocybe viscida
Tricholoma sulphurescens
Tricholoma aurantium
Tricholoma dulciolens
Tricholoma fracticum
Tricholoma inocybeoides
Tricholoma inodermeum
Volvariella reidii
 **Xerula longipes*

Gasteromycetes

Bovista dryina
 **Bovista paludosa*
 **Bovista tomentosa*
 **Geastrum minimum*
 **Geastrum schmidelii*
 **Geastrum striatum*
 **Geastrum triplex*
Langermannia gigantea
 **Lycoperdon caudatum*
Lycoperdon echinatum
 **Mutinus caninus*
 **Sclerogaster compactus*
 **Tulostoma niveum*.31

Microfungi

Anthracoidea altera
Anthracoidea arenaria
Anthracoidea hostianae
Anthracoidea pseudirregularis
 **Entyloma antennariae*
Entyloma magnusii
Erysiphe vernalis
 **Farysia thuemenii*
Miyagia pseudosphaeria
 **Phragmidium kamschatkae*
 **Puccinia adoxae*
Puccinia polemonii
 **Uredinopsis struthiopteridis*
Uredo goodyerae
 **Urocystis carcinodes*
Urocystis melicae
 **Urocystis tothii*
Uromyces phacae-frigidae
Ustilago abstrusa
Ustilago echinata

Lichenes*Arthonia incarnata***Bryoria bicolor***Bryoria nadvornikiana**Bryoria nitidula***Bryoria smithii***Bryoria tenuis* s. lat. *Calicium adpersum***Calicium lenticulare***Calicium quercinum**Caloplaca decipiens***Caloplaca lucifuga**Caloplaca thallincola***Catapyrenium squamulosum**Cetrelia olivetorum***Chaenotheca cinerea**Chaenotheca gracillima***Chaenotheca hispidula**Cladonia caespiticia**Cladonia foliacea***Cladonia incrassata**Cladonia luteoalba***Collema curtisporum***Collema fragrans***Collema multipartitum***Collema nigrescens**Collema subnigrescens**Collema tenax**Conotrema populorum***Cybebe gracilentia**Cyphelium karelicum***Cyphelium notarisii***Dactylina ramulosa**Dendriscoaulon umhausense***Endocarpon adscendens***Endocarpon psorodeum***Endocarpon pusillum**Evernia divaricata**Fulgensia bracteata***Fuscopannaria confusa* (*Pannaria* c.)**Gyalecta friesii**Gyalecta geoica**Gyalecta kukriensis**Gyalecta ulmi**Hypogymnia austerodes***Heterodermia speciosa**Lecanora epanora***Lecanora laatokkaënsis***Lecidea lurida* (*Psora* l.)*Leptogium cyanescens**Leptogium plicatile*

Leptogium subtile
Leucocarpia biatorella
Lobaria scrobiculata
 **Megalaria grossa*
 **Melanelia glabra* (*Parmelia* g.)
 **Menegazzia terebrata*
Microcalicium ahlneri
Microcalicium arenarium
Miriquidica lulensis
 **Neofuscelia verruculifera* (*Parmelia* v.)
 **Nephroma laevigatum*
 **Nephroma helveticum*
 **Ochrolechia subviridis*
 **Parmelia pastillifera*
Parmelina tiliacea (*Parmelia* t.)
Peltigera elisabethae
 **Peltigera retifoveata*
Pertusaria flavida
Pertusaria hemisphaerica
Pertusaria pertusa
 **Phaeocalicium populneum*
 **Phaeophyscia kairamoi*
 **Physcia phaea*
 **Pilophorus robustus*
 **Platismatia norvegica*
 **Psora globifera*
Psora rubiformis
Ramalina capitata
Ramalina obtusata
 **Ramalina roeslerii*
Ramalina thrausta
Schismatomma pericleum
 **Sclerophora peronella*
 **Sclerophoraconiophaea*
Siphula ceratites
Solorina octospora
 **Stereocaulon incrustatum*
 **Usnea glabrata*
 **Usnea scabrata* s. lat..32

VERTEBRATA

Mammalia

**Alopex lagopus*
 **Eliomys quercinus*
 **Myotis nattereri*
 **Phoca hispida saimensis*
Pteromys volans

Aves

Aegithalos caudatus
 **Anser erythropus*
 **Aquila clanga*

**Aquila chrysaetos*
 **Aythya marila*
 **Calidris alpina schinzii*
Caprimulgus europaeus
Cinclus cinclus
 **Crex crex*
 **Dendrocopos leucotos*
Dendrocopos minor
 **Eremophila alpestris*
Falco columbarius
 **Falco peregrinus*
 **Falco rusticolus*
Falco subbuteo
Falco tinnunculus
Ficedula parva
 **Gallinago media*
Gavia arctica
Gavia stellata
 **Haliaeetus albicilla*
Larus fuscus
Limosa lapponica
 **Lullula arborea*
Melanitta nigra
 **Nyctea scandiaca*
Pandion haliaetus
Picus canus
 **Sterna caspia*
 **Xenus cinereus*

Amphibia

**Triturus cristatus*

EVERTEBRATA

Annelida

**Hirudo medicinalis*

Mollusca

Acanthinula aculeata
Aegopinella pura
Aegopinella nitidula
 **Bulgarica cana*
Carychium minimum
 **Clausilia dubia*
 **Cochlodina orthostoma*
 **Columella columella*
Ena obscura
 **Margaritifera margaritifera*
Oxychilus alliarius
Perforatella bidentata
Pisidium subtilestriatum
Pisidium supinum
Unio crassus
Vertigo angustior

Vertigo genesii
Vertigo geyeri
Vertigo modesta arctica
Vertigo pygmaea
Vitrea contracta
Vitrea crystallina

Arthropoda

Arachnida

Acartauchenis scurrilis
 **Aculepeira ceropegia*
 **Araneus angulatus*
Araneus saevus
Aulonia albimana
 **Berlandina cinerea*
Centromerus persimilis
Ceraticelus bulbosus
Cicurina cicur
Colobocyba biscissa
Drassyllus exiguus
Erigone welchi
Metapanamomops kaestneri
Micaria formicaria
Micaria fulgens
Mioxena blanda
Pellenes tripunctatus
Peponocranium praeceps
Rhaebothorax foveata
 **Satilatlas britteni*
 **Titanoeca quadriguttata*
Xysticus cambridgei
Zelotes electus
Zora parallela

Crustacea

Gammaracanthus lacustris

Diplopoda

Cylindroiulus londinensis
 **Iulus scanicus*.33

Cilopoda

**Brachygeophilus truncorum*
 **Geophilus electricus*

Insecta

Ephemeroptera

Baetis liebenauae
Brachycercus harrisella
Habrophlebia fusca

Odonata

Aeshna crenata
 **Aeshna viridis*
 **Coenagrion puella*
 **Libellula fulva*

Somatochlora sahlbergi

Plecoptera

Isogenus nubecula

Isoperla difformis

**Nemoura dubitans*

Protonemura intricata

**Rhabdiopteryx acuminata*

Orthoptera

**Bryodema tuberculatum*

**Psophus stridulus*

**Sphingonotus coeruleans*

Heteroptera

Aneurus avenius

Aphelocheirus aestivalis

**Aradus angularis*

Aradus crenaticollis

Aradus erosus

**Aradus laeviusculus*

**Aradus signaticornis*

**Aradus truncatus*

Ceratocombus corticalis

Chorosoma schillingi

Drymus pilicornis

Elasmotethus brevis

Gerris najas

Gerris sphagnetorum

Gonianotus marginepunctatus

Jalla dumosa

Nemocoris falleni

Ochetostethus nanus

Phimodera humeralis

Pionosomus varius

Sigara fallenoidea

Sigara hellensi

Sigara longipalis

Tritomegas bicolor

Troilus luridus

Tropistethus holosericeus

Homoptera

**Cicadetta montana*

Cixidia confinis

Cixidia lapponica

Kelisia sabulicola

Typhlocyba bifasciata

Neuroptera

Nineta inpunctata

**Sisyra jutlandica*

Lepidoptera

Acerbia alpina

Acrobasis sodalella

Acrocercops brongniardellus
Acronicta strigosa
Acronicta tridens
Agonopterix laterella
Agriades glandon
 **Alcis jubatus*
Apamea anceps
Apeira syringaria
Aplocera plagiata
Aplota kadeniella
 **Aristotelia brizella*
Aristotelia heliacella
Aspitates gilvaria
Baptria tibiale
Bembecia ichneumoniformis (B. scopigera)
Bucculatrix albedinella
 **Bucculatrix argentsignella*
Bucculatrix artemisiella
Calyciphora xerodactyla
 **Caryocolum petryi*
 **Caryocolum schleichi arenariellum*
 **Catoptria fulgidella*
 **Chloroclystis v-ata relictata*
Cleorodes lichenaria
Clepsis lindebergi
Clossiana improba
Clossiana thore borealis
Clossiana thore thore
 **Clossiana titania*
 **Cochylidia richteriana*
Cochylis epilinana
 **Coleophora albella*
Coleophora caelebipennella
Coleophora lithargyria
 **Coleophora salicorniae*.34
Coleophora unigenella
Colias hecla
Colias tyche (C. nastes)
 **Cucullia absinthii*
Cucullia argentea
 **Cupido minimus*
 **Cydia medicaginis*
 **Cynaeda dentalis*
Depressaria chaerophylli
 **Diasemia reticularis*
 **Digitivalva reticulella*
Ecliptopera capitata
Ectoedemia atrifrontella
Elachista bruuni
Entephria nobiliaria

Entephria flavicinctata
Epirrhoe tartuensis
Erebia medusa
Ethmia pyrausta
**Ethmia terminella*
Eupithecia fennoscandica
**Eurodryas aurinia*
Gastropacha quercifolia
Hesperia comma catena
Hyphoraia aulica
Hydraecia petasitis
Hypodryas maturna
Idaea muricata
Ipimorpha contusa
**Isophrictis anthemidella*
Lacanobia w-latinum
Lamellocossus terebra
Lamprotes c-aureum
Lasionycta leucocycla dovrensis
Lasionycta staudingeri
**Lemonia dumi*
Lithophane ornitopus
Lobesia euphorbiana
**Lopinga achine*
**Lycaena dispar*
Lycaena helle
**Maculinea arion*
Maniola jurtina
Melitaea cinxia
**Melitaea diamina*
Mendesia farinella
**Merrifieldia tridactylus (Pterophorus t.)*
**Metzneria santolinella*
Microthrix similella
**Nemophora cupriacella*
Neustrotia candidula
Nola karelica
Ostrinia palustralis
Panemeria tenebrata
Paratalanta hyalinalis (Microstega h.)
**Parnassius apollo*
Parnassius mnemosyne
Philereme transversata
Photedes brevilinea
Phytometra viridaria
Poliobrya umovii
Polypogon lunalis (Herminia l.)
Pseudoaricia nicias
Pseudopanthera macularia
**Pseudophilotes baton*

**Pyralis lienigialis*
Pyrausta ostrinalis
Pyrgus alveus
Pyrgus andromedae
Scardia boletella
Sciota lucipetella
**Scolitantides orion*
**Scopula decorata*
**Scopula corrivalaria*
Scopula virgulata
Scythris noricella
Stigmella dryadella
Sympistis nigrata zetterstedtii
Synanthedon mesiaeformis
Thalera fimbrialis
Tinagma ocnerostomellum
Trachysmia schreibersiana
Trichosea ludifica
Trifurcula subnitidella
Xestia brunneopicta
Xestia borealis
Xestia lyngei
Zygaena lonicerae
**Zygaena osterodensis*

Trichoptera

Arctopsyche ladogensis
Asynarchus thedenii
Glossosoma nylanderi
Semblis atrata
Semblis phalaenoides

Diptera

Anomalchaeta guttipennis
**Brachypalpus laphriformis*
**Ceriana conopsoides*
Clinocera wesmaeli
Clorismia ardea
Clorismia rustica
**Conops strigata*
**Doros profuges*
Hendelia beckeri
Keroplatus tipuloides
Nealticomerus formosus
**Pachyneura fasciata*
**Sphecomyia vespiformis*
Sphegina clunipes
Sphegina kimakowici
Sphegina montana.35
Sphegina sibirica
Sphegina spheginea
Spilomyia diophthalma

Temnostoma apiforme
Temnostoma bombylans
Temnostoma vespiforme
 **Xylomya czekanovskii* (*Solva interrupta*)
 **Xylophagus ater*
 **Xylophagus junki*

Siphonoptera

Monopsyllus indages indages

Hymenoptera

Abia candens
Abia sericea
Aenoabia bifida
Ammophila campestris
Ancistrocerus antilope
Ancistrocerus nigricornis
Ancistrocerus parietum
Andrena hattorfiana
Andrena labialis
Andrena pilipes
Aporinellus sexmaculatus
Belomicrus borealis
 **Bombus consobrinus*
Bombus muscorum
Bombus laevis
*Caenolyda reticulata**
Camponotus vagus
Cleptes nitidulus
Coelioxys lanceolata
Coelioxys vectis
Colletes marginatus
Dioxys tridentata
Dolichomitrus imperator
Hartigia linearis
Hedychridium zelleri
Homonotus sanguinolentus
Lasioglossum quadrinotatum
Lasius meridionalis
Megachile bombycina
Methocha ichneumonides
Nematus lonicerae
Nematus tavastiensis
Nomada armata
Odynerus melanocephalus
Odynerus reniformis
Pamphilius nemorum
Pemphredon balticus
Pemphredon fennicus
Podalonia affinis
Pontania reticulatae
Pontoprastia boreoalpina

Pristiphora sootryeni
Pseudoheptamelus runari
Psithyrus barbutellus
Rophites vulgaris
Stigmus pendulus
Symmorphus crassicornis
Symmorphus fuscipes
Symmorphus murarius
Tenthredo eversmannii
**Tenthredo omissa*
Tenthredo rossii
Tiphia minuta
**Ussurinus nobilis*
**Vespa crabro*
Xiphydria prolongata

Coleoptera

Acanthocinus griseus
Aclypea undata
Acmaeops septentrionis
**Acritus minutus*
Acrolocha striata
Acrolocha sulcula
**Aegialia arenaria*
Agabus infuscatus
Agabus paludosus
Agathidium pallidum
**Agathidium pulchellum*
**Agrilus ater*
**Agrilus integerrimus*
**Agrilus pseudocyaneus*
Airaphilus perangustus
**Ampedus cinnabarinus*
Ampedus nigroflavus
Ampedus praeustus
**Ampedus sanguineus*
**Ampedus suecicus*
Anopleta janssoni (Atheta j.)
**Anoplodera sexguttata*
Anthobium fuscum
Aphodius foetens
Aphodius ictericus
**Aphodius merdarius*
Aphodius niger
Aphodius plagiatus
**Aphodius serotinus*
Aphodius sordidus
**Aphodius subterraneus*
**Apion columbinum*
Apion melancholicum
Atheta autumnalis

Atheta hyperborea
**Athous mutilatus*
Atomaria nigripennis
Bagous petro
Baris artemisiae
**Bembidion aeneum*
Bembidion andreae.36
Bembidion humerale
**Bembidion monticola*
Bembidion stephensi
Bledius fontinalis
Bledius longulus
Bledius terebrans
**Boros schneideri*
**Bothrioderes contractus*
Buprestis novemmaculata
Calitys scabra
Calvia quindecimguttata
Carabus convexus
**Carphacis striatus*
Carphoborus minimus
**Ceruchus chysomelinus*
Cerylon impressum
Ceutorhynchus ignitus
Ceutorhynchus hampei
Ceutorhynchus larvatus
Ceutorhynchus pallidicornis
Ceutorhynchus pleurostigma
Ceutorhynchus puncticollis
Chaetophora spinosa
Chlaenius costulatus
Chlaenius nigricornis
**Chlorophorus herbsti*
Chromoderus affinis
Cionus longicollis
Cis fissicornis
Claviger testaceus
Clytus arietis
Combocerus glaber
Coniocleonus nebulosus
Corticaria planula
Corticeus fraxini
Corticeus longulus
**Cossonus cylindricus*
**Cossonus parallelepipedus*
Cryptarcha strigata
Crypticus quisquilius
Cryptocephalus cruciger
Cryptocephalus hypochoeridis
**Cucujus cinnaberinus*

**Cylister oblongus*
**Cyllodes ater*
Cyphaea latiuscula
**Dendroxena quadrimaculata*
Dermestes palmi
**Deronectes latus*
Dicerca alni
Dicerca moesta
Dinothenarus pubescens
**Dircaea quadriguttata*
**Dirrhagofarsus attenuatus (Rhacopus a.)*
**Ditylus laevis*
Donacia aureocincta
Donacia fennica
**Donacia marginata*
Donacia tomentosa
Donacia simplex
Dorcatoma substriata (D. serra)
**Drapetes mordelloides*
Dryophthorus corticalis
Ecanus glaber
Epuraea guttata
Eucinetus caucasicus
**Eucnemis capucina*
Eustrophus dermestoides
**Gabrius bescidicus*
Haliphus varius
Hapalarea pygmaea
Harpalus nigratarsis
**Harpalus rubripes*
**Hister bissexstriatus*
Hister funestus
**Hololepta plana*
Hydroporus elongatulus
Hyperaspis inexpectata
**Hypnogyra glabra*
Hypocaccus rugiceps
**Ipedia sexguttata*
Lacon fasciatus
**Lacon lepidopterus*
**Laemostenus terricola*
Leiodes badia
Leiodes fracta
Leptura maculata
Leptura nigripes
**Leptura pubescens*
**Leptura thoracica*
**Liocola marmorata*
**Liodopria serricornis*
Longitarsus parvulus

**Lyctus linearis*
**Macrolea pubipennis*
Malachius aeneus
**Margarinotus neglectus*
Margarinotus purpurascens
**Melandrya barbata*
Melandrya dubia
Melanophila cyanea
**Meloe proscarabaeus*
**Mesosa myops*
Microrhagus lepidus
**Monochamus urussovi*
Mycetochara humeralis
Mycetophagus quadripustulatus
Nanophyes sahlbergi
**Nivellia sanguinosa*
Normandia nitens
Oenopia conglobata
Omalium excavatum
**Onthophagus gibbulus*
Opatrum sabulosum
Ophonus puncticollis
**Oplocephala haemorrhoidalis.37*
Oplosia fennica
Orchesia undulata
**Orsodacne cerasi*
**Orthotomicus longicollis*
**Osmoderma eremita*
Oxypteris acuminata (Melanophila a.)
Oxyporus mannerheimii
Pachybrachis hieroglyphicus
Pachnephorus pilosus
Panagaeus cruxmajor
**Paromalus flavicornis*
Pelecotoma fennica
Peltis grossa
Pentaphyllus testaceus
Philonthus diversipennis
Philonthus longicornis
**Phryganophilus ruficollis*
**Phymatodes testaceus*
Phytobaenus amabilis
**Plagionotus arcuatus*
Platycerus caraboides
**Platydemus violaceum*
Platynaspis luteorubra
Platyrhinus resinosus
Platystethus capito
Plectophloeus nitidus
Plegaderus caesus

**Poecilium alni (Phymatodes a.)*
**Poecilonota rutilans (Scintillatrix r.)*
Pogonocherus hispidus
Prionychus ater
Prionychus melanarius
Psammodius sulcicollis
**Pseudanostirus globicollis*
Pseudeuglenes pentatomus
**Psylliodes hyoscyami*
Pterostichus aterrimus
Pterostichus quadrioveolatus
Ptiliolium stockmanni
Ptinus sexpunctatus
Pytho abieticola
**Pytho kolwensis*
Quedius assimilis
Quedius lundbergi
Quedius microps
Rhacopus sahlbergi
**Rhamnusium bicolor*
**Rhantus fennicus*
Sacium pusillum
Saperda perforata
Saprinus immundus
Scaphisoma balcanicum
Scotodes annulatus
Scryptia fuscula
Selatosomus nigricornis
**Sericoda bogemanni(Agonum b.)*
Silpha obscura
Silpha tristis
Silvanus unidentatus
Smicronyx smreczynskii
Stenelmis canaliculata
Stenocorus meridianus
Stephanopachus linearis
Stephanopachys substriatus
**Strangalia attenuata*
Strophosoma fulvicorne
Tachinus fimetarius
**Teretrius fabricii*
Tetropium aquilonium
Thamiocolus sahlbergi
Thanatophilus dispar
Thymalus limbatus
Tomoxia bucephala
**Tragosoma depsarium*
Trichonyx sulcicollis
Trixagus caucasicus
**Trixagus duvalii*

Tropideres dorsalis
 **Tropiphorus terricola*
 **Trypophloeus asperatus*
 **Trypophloeus discedens*
 **Uleiota planata*
 **Wagaicis wagai*
 **Xyleborus cryptographus*
 **Xyletinus tremulicola*
 **Xylophilus corticalis*
Zavaljus brunneus (Eicolycytys b.).

Annex 5

SPECIES OCCURRING IN FINLAND LISTED IN ANNEX IV (a) OF THE HABITATS DIRECTIVE

Mammalia

Alopex lagopus
Canis lupus (not within the reindeer herding area)
Eptesicus nilssoni
Lutra lutra
Lynx lynx
Myotis brandti
Myotis daubentoni
Myotis mystacinus
Myotis nattereri
Phoca hispida saimensis
Plecotus auritus
Pteromys volans
Sicista betulina
Ursus arctos

Reptilia

Coronella austriaca

Amphibia

Rana arvalis
Triturus cristatus

Mollusca

Unio crassus

Lepidoptera

Hypodryas maturna
Lopinga achine
Lycaena dispar
Maculinea arion
Parnassius apollo
Parnassius mnemosyne

Coleoptera

Cucujus cinnaberinus
Dytiscus latissimus
Graphoderus bilineatus
Osmoderma eremita

Odonata

Aeshna viridis

Leucorrhinia albifrons
Leucorrhinia caudalis
Leucorrhinia pectoralis.