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CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE
AND NATURAL HABITATS

Standing Committee

38th meeting
Strasbourg, 27-30 November 2018

**REVISED ANNEX 1 TO RESOLUTION NO. 4 (1996) LISTING
ENDANGERED NATURAL HABITATS REQUIRING SPECIFIC
CONSERVATION MEASURES**

*Document prepared by
the Directorate of Democratic Participation*

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**Revised Annex I to Resolution 4 (1996) of the Bern Convention
on endangered natural habitat types using the EUNIS habitat classification**
(Adopted by the Standing Committee on ... November 2018)

ENDANGERED NATURAL HABITAT TYPES

EUNIS code	EUNIS name
A	Marine habitats
A1.11	Mussel and/or barnacle communities
A1.141	Association with <i>Lithophyllum byssoides</i>
A1.22	Mussels and fucoids on moderately exposed shores
A1.44	Communities of littoral caves and overhangs
A2.2	Littoral sand and muddy sand
A2.3	Littoral mud
A2.4	Littoral mixed sediments
A2.5	Coastal saltmarshes and saline reedbeds
A2.61	Seagrass beds on littoral sediments
A2.621	<i>Eleocharis</i> beds
A2.72	Littoral mussel beds on sediment
A3	Infralittoral rock and other hard substrata
A4	Circalittoral rock and other hard substrata
A5	Sublittoral sediment
A6.911	Seeps in the deep-sea bed
B	Coastal habitats
B1.1	Sand beach driftlines
B1.3	Shifting coastal dunes
B1.4	Coastal stable dune grassland (grey dunes)
B1.5	Coastal dune heaths
B1.6	Coastal dune scrub
B1.7	Coastal dune woods
B1.8	Moist and wet dune slacks
B1.9	Machair
B2.1	Shingle beach driftlines
B2.3	Upper shingle beaches with open vegetation
B3.24	Unvegetated Baltic rocky shores and cliffs
B3.3	Rock cliffs, ledges and shores, with angiosperms
C	Inland surface waters
C1.1	Permanent oligotrophic lakes, ponds and pools
C1.222	Floating <i>Hydrocharis morsus-ranae</i> rafts
C1.223	Floating <i>Stratiotes aloides</i> rafts
C1.224	Floating <i>Utricularia australis</i> and <i>Utricularia vulgaris</i> colonies
C1.225	Floating <i>Salvinia natans</i> mats
C1.226	Floating <i>Aldrovanda vesiculosa</i> communities
C1.24113	Transylvanian hot-spring lotus beds
C1.2416	<i>Nelumbo nucifera</i> beds
C1.25	Charophyte submerged carpets in mesotrophic waterbodies
C1.32	Free-floating vegetation of eutrophic waterbodies
C1.33	Rooted submerged vegetation of eutrophic waterbodies

C1.3411	<i>Ranunculus</i> communities in shallow water
C1.3413	<i>Hottonia palustris</i> beds in shallow water
C1.4	Permanent dystrophic lakes, ponds and pools
C1.5	Permanent inland saline and brackish lakes, ponds and pools
C1.66	Temporary inland saline and brackish waters
C1.67	Turlough and lake-bottom meadows
C2.111	Fennoscandian mineral-rich springs and springfens
C2.12	Hard water springs
C2.18	Acid oligotrophic vegetation of spring brooks
C2.19	Lime-rich oligotrophic vegetation of spring brooks
C2.1A	Mesotrophic vegetation of spring brooks
C2.1B	Eutrophic vegetation of spring brooks
C2.25	Acid oligotrophic vegetation of fast-flowing streams
C2.26	Lime-rich oligotrophic vegetation of fast-flowing streams
C2.27	Mesotrophic vegetation of fast-flowing streams
C2.28	Eutrophic vegetation of fast-flowing streams
C2.33	Mesotrophic vegetation of slow-flowing rivers
C2.34	Eutrophic vegetation of slow-flowing rivers
C3.2	Water fringing reedbeds and tall helophytes other than canes
C3.4	Species-poor beds of low-growing water-fringing or amphibious vegetation
C3.51	Euro-Siberian dwarf annual amphibious swards (but excluding C3.5131 Toad-rush swards)
C3.55	Sparsely vegetated river gravel banks
C3.62	Unvegetated river gravel banks
D	Mires, bogs and fens
D1.2	Blanket bogs
D2.226	Peri-Danubian black-white-star sedge fens
D2.3	Transition mires and quaking bogs
D3.1	Palsa mires
D3.2	Aapa mires
D3.3	Polygon mires
D4.1	Rich fens, including eutrophic tall-herb fens and calcareous flushes and soaks
D4.2	Basic mountain flushes and streamsides, with a rich arctic-montane flora
D5.2	Beds of large sedges normally without free-standing water
D6.1	Inland saltmarshes
D6.23	Interior Iberian salt pan meadows
E	Grasslands and lands dominated by forbs, mosses or lichens
E1.11	Euro-Siberian rock debris swards
E1.12	Euro-Siberian pioneer calcareous sand swards
E1.13	Continental dry rocky steppic grasslands and dwarf scrub on chalk outcrops
E1.2	Perennial calcareous grassland and basic steppes
E1.3	Mediterranean xeric grassland
E1.55	Eastern sub-Mediterranean dry grassland
E1.71	<i>Nardus stricta</i> swards
E1.722	Boreo-arctic <i>Agrostis-Festuca</i> grasslands
E1.83	Mediterraneo-montane <i>Nardus stricta</i> swards
E1.9	Open non-Mediterranean dry acid and neutral grassland, including inland dune grassland
E1.B	Heavy-metal grassland
E2.15	Macaronesian mesic grassland
E2.2	Low and medium altitude hay meadows

E2.3	Mountain hay meadows
E3.1	Mediterranean tall humid grassland
E3.3	Sub-mediterranean humid meadows
E3.4	Moist or wet eutropic and mesotrophic grassland
E3.5	Moist or wet oligotrophic grassland
E4.11	Boreo-alpine acidocline snow-patch grassland and herb habitats
E4.12	Boreo-alpine calcicline snow-patch grassland and herb habitats
E4.3	Acid alpine and subalpine grassland
E4.4	Calcareous alpine and subalpine grassland
E5.4	Moist or wet tall-herb and fern fringes and meadows
E5.5	Subalpine moist or wet tall-herb and fern stands
E6.1	Mediterranean inland salt steppes
E6.2	Continental inland salt steppes
E7.3	Dehesa
F	Heathland, scrub and tundra
F2.22	Alpide acidocline <i>Rhododendron</i> heaths
F2.26	<i>Bruckenthalia</i> heaths
F2.32	Subalpine and oroboreal <i>Salix</i> brush
F2.336	Rhodope <i>Potentilla fruticosa</i> thickets
F2.41	Inner Alpine <i>Pinus mugo</i> scrub
F2.42	Outer Alpine <i>Pinus mugo</i> scrub
F2.43	Southwestern <i>Pinus mugo</i> scrub
F2.44	Apennine <i>Pinus mugo</i> scrub
F2.45	Hercynian <i>Pinus mugo</i> scrub
F3.12	<i>Buxus sempervirens</i> thickets
F3.16	<i>Juniperus communis</i> scrub
F3.21	Montane <i>Cytisus purgans</i> fields
F3.241	Central European subcontinental thickets
F3.245	Eastern Mediterranean deciduous thickets
F3.247	Ponto-Sarmatic deciduous thickets
F4.1	Wet heaths
F4.2	Dry heaths
F4.3	Macaronesian heaths
F5.13	Juniper matorral
F5.171	Iberian arid zone <i>Ziziphus matorral</i>
F5.18	<i>Laurus nobilis</i> matorral
F5.516	<i>Laurus</i> thickets
F5.517	Coastal <i>Helichrysum garrigues</i>
F5.51G	Tall spiny broom brush
F5.52	<i>Euphorbia dendroides</i> formations
F5.53	<i>Ampelodesmos mauritanica</i> -dominated garrigues
F5.54	<i>Chamaerops humilis</i> brush
F5.55	Mediterranean pre-desert scrub
F5.56	Thermo-Mediterranean broom fields (retamares)
F5.5B	Cabo de Sao Vicente brushes
F6.7	Mediterranean gypsum scrubs
F6.8	Xero-halophile scrubs
F7	Spiny Mediterranean heaths (phrygana, hedgehog-heaths and related coastal cliff vegetation)

F9.1	Riverine scrub
F9.3	Southern riparian galleries and thickets
G	Woodland, forest and other wooded land
G1.11	Riverine <i>Salix</i> woodland
G1.12	Boreo-alpine riparian galleries
G1.13	Southern <i>Alnus</i> and <i>Betula</i> galleries
G1.21	Riverine <i>Fraxinus</i> - <i>Alnus</i> woodland, wet at high but not at low water
G1.22	Mixed <i>Quercus</i> - <i>Ulmus</i> - <i>Fraxinus</i> woodland of great rivers
G1.3	Mediterranean riparian woodland
G1.41	Alnus Swamp Woods not on acid peat
G1.4115	Eastern Carpathian <i>Alnus glutinosa</i> swamp woods
G1.414	Steppe swamp <i>Alnus glutinosa</i> woods
G1.44	Wet-ground woodland of the Black and Caspian Seas
G1.51	Sphagnum <i>Betula</i> woods
G1.6	<i>Fagus</i> woodland
G1.7	Thermophilous deciduous woodland
G1.8	Acidophilous <i>Quercus</i> -dominated woodland
G1.917	Oroboreal <i>Betula</i> woods and thickets
G1.918	Eurasian boreal <i>Betula</i> woods
G1.925	Boreal <i>Populus tremula</i> woods
G1.A1	<i>Quercus</i> - <i>Fraxinus</i> - <i>Carpinus betulus</i> woodland on eutrophic and mesotrophic soils
G1.A4	Ravine and slope woodland
G1.A7	Mixed deciduous woodland of the Black and Caspian Seas
G1.B3	Boreal and boreonemoral <i>Alnus</i> woods
G2	Broadleaved evergreen woodland
G3.134	Holy Cross fir forests
G3.15	Southern Apennine <i>Abies alba</i> forests
G3.16	Moesian <i>Abies alba</i> forests
G3.17	Balkano-Pontic <i>Abies</i> forests
G3.19	<i>Abies pinsapo</i> forests
G3.1B	Alpine and Carpathian subalpine <i>Picea</i> forests
G3.1C	Inner range montane <i>Picea</i> forests
G3.1D	Hercynian subalpine <i>Picea</i> forests
G3.1E	Southern European <i>Picea abies</i> forests
G3.1F	Enclave <i>Picea abies</i> forests
G3.1G	<i>Picea omorika</i> forests
G3.1H	<i>Picea orientalis</i> forests
G3.21	Eastern Alpine siliceous <i>Larix</i> and <i>Pinus cembra</i> forests
G3.22	Eastern Alpine calcicolous <i>Larix</i> and <i>Pinus cembra</i> forests
G3.25	Carpathian <i>Larix</i> and <i>Pinus cembra</i> forests
G3.26	<i>Larix polonica</i> forests
G3.31	<i>Pinus uncinata</i> forests with <i>Rhododendron ferrugineum</i>
G3.32	Xerocline <i>Pinus uncinata</i> forests
G3.41	Caledonian forest
G3.4232	Sarmatic steppe <i>Pinus sylvestris</i> forests
G3.4233	Carpathian steppe <i>Pinus sylvestris</i> woods
G3.4234	Pannonic steppe <i>Pinus sylvestris</i> woods
G3.43	Inner-Alpine Ononis steppe forests
G3.44	Spring heath <i>Pinus sylvestris</i> forests

G3.4C	Southeastern European <i>Pinus sylvestris</i> forests
G3.4E	Ponto-Caucasian <i>Pinus sylvestris</i> forests
G3.4G	<i>Pinus sylvestris</i> forest on chalk in the steppe zone
G3.5	<i>Pinus nigra</i> woodland (but excluding G3.57 : <i>Pinus nigra</i> reforestation)
G3.6	Subalpine mediterranean <i>Pinus</i> woodland
G3.7	Lowland to montane mediterranean <i>Pinus</i> woodland (excluding <i>Pinus nigra</i>)
G3.8	Canary Island <i>Pinus canariensis</i> woodland
G3.9	Coniferous woodland dominated by <i>Cupressaceae</i> or <i>Taxaceae</i>
G3.A	<i>Picea</i> taiga woodland
G3.B	<i>Pinus</i> taiga woodland
G3.D	Boreal bog conifer woodland
G3.E	Nemoral bog conifer woodland
H	Inland unvegetated or sparsely vegetated habitats
H1	Terrestrial underground caves, cave systems, passages and waterbodies
H2.1	Cold siliceous screes
H2.2	Cold limestone screes
H2.3	Temperate-montane acid siliceous screes
H2.4	Temperate-montane calcareous and ultra-basic screes
H2.5	Acid siliceous screes of warm exposures
H2.6	Calcareous and ultra-basic screes of warm exposures
H3.1	Acid siliceous inland cliffs
H3.2	Basic and ultra-basic inland cliffs
H3.511	Limestone pavements
H4.2	Ice caps and true glaciers
H4.3	Rock glaciers and unvegetated ice-dominated moraines
H6	Recent volcanic features
X	Habitat complexes
X01	Estuaries
X02	Saline coastal lagoons
X03	Brackish coastal lagoons
X04	Raised bog complexes
X09	Pasture woods (with a tree layer overlying pasture)
X18	Wooded steppe
X29	Salt lake islands
X35	Inland Sand Dunes
X36	Depressions (pody) of the Steppe zone

XX new habitat types proposed by Switzerland (2014) and Ukraine (2018).

YY habitat types for which the description in the Interpretation Manual of Habitats will be amended so as to cover more explicitly the habitats *Pistacia mutica* woodland and *Mud volcano*es proposed by Ukraine.

ZZ habitat sub-types listed prior the addition of a higher level habitat type. To be removed from the list.