

## Appendix B

## Habitat types of Annex I of Directive 92/43/EEC

Code	Annex I code	P	Habitat type
1110	11.25		Sandbanks which are slightly covered by sea water all the time
1120	11.34	*	Posidonia beds
1130	13.2		Estuaries
1140	14		Mudflats and sandflats not covered by seawater at low tide
1150	21	*	Lagoons
1160	—		Large shallow inlets and bays
1170	—		Reefs
1180	—		Marine 'columns' in shallow water made by leaking gases
1210	17.2		Annual vegetation of drift lines
1220	17.3		Perennial vegetation of stony banks
1230	18.21		Vegetated sea cliffs of the Atlantic and Baltic coasts
1240	18.22		Vegetated sea cliffs of the Mediterranean coasts (with endemic <i>Limonium</i> spp.)
1250	18.23		Vegetated sea cliffs of the Macaronesian coasts (flora endemic to these coasts)
1310	15.11		Salicornia and other annuals colonizing mud and sand
1320	15.12		Spartina swards (Spartinion)
1330	15.13		Atlantic salt meadows ( <i>Glauco-Puccinellietalia</i> )
1340	15.14	*	Continental salt meadows ( <i>Puccinellietalia distantis</i> )
1410	15.15		Mediterranean salt meadows ( <i>Juncetalia maritimi</i> )
1420	15.16		Mediterranean and thermo-Atlantic halophilous scrubs ( <i>Arthrocnemetalia fruticosae</i> )
1430	15.17		Iberia halo-nitrophilous scrubs ( <i>Pegano-Salsoletea</i> )
1510	15.18	*	Salt steppes ( <i>Limonietalia</i> )
1520	15.19	*	Gypsum steppes ( <i>Gypsophiletalia</i> )
1530	15.1A	*	Pannonic salt steppes and salt marshes
2110	16.211		Embryonic shifting dunes
2120	16.212		Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (white dunes)
2130	16.221 -> 16.227	*	Fixed dunes with herbaceous vegetation (grey dunes)
2131	16.221	*	<i>Galio-Koelerion albescentis</i>
2132	16.222	*	<i>Euphorbio-Helichryson</i>
2133	16.223	*	<i>Crucianellion maritimae</i>
2134	16.224	*	<i>Euphorbia terracina</i>
2135	16.225	*	<i>Mesobromion</i>
2136	16.226	*	<i>Trifolio-Gerantietea sanguinei</i> , <i>Galio maritimi-Geranium sanguinei</i>

Code	Annex I code	P	Habitat type
2137	16.227	*	<i>Thero-Airion, Botrychio-Polygaletum, Tuberarion guttatae</i>
2140	16.23	*	Decalcified fixed dunes with <i>Empetrum nigrum</i>
2150	16.24	*	Eu-atlantic decalcified fixed dunes ( <i>Calluno-Ulicetea</i> )
2160	16.25		Dunes with <i>Hyppophae rhamnoides</i>
2170	16.26		Dunes with <i>Salix arenaria</i>
2180	16.29		Wooded dunes of the Atlantic coast
2190	16.31 -> 16.35		Humid dune slacks
2191	16.31		Dune-slack pools
2192	16.32		Dune-slack pioneer swards
2193	16.33		Dune-slack fens
2194	16.34		Dune-slack grasslands
2195	16.35		Dune-slack reedbeds and sedgebeds
21A0	1A	*	Machairs (* in machairs in Ireland)
2210	16.223		<i>Crucianellion maritimae</i> fixed beach dunes
2220	16.224		Dunes with <i>Euphorbia terracina</i>
2230	16.228		<i>Malcolmietalia</i> dune grasslands
2240	16.229		<i>Brachypodietalia</i> dune grasslands with annuals
2250	16.27	*	Dune juniper thickets ( <i>Juniperus</i> spp.)
2260	16.28		Dune sclerophyllous scrubs ( <i>Cisto-Lavenduletalia</i> )
2270	16.29 x 42.8	*	Wooded dunes with <i>Pinus pinea</i> and/or <i>Pinus pinaster</i>
2310	64.1 x 31.223		Dry sandy heaths with <i>Calluna</i> and <i>Genista</i>
2320	64.1 x 31.227		Dry sandy heaths with <i>Calluna</i> and <i>Empetrum nigrum</i>
2330	64.1 x 35.2		Open grassland with <i>Corynephorus</i> and <i>Agrostis</i> of continental dunes
2340	64.71	*	Pannonic inland dunes
3110	22.11 x 22.31		Oligotrophic waters containing very few minerals of Atlantic sandy plains with amphibious vegetation: <i>Lobelia</i> , <i>Littorelia</i> and <i>Isoetes</i>
3120	22.11 x 22.34		Oligotrophic waters containing very few minerals of West Mediterranean sandy plains with <i>Isoetes</i>
3130	22.12 x (22.31 & 22.32)		Oligotrophic waters in medio-European and perialpine area with amphibious vegetation: <i>Littorella</i> or <i>Isoetes</i> or annual vegetation on exposed banks ( <i>Nanocyperetalia</i> )
3131	22.12 x 22.31		Oligotrophic waters in medio-European and perialpine area with amphibious vegetation: <i>Littorella</i> or <i>Isoetes</i>
3132	22.12 x 22.32		Oligotrophic waters in medio-European and perialpine area with annual vegetation on exposed banks ( <i>Nanocyperetalia</i> )
3140	22.12 x 22.44		Hard oligo-mesotrophic waters with benthic vegetation of chara formations
3150	22.13		Natural eutrophic lakes with <i>Magnopotamion</i> or <i>Hydrocharition</i> -type vegetation
3160	22.14		Dystrophic lakes
3170	22.34	*	Mediterranean temporary ponds

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3180	—	*	Turloughs (Ireland)
3220	24.221 & 24.222		Alpine rivers and the herbaceous vegetation along their banks
3221	24.221		Subalpine willowherb stream community
3222	24.222		Alpine gravel bed community
3230	24.223		Alpine rivers and their ligneous vegetation with <i>Myricaria germanica</i>
3240	24.224		Alpine rivers and their ligneous vegetation with <i>Salix elaeagnos</i>
3250	24.225		Constantly flowing Mediterranean rivers with <i>Glaucium flavum</i>
3260	24.4		Floating vegetation of <i>Ranunculus</i> of plane, submountainous rivers
3270	24.52		<i>Chenopodietum rubri</i> of submountainous rivers
3280	24.53		Constantly flowing Mediterranean rivers: <i>Paspalo-Agrostidion</i> and hanging curtains of <i>Salix</i> and <i>Populus alba</i>
3290	—		Intermittently flowing Mediterranean rivers
4010	31.11		Northern Atlantic wet heaths with <i>Erica tetralix</i>
4020	31.12	*	Southern Atlantic wet heaths with <i>Erica ciliaris</i> and <i>Erica tetralix</i>
4030	31.2		Dry heaths (all subtypes)
4040	31.234	*	Dry coastal heaths with <i>Erica vagans</i> and <i>Ulex maritimus</i>
4050	31.3	*	Endemic macaronesian dry heaths
4060	31.4		Alpine and subalpine heaths
4070	31.5	*	Scrub with <i>Pinus mugo</i> and <i>Rhododendron hirsutum</i> ( <i>Mugo-Rhododendretum hirsuti</i> )
4080	31.622		Sub-Arctic willow scrub
4090	31.7		Endemic oro-Mediterranean heaths with gorse
5110	31.82		Stable <i>Buxus sempervirens</i> formations on calcareous rock slopes ( <i>Berberidion</i> p.)
5120	31.842		Mountain <i>Genista purgans</i> formations
5130	31.88		<i>Juniperus communis</i> formations on calcareous heaths or grasslands
5140	31.89	*	<i>Cistus palhinbae</i> formations on maritime wet heaths ( <i>Junipero-Cistetum palhinbae</i> )
5210	32.131 -> 32.135		Juniper formations
5211	32.131		<i>Juniperus oxycedrus arborescent matorral</i>
5212	32.132		<i>Juniperus phoenicea arborescent matorral</i>
5213	32.133		<i>Juniperus excelsa</i> and <i>J. foetidissima arborescent matorrals</i>
5214	32.134		<i>Juniperus communis arborescent matorral</i>
5215	32.135		<i>Juniperus drupacea arborescent matorral</i>
5220	32.17	*	Matorral with <i>Zyziphus</i>
5230	32.18	*	Matorral with <i>Laurus nobilis</i>

Code	Annex I code	P	Habitat type
5310	32.216		Laurel thickets
5320	32.217		Low formations of euphorbia close to cliffs
5330	32.22 -> 32.26		All types
5331	32.22		Tree-spurge formations
5332	32.23		Diss-dominated garrigues
5333	32.24		Palmetto-brush
5334	32.25		Pre-desert scrub
5335	32.26		Thermo-mediterranean broom fields (retamares)
5410	33.1		<i>Astralago-Plantaginetum subulatae phrygana</i>
5420	33.3		<i>Sarcopoterium spinosum phrygana</i>
5430	33.4		Cretan formations ( <i>Euphorbieto-Verbascion</i> )
6110	34.11	*	Karstic calcareous grasslands ( <i>Alyso-Sedion albi</i> )
6120	34.12	*	Xeric sand calcareous grasslands ( <i>Koelerion glaucae</i> )
6130	34.2		Calaminarian grasslands
6140	36.314		Siliceous Pyrenean grasslands with <i>Festuca eskia</i>
6150	36.32		Siliceous alpine and boreal grass
6160	36.36		Siliceous <i>Festuca indigesta</i> Iberian grasslands
6170	36.41 -> 36.45		Alpine calcareous grasslands
6171	36.41		Rusty sedge meadows and related communities
6172	36.42		Wind edge naked-rush swards
6173	36.43		Stepped and garland grasslands
6174	36.44		Alpine heavy metal communities
6175	36.45		Oro-Mediterranean stripped grasslands
6180	36.5		Macaronesian mountain grasslands
6210	34.31 -> 34.34	*	On calcareous substrates ( <i>Festuco Brometalia</i> )(*important orchid sites)
6211	34.31	*	Sub-continental steppic grasslands
6212	34.32	*	Sub-Atlantic semi-dry calcareous grasslands
6213	34.33	*	Sub-Atlantic very dry calcareous grasslands
6214	34.34	*	Central European calcaro-siliceous grasslands
6220	34.5	*	Pseudo-steppe with grasses and annuals ( <i>Thero-Brachypodietea</i> )
6230	35.1	*	Species-rich <i>Nardus</i> grasslands, on siliceous substrates in mountain areas (and submountain areas, in continental Europe)
6240	34.31	*	Sub-continental steppic grassland
6250	34.91	*	Pannonic steppes
6260	34.A1	*	Pannonic sand steppes
6310	32.11		With <i>Quercus suber</i> and/or <i>Quercus ilex</i>

Code	Annex I code	P	Habitat type
6410	37.31		Molinia meadows on chalk and clay ( <i>Eu-Molinion</i> )
6420	37.4		Mediterranean tall-herb and rush meadows ( <i>Molinio-Holoschoenion</i> )
6430	37.7 & 37.8		Eutrophic tall herbs
6431	37.7		Humid tall herb fringes of watercourses and woodlands
6432	37.8		Subalpine and alpine tall herb communities
6440	—		<i>Cnidion venosae</i> meadows liable to flooding
6510	38.2		Lowland hay meadows ( <i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i> )
6520	38.3		Mountain hay meadows (British types with <i>Geranium sylvaticum</i> )
7110	51.1	*	Active raised bogs
7120	51.2		Degraded raised bogs (still capable of natural regeneration)
7130	52.1 & 52.2	*	Blanket bog (*active only)
7131	52.1	*	Lowland blanket bogs
7132	52.2	*	Upland blanket bogs
7140	54.5		Transition mires and quaking bogs
7150	54.6		Depressions on peat substrates ( <i>Rhynchosporion</i> )
7210	53.3	*	Calcareous fens with <i>Cladium mariscus</i> and <i>Carex davalliana</i>
7220	54.12	*	Petrifying springs with tufa formation ( <i>Cratoneurion</i> )
7230	54.2		Alkaline fens
7240	54.3	*	Alpine pioneer formations of <i>Caricion bicoloris-atrofuscae</i>
7310	54.8	*	<i>Aapa mires</i>
7320	54.9	*	<i>Palsa mires</i>
8110	61.1		Siliceous
8120	61.2		Eutric
8130	61.3		Western Mediterranean and alpine thermophilous
8140	61.4		Balkan
8150	61.5		Medio-European siliceous
8160	61.6	*	Medio-European calcareous
8210	62.1 & 62.1A		Calcareous sub-types
8211	62.11		Western eu-Mediterranean and oro-Iberian calcareous cliffs
8212	62.12		Central Pyrenean calcareous cliffs
8213	62.13		Liguro-apennine calcareous cliffs
8214	62.14		Southern Italian calcareous cliffs
8215	62.15		Alpine and sub-Mediterranean calcareous cliffs
8216	62.16		Eu-Mediterranean Greek calcareous cliffs
8217	62.17		Aegean calcareous cliffs
8218	62.18		Southern Greek montane cliffs

Code	Annex I code	P	Habitat type
8219	62.19		Central Greek montane cliffs
821A	62.1A		Northern Greek calcareous cliffs
8220	62.2		Silicolous sub-types
8230	62.3		Pioneer vegetation of rock surfaces
8240	62.4	*	Limestone pavements
8310	65		Caves not open to the public
8320	—		Fields of lava and natural excavations
8330	—		Submerged or partly submerged sea caves
8340	—		Permanent glaciers
9010	42.C	*	Western taiga
9110	41.11		<i>Luzulo-Fagetum</i> beech forests
9120	41.12		Beech forests with <i>Ilex</i> and <i>Taxus</i> , rich in epiphytes ( <i>Ilici-Fagion</i> )
9130	41.13		<i>Asperulo-Fagetum</i> beech forests
9140	41.15		Subalpine beech woods with <i>Acer</i> and <i>Rumex arifolius</i>
9150	41.16		Calcareous beech forests ( <i>Cephalanthero-Fagion</i> )
9160	41.24		<i>Stellario-Carpinetum</i> oak-hornbeam forests
9170	41.26		<i>Galio-Carpinetum</i> oak-hornbeam forests
9180	41.4	*	<i>Tilio-Acerion</i> ravine forests
9190	41.51		Old acidophilous oak woods with <i>Quercus robur</i> on sandy plains
91A0	41.53		Old oak woods with <i>Ilex</i> and <i>Blechnum</i> in British Isles
91B0	41.86		<i>Fraxinus angustifolia</i> woods
91C0	42.51	*	Caledonian forest
91D0	44.A1 -> 44.A4	*	Bog woodland
91D1	44.A1	*	Sphagnum birch woods
91D2	44.A2	*	Scots pine bog woods
91D3	44.A3	*	Mountain pine bog woods
91D4	44.A4	*	Sphagnum spruce woods
91	44.3	*	Residual alluvial forests ( <i>Alnion glutinoso-incanae</i> )
91F0	44.4		Mixed oak-elm-ash forests of great rivers
91G0	41.2B	*	Pannonic oak-hornbeam forests
91H0	41.7374	*	Pannonian white-oak woods
91I0	41.7A	*	Euro-Siberian steppe oak woods
9210	41.181	*	Apennine beech forests with <i>Taxus</i> and <i>Ilex</i>
9220	41.184	*	Apennine beech forests with <i>Abies alba</i> and beech forests with <i>Abies nebrodensis</i>

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9230	41.6		Galicio-Portuguese oak woods with <i>Quercus robur</i> and <i>Quercus pyrenaica</i>
9240	41.77		<i>Quercus faginea</i> woods (Iberian Peninsula)
9250	41.85		<i>Quercus trojana</i> woods (Italy and Greece)
9260	41.9		Chestnut woods
9270	41.1A X 42.17		Hellenic beech forests with <i>Abies borisii-regis</i>
9280	41.1B		<i>Quercus frainetto</i> woods
9290	42.A1		Cypress forests ( <i>Acero-Cupression</i> )
92A0	44.17		<i>Salix alba</i> and <i>Populus alba</i> galleries
92B0	44.52		Riparian formations on intermittent Mediterranean water courses with <i>Rhododendron ponticum</i> , <i>Salix</i> and others
92C0	44.7		Oriental plane woods ( <i>Platanion orientalis</i> )
92D0	44.8		Thermo-Mediterranean riparian galleries ( <i>Nerio-Tamariceteae</i> ) and south-west Iberian Peninsula riparian galleries ( <i>Securinegion tinctoriae</i> )
9310	41.7C		Cretan <i>Quercus brachyphylla</i> forests
9320	45.1		<i>Olea</i> and <i>Ceratonia</i> forests
9330	45.2		<i>Quercus suber</i> forests
9340	45.3		<i>Quercus ilex</i> forests
9350	45.5		<i>Quercus macrolepis</i> forests
9360	45.61 -> 45.63	*	Macaronesian laurel forests ( <i>Laurus</i> , <i>Ocotea</i> )
9361	45.61	*	Azorean <i>laurisilvas</i>
9362	45.62	*	Madeiran <i>laurisilvas</i>
9363	45.63	*	Canarian <i>laurisilvas</i>
9370	45.7	*	Palm groves of Phoenix
9380	45.8		Forests of <i>Ilex aquifolium</i>
9410	42.21 -> 42.23		Acidophilous forests ( <i>Vaccinio-Piceetea</i> )
9411	42.21		Sub-alpine spruce forests of the Alps
9412	42.22		Montane spruce forests of the inner Alps
9413	42.23		Subalpine hercynian forests
9420	42.31 & 42.32		Alpine forests with larch and <i>Pinus cembra</i>
9421	42.31		Eastern siliceous larch and arolla forests
9422	42.32		Eastern calcicolous larch and arolla forests
9430	42.4	*	<i>Pinus uncinata</i> forests (*on gypsum or limestone)
9510	42.14	*	Appenine <i>Abies alba</i> and <i>Picea excelsa</i> forests
9520	42.19		<i>Abies pinsapo</i> forests
9530	42.61 -> 42.66	*	Mediterranean pine forests with endemic black pines

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9531	42.61	*	Italian <i>Pinus nigra</i> forests
9532	42.62	*	Greek <i>Pinus nigra</i> forests
9533	42.63	*	Salzmann's pine forests
9534	42.64	*	Corsican laricio pine forests
9535	42.65	*	Calabrian laricio pine forests
9536	42.66	*	Pallas's pine forests
9540	42.8		Mediterranean pine forests with endemic Mesogean pines, including <i>Pinus mugo</i> and <i>Pinus leucodermis</i>
9550	42.9		Macaronesian pine forests (endemic)
9560	42.A2 -> 42.A5 & 42.A8	*	Endemic Mediterranean forests with <i>Juniperus</i> spp.
9561	42.A2	*	Spanish juniper woods
9562	42.A3	*	Grecian juniper woods
9563	42.A4	*	Stinking juniper ( <i>Juniperus foetidissima</i> ) woods
9564	42.A5	*	Syrian juniper ( <i>Juniperus drupaceae</i> ) woods
9565	42.A8	*	Macaronesian juniper woods
9570	42.A6	*	<i>Tetraclinis articulata</i> forests (Murcia)
9580	42.A71 -> 42.A73	*	<i>Taxus baccata</i> woods
9581	42.A71	*	British yew woods
9582	42.A72	*	Corsican yew woods
9583	42.A73	*	Sardinian yew woods