

# TERRESTRIAL BOREAL REGION

## Reference List



Reference Lists include protected habitat types (Habitats Directive Annex I) and species (Habitats Directive Annex II) present in the bio-geographical region by Member State and for which the Member States have to propose Natura 2000 sites. The Reference Lists derive from the conclusions of bio-geographical seminars and are updated when new scientific information becomes available.

## TERRESTRIAL BOREAL REGION

### REFERENCE LIST 2010

Symbol	Definition
X	Habitats / Species present on the biogeographical territory of the Member State
?	The presence of the habitat / species on the biogeographical territory of the Member State is not certain and needs further examination; scientific reserve
Ex	Habitats / species is now extinct on the biogeographical territory of the Member State
e	Exception : habitats / species present in the Member State but not covered by Annex I / Annex II

#### ANNEX I HABITATS

Code	P	Description	EE	LT	LV	FI	SE
1130		Estuaries	X	X		X	X
1140		Mudflats and sandflats not covered by seawater at low tide	X				X
1150	*	Coastal lagoons	X	X	X	X	X
1160		Large shallow inlets and bays	X			X	X
1210		Annual vegetation of drift lines	X		X	X	X
1220		Perennial vegetation of stony banks	X		X	X	X
1230		Vegetated sea cliffs of the Atlantic and Baltic coasts	X		X	X	X
1310		Salicornia and other annuals colonizing mud and sand	X		X		X
1330		Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritima</i> )					X
1610		Baltic esker islands with sandy, rocky and shingle beach vegetation and sublittoral vegetation				X	X
1620		Boreal Baltic islets and small islands	X			X	X
1630	*	Boreal Baltic coastal meadows	X		X	X	X
1640		Boreal Baltic sandy beaches with perennial vegetation	X		X	X	X
1650		Boreal Baltic narrow inlets				X	X
2110		Embryonic shifting dunes	X	X	X	X	X
2120		Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)	X	X	X	X	X
2130	*	Fixed coastal dunes with herbaceous vegetation (grey dunes)	X	X	X	X	X
2140	*	Decalcified fixed dunes with <i>Empetrum nigrum</i>	X	X	X	X	X
2170		Dunes with <i>Salix repens</i> ssp. <i>argentea</i> ( <i>Salicion arenariae</i> )		X	X		X
2180		Wooded dunes of the Atlantic, Continental and Boreal region	X	X	X	X	X
2190		Humid dune slacks	X	X	X	X	X
2320		Dry sand heaths with <i>Calluna</i> and <i>Empetrum nigrum</i>	X	X	X	X	X
2330		Inland dunes with open <i>Corynephorus</i> and <i>Agrostis</i> grasslands	X	X	X		X
3110		Oligotrophic waters containing very few minerals of sandy plains ( <i>Littorelletalia uniflorae</i> )	X			X	X
3130		Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the <i>Isoeto-Nanojuncetea</i>	X	X	X	X	X

Code	P	Description	EE	LT	LV	FI	SE
3140		Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.	X	X	X	X	X
3150		Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation	X	X	X	X	X
3160		Natural dystrophic lakes and ponds	X	X	X	X	X
3180	*	Turloughs	X				
3190		Lakes of gypsum karst		X	X		
3210		Fennoscandian natural rivers				X	X
3220		Alpine rivers and the herbaceous vegetation along their banks				X	X
3260		Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation	X	X	X	X	X
3270		Rivers with muddy banks with Chenopodion rubri p.p. and Bidention p.p. vegetation		X	X		
4010		Northern Atlantic wet heaths with Erica tetralix			X		X
4030		European dry heaths	X	X	X	X	X
4060		Alpine and Boreal heaths				X	X
4080		Sub-Arctic Salix sp. scrub				X	X
5130		Juniperus communis formations on heaths or calcareous grasslands	X	X	X		X
6110	*	Rupicolous calcareous or basophilic grasslands of the Alysso-Sedion albi			X		X
6120	*	Xeric sand calcareous grasslands		X	X		X
6150		Siliceous alpine and boreal grasslands				X	X
6210	*	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)(*important orchid sites)	X	X	X	X	X
6230	*	Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas in Continental Europe)		X	X	X	X
6270	*	Fennoscandian lowland species-rich dry to mesic grasslands	X	?	X	X	X
6280	*	Nordic alvar and precambrian calcareous flatrocks	X			X	X
6410		Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	X	X	X	X	X
6430		Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	X	X	X	X	X
6450		Northern boreal alluvial meadows	X	X	X	X	X
6510		Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	X	X	X	X	X
6520		Mountain hay meadows				X	X
6530	*	Fennoscandian wooded meadows	X	X	X	X	X
7110	*	Active raised bogs	X	X	X	X	X
7120		Degraded raised bogs still capable of natural regeneration	X	X	X	X	X
7140		Transition mires and quaking bogs	X	X	X	X	X
7150		Depressions on peat substrates of the Rhynchosporion	X	X	X		
7160		Fennoscandian mineral-rich springs and springfens	X	X	X	X	X
7210	*	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	X	X	X	X	X
7220	*	Petrifying springs with tufa formation (Cratoneurion)	X	X	X	X	X

Code	P	Description	EE	LT	LV	FI	SE
7230		Alkaline fens	X	X	X	X	X
7310	*	Aapa mires				X	X
7320	*	Palsa mires				X	
8110		Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)				X	X
8120		Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)					X
8210		Calcareous rocky slopes with chasmophytic vegetation	X	X	X	X	X
8220		Siliceous rocky slopes with chasmophytic vegetation	X	X	X	X	X
8230		Siliceous rock with pioneer vegetation of the Sedo-Scleranthion or of the Sedo albi-Veronicion dillenii				X	X
8240	*	Limestone pavements	X				X
8310		Caves not open to the public	X	X	X		X
9010	*	Western Taiga	X	X	X	X	X
9020	*	Fennoscandian hemiboreal natural old broad-leaved deciduous forests (Quercus, Tilia, Acer, Fraxinus or Ulmus) rich in epiphytes	X	X	X	X	X
9030	*	Natural forests of primary succession stages of landupheaval coast				X	X
9040		Nordic subalpine/subarctic forests with Betula pubescens ssp. czerepanovii				X	
9050		Fennoscandian herb-rich forests with Picea abies	X	X		X	X
9060		Coniferous forests on, or connected to, glaciofluvial eskers	X	?	X	X	X
9070		Fennoscandian wooded pastures	X	X		X	X
9080	*	Fennoscandian deciduous swamp woods	X	X	X	X	X
9110		Luzulo-Fagetum beech forests					X
9130		Asperulo-Fagetum beech forests					X
9160		Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli		X	X		X
9180	*	Tilio-Acerion forests of slopes, screes and ravines	X	X	X	X	X
9190		Old acidophilous oak woods with Quercus robur on sandy plains		?		X	X
91D0	*	Bog woodland	X	X	X	X	X
91E0	*	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion alvae)	X	X	X	X	X
91F0		Riparian mixed forests of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus angustifolia, along the great rivers (Ulmenion minoris)	X	X	X		X
91T0		Central European lichen scots pine forests		X			

## ANNEX II SPECIES

Code	P	Species name	EE	LT	LV	FI	SE
		<b>MAMMALS</b>					
1308		Barbastella barbastellus		X	?		X
1318		Myotis dasycneme	X	X	X		X
1337		Castor fiber	e	e	e	e	e
1352	*	Canis lupus	e	e	e	e	X
1354	*	Ursus arctos	e		X	e	e
1355		Lutra lutra	X	X	X	X	X

Code	P	Species name	EE	LT	LV	FI	SE
1356	*	<i>Mustela lutreola</i>	X	Ex	Ex		
1361		<i>Lynx lynx</i>	e	X	e	e	X
1910	*	<i>Pteromys volans</i>	X	Ex	X	X	
1912	*	<i>Gulo gulo</i>				X	X
1913	*	<i>Phoca hispida saimensis</i>				X	
1937		<i>Rangifer tarandus fennicus</i>				X	
		<b>REPTILES</b>					
1220		<i>Emys orbicularis</i>		X	X		
		<b>AMPHIBIANS</b>					
1166		<i>Triturus cristatus</i>	X	X	X	X	X
1188		<i>Bombina bombina</i>		X	X		
		<b>FISH</b>					
1096		<i>Lampetra planeri</i>	e	X	X	e	e
1099		<i>Lampetra fluviatilis</i>	X	X	X	e	e
1101	*	<i>Acipenser sturio</i>	Ex	Ex	Ex		
1103		<i>Alosa fallax</i>		X			
1106		<i>Salmo salar</i>	X	X	X	e	X
1130		<i>Aspius aspius</i>	X	X	X	e	X
1134		<i>Rhodeus sericeus amarus</i>		X	X		
1145		<i>Misgurnus fossilis</i>	X	X	X		
1146		<i>Sabanejewia aurata</i>		X			
1149		<i>Cobitis taenia</i>	X	X	X	e	X
1163		<i>Cottus gobio</i>	X	X	X	e	X
2522		<i>Pelecus cultratus</i>		X	X		
		<b>INVERTEBRATES</b>					
1013		<i>Vertigo geyeri</i>	X	X	X	X	X
1014		<i>Vertigo angustior</i>	X	X	X	X	X
1015		<i>Vertigo genesii</i>	X		X	X	X
1016		<i>Vertigo moulinsiana</i>		X	X		
1029		<i>Margaritifera margaritifera</i>	X	Ex	X	X	X
1032		<i>Unio crassus</i>	X	X	X	X	X
1037		<i>Ophiogomphus cecilia</i>	X	X	X	X	X
1042		<i>Leucorrhinia pectoralis</i>	X	X	X	X	X
1052		<i>Hypodryas matura</i>	X	X	X	X	X
1059		<i>Maculinea teleius</i>		X	X		
1060		<i>Lycaena dispar</i>	X	X	X	X	
1065		<i>Euphydryas aurinia</i>	X	X	X	X	X
1081		<i>Dytiscus latissimus</i>	X	X	X	X	X
1082		<i>Graphoderus bilineatus</i>	X	X	X	X	X
1083		<i>Lucanus cervus</i>	Ex	Ex	Ex		X
1084	*	<i>Osmoderma eremita</i>	X	X	X	X	X
1086		<i>Cucujus cinnaberinus</i>	X	X	X	X	X
1088		<i>Cerambyx cerdo</i>		Ex	Ex		X
1919		<i>Agathidium pulchellum</i>				X	X
1920		<i>Boros schneideri</i>	X	X	X	X	X
1921		<i>Corticaria planula</i>				X	
1922		<i>Macroplea pubipennis</i>				X	
1923		<i>Mesosa myops</i>			Ex	X	

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1924		<i>Oxyporus mannerheimii</i>	X	X	X	X	
1925		<i>Pytho kolwensis</i>				X	X
1926		<i>Stephanopachys linearis</i>			X	X	X
1927		<i>Stephanopachys substriatus</i>			Ex	X	X
1928		<i>Xyletinus tremulicola</i>				X	X
1929		<i>Aradus angularis</i>				X	X
1934		<i>Xestia borealis</i>				X	X
1935		<i>Xestia brunneopicta</i>				X	
1936		<i>Anthrenochernes stellae</i>			X		X
4021	*	<i>Phryganophilus ruficollis</i>			X	?	
4030		<i>Colias myrmidone</i>			Ex		
4038		<i>Lycaena helle</i>		X	Ex	?	
4044	*	<i>Xylomoia strix</i>	X		X		
		<b>PLANTS</b>					
1381		<i>Dicranum viride</i>	X	X	X	X	X
1383		<i>Dichelyma capillaceum</i>	X			X	X
1386		<i>Buxbaumia viridis</i>	X	X	X	X	X
1387		<i>Orthotrichum rogeri</i>					X
1389		<i>Meesia longiseta</i>	Ex		Ex	X	X
1393		<i>Drepanocladus vernicosus</i>	X	X	X	X	X
1394		<i>Scapania massolongi</i>					X
1419		<i>Botrychium simplex</i>	Ex	X	X	X	X
1437		<i>Thesium ebracteatum</i>	X	X	X		
1477		<i>Pulsatilla patens</i>	X	X	X	X	X
1493		<i>Sisymbrium supinum</i>	X		Ex		X
1516		<i>Aldrovandra vesiculosa</i>		X			
1528		<i>Saxifraga hirculus</i>	X	X	X	X	X
1617		<i>Angelica palustris</i>	X		X		
1758		<i>Ligularia sibirica</i>	X		X		
1831		<i>Luronium natans</i>					X
1832		<i>Caldesia parnassifolia</i>		Ex			
1833		<i>Najas flexilis</i>	X	X	X	X	X
1902		<i>Cypripedium calceolus</i>	X	X	X	X	X
1903		<i>Liparis loeselii</i>	X	X	X	X	X
1939		<i>Agrimonia pilosa</i>	X	X	X	X	
1940	*	<i>Alisma wahlenbergii</i>				X	X
1941		<i>Arctagrostis latifolia</i>				X	
1942		<i>Arctophila fulva</i>				X	X
1943		<i>Arenaria ciliata pseudofrigida</i>				X	
1945		<i>Artemisia campestris bottnica</i>				X	X
1946		<i>Artemisia oelandica</i>					X
1948		<i>Calamagrostis chalybaea</i>					X
1949		<i>Calypso bulbosa</i>				X	X
1950		<i>Carex holostoma</i>				X	
1951		<i>Cinna latifolia</i>	X		X	X	X
1952		<i>Corydalis gotlandica</i>					X
1953		<i>Crepis tectorum nigrescens</i>				X	
1954		<i>Dianthus arenarius arenarius</i>	X	X	X		

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1955		Diplazium sibiricum				X	X
1957		Draba cinerea				X	
1960		Hippuris tetraphylla				X	X
1962		Moehringia lateriflora	X		Ex	X	X
1963		Najas tenuissima				X	
1966		Persicaria foliosa				X	X
1968		Primula nutans				X	X
1970		Pulsatilla vulgaris gotlandica					X
1971		Puccinellia phryganodes				X	
1972		Ranunculus lapponicus				X	X
1973		Saxifraga osloënsis					X
1974		Senecio jacobea gotlandicus					X
1975		Silene furcata angustiflora				X	X
1976		Sorbus teodorii				X	X
1979		Bryhnia novae-angliae					X
1980		Cephalozia macounii				X	X
1981		Cynodontium suecicum				X	X
1982		Encalypta mutica	X			X	X
1983		Hamatocaulis lapponicus			X	X	X
1984		Herzogiella turfacea				X	X
1985		Hygrohypnum montanum					X
1987		Plagiomnium drummondii				X	
1988		Tortella rigens	X				X
2216		Linaria loeselii		X	X		
4066		Asplenium adulterinum				?	
4086		Saussurea alpina esthonica	X		X		
4096		Gladiolus palustris		Ex			
4115		Rhinanthus oesiliensis	X				