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2013/0033 (NLE)

Proposal for a

COUNCIL DIRECTIVE

**adapting Directives 92/43/EEC, 2001/81/EC and 2009/147/EC in the field of
environment, by reason of the accession of Croatia**

EXPLANATORY MEMORANDUM

1. CONTEXT OF THE PROPOSAL

The proposal for a Council Directive adapting Directives 92/43/EEC, 2001/81/EC and 2009/147/EC in the field of environment is necessitated by the upcoming accession of the Republic of Croatia to the European Union.

The Treaty concerning the accession of the Republic of Croatia to the European Union¹ was signed by all Member States of the European Union and the Republic of Croatia at Brussels on 9 December 2011.

Article 3 (3) of the Treaty of accession provides that it shall enter into force on 1 July 2013 provided that all the instruments of ratification have been deposited before that date.

Article 3(4) of the Treaty of Accession enables the institutions of the Union to adopt before accession measures referred to, inter alia, in Article 50 of the Act concerning the conditions of accession of the Republic of Croatia². These measures shall enter into force only subject to and on the date of the entry into force of the Treaty of Accession.

Article 50 of the Act of Accession provides that where acts of the institutions adopted prior to accession require adaptation by reason of accession, and the necessary adaptations have not been provided for in this Act or its Annexes, the Council or the Commission (if the original acts was adopted by the Commission) shall adopt the necessary acts.

Point 2 of the Final Act³ refers to the political agreement on a set of adaptations to be adopted by the institutions which was reached between the Member States and Croatia in the context of the approval of the Treaty of Accession; the High Contracting Parties of the Treaty of Accession invited the Council and the Commission to adopt these adaptations before accession in accordance with Article 50 of the Act of Accession, completed and updated where necessary to take account of the evolution of the law of the Union.

The present proposal for a Council Directive covers adaptations in the field of environment as regards firstly Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora, secondly Directive 2001/81/EC on national emission ceilings for certain atmospheric pollutants, and thirdly Directive 2009/147/EC on the conservation of wild birds, by reason of the accession of Croatia. These three Directives are regrouped together because they are the only Directives concerned by this technical adaptation exercise in the field of environment whose validity is not limited in time. These Directives fall within the field of environment – corresponding to negotiation chapter 27.

¹ OJ L 112, 24.4.2012, p. 10.

² OJ L 112, 24.4.2012, p. 21.

³ OJ L 112, 24.4.2012, p. 95.

This proposal is part of a series of proposals for Council directives by the Commission to the Council which regroup the technical adaptations to Council directives as well as to European Parliament and Council directives corresponding to negotiation chapters into separate proposals for different Council directives. This structure is designed to facilitate the transposition of the directives concerned by Member States into their respective legal orders. The package of proposals for legal acts which the Commission has transmitted to the Council is composed of this series of proposals for Council directives on the one hand, as well as of a proposal for a single Council regulation which covers the relevant European Parliament and Council regulations and decisions as well as the relevant Council regulations and decisions on the other hand. This is in line with the approach which was taken in the past in view of the accession of Bulgaria and Romania⁴.

It is foreseen that all the legal acts included in this package will be published in the *Official Journal of the European Union* at the same date.

The present proposal and the other proposals included in this package will take into account technical adaptations to the *acquis* which were published in the Official Journal of the European Union until 1 September 2012. The reasons for this are to provide sufficient time for the legislative processes involved on the one hand, and for the fulfilment of the ensuing transposition and notification obligations by Member States as regards directives on the other hand. Adaptations which may be necessary to the *acquis* published in the Official Journal of the European Union after 1 September 2012 will be foreseen in the relevant acts themselves or done at a later stage through the appropriate procedure. In addition, the Commission intends to informally provide a list of such legislation to Member States in early July 2013.

2. RESULTS OF CONSULTATIONS WITH THE INTERESTED PARTIES AND IMPACT ASSESSMENTS

As this proposal is of a purely technical nature and does not involve any political choices, consultations with interested parties or impact assessments would not have made sense.

3. LEGAL ELEMENTS OF THE PROPOSAL

The legal basis for the proposal is Article 50 of the Act concerning the conditions of accession of the Republic of Croatia.

The principles of subsidiarity and proportionality are fully respected. The action of the Union is necessary under the principle of subsidiarity (Article 5 (3) TEU) because it concerns technical adaptations to legal acts which were enacted by the Union. The proposal respects the principle of proportionality (Article 5 (4) TEU) because it does not go beyond what is necessary to reach the objective pursued.

⁴ OJ L 363, 20.12.2006, p. 1.

4. BUDGETARY IMPLICATION

The proposal has no budgetary implications.

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COUNCIL DIRECTIVE

adapting Directives 92/43/EEC, 2001/81/EC and 2009/147/EC in the field of environment, by reason of the accession of Croatia

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to the Treaty of Accession of the Republic of Croatia, and in particular Article 3(4) thereof,

Having regard to the Act of Accession of the Republic of Croatia, and in particular Article 50 thereof,

Having regard to the proposal from the Commission,

Whereas:

- (1) Pursuant to Article 50 of the Act of Accession, where acts of the institutions adopted prior to accession require adaptation by reason of accession, and the necessary adaptations have not been provided for in the Act of Accession or its Annexes, the Council, acting by qualified majority on a proposal from the Commission, shall, to this end, adopt the necessary acts, if the original act was not adopted by the Commission.
- (2) The Final Act of the Conference which drew up the Treaty of Accession indicated that the High Contracting Parties had reached political agreement on a set of adaptations to acts adopted by the institutions required by reason of accession and invited the Council and the Commission to adopt these adaptations before accession, completed and updated where necessary to take account of the evolution of the law of the Union.
- (3) Directives 92/43/EEC¹, 2001/81/EC² and 2009/147/EC³ should therefore be amended accordingly,

¹ OJ L 206, 22.7.1992, p. 7.

² OJ L 309, 27.11.2001, p. 22.

³ OJ L 20, 26.1.2010, p. 7

HAS ADOPTED THIS DIRECTIVE:

Article 1

Directives 92/43/EEC, 2001/81/EC and 2009/147/EC shall be amended as set out in the Annex.

Article 2

1. Member States shall adopt and publish, by the date of accession of the Republic of Croatia to the European Union at the latest, the laws, regulations and administrative provisions necessary to comply with this Directive. They shall forthwith communicate to the Commission the text of those provisions.

They shall apply those provisions from the date of accession of the Republic of Croatia to the European Union.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2. Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 3

This Directive shall enter into force subject to, and as from the date of the entry into force of the Treaty of Accession of the Republic of Croatia.

Article 4

This Directive is addressed to the Member States.

Done at Brussels,

*For the Council
The President*

ANNEX

ENVIRONMENT

A. INDUSTRIAL POLLUTION CONTROL AND RISK MANAGEMENT

1. 32001 L 0081: Directive 2001/81/EC of the European Parliament and of the Council of 23 October 2001 on national emission ceilings for certain atmospheric pollutants (OJ L 309, 27.11.2001, p. 22):

(a) Annex I is replaced by the following:

'ANNEX I

National emission ceilings for SO₂, NO_x, VOC and NH₃, to be attained by 2010¹

Country	SO ₂ Kilotonnes	NO _x Kilotonnes	VOC Kilotonnes	NH ₃ Kilotonnes
Belgium	99	176	139	74
Bulgaria ²	836	247	175	108
Czech Republic	265	286	220	80
Denmark	55	127	85	69
Germany	520	1 051	995	550
Estonia	100	60	49	29
Greece	523	344	61	73
Spain	746	847	662	353
France	375	810	1 050	780
Croatia	70	87	90	30

¹ These national emission ceilings are designed with the aim of broadly meeting the interim environmental objectives set out in Article 5. Meeting those objectives is expected to result in a reduction of soil eutrophication to such an extent that the Community area with depositions of nutrient nitrogen in excess of the critical loads will be reduced by about 30% compared with the situation in 1990.

² These national emission ceilings are temporary and are without prejudice to the review according to Article 10 of this Directive, which is to be completed in 2008.

Ireland	42	65	55	116
Italy	475	990	1 159	419
Cyprus	39	23	14	09
Latvia	101	61	136	44
Lithuania	145	110	92	84
Luxembourg	4	11	9	7
Hungary	500	198	137	90
Malta	9	8	12	3
Netherlands	50	260	185	128
Austria	39	103	159	66
Poland	1 397	879	800	468
Portugal	160	250	180	90
Romania ¹	918	437	523	210
Slovenia	27	45	40	20
Slovakia	110	130	140	39
Finland	110	170	130	31
Sweden	67	148	241	57
United Kingdom	585	1 167	1 200	297
EC 28	8 367	9 090	8 938	4 324

(b) In Annex II, the table is replaced by the following:

¹ These national emission ceilings are temporary and are without prejudice to the review according to Article 10 of this Directive, which is to be completed in 2008.

	SO ₂ Kilotonnes	NO _x Kilotonnes	VOC Kilotonnes
EC 28 ⁽¹⁾	7902	8267	7675

⁽¹⁾ These emission ceilings are temporary and are without prejudice to the review according to Article 10 of this Directive, which is to be completed in 2008.'

B. NATURE PROTECTION

1. 31992 L 0043: Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ L 206, 22.7.1992, p. 7):

(a) Annex I is replaced by the following:

'ANNEX I

NATURAL HABITAT TYPES OF COMMUNITY INTEREST WHOSE CONSERVATION REQUIRES THE DESIGNATION OF SPECIAL AREAS OF CONSERVATION

Interpretation

Guidance on the interpretation of habitat types is given in the latest updated version of the 'Interpretation Manual of European Union Habitats' as approved by the committee set up under Article 20 ('Habitats Committee') and published by the European Commission.

The code corresponds to the NATURA 2000 code.

The sign '*' indicates priority habitat types.

1. COASTAL AND HALOPHYTIC HABITATS

11. Open sea and tidal areas

1110 Sandbanks which are slightly covered by sea water all the time

1120 * *Posidonia* beds (*Posidonion oceanicae*)

1130 Estuaries

1140 Mudflats and sandflats not covered by seawater at low tide

1150 * Coastal lagoons

1160 Large shallow inlets and bays

1170 Reefs

1180 Submarine structures made by leaking gases

12. Sea cliffs and shingle or stony beaches

- 1210 Annual vegetation of drift lines
- 1220 Perennial vegetation of stony banks
- 1230 Vegetated sea cliffs of the Atlantic and Baltic Coasts
- 1240 Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* spp.
- 1250 Vegetated sea cliffs with endemic flora of the Macaronesian coasts

13. Atlantic and continental salt marshes and salt meadows

- 1310 *Salicornia* and other annuals colonizing mud and sand
- 1320 *Spartina* swards (*Spartinion maritimae*)
- 1330 Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*)
- 1340 * Inland salt meadows

14. Mediterranean and thermo-Atlantic salt marshes and salt meadows

- 1410 Mediterranean salt meadows (*Juncetalia maritimi*)
- 1420 Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*)
- 1430 Halo-nitrophilous scrubs (*Pegano-Salsoletea*)

15. Salt and gypsum inland steppes

- 1510 * Mediterranean salt steppes (*Limonietalia*)
- 1520 * Iberian gypsum vegetation (*Gypsophiletalia*)
- 1530 * Pannonic salt steppes and salt marshes

16. Boreal Baltic archipelago, coastal and landupheaval areas

- 1610 Baltic esker islands with sandy, rocky and shingle beach vegetation and sublittoral vegetation
- 1620 Boreal Baltic islets and small islands

- 1630 * Boreal Baltic coastal meadows
- 1640 Boreal Baltic sandy beaches with perennial vegetation
- 1650 Boreal Baltic narrow inlets

2. COASTAL SAND DUNES AND INLAND DUNES

21. Sea dunes of the Atlantic, North Sea and Baltic coasts

- 2110 Embryonic shifting dunes
- 2120 Shifting dunes along the shoreline with *Ammophila arenaria* ("white dunes")
- 2130 * Fixed coastal dunes with herbaceous vegetation ("grey dunes")
- 2140 * Decalcified fixed dunes with *Empetrum nigrum*
- 2150 * Atlantic decalcified fixed dunes (*Calluno-Ulicetea*)
- 2160 Dunes with *Hippophaë rhamnoides*
- 2170 Dunes with *Salix repens* ssp. *argentea* (*Salicion arenariae*)
- 2180 Wooded dunes of the Atlantic, Continental and Boreal region
- 2190 Humid dune slacks
- 21A0 Machairs (* in Ireland)

22. Sea dunes of the Mediterranean coast

- 2210 *Crucianellion maritimae* fixed beach dunes
- 2220 Dunes with *Euphorbia terracina*
- 2230 *Malcolmietalia* dune grasslands
- 2240 *Brachypodietalia* dune grasslands with annuals
- 2250 * Coastal dunes with *Juniperus* spp.
- 2260 *Cisto-Lavenduletalia* dune sclerophyllous scrubs
- 2270 * Wooded dunes with *Pinus pinea* and/or *Pinus pinaster*

23. Inland dunes, old and decalcified

- 2310 Dry sand heaths with *Calluna* and *Genista*

- 2320 Dry sand heaths with *Calluna* and *Empetrum nigrum*
- 2330 Inland dunes with open *Corynephorus* and *Agrostis* grasslands
- 2340 * Pannonic inland dunes

3. FRESHWATER HABITATS

31. Standing water

- 3110 Oligotrophic waters containing very few minerals of sandy plains (*Littorelletalia uniflorae*)
- 3120 Oligotrophic waters containing very few minerals generally on sandy soils of the West Mediterranean, with *Isoetes* spp.
- 3130 Oligotrophic to mesotrophic standing waters with vegetation of the *Littorelletea uniflorae* and/or of the *Isoëto-Nanojuncetea*
- 3140 Hard oligo-mesotrophic waters with benthic vegetation of *Chara* spp.
- 3150 Naural eutrophic lakes with *Magnopotamion* or *Hydrocharition* – type vegetation
- 3160 Natural dystrophic lakes and ponds
- 3170 * Mediterranean temporary ponds
- 3180 * Turloughs
- 3190 Lakes of gypsum karst
- 31A0 * Transylvanian hot-spring lotus beds

32. Running water – sections of water courses with natural or semi-natural dynamics (minor, average and major beds) where the water quality shows no significant deterioration

- 3210 Fennoscandian natural rivers
- 3220 Alpine rivers and the herbaceous vegetation along their banks
- 3230 Alpine rivers and their ligneous vegetation with *Myricaria germanica*
- 3240 Alpine rivers and their ligneous vegetation with *Salix elaeagnos*
- 3250 Constantly flowing Mediterranean rivers with *Glaucium flavum*
- 3260 Water courses of plain to montane levels with the *Ranunculion fluitantis* and *Callitricho-Batrachion* vegetation

- 3270 Rivers with muddy banks with *Chenopodium rubri* p.p. and *Bidention* p.p. vegetation
- 3280 Constantly flowing Mediterranean rivers with *Paspalo-Agrostidion* species and hanging curtains of *Salix* and *Populus alba*
- 3290 Intermittently flowing Mediterranean rivers of the *Paspalo-Agrostidion*
- 32A0 Tufa cascades of karstic rivers in the Dinaric Alps

4. TEMPERATE HEATH AND SCRUB

- 4010 Northern Atlantic wet heaths with *Erica tetralix***
- 4020 * Temperate Atlantic wet heaths with *Erica ciliaris* and *Erica tetralix*
- 4030 European dry heaths
- 4040 * Dry Atlantic coastal heaths with *Erica vagans*
- 4050 * Endemic macaronesian heaths
- 4060 Alpine and Boreal heaths
- 4070 * Bushes with *Pinus mugo* and *Rhododendron hirsutum* (*Mugo-Rhododendretum hirsuti*)
- 4080 Sub-Arctic *Salix* spp. Scrub
- 4090 Endemic oro-Mediterranean heaths with gorse
- 40A0 * Subcontinental peri-Pannonic scrub
- 40B0 Rhodope *Potentilla fruticosa* thickets
- 40C0 * Ponto-Sarmatic deciduous thickets

5. SCLEROPHYLLOUS SCRUB (MATORRAL)

- 51. Sub-Mediterranean and temperate scrub**
- 5110 Stable xerothermophilous formations with *Buxus sempervirens* on rock slopes (*Berberidion* p.p.)
- 5120 Mountain *Cytisus purgans* formations
- 5130 *Juniperus communis* formations on heaths or calcareous grasslands

5140 * *Cistus palhinhae* formations on maritime wet heaths

52. Mediterranean arborescent matorral

5210 Arborescent matorral with *Juniperus* spp.

5220 * Arborescent matorral with *Zyziphus*

5230 * Arborescent matorral with *Laurus nobilis*

53. Thermo-Mediterranean and pre-steppe brush

5310 *Laurus nobilis* thickets

5320 Low formations of Euphorbia close to cliffs

5330 Thermo-Mediterranean and pre-desert scrub

54. Phrygana

5410 West Mediterranean clifftop phryganas (*Astragalo-Plantaginetum subulatae*)

5420 *Sarcopoterium spinosum* phryganas

5430 Endemic phryganas of the *Euphorbio-Verbascion*

6. NATURAL AND SEMI-NATURAL GRASSLAND FORMATIONS

61. Natural grasslands

6110 * Rupicolous calcareous or basophilic grasslands of the *Alysso-Sedion albi*

6120 * Xeric sand calcareous grasslands

6130 Calaminarian grasslands of the *Violetalia calaminariae*

6140 Siliceous Pyrenean *Festuca eskia* grasslands

6150 Siliceous alpine and boreal grasslands

6160 Oro-Iberian *Festuca indigesta* grasslands

6170 Alpine and subalpine calcareous grasslands

6180 Macaronesian mesophile grasslands

- 6190 Rupicolous pannonic grasslands (*Stipo-Festucetalia pallentis*)
- 62. Semi-natural dry grasslands and scrubland facies**
- 6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (* important orchid sites)
- 6220 * Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea*
- 6230 * Species-rich *Nardus* grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)
- 6240 * Sub-Pannonic steppic grasslands
- 6250 * Pannonic loess steppic grasslands
- 6260 * Pannonic sand steppes
- 6270 * Fennoscandian lowland species-rich dry to mesic grasslands
- 6280 * Nordic alvar and precambrian calcareous flatrocks
- 62A0 Eastern sub-Mediterranean dry grasslands (*Scorzoneratalia villosae*)
- 62B0 * Serpentinophilous grassland of Cyprus
- 62C0 * Ponto-Sarmatic steppes
- 62D0 Oro-Moesian acidophilous grasslands
- 63. Sclerophyllous grazed forests (dehesas)**
- 6310 Dehesas with evergreen *Quercus* spp.
- 64. Semi-natural tall-herb humid meadows**
- 6410 *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)
- 6420 Mediterranean tall humid grasslands of the *Molinio-Holoschoenion*
- 6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels
- 6440 Alluvial meadows of river valleys of the *Cnidion dubii*
- 6450 Northern boreal alluvial meadows

6460 Peat grasslands of Troodos

65. Mesophile grasslands

6510 Lowland hay meadows (*Alopecurus pratensis*, *Sanguisorba officinalis*)

6520 Mountain hay meadows

6530 * Fennoscandian wooded meadows

6540 Sub-Mediterranean grasslands of the *Molinio-Hordeion secalini*

7. RAISED BOGS AND MIRES AND FENS

71. Sphagnum acid bogs

7110 * Active raised bogs

7120 Degraded raised bogs still capable of natural regeneration

7130 Blanket bogs (* if active bog)

7140 Transition mires and quaking bogs

7150 Depressions on peat substrates of the *Rhynchosporion*

7160 Fennoscandian mineral-rich springs and springfens

72. Calcareous fens

7210 * Calcareous fens with *Cladium mariscus* and species of the *Caricion davallianae*

7220 * Petrifying springs with tufa formation (*Cratoneurion*)

7230 Alkaline fens

7240 * Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*

73. Boreal mires

7310 * Aapa mires

7320 * Palsa mires

8. ROCKY HABITATS AND CAVES

81. Scree

- 8110 Siliceous scree of the montane to snow levels (*Androsacetalia alpinae* and *Galeopsietalia ladani*)
- 8120 Calcareous and calcshist screes of the montane to alpine levels (*Thlaspietea rotundifolii*)
- 8130 Western Mediterranean and thermophilous scree
- 8140 Eastern Mediterranean screes
- 8150 Medio-European upland siliceous screes
- 8160 * Medio-European calcareous scree of hill and montane levels

82. Rocky slopes with chasmophytic vegetation

- 8210 Calcareous rocky slopes with chasmophytic vegetation
- 8220 Siliceous rocky slopes with chasmophytic vegetation
- 8230 Siliceous rock with pioneer vegetation of the *Sedo-Scleranthion* or of the *Sedo albi-Veronicion dillenii*
- 8240 * Limestone pavements

83. Other rocky habitats

- 8310 Caves not open to the public
- 8320 Fields of lava and natural excavations
- 8330 Submerged or partially submerged sea caves
- 8340 Permanent glaciers

9. FORESTS

(Sub)natural woodland vegetation comprising native species forming forests of tall trees, with typical undergrowth, and meeting the following criteria: rare or residual,

and/or hosting species of Community interest

90. Forests of Boreal Europe

- 9010 * Western Taïga
- 9020 * Fennoscandian hemiboreal natural old broad-leaved deciduous forests (*Quercus*, *Tilia*, *Acer*, *Fraxinus* or *Ulmus*) rich in epiphytes
- 9030 * Natural forests of primary succession stages of landupheaval coast
- 9040 Nordic subalpine/subarctic forests with *Betula pubescens* ssp. *czerepanovii*
- 9050 Fennoscandian herb-rich forests with *Picea abies*
- 9060 Coniferous forests on, or connected to, glaciofluvial eskers
- 9070 Fennoscandian wooded pastures
- 9080 * Fennoscandian deciduous swamp woods

91. Forests of Temperate Europe

- 9110 *Luzulo-Fagetum* beech forests
- 9120 Atlantic acidophilous beech forests with *Ilex* and sometimes also *Taxus* in the shrublayer (*Quercion robori-petraeae* or *Ilici-Fagenion*)
- 9130 *Asperulo-Fagetum* beech forests
- 9140 Medio-European subalpine beech woods with *Acer* and *Rumex arifolius*
- 9150 Medio-European limestone beech forests of the *Cephalanthero-Fagion*
- 9160 Sub-Atlantic and medio-European oak or oak-hornbeam forests of the *Carpinion betuli*
- 9170 *Galio-Carpinetum* oak-hornbeam forests
- 9180 * *Tilio-Acerion* forests of slopes, screes and ravines
- 9190 Old acidophilous oak woods with *Quercus robur* on sandy plains
- 91A0 Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles
- 91B0 Thermophilous *Fraxinus angustifolia* woods
- 91C0 * Caledonian forest

- 91D0 * Bog woodland
- 91E0 * Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*)
- 91F0 Riparian mixed forests of *Quercus robur*, *Ulmus laevis* and *Ulmus minor*, *Fraxinus excelsior* or *Fraxinus angustifolia*, along the great rivers (*Ulmenion minoris*)
- 91G0 * Pannonic woods with *Quercus petraea* and *Carpinus betulus*
- 91H0 * Pannonian woods with *Quercus pubescens*
- 91I0 * Euro-Siberian steppic woods with *Quercus* spp.
- 91J0 * *Taxus baccata* woods of the British Isles
- 91K0 Illyrian *Fagus sylvatica* forests (*Aremonio-Fagion*)
- 91L0 Illyrian oak-hornbeam forests (*Erythronio-Carpinion*)
- 91M0 Pannonian-Balkan turkey oak –sessile oak forests
- 91N0 * Pannonic inland sand dune thicket (*Junipero-Populetum albae*)
- 91P0 Holy Cross fir forest (*Abietetum polonicum*)
- 91Q0 Western Carpathian calcicolous *Pinus sylvestris* forests
- 91R0 Dinaric dolomite Scots pine forests (*Genisto januensis-Pinetum*)
- 91S0 * Western Pontic beech forests
- 91T0 Central European lichen Scots pine forests
- 91U0 Sarmatic steppe pine forest
- 91V0 Dacian Beech forests (*Symphyto-Fagion*)
- 91W0 Moesian beech forests
- 91X0 * Dobrogean beech forests
- 91Y0 Dacian oak & hornbeam forests
- 91Z0 Moesian silver lime woods
- 91AA * Eastern white oak woods
- 91BA Moesian silver fir forests
- 91CA Rhodopide and Balkan Range Scots pine forests

92. Mediterranean deciduous forests

- 9210 * Apeninne beech forests with *Taxus* and *Ilex*
- 9220 * Apennine beech forests with *Abies alba* and beech forests with *Abies nebrodensis*
- 9230 Galicio-Portuguese oak woods with *Quercus robur* and *Quercus pyrenaica*
- 9240 *Quercus faginea* and *Quercus canariensis* Iberian woods
- 9250 *Quercus trojana* woods
- 9260 *Castanea sativa* woods
- 9270 Hellenic beech forests with *Abies borisii-regis*
- 9280 *Quercus frainetto* woods
- 9290 *Cupressus* forests (*Acero-Cupression*)
- 92A0 *Salix alba* and *Populus alba* galleries
- 92B0 Riparian formations on intermittent Mediterranean water courses with *Rhododendron ponticum*, *Salix* and others
- 92C0 *Platanus orientalis* and *Liquidambar orientalis* woods (*Platanion orientalis*)
- 92D0 Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*)

93. Mediterranean sclerophyllous forests

- 9310 Aegean *Quercus brachyphylla* woods
- 9320 *Olea* and *Ceratonia* forests
- 9330 *Quercus suber* forests
- 9340 *Quercus ilex* and *Quercus rotundifolia* forests
- 9350 *Quercus macrolepis* forests
- 9360 * Macaronesian laurel forests (*Laurus*, *Ocotea*)
- 9370 * Palm groves of *Phoenix*
- 9380 Forests of *Ilex aquifolium*
- 9390 * Scrub and low forest vegetation with *Quercus alnifolia*
- 93A0 Woodlands with *Quercus infectoria* (*Anagyro foetidae-Quercetum infectoriae*)

- 94. Temperate mountainous coniferous forests**
- 9410 Acidophilous *Picea* forests of the montane to alpine levels (*Vaccinio-Piceetea*)
- 9420 Alpine *Larix decidua* and/or *Pinus cembra* forests
- 9430 Subalpine and montane *Pinus uncinata* forests (* if on gypsum or limestone)
- 95. Mediterranean and Macaronesian mountainous coniferous forests**
- 9510 * Southern Apennine *Abies alba* forests
- 9520 *Abies pinsapo* forests
- 9530 * (Sub-) Mediterranean pine forests with endemic black pines
- 9540 Mediterranean pine forests with endemic Mesogean pines
- 9550 Canarian endemic pine forests
- 9560 * Endemic forests with *Juniperus* spp.
- 9570 * *Tetraclinis articulata* forests
- 9580 * Mediterranean *Taxus baccata* woods
- 9590 * *Cedrus brevifolia* forests (*Cedrosetum brevifoliae*)
- 95A0 High oro-Mediterranean pine forests'

(b) Annex II is replaced by the following:

'ANNEX II

**ANIMAL AND PLANT SPECIES OF COMMUNITY INTEREST WHOSE
CONSERVATION REQUIRES THE DESIGNATION OF SPECIAL
AREAS OF CONSERVATION**

Interpretation

- (a) Annex II follows on from Annex I for the establishment of a consistent network of special areas of conservation.
- (b) The species listed in this Annex are indicated:
- by the name of the species or subspecies, or
 - by all the species belonging to a higher taxon or to a designated part of that taxon.

The abbreviation "spp." after the name of a family or genus designates all the species belonging to that family or genus.

- (c) Symbols

An asterisk (*) before the name of a species indicates that it is a priority species.

Most species listed in this Annex are also listed in Annex IV. Where a species appears in this Annex but does not appear in either Annex IV or Annex V, the species name is followed by the symbol (o); where a species which appears in this Annex also appears in Annex V but does not appear in Annex IV, its name is followed by the symbol (V).

(a) **ANIMALS**

VERTEBRATES

MAMMALS

INSECTIVORA

Talpidae

Galemys pyrenaicus

CHIROPTERA

Rhinolophidae

Rhinolophus blasii

Rhinolophus euryale

Rhinolophus ferrumequinum

Rhinolophus hipposideros

Rhinolophus mehelyi

Vespertilionidae

Barbastella barbastellus

Miniopterus schreibersii

Myotis bechsteinii

Myotis blythii

Myotis capaccinii

Myotis dasycneme

Myotis emarginatus

Myotis myotis

Pteropodidae

Rousettus aegyptiacus

RODENTIA

Gliridae

Myomimus roachi

Sciuridae

* *Marmota marmota latirostris*

* *Pteromys volans (Sciuropterus ruscicus)*

Spermophilus citellus (Citellus citellus)

* *Spermophilus suslicus (Citellus suslicus)*

Castoridae

Castor fiber (except the Estonian, Latvian, Lithuanian, Finnish and Swedish populations)

Cricetidae

Mesocricetus newtoni

Microtidae

Dinaromys bogdanovi

Microtus cabrerai

* *Microtus oeconomus arenicola*

* *Microtus oeconomus mehelyi*

Microtus tatricus

Zapodidae

Sicista subtilis

CARNIVORA

Canidae

* *Alopex lagopus*

* *Canis lupus* (except the Estonian population; Greek populations: only south of the 39th parallel; Spanish populations: only those south of the Duero; Latvian, Lithuanian and Finnish populations).

Ursidae

* *Ursus arctos* (except the Estonian, Finnish, and Swedish populations)

Mustelidae

* *Gulo gulo*

Lutra lutra

Mustela eversmanii

* *Mustela lutreola*

Vormela peregusna

Felidae

Lynx lynx (except the Estonian, Latvian and Finnish populations)

* *Lynx pardinus*

Phocidae

Halichoerus grypus (V)

* *Monachus monachus*

Phoca hispida bottnica (V)

* *Phoca hispida saimensis*

Phoca vitulina (V)

ARTIODACTYLA

Cervidae

* *Cervus elaphus corsicanus*

Rangifer tarandus fennicus (o)

Bovidae

* *Bison bonasus*

Capra aegagrus (natural populations)

* *Capra pyrenaica pyrenaica*

Ovis gmelini musimon (*Ovis ammon musimon*) (natural populations – Corsica and Sardinia)

Ovis orientalis ophion (*Ovis gmelini ophion*)

* *Rupicapra pyrenaica ornata* (*Rupicapra rupicapra ornata*)

Rupicapra rupicapra balcanica

* *Rupicapra rupicapra tatica*

CETACEA

Phocoena phocoena

Tursiops truncatus

REPTILES

CHELONIA (TESTUDINES)

Testudinidae

Testudo graeca

Testudo hermanni

Testudo marginata

Cheloniidae

* *Caretta caretta*

* *Chelonia mydas*

Emydidae

Emys orbicularis

Mauremys caspica

Mauremys leprosa

SAURIA

Lacertidae

Dinarolacerta mosorensis

Lacerta bonnali (*Lacerta monticola*)

Lacerta monticola

Lacerta schreiberi

Gallotia galloti insulanagae

* *Gallotia simonyi*

Podarcis lilfordi

Podarcis pityusensis

Scincidae

Chalcides simonyi (*Chalcides occidentalis*)

Gekkonidae

Phyllodactylus europaeus

OPHIDIA (SERPENTES)

Colubridae

* *Coluber cypriensis*

Elaphe quatuorlineata

Elaphe situla

* *Natrix natrix cypriaca*

Viperidae

* *Macrovipera schweizeri* (*Vipera lebetina schweizeri*)

Vipera ursinii (except *Vipera ursinii rakosiensis* and *Vipera ursinii macrops*)

* *Vipera ursinii macrops*

* *Vipera ursinii rakosiensis*

AMPHIBIANS

CAUDATA

Salamandridae

Chioglossa lusitanica

Mertensiella luschani (*Salamandra luschani*)

* *Salamandra aurorae* (*Salamandra atra aurorae*)

Salamandrina terdigitata

Triturus carnifex (*Triturus cristatus carnifex*)

Triturus cristatus (*Triturus cristatus cristatus*)

Triturus dobrogicus (*Triturus cristatus dobrogicus*)

Triturus karelinii (*Triturus cristatus karelinii*)

Triturus montandoni

Triturus vulgaris ampelensis

Proteidae

* *Proteus anguinus*

Plethodontidae

Hydromantes (*Speleomantes*) *ambrosii*

Hydromantes (*Speleomantes*) *flavus*

Hydromantes (*Speleomantes*) *genei*

Hydromantes (*Speleomantes*) *imperialis*

Hydromantes (*Speleomantes*) *strinatii*

Hydromantes (*Speleomantes*) *supramontis*

ANURA

Discoglossidae

* *Alytes muletensis*

Bombina bombina

Bombina variegata

Discoglossus galganoi (including *Discoglossus "jeanneae"*)

Discoglossus montalentii

Discoglossus sardus

Ranidae

Rana latastei

Pelobatidae

* *Pelobates fuscus insubricus*

FISH

PETROMYZONIFORMES

Petromyzonidae

Eudontomyzon spp. (o)

Lampetra fluviatilis (V) (except the Finnish and Swedish populations)

Lampetra planeri (o) (except the Estonian, Finnish, and Swedish populations)

Lethenteron zanandreae (V)

Petromyzon marinus (o) (except the Swedish populations)

ACIPENSERIFORMES

Acipenseridae

* *Acipenser naccarii*

* *Acipenser sturio*

CLUPEIFORMES

Clupeidae

Alosa spp. (V)

SALMONIFORMES

Salmonidae

Hucho hucho (natural populations) (V)

Salmo macrostigma (o)

Salmo marmoratus (o)

Salmo salar (only in fresh water) (V) (except the Finnish populations)

Salmothymus obtusirostris (o)

Coregonidae

* *Coregonus oxyrhynchus* (anadromous populations in certain sectors of the North Sea)

Umbridae

Umbra krameri (o)

CYPRINIFORMES

Cyprinidae

- Alburnus albidus* (o) (*Alburnus vulturius*)
- Aulopyge huegelii* (o)
- Anaocypris hispanica*
- Aspius aspius* (V) (except the Finnish populations)
- Barbus comiza* (V)
- Barbus meridionalis* (V)
- Barbus plebejus* (V)
- Chalcalburnus chalcoides* (o)
- Chondrostoma genei* (o)
- Chondrostoma knerii* (o)
- Chondrostoma lusitanicum* (o)
- Chondrostoma phoxinus* (o)
- Chondrostoma polylepis* (o) (including *C. willkommi*)
- Chondrostoma soetta* (o)
- Chondrostoma toxostoma* (o)
- Gobio albipinnatus* (o)
- Gobio kessleri* (o)
- Gobio uranoscopus* (o)
- Iberocypris palaciosi* (o)
- * *Ladigesocypris ghigii* (o)
- Leuciscus lucumonis* (o)
- Leuciscus souffia* (o)
- Pelecus cultratus* (V)
- Phoxinellus spp.* (o)
- * *Phoxinus percnurus*
- Rhodeus sericeus amarus* (o)
- Rutilus pigus* (V)

Rutilus rubilio (o)

Rutilus arcasii (o)

Rutilus macrolepidotus (o)

Rutilus lemmingii (o)

Rutilus frisii meidingeri (V)

Rutilus alburnoides (o)

Scardinius graecus (o)

Squalius microlepis (o)

Squalius svallize (o)

Cobitidae

Cobitis elongata (o)

Cobitis taenia (o) (except the Finnish populations)

Cobitis trichonica (o)

Misgurnus fossilis (o)

Sabanejewia aurata (o)

Sabanejewia larvata (o) (*Cobitis larvata* and *Cobitis conspersa*)

SILURIFORMES

Siluridae

Silurus aristotelis (V)

ATHERINIFORMES

Cyprinodontidae

Aphanius iberus (o)

Aphanius fasciatus (o)

* *Valencia hispanica*

* *Valencia letourneuxi* (*Valencia hispanica*)

PERCIFORMES

Percidae

Gymnocephalus baloni

Gymnocephalus schraetzer (V)

* *Romanichthys valsanicola*

Zingel spp. ((o) except *Zingel asper* and *Zingel zingel* (V))

Gobiidae

Knipowitschia croatica (o)

Knipowitschia (Padogobius) panizzae (o)

Padogobius nigricans (o)

Pomatoschistus canestrini (o)

SCORPAENIFORMES

Cottidae

Cottus gobio (o) (except the Finnish populations)

Cottus petiti (o)

INVERTEBRATES

ARTHROPODS

CRUSTACEA

Decapoda

Austropotamobius pallipes (V)

* *Austropotamobius torrentium* (V)

Isopoda

* *Armadillidium ghardalamensis*

INSECTA

Coleoptera

Agathidium pulchellum (o)

Bolbelasmus unicornis

Boros schneideri (o)

Buprestis splendens

Carabus hampei

Carabus hungaricus

* *Carabus menetriesi pacholei*
* *Carabus olympiae*
Carabus variolosus
Carabus zawadzskii
Cerambyx cerdo
Corticaria planula (o)
Cucujus cinnaberinus
Dorcadion fulvum cervae
Duvalius gebhardti
Duvalius hungaricus
Dytiscus latissimus
Graphoderus bilineatus
Leptodirus hochenwarti
Limoniscus violaceus (o)
Lucanus cervus (o)
Macroplea pubipennis (o)
Mesosa myops (o)
Morimus funereus (o)
* *Osmoderma eremita*
Oxyporus mannerheimii (o)
Pilemia tigrina
* *Phryganophilus ruficollis*
Probaticus subrugosus
Propomacrus cypriacus
* *Pseudogaurotina excellens*
Pseudoseriscius cameroni
Pytho kolwensis
Rhysodes sulcatus (o)

* *Rosalia alpina*

Stephanopachys linearis (o)

Stephanopachys substriatus (o)

Xyletinus tremulicola (o)

Hemiptera

Aradus angularis (o)

Lepidoptera

Agriades glandon aquilo (o)

Arytrura musculus

* *Callimorpha (Euplagia, Panaxia) quadripunctaria* (o)

Catopta thrips

Chondrosoma fiduciarium

Clossiana improba (o)

Coenonympha oedippus

Colias myrmidone

Cucullia mixta

Dioszeghyana schmidtii

Erannis ankeraria

Erebia calcaria

Erebia christi

Erebia medusa polaris (o)

Eriogaster catax

Euphydryas (Eurodryas, Hypodryas) aurinia (o)

Glyphipterix loricatella

Gortyna borelii lunata

Graellsia isabellae (V)

Hesperia comma catena (o)

Hypodryas maturna

Leptidea morsei
Lignyoptera fumidaria
Lycaena dispar
Lycaena helle
Maculinea nausithous
Maculinea teleius
Melanargia arge
* *Nymphalis vaualbum*
Papilio hospiton
Phyllometra culminaria
Plebicula golgus
Polymixis rufocincta isolata
Polyommatus eroides
Proterebia afra dalmata
Pseudophilotes bavius
Xestia borealis (o)
Xestia brunneopicta (o)
* *Xylomoia strix*

Mantodea

Apteromantis aptera

Odonata

Coenagrion hylas (o)
Coenagrion mercuriale (o)
Coenagrion ornatum (o)
Cordulegaster heros
Cordulegaster trinacriae
Gomphus graslinii
Leucorrhinia pectoralis

Lindenia tetraphylla

Macromia splendens

Ophiogomphus cecilia

Oxygastra curtisii

Orthoptera

Baetica ustulata

Brachytrupes megacephalus

Isophya costata

Isophya harzi

Isophya stysi

Myrmecophilus baronii

Odontopodisma rubripes

Paracaloptenus caloptenoides

Pholidoptera transsylvanica

Stenobothrus (Stenobothrodes) eurasius

ARACHNIDA

Pseudoscorpiones

Anthrenochernes stellae (o)

MOLLUSCS

GASTROPODA

Anisus vorticulus

Caseolus calculus

Caseolus commixta

Caseolus sphaerula

Chilostoma banaticum

Discula leacockiana

Discula tabellata

Discus guerinianus

Elona quimperiana
Geomalacus maculosus
Geomitra moniziana
Gibbula nivosa
* *Helicopsis striata austriaca* (o)
Hygromia kovacsi
Idiomela (Helix) subplicata
Lampedusa imitatrix
* *Lampedusa melitensis*
Leiostyla abbreviata
Leiostyla cassida
Leiostyla corneocostata
Leiostyla gibba
Leiostyla lamellosa
* *Paladilhia hungarica*
Sadleriana pannonica
Theodoxus transversalis
Vertigo angustior (o)
Vertigo genesii (o)
Vertigo geyeri (o)
Vertigo moulinsiana (o)

BIVALVIA

Unionoida

Margaritifera durrovensis (Margaritifera margaritifera) (V)
Margaritifera margaritifera (V)
Unio crassus

Dreissenidae

Congeria kusceri

(b) **PLANTS**

PTERIDOPHYTA

ASPLENIACEAE

Asplenium jahandiezii (Litard.) Rouy

Asplenium adulterinum Milde

BLECHNACEAE

Woodwardia radicans (L.) Sm.

DICKSONIACEAE

Culcita macrocarpa C. Presl

DRYOPTERIDACEAE

Diplazium sibiricum (Turcz. ex Kunze) Kurata

* *Dryopteris corleyi* Fraser-Jenk.

Dryopteris fragans (L.) Schott

HYMENOPHYLLACEAE

Trichomanes speciosum Willd.

ISOETACEAE

Isoetes boryana Durieu

Isoetes malinverniana Ces. & De Not.

MARSILEACEAE

Marsilea batardae Launert

Marsilea quadrifolia L.

Marsilea strigosa Willd.

OPHIOGLOSSACEAE

Botrychium simplex Hitchc.

Ophioglossum polyphyllum A. Braun

GYMNOSPERMAE

PINACEAE

* *Abies nebrodensis* (Lojac.) Mattei

ANGIOSPERMAE

ALISMATACEAE

* *Alisma wahlenbergii* (Holmberg) Juz.

Caldesia parnassifolia (L.) Parl.

Luronium natans (L.) Raf.

AMARYLLIDACEAE

Leucojum nicaeense Ard.

Narcissus asturiensis (Jordan) Pugsley

Narcissus calcicola Mendonça

Narcissus cyclamineus DC.

Narcissus fernandesii G. Pedro

Narcissus humilis (Cav.) Traub

* *Narcissus nevadensis* Pugsley

Narcissus pseudonarcissus L. subsp. *nobilis* (Haw.) A. Fernandes

Narcissus scaberulus Henriq.

Narcissus triandrus L. subsp. *capax* (Salisb.) D. A. Webb.

Narcissus viridiflorus Schousboe

ASCLEPIADACEAE

Vincetoxicum pannonicum (Borhidi) Holub

BORAGINACEAE

* *Anchusa crispa* Viv.

Echium russicum J.F.Gemlin

* *Lithodora nitida* (H. Ern) R. Fernandes

Myosotis lusitanica Schuster

Myosotis rehsteineri Wartm.

Myosotis retusifolia R. Afonso

Omphalodes kuzinskyanae Willk.

* *Omphalodes littoralis* Lehm.

* *Onosma tornensis* Javorka

Solenanthus albanicus (Degen & al.) Degen & Baldacci

* *Symphytum cycladense* Pawl.

CAMPANULACEAE

Adenophora lilifolia (L.) Ledeb.

Asyneuma giganteum (Boiss.) Bornm.

* *Campanula bohemica* Hruby

* *Campanula gelida* Kovanda

Campanula romanica Săvul.

* *Campanula sabatia* De Not.

* *Campanula serrata* (Kit.) Hendrych

Campanula zoysii Wulfen

Jasione crispa (Pourret) Samp. subsp. *serpentinica* Pinto da Silva

Jasione lusitanica A. DC.

CARYOPHYLLACEAE

Arenaria ciliata L. subsp. *pseudofrigida* Ostenf. & O.C. Dahl

Arenaria humifusa Wahlenberg

* *Arenaria nevadensis* Boiss. & Reuter

Arenaria provincialis Chater & Halliday

* *Cerastium alsinifolium* Tausch *Cerastium dinaricum* G.Beck & Szysz.

Dianthus arenarius L. subsp. *arenarius*

* *Dianthus arenarius* subsp. *bohemicus* (Novak) O.Schwarz

Dianthus cintranus Boiss. & Reuter subsp. *cintranus* Boiss. & Reuter

* *Dianthus diutinus* Kit.

* *Dianthus lumnitzeri* Wiesb.

Dianthus marizii (Samp.) Samp.

* *Dianthus moravicus* Kovanda

* *Dianthus nitidus* Waldst. et Kit.

Dianthus plumarius subsp. *regis-stephani* (Rapcs.) Baksay

Dianthus rupicola Biv.

* *Gypsophila papillosa* P. Porta

Herniaria algarvica Chaudhri

* *Herniaria latifolia* Lapeyr. subsp. *litardierei* Gamis

Herniaria lusitanica (Chaudhri) subsp. *berlengiana* Chaudhri

Herniaria maritima Link

* *Minuartia smejkalii* Dvorakova

Moehringia jankae Griseb. ex Janka

Moehringia lateriflora (L.) Fenzl.

Moehringia tommasinii Marches.

Moehringia villosa (Wulfen) Fenzl

Petrocoptis grandiflora Rothm.

Petrocoptis montsicciana O. Bolos & Rivas Mart.

Petrocoptis pseudoviscosa Fernandez Casas

Silene furcata Rafin. subsp. *angustiflora* (Rupr.) Walters

* *Silene hicesiae* Brullo & Signorello

Silene hifacensis Rouy ex Willk.

* *Silene holzmanii* Heldr. ex Boiss.

Silene longicilia (Brot.) Otth.

Silene mariana Pau

* *Silene orphanidis* Boiss

* *Silene rothmaleri* Pinto da Silva

* *Silene velutina* Pourret ex Loisel.

CHENOPODIACEAE

* *Bassia (Kochia) saxicola* (Guss.) A. J. Scott

* *Cremnophyton lanfrancoi* Brullo et Pavone

* *Salicornia veneta* Pignatti & Lausi

CISTACEAE

Cistus palhinhae Ingram

Halimium verticillatum (Brot.) Sennen

Helianthemum alypoides Losa & Rivas Goday

Helianthemum caput-felis Boiss.

* *Tuberaria major* (Willk.) Pinto da Silva & Rozeira

COMPOSITAE

* *Anthemis glaberrima* (Rech. f.) Greuter

Artemisia campestris L. subsp. *bottnica* A.N. Lundström ex Kindb.

* *Artemisia granatensis* Boiss.

* *Artemisia laciniata* Willd.

Artemisia oelandica (Besser) Komaror

* *Artemisia pancicii* (Janka) Ronn.

* *Aster pyrenaicus* Desf. ex DC

* *Aster sorrentinii* (Tod) Lojac.

Carlina onopordifolia Besser

* *Carduus myriacanthus* Salzm. ex DC.

* *Centaurea alba* L. subsp. *heldreichii* (Halacsy) Dostal

* *Centaurea alba* L. subsp. *princeps* (Boiss. & Heldr.) Gugler

* *Centaurea akamantis* T.Georgiadis & G.Chatzyriakou

* *Centaurea attica* Nyman subsp. *megarensis* (Halacsy & Hayek) Dostal

* *Centaurea balearica* J. D. Rodriguez

* *Centaurea borjae* Valdes-Berm. & Rivas Goday

* *Centaurea citricolor* Font Quer

Centaurea corymbosa Pourret

Centaurea gadorensis G. Blanca

* *Centaurea horrida* Badaro

Centaurea immanuelis-loewii Degen

Centaurea jankae Brandza
 * *Centaurea kalambakensis* Freyn & Sint.
Centaurea kartschiana Scop.
 * *Centaurea lactiflora* Halacsy
Centaurea micrantha Hoffmanns. & Link subsp. *herminii* (Rouy) Dostál
 * *Centaurea niederi* Heldr.
 * *Centaurea peucedanifolia* Boiss. & Orph.
 * *Centaurea pinnata* Pau
Centaurea pontica Prodan & E. I. Nyárády
Centaurea pulvinata (G. Blanca) G. Blanca
Centaurea rothmalerana (Arènes) Dostál
Centaurea vicentina Mariz
Cirsium brachycephalum Juratzka
 * *Crepis crocifolia* Boiss. & Heldr.
Crepis granatensis (Willk.) B. Blanca & M. Cueto
Crepis pusilla (Sommier) Merxmüller
Crepis tectorum L. subsp. *nigrescens*
Erigeron frigidus Boiss. ex DC.
 * *Helichrysum melitense* (Pignatti) Brullo et al
Hymenostemma pseudanthemis (Kunze) Willd.
Hyoseris frutescens Brullo et Pavone
 * *Jurinea cyanoides* (L.) Reichenb.
 * *Jurinea fontqueri* Cuatrec.
 * *Lamyropsis microcephala* (Moris) Dittrich & Greuter
Leontodon microcephalus (Boiss. ex DC.) Boiss.
Leontodon boryi Boiss.
 * *Leontodon siculus* (Guss.) Finch & Sell
Leuzea longifolia Hoffmanns. & Link

Ligularia sibirica (L.) Cass.

* *Palaeocyanus crassifolius* (Bertoloni) Dostal

Santolina impressa Hoffmanns. & Link

Santolina semidentata Hoffmanns. & Link

Saussurea alpina subsp. *esthonica* (Baer ex Rupr) Kupffer

* *Senecio elodes* Boiss. ex DC.

Senecio jacobea L. subsp. *gotlandicus* (Neuman) Sterner

Senecio nevadensis Boiss. & Reuter

* *Serratula lycopifolia* (Vill.) A.Kern

Tephrosieris longifolia (Jacq.) Griseb et Schenk subsp. *moravica*

CONVOLVULACEAE

* *Convolvulus argyrothamnus* Greuter

* *Convolvulus fernandesii* Pinto da Silva & Teles

CRUCIFERAE

Alyssum pyrenaicum Lapeyr.

* *Arabis kennedyae* Meikle

Arabis sadina (Samp.) P. Cout.

Arabis scopoliana Boiss

* *Biscutella neustriaca* Bonnet

Biscutella vincentina (Samp.) Rothm.

Boleum asperum (Pers.) Desvaux

Brassica glabrescens Poldini

Brassica hilarionis Post

Brassica insularis Moris

* *Brassica macrocarpa* Guss.

Braya linearis Rouy

* *Cochlearia polonica* E. Fröhlich

* *Cochlearia tatrae* Borbas

* *Coincya rupestris* Rouy

* *Coronopus navasii* Pau

Crambe tataria Sebeok

* *Degenia velebitica* (Degen) Hayek

Diplotaxis ibicensis (Pau) Gomez-Campo

* *Diplotaxis siettiana* Maire

Diplotaxis vicentina (P. Cout.) Rothm.

Draba cacuminum Elis Ekman

Draba cinerea Adams

Draba dorneri Heuffel.

Erucastrum palustre (Pirona) Vis.

* *Erysimum pieninicum* (Zapal.) Pawl.

* *Iberis arbuscula* Runemark

Iberis procumbens Lange subsp. *microcarpa* Franco & Pinto da Silva

* *Jonopsidium acaule* (Desf.) Reichenb.

Jonopsidium savianum (Caruel) Ball ex Arcang.

Rhynchosinapis erucastrum (L.) Dandy ex Clapham subsp. *cintrana* (Coutinho) Franco & P. Silva (*Coincya cintrana* (P. Cout.) Pinto da Silva)

Sisymbrium cavanillesianum Valdes & Castroviejo

Sisymbrium supinum L.

Thlaspi jankae A.Kern.

CYPERACEAE

Carex holostoma Drejer

* *Carex panormitana* Guss.

Eleocharis carniolica Koch

DIOSCOREACEAE

* *Borderea chouardii* (Gaussen) Heslot

DROSERACEAE

Aldrovanda vesiculosa L.

ELATINACEAE

Elatine gussonei (Sommier) Brullo et al

ERICACEAE

Rhododendron luteum Sweet

EUPHORBIACEAE

* *Euphorbia margalidiana* Kuhbier & Lewejohann

Euphorbia transtagana Boiss.

GENTIANACEAE

* *Centaurium rigualii* Esteve

* *Centaurium somedanum* Lainz

Gentiana ligustica R. de Vilm. & Chopinet

Gentianella anglica (Pugsley) E. F. Warburg

* *Gentianella bohémica* Skalicky

GERANIACEAE

* *Erodium astragaloides* Boiss. & Reuter

Erodium paularense Fernandez-Gonzalez & Izco

* *Erodium rupicola* Boiss.

GLOBULARIACEAE

* *Globularia stygia* Orph. ex Boiss.

GRAMINEAE

Arctagrostis latifolia (R. Br.) Griseb.

Arctophila fulva (Trin.) N. J. Anderson

Avenula hackelii (Henriq.) Holub

Bromus grossus Desf. ex DC.

Calamagrostis chalybaea (Laest.) Fries

Cinna latifolia (Trev.) Griseb.

Coleanthus subtilis (Tratt.) Seidl

Festuca brigantina (Markgr.-Dannenb.) Markgr.-Dannenb.

Festuca duriotagana Franco & R. Afonso

Festuca elegans Boiss.

Festuca henriquesii Hack.

Festuca summilusitana Franco & R. Afonso

Gaudinia hispanica Stace & Tutin

Holcus setiglumis Boiss. & Reuter subsp. *duriensis* Pinto da Silva

Micropyropsis tuberosa Romero - Zarco & Cabezudo

Poa granitica Br.-Bl. subsp. *disparilis* (E. I. Nyárády) E. I. Nyárády

* *Poa riphaea* (Ascher et Graebner) Fritsch

Pseudarrhenatherum pallens (Link) J. Holub

Puccinellia phryganodes (Trin.) Scribner + Merr.

Puccinellia pungens (Pau) Paunero

* *Stipa austroitalica* Martinovsky

* *Stipa bavarica* Martinovsky & H. Scholz

Stipa danubialis Dihoru & Roman

* *Stipa styriaca* Martinovsky

* *Stipa veneta* Moraldo

* *Stipa zalesskii* Wilensky

Trisetum subalpestre (Hartman) Neuman

GROSSULARIACEAE

* *Ribes sardoum* Martelli

HIPPURIDACEAE

Hippuris tetraphylla L. Fil.

HYPERICACEAE

* *Hypericum aciferum* (Greuter) N.K.B. Robson

IRIDACEAE

Crocus cyprius Boiss. et Kotschy

Crocus hartmannianus Holmboe

Gladiolus palustris Gaud.

Iris aphylla L. subsp. *hungarica* Hegi

Iris humilis Georgi subsp. *arenaria* (Waldst. et Kit.) A. et D. Löve

JUNCACEAE

Juncus valvatus Link

Luzula arctica Blytt

LABIATAE

Dracocephalum austriacum L.

* *Micromeria taygetea* P. H. Davis

Nepeta dirphyia (Boiss.) Heldr. ex Halacsy

* *Nepeta sphaciotica* P. H. Davis

Origanum dictamnus L.

Phlomis brevibracteata Turrit

Phlomis cypria Post

Salvia veneris Hedge

Sideritis cypria Post

Sideritis incana subsp. *glauca* (Cav.) Malagarriga

Sideritis javalambrensis Pau

Sideritis serrata Cav. ex Lag.

Teucrium lepicephalum Pau

Teucrium turredanum Losa & Rivas Goday

* *Thymus camphoratus* Hoffmanns. & Link

Thymus carnosus Boiss.

* *Thymus lotocephalus* G. López & R. Morales (*Thymus cephalotos* L.)

LEGUMINOSAE

Anthyllis hystrix Cardona, Contandr. & E. Sierra

* *Astragalus algarbiensis* Coss. ex Bunge

- * *Astragalus aquilanus* Anzalone
- Astragalus centralpinus* Braun-Blanquet
- * *Astragalus macrocarpus* DC. subsp. *lefkarensis*
- * *Astragalus maritimus* Moris
- Astragalus peterfii* Jáv.
- Astragalus tremolsianus* Pau
- * *Astragalus verrucosus* Moris
- * *Cytisus aeolicus* Guss. ex Lindl.
- Genista dorycnifolia* Font Quer
- Genista holopetala* (Fleischm. ex Koch) Baldacci
- Melilotus segetalis* (Brot.) Ser. subsp. *fallax* Franco
- * *Ononis hackelii* Lange
- Trifolium saxatile* All.
- * *Vicia bifoliolata* J.D. Rodriguez

LENTIBULARIACEAE

- * *Pinguicula crystallina* Sm.
- Pinguicula nevadensis* (Lindb.) Casper

LILIACEAE

- Allium grosii* Font Quer
- * *Androcymbium rechingeri* Greuter
- * *Asphodelus bento-rainhae* P. Silva
- * *Chionodoxa lochia* Meikle in Kew Bull.
- Colchicum arenarium* Waldst. et Kit.
- Hyacinthoides vicentina* (Hoffmans. & Link) Rothm.
- * *Muscari gussonei* (Parl.) Tod.
- Scilla litardierei* Breist.
- * *Scilla morrisii* Meikle
- Tulipa cypria* Stapf

Tulipa hungarica Borbas

LINACEAE

* *Linum dolomiticum* Borbas

* *Linum muelleri* Moris (*Linum maritimum muelleri*)

LYTHRACEAE

* *Lythrum flexuosum* Lag.

MALVACEAE

Kosteletzkya pentacarpos (L.) Ledeb.

NAJADACEAE

Najas flexilis (Willd.) Rostk. & W.L. Schmidt

Najas tenuissima (A. Braun) Magnus

OLEACEAE

Syringa josikaea Jacq. Fil. ex Reichenb.

ORCHIDACEAE

Anacamptis urvilleana Sommier et Caruana Gatto

Calypso bulbosa L.

* *Cephalanthera cucullata* Boiss. & Heldr.

Cypripedium calceolus L.

Dactylorhiza kalopissii E.Nelson

Gymnigritella runei Teppner & Klein

Himantoglossum adriaticum Baumann

Himantoglossum caprinum (Bieb.) V.Koch

Liparis loeselii (L.) Rich.

* *Ophrys kotschyi* H.Fleischm. et Soo

* *Ophrys lunulata* Parl.

Ophrys melitensis (Salkowski) J et P Devillers-Terschuren

Platanthera obtusata (Pursh) subsp. *oligantha* (Turez.) Hulten

OROBANCHACEAE

Orobanche densiflora Salzm. ex Reut.

PAEONIACEAE

Paeonia cambessedesii (Willk.) Willk.

Paeonia clusii F.C. Stern subsp. *rhodia* (Stearn) Tzanoudakis

Paeonia officinalis L. subsp. *banatica* (Rachel) Soo

Paeonia parnassica Tzanoudakis

PALMAE

Phoenix theophrasti Greuter

PAPAVERACEAE

Corydalis gotlandica Lidén

Papaver laestadianum (Nordh.) Nordh.

Papaver radicum Rottb. subsp. *hyperboreum* Nordh.

PLANTAGINACEAE

Plantago algarbiensis Sampaio (*Plantago bracteosa* (Willk.) G. Sampaio)

Plantago almogravensis Franco

PLUMBAGINACEAE

Armeria berlengensis Daveau

* *Armeria helodes* Martini & Pold

Armeria neglecta Girard

Armeria pseudarmeria (Murray) Mansfeld

* *Armeria rouyana* Daveau

Armeria soleirolii (Duby) Godron

Armeria velutina Welw. ex Boiss. & Reuter

Limonium dodartii (Girard) O. Kuntze subsp. *lusitanicum* (Daveau) Franco

* *Limonium insulare* (Beg. & Landi) Arrig. & Diana

Limonium lanceolatum (Hoffmans. & Link) Franco

Limonium multiflorum Erben

* *Limonium pseudolaetum* Arrig. & Diana

* *Limonium strictissimum* (Salzmann) Arrig.

POLYGONACEAE

Persicaria foliosa (H. Lindb.) Kitag.

Polygonum praelongum Coode & Cullen

Rumex rupestris Le Gall

PRIMULACEAE

Androsace mathildae Levier

Androsace pyrenaica Lam.

* *Cyclamen fatrense* Halda et Sojak

* *Primula apennina* Widmer

Primula carniolica Jacq.

Primula nutans Georgi

Primula palinuri Petagna

Primula scandinavica Bruun

Soldanella villosa Darracq.

RANUNCULACEAE

* *Aconitum corsicum* Gayer (*Aconitum napellus* subsp. *corsicum*)

Aconitum firmum (Reichenb.) Neill subsp. *moravicum* Skalicky

Adonis distorta Ten.

Aquilegia bertolonii Schott

Aquilegia kitaibelii Schott

* *Aquilegia pyrenaica* D.C. subsp. *cazorlensis* (Heywood) Galiano

* *Consolida samia* P.H. Davis

* *Delphinium caseyi* B.L. Burtt

Pulsatilla grandis Wenderoth *Pulsatilla patens* (L.) Miller

* *Pulsatilla pratensis* (L.) Miller subsp. *hungarica* Soo

* *Pulsatilla slavica* G. Reuss.

* *Pulsatilla subslavica* Futak ex Goliasova

Pulsatilla vulgaris Hill. subsp. *gotlandica* (Johanss.) Zaemelis & Paegle

Ranunculus kykkoensis Meikle

Ranunculus lapponicus L.

* *Ranunculus weyleri* Mares

RESEDACEAE

* *Reseda decursiva* Forssk.

ROSACEAE

Agrimonia pilosa Ledebour

Potentilla delphinensis Gren. & Godron

Potentilla emilii-popii Nyárády

* *Pyrus magyarica* Terpo

Sorbus teodorii Liljefors

RUBIACEAE

Galium cracoviense Ehrend.

* *Galium litorale* Guss.

Galium moldavicum (Dobrescu) Franco

* *Galium sudeticum* Tausch

* *Galium viridiflorum* Boiss. & Reuter

SALICACEAE

Salix salvifolia Brot. subsp. *australis* Franco

SANTALACEAE

Thesium ebracteatum Hayne

SAXIFRAGACEAE

Saxifraga berica (Beguinot) D.A. Webb

Saxifraga florulenta Moretti

Saxifraga hirculus L.

Saxifraga osloënsis Knaben

Saxifraga tombeanensis Boiss. ex Engl.

SCROPHULARIACEAE

Antirrhinum charidemi Lange

Chaenorrhinum serpyllifolium (Lange) Lange subsp. *lusitanicum* R. Fernandes

* *Euphrasia genargentea* (Feoli) Diana

Euphrasia marchesettii Wettst. ex Marches.

Linaria algarviana Chav.

Linaria coutinhoi Valdés

Linaria loeseliai Schweigger

* *Linaria ficalhoana* Rouy

Linaria flava (Poiret) Desf.

* *Linaria hellenica* Turrill

Linaria pseudolaxiflora Lojacono

* *Linaria ricardoii* Cout.

Linaria tonzigii Lona

* *Linaria tursica* B. Valdes & Cabezudo

Odontites granatensis Boiss.

* *Pedicularis sudetica* Willd.

Rhinanthus oesilensis (Ronniger & Saarsoo) Vassilcz

Tozzia carpathica Wol.

Verbascum litigiosum Samp.

Veronica micrantha Hoffmanns. & Link

* *Veronica oetaea* L.-A. Gustavsson

SOLANACEAE

* *Atropa baetica* Willk.

THYMELAEACEAE

* *Daphne arbuscula* Celak

Daphne petraea Leybold

* *Daphne rodriguezii* Texidor

ULMACEAE

Zelkova abelicea (Lam.) Boiss.

UMBELLIFERAE

* *Angelica heterocarpa* Lloyd

Angelica palustris (Besser) Hoffm.

* *Apium bermejoi* Llorens

Apium repens (Jacq.) Lag.

Athamanta cortiana Ferrarini

* *Bupleurum capillare* Boiss. & Heldr.

* *Bupleurum kakiskalae* Greuter

Eryngium alpinum L.

* *Eryngium viviparum* Gay

* *Ferula sadleriana* Lebed.

Hladnikia pastinacifolia Reichenb.

* *Laserpitium longiradium* Boiss.

* *Naufraga balearica* Constans & Cannon

* *Oenanthe conioides* Lange

Petagnia saniculifolia Guss.

Rouya polygama (Desf.) Coincy

* *Seseli intricatum* Boiss.

Seseli leucospermum Waldst. et Kit

Thorella verticillatinundata (Thore) Briq.

VALERIANACEAE

Centranthus trinervis (Viv.) Beguinot

VIOLACEAE

Viola delphinantha Boiss.

* *Viola hispida* Lam.

Viola jaubertiana Mares & Vigineix

Viola rupestris F.W. Schmidt subsp. *relicta* Jalas

LOWER PLANTS

BRYOPHYTA

Bruchia vogesiaca Schwaegr. (o)

Bryhnia novae-angliae (Sull & Lesq.) Grout (o)

* *Bryoerythrophyllum campylocarpum* (C. Müll.) Crum. (*Bryoerythrophyllum machadoanum* (Sergio) M. O. Hill) (o)

Buxbaumia viridis (Moug.) Moug. & Nestl. (o)

Cephalozia macounii (Aust.) Aust. (o)

Cynodontium suecicum (H. Arn. & C. Jens.) I. Hag. (o)

Dichelyma capillaceum (Dicks) Myr. (o)

Dicranum viride (Sull. & Lesq.) Lindb. (o)

Distichophyllum carinatum Dix. & Nich. (o)

Drepanocladus (Hamatocaulis) vernicosus (Mitt.) Warnst. (o)

Encalypta mutica (I. Hagen) (o)

Hamatocaulis lapponicus (Norrl.) Hedenäs (o)

Herzogiella turfacea (Lindb.) I. Wats. (o)

Hygrohypnum montanum (Lindb.) Broth. (o)

Jungermannia handelii (Schiffn.) Amak. (o)

Mannia triandra (Scop.) Grolle (o)

* *Marsupella profunda* Lindb. (o)

Meesia longiseta Hedw. (o)

Nothothylas orbicularis (Schwein.) Sull. (o)

Ochyraea tatrensis Vana (o)

Orthothecium lapponicum (Schimp.) C. Hartm. (o)

Orthotrichum rogeri Brid. (o)

Petalophyllum ralfsii (Wils.) Nees & Gott. (o)

Plagiomnium drummondii (Bruch & Schimp.) T. Kop. (o)

Riccia breidleri Jur. (o)

Riella helicophylla (Bory & Mont.) Mont. (o)

Scapania massolongi (K. Müll.) K. Müll. (o)

Sphagnum pylaisii Brid. (o)

Tayloria rudolphiana (Garov) B. & S. (o)

Tortella rigens (N. Alberts) (o)

SPECIES FOR MACARONESIA

PTERIDOPHYTA

HYMENOPHYLLACEAE

Hymenophyllum maderensis Gibby & Lovis

DRYOPTERIDACEAE

* *Polystichum drepanum* (Sw.) C. Presl.

ISOETACEAE

Isoetes azorica Durieu & Paiva ex Milde

MARSILEACEAE

* *Marsilea azorica* Launert & Paiva

ANGIOSPERMAE

ASCLEPIADACEAE

Caralluma burchardii N. E. Brown

* *Ceropegia chrysantha* Svent.

BORAGINACEAE

Echium candicans L. fil.

* *Echium gentianoides* Webb & Coincy

Myosotis azorica H. C. Watson

Myosotis maritima Hochst. in Seub.

CAMPANULACEAE

* *Azorina vidalii* (H. C. Watson) Feer

Musschia aurea (L. f.) DC.

* *Musschia wollastonii* Lowe

CAPRIFOLIACEAE

* *Sambucus palmensis* Link

CARYOPHYLLACEAE

Spergularia azorica (Kindb.) Lebel

CELASTRACEAE

Maytenus umbellata (R. Br.) Mabb.

CHENOPODIACEAE

Beta patula Ait.

CISTACEAE

Cistus chinamadensis Banares & Romero

* *Helianthemum bystropogophyllum* Svent.

COMPOSITAE

Andryala crithmifolia Ait.

* *Argyranthemum lidii* Humphries

Argyranthemum thalassophyllum (Svent.) Hump.

Argyranthemum winterii (Svent.) Humphries

* *Atractylis arbuscula* Svent. & Michaelis

Atractylis preauxiana Schultz.

Calendula maderensis DC.

Cheirolophus duranii (Burchard) Holub

Cheirolophus ghomerytus (Svent.) Holub

Cheirolophus junonianus (Svent.) Holub

Cheirolophus massonianus (Lowe) Hansen & Sund.

Cirsium latifolium Lowe

Helichrysum gossypinum Webb

Helichrysum monogynum Burt & Sund.

Hypochoeris oligocephala (Svent. & Bramw.) Lack

- * *Lactuca watsoniana* Trel.
- * *Onopordum nogalesii* Svent.
- * *Onopordum carduelinum* Bolle
- * *Pericallis hadrosoma* (Svent.) B. Nord.

Phagnalon benettii Lowe

Stemmacantha cynaroides (Chr. Son. in Buch) Ditt

Sventenia bupleuroides Font Quer

- * *Tanacetum ptarmiciflorum* Webb & Berth

CONVOLVULACEAE

- * *Convolvulus caput-medusae* Lowe
- * *Convolvulus lopez-socasii* Svent.
- * *Convolvulus massonii* A. Dietr.

CRASSULACEAE

- Aeonium gomeraense* Praeger
- Aeonium saundersii* Bolle
- Aichryson dumosum* (Lowe) Praeg.
- Monanthes wildpretii* Banares & Scholz
- Sedum brissemoretii* Raymond-Hamet

CRUCIFERAE

- * *Crambe arborea* Webb ex Christ
- Crambe laevigata* DC. ex Christ
- * *Crambe sventenii* R. Petters ex Bramwell & Sund.
- * *Parolinia schizogynoides* Svent.
- Sinapidendron rupestre* (Ait.) Lowe

CYPERACEAE

- Carex malato-belizii* Raymond

DIPSACACEAE

- Scabiosa nitens* Roemer & J. A. Schultes

ERICACEAE

Erica scoparia L. subsp. *azorica* (Hochst.) D. A. Webb

EUPHORBIACEAE

* *Euphorbia handiensis* Burchard

Euphorbia lambii Svent.

Euphorbia stygiana H. C. Watson

GERANIACEAE

* *Geranium maderense* P. F. Yeo

GRAMINEAE

Deschampsia maderensis (Haeck. & Born.) Buschm.

Phalaris maderensis (Menezes) Menezes

GLOBULARIACEAE

* *Globularia ascanii* D. Bramwell & Kunkel

* *Globularia sarcophylla* Svent.

LABIATAE

* *Sideritis cystosiphon* Svent.

* *Sideritis discolor* (Webb ex de Noe) Bolle

Sideritis infernalis Bolle

Sideritis marmorea Bolle

Teucrium abutiloides L'Hér.

Teucrium betonicum L'Hér.

LEGUMINOSAE

* *Anagyris latifolia* Brouss. ex. Willd.

Anthyllis lemanniana Lowe

* *Dorycnium spectabile* Webb & Berthel

* *Lotus azoricus* P. W. Ball

Lotus callis-viridis D. Bramwell & D. H. Davis

* *Lotus kunkelii* (E. Chueca) D. Bramwell & al.

* *Teline rosmarinifolia* Webb & Berthel.

* *Teline salsoloides* Arco & Acebes.

Vicia dennesiana H. C. Watson

LILIACEAE

* *Androcymbium psammophilum* Svent.

Scilla maderensis Menezes

Semele maderensis Costa

LORANTHACEAE

Arceuthobium azoricum Wiens & Hawksw.

MYRICACEAE

* *Myrica rivas-martinezii* Santos.

OLEACEAE

Jasminum azoricum L.

Picconia azorica (Tutin) Knobl.

ORCHIDACEAE

Goodyera macrophylla Lowe

PITTOSPORACEAE

* *Pittosporum coriaceum* Dryand. ex. Ait.

PLANTAGINACEAE

Plantago malato-belizii Lawalree

PLUMBAGINACEAE

* *Limonium arborescens* (Brouss.) Kuntze

Limonium dendroides Svent.

* *Limonium spectabile* (Svent.) Kunkel & Sunding

* *Limonium sventenii* Santos & Fernandez Galvan

POLYGONACEAE

Rumex azoricus Rech. fil.

RHAMNACEAE

Frangula azorica Tutin

ROSACEAE

* *Bencomia brachystachya* Svent.

Bencomia sphaerocarpa Svent.

* *Chamaemeles coriacea* Lindl.

Dendriopoterium pulidoi Svent.

Marcetella maderensis (Born.) Svent.

Prunus lusitanica L. subsp. *azorica* (Mouillef.) Franco

Sorbus maderensis (Lowe) Dode

SANTALACEAE

Kunkeliella subsucculenta Kammer

SCROPHULARIACEAE

* *Euphrasia azorica* H.C. Watson

Euphrasia grandiflora Hochst. in Seub.

* *Isoplexis chalcantha* Svent. & O'Shanahan

Isoplexis isabelliana (Webb & Berthel.) Masferrer

Odontites holliana (Lowe) Benth.

Sibthorpia peregrina L.

SOLANACEAE

* *Solanum lidii* Sunding

UMBELLIFERAE

Ammi trifoliatum (H. C. Watson) Trelease

Bupleurum handiense (Bolle) Kunkel

Chaerophyllum azoricum Trelease

Ferula latipinna Santos

Melanoselinum decipiens (Schrader & Wendl.) Hoffm.

Monizia edulis Lowe

Oenanthe divaricata (R. Br.) Mabb.

Sanicula azorica Guthnick ex Seub.

VIOLACEAE

Viola paradoxa Lowe

LOWER PLANTS

BRYOPHYTA

* *Echinodium spinosum* (Mitt.) Jur. (o)

* *Thamnobryum fernandesii* Sergio (o).'

(c) Annex IV is replaced by the following:

'ANNEX IV

ANIMAL AND PLANT SPECIES OF COMMUNITY INTEREST

IN NEED OF STRICT PROTECTION

The species listed in this Annex are indicated:

- by the name of species or subspecies, or
- by the body of species belonging to a higher taxon or to a designated part of that taxon.

The abbreviation 'spp.' after the name of a family or genus designates all the species belonging to that family or genus.

(a) *ANIMALS*

VERTEBRATES

MAMMALS

INSECTIVORA

Erinaceidae

Erinaceus algirus

Soricidae

Crocidura canariensis

Crocidura sicula

Talpidae

Galemys pyrenaicus

MICROCHIROPTERA

All species

MEGACHIROPTERA

Pteropodidae

Rousettus aegyptiacus

RODENTIA

Gliridae

All species except *Glis glis* and *Eliomys quercinus*

Sciuridae

Marmota marmota latirostris

Pteromys volans (*Sciuropterus russicus*)

Spermophilus citellus (*Citellus citellus*)

Spermophilus suslicus (*Citellus suslicus*)

Sciurus anomalus

Castoridae

Castor fiber (except the Estonian, Latvian, Lithuanian, Polish, Finnish and Swedish, populations)

Cricetidae

Cricetus cricetus (except the Hungarian populations)

Mesocricetus newtoni

Microtidae

Dinaromys bogdanovi

Microtus cabreræ

Microtus oeconomus arenicola

Microtus oeconomus mehelyi

Microtus tatricus

Zapodidae

Sicista betulina

Sicista subtilis

Hystricidae

Hystrix cristata

CARNIVORA

Canidae

Alopex lagopus

Canis lupus (except the Greek populations north of the 39th parallel; Estonian populations, Spanish populations north of the Duero; Bulgarian, Latvian, Lithuanian, Polish, Slovak populations and Finnish populations within the reindeer management area as defined in paragraph 2 of the Finnish Act No 848/90 of 14 September 1990 on reindeer management)

Ursidae

Ursus arctos

Mustelidae

Lutra lutra

Mustela eversmanii

Mustela lutreola

Vormela peregusna

Felidae

Felis silvestris

Lynx lynx (except the Estonian population)

Lynx pardinus

Phocidae

Monachus monachus

Phoca hispida saimensis

ARTIODACTYLA

Cervidae

Cervus elaphus corsicanus

Bovidae

Bison bonasus

Capra aegagrus (natural populations)

Capra pyrenaica pyrenaica

Ovis gmelini musimon (*Ovis ammon musimon*) (natural populations – Corsica and Sardinia)

Ovis orientalis ophion (*Ovis gmelini ophion*)

Rupicapra pyrenaica ornata (*Rupicapra rupicapra ornata*)

Rupicapra rupicapra balcanica

Rupicapra rupicapra tatraica

CETACEA

All species

REPTILES

TESTUDINATA

Testudinidae

Testudo graeca

Testudo hermanni

Testudo marginata

Cheloniidae

Caretta caretta

Chelonia mydas

Lepidochelys kempii

Eretmochelys imbricata

Dermochelyidae

Dermochelys coriacea

Emydidae

Emys orbicularis

Mauremys caspica

Mauremys leprosa

SAURIA

Lacertidae

Algyroides fitzingeri
Algyroides marchi
Algyroides moreoticus
Algyroides nigropunctatus
Dalmatolacerta oxycephala
Dinarolacerta mosorensis
Gallotia atlantica
Gallotia galloti
Gallotia galloti insulanagae
Gallotia simonyi
Gallotia stehlini
Lacerta agilis
Lacerta bedriagae
Lacerta bonnali (Lacerta monticola)
Lacerta monticola
Lacerta danfordi
Lacerta dugesi
Lacerta graeca
Lacerta horvathi
Lacerta schreiberi
Lacerta trilineata
Lacerta viridis
Lacerta vivipara pannonica
Ophisops elegans
Podarcis erhardii
Podarcis filfolensis
Podarcis hispanica atrata

Podarcis lilfordi
Podarcis melisellensis
Podarcis milensis
Podarcis muralis
Podarcis peloponnesiaca
Podarcis pityusensis
Podarcis sicula
Podarcis taurica
Podarcis tiliguerta
Podarcis wagleriana

Scincidae

Ablepharus kitaibelii
Chalcides bedriagai
Chalcides ocellatus
Chalcides sexlineatus
Chalcides simonyi (Chalcides occidentalis)
Chalcides viridianus
Ophiomorus punctatissimus

Gekkonidae

Cyrtopodion kotschy
Phyllodactylus europaeus
Tarentola angustimentalis
Tarentola boettgeri
Tarentola delalandii
Tarentola gomerensis

Agamidae

Stellio stellio

Chamaeleontidae

Chamaeleo chamaeleon

Anguillidae

Ophisaurus apodus

OPHIDIA

Colubridae

Coluber caspius

Coluber cypriensis

Coluber hippocrepis

Coluber jugularis

Coluber laurenti

Coluber najadum

Coluber nummifer

Coluber viridiflavus

Coronella austriaca

Eirenis modesta

Elaphe longissima

Elaphe quatuorlineata

Elaphe situla

Natrix natrix cetti

Natrix natrix corsa

Natrix natrix cypriaca

Natrix tessellata

Telescopus falax

Viperidae

Vipera ammodytes

Macrovipera schweizeri (*Vipera lebetina schweizeri*)

Vipera seoanni (except Spanish populations)

Vipera ursinii

Vipera xanthina

Boidae

Eryx jaculus

AMPHIBIANS

CAUDATA

Salamandridae

Chioglossa lusitanica

Euproctus asper

Euproctus montanus

Euproctus platycephalus

Mertensiella luschani (*Salamandra luschani*)

Salamandra atra

Salamandra aurorae

Salamandra lanzai

Salamandrina terdigitata

Triturus carnifex (*Triturus cristatus carnifex*)

Triturus cristatus (*Triturus cristatus cristatus*)

Triturus italicus

Triturus karelinii (*Triturus cristatus karelinii*)

Triturus marmoratus

Triturus montandoni

Triturus vulgaris ampelensis

Proteidae

Proteus anguinus

Plethodontidae

Hydromantes (*Speleomantes*) *ambrosii*

Hydromantes (*Speleomantes*) *flavus*

Hydromantes (*Speleomantes*) *genei*

Hydromantes (Speleomantes) imperialis

Hydromantes (Speleomantes) strinatii (Hydromantes (Speleomantes) italicus)

Hydromantes (Speleomantes) supramontis

ANURA

Discoglossidae

Alytes cisternasii

Alytes muletensis

Alytes obstetricans

Bombina bombina

Bombina variegata

Discoglossus galganoi (including *Discoglossus "jeanneae"*)

Discoglossus montalentii

Discoglossus pictus

Discoglossus sardus

Ranidae

Rana arvalis

Rana dalmatina

Rana graeca

Rana iberica

Rana italica

Rana latastei

Rana lessonae

Pelobatidae

Pelobates cultripes

Pelobates fuscus

Pelobates syriacus

Bufo

Bufo calamita

Bufo viridis

Hylidae

Hyla arborea

Hyla meridionalis

Hyla sarda

FISH

ACIPENSERIFORMES

Acipenseridae

Acipenser naccarii

Acipenser sturio

SALMONIFORMES

Coregonidae

Coregonus oxyrhynchus (anadromous populations in certain sectors of the North Sea, except the Finnish populations)

CYPRINIFORMES

Cyprinidae

Anaocypris hispanica

Phoxinus phoxinus

ATHERINIFORMES

Cyprinodontidae

Valencia hispanica

PERCIFORMES

Percidae

Gymnocephalus baloni

Romanichthys valsanicola

Zingel asper

INVERTEBRATES

ARTHROPODS

CRUSTACEA

Isopoda

Armadillidium ghardalamensis

INSECTA

Coleoptera

Bolbelasmus unicornis

Buprestis splendens

Carabus hampei

Carabus hungaricus

Carabus olympiae

Carabus variolosus

Carabus zawadzskii

Cerambyx cerdo

Cucujus cinnaberinus

Dorcadion fulvum cervae

Duvalius gebhardti

Duvalius hungaricus

Dytiscus latissimus

Graphoderus bilineatus

Leptodirus hochenwarti

Pilemia tigrina

Osmoderma eremita

Phryganophilus ruficollis

Probaticus subrugosus

Propomacrus cypriacus

Pseudogaurotina excellens

Pseudoseriscius cameroni

Pytho kolwensis

Rosalia alpina

Lepidoptera

Apatura metis

Arytrura musculus

Catopta thrips

Chondrosoma fiduciarium

Coenonympha hero

Coenonympha oedippus

Colias myrmidone

Cucullia mixta

Dioszeghyana schmidtii

Erannis ankeraria

Erebia calcaria

Erebia christi

Erebia sudetica

Eriogaster catax

Fabriciana elisa

Glyphipterix loricatella

Gortyna borelii lunata

Hypodryas maturna

Hyles hippophaes

Leptidea morsei

Lignyopectera fumidaria

Lopinga achine

Lycaena dispar

Lycaena helle

Maculinea arion

Maculinea nausithous

Maculinea teleius
Melanargia arge
Nymphalis vaualbum
Papilio alexanor
Papilio hospiton
Parnassius apollo
Parnassius mnemosyne
Phyllometra culminaria
Plebicula golgus
Polymixis rufocincta isolata
Polyommatus eroides
Proserpinus proserpina
Proterebia afra dalmata
Pseudophilotes bavius
Xylomoia strix
Zerynthia polyxena

Mantodea

Apteromantis aptera

Odonata

Aeshna viridis
Cordulegaster heros
Cordulegaster trinacriae
Gomphus graslinii
Leucorrhinia albifrons
Leucorrhinia caudalis
Leucorrhinia pectoralis
Lindenia tetraphylla
Macromia splendens

Ophiogomphus cecilia

Oxygastra curtisii

Stylurus flavipes

Sympecma braueri

Orthoptera

Baetica ustulata

Brachytrupes megacephalus

Isophya costata

Isophya harzi

Isophya stysi

Myrmecophilus baronii

Odontopodisma rubripes

Paracaloptenus caloptenoides

Pholidoptera transsylvanica

Saga pedo

Stenobothrus (Stenobothrodes) eurasius

ARACHNIDA

Araneae

Macrothele calpeiana

MOLLUSCS

GASTROPODA

Anisus vorticulus

Caseolus calculus

Caseolus commixta

Caseolus sphaerula

Chilostoma banaticum

Discula leacockiana

Discula tabellata

Discula testudinalis
Discula turricula
Discus defloratus
Discus guerinianus
Elona quimperiana
Geomalacus maculosus
Geomitra moniziana
Gibbula nivosa
Hygromia kovacsi
Idiomela (Helix) subplicata
Lampedusa imitatrix
Lampedusa melitensis
Leiostyla abbreviata
Leiostyla cassida
Leiostyla corneocostata
Leiostyla gibba
Leiostyla lamellosa
Paladilhia hungarica
Patella ferruginea
Sadleriana pannonica
Theodoxus prevostianus
Theodoxus transversalis

BIVALVIA

Anisomyaria

Lithophaga lithophaga

Pinna nobilis

Unionoida

Margaritifera auricularia

Unio crassus

Dreissenidae

Congeria kusceri

ECHINODERMATA

Echinoidea

Centrostephanus longispinus

(b) **PLANTS**

Annex IV (b) contains all the plant species listed in Annex II (b)⁽¹⁾ plus those mentioned below:

PTERIDOPHYTA

ASPLENIACEAE

Asplenium hemionitis L.

ANGIOSPERMAE

AGAVACEAE

Dracaena draco (L.) L.

AMARYLLIDACEAE

Narcissus longispathus Pugsley

Narcissus triandrus L.

BERBERIDACEAE

Berberis maderensis Lowe

CAMPANULACEAE

Campanula morettiana Reichenb.

Physoplexis comosa (L.) Schur.

CARYOPHYLLACEAE

Moehringia fontqueri Pau

COMPOSITAE

¹ Except bryophytes in Annex II (b).

Argyranthemum pinnatifidum (L.f.) Lowe subsp. *succulentum* (Lowe) C. J. Humphries

Helichrysum sibthorpii Rouy

Picris willkommii (Schultz Bip.) Nyman

Santolina elegans Boiss. ex DC.

Senecio caespitosus Brot.

Senecio lagascanus DC. subsp. *lusitanicus* (P. Cout.) Pinto da Silva

Wagenitzia lancifolia (Sieber ex Sprengel) Dostal

CRUCIFERAE

Murbeckiella sousae Rothm.

EUPHORBIACEAE

Euphorbia nevadensis Boiss. & Reuter

GESNERIACEAE

Jankaea heldreichii (Boiss.) Boiss.

Ramonda serbica Pancic

IRIDACEAE

Crocus etruscus Parl.

Iris boissieri Henriq.

Iris marisca Ricci & Colasante

LABIATAE

Rosmarinus tomentosus Huber-Morath & Maire

Teucrium charidemi Sandwith

Thymus capitellatus Hoffmanns. & Link

Thymus villosus L. subsp. *villosus* L.

LILIACEAE

Androcymbium europaeum (Lange) K. Richter

Bellevalia hackelli Freyn

Colchicum corsicum Baker

Colchicum cousturieri Greuter

Fritillaria conica Rix

Fritillaria drenovskii Degen & Stoy.

Fritillaria gussichiae (Degen & Doerfler) Rix

Fritillaria obliqua Ker-Gawl.

Fritillaria rhodocanakis Orph. ex Baker

Ornithogalum reverchonii Degen & Herv.-Bass.

Scilla beirana Samp.

Scilla odorata Link

ORCHIDACEAE

Ophrys argolica Fleischm.

Orchis scopulorum Simsmerh.

Spiranthes aestivalis (Poiret) L. C. M. Richard

PRIMULACEAE

Androsace cylindrica DC.

Primula glaucescens Moretti

Primula spectabilis Tratt.

RANUNCULACEAE

Aquilegia alpina L.

SAPOTACEAE

Sideroxylon marmulano Banks ex Lowe

SAXIFRAGACEAE

Saxifraga cintrana Kuzinsky ex Willk.

Saxifraga portosanctana Boiss.

Saxifraga presolanensis Engl.

Saxifraga valdensis DC.

Saxifraga vayredana Luizet

SCROPHULARIACEAE

Antirrhinum lopesianum Rothm.

Lindernia procumbens (Krocker) Philcox

SOLANACEAE

Mandragora officinarum L.

THYMELAEACEAE

Thymelaea broterana P. Cout.

UMBELLIFERAE

Bunium brevifolium Lowe

VIOLACEAE

Viola atois W. Becker

Viola cazortensis Gandoger'

2. 32009 L 0147: Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (OJ L 20, 26.1.2010, p. 7):

Annex II is replaced by the following:

'ANNEX II

PART A

ANSERIFORMES

Anatidae

Anser fabalis

Anser anser

Branta canadensis

Anas penelope

Anas strepera

Anas crecca

Anas platyrhynchos

Anas acuta

Anas querquedula

Anas clypeata

Aythya ferina

Aythya fuligula

GALLIFORMES

Tetraonidae

Lagopus lagopus scoticus et hibernicus

Lagopus mutus

Phasianidae

Alectoris graeca

Alectoris rufa

Perdix perdix

Phasianus colchicus

GRUIFORMES

Rallidae

Fulica atra

CHARADRIIFORMES

Scolopacidae

Lymnocyptes minimus

Gallinago gallinago

Scolopax rusticola

COLUMBIFORMES

Columbidae

Columba livia

Columba palumbus

PART B

ANSERIFORMES

Anatidae

Cygnus olor

Anser brachyrhynchus

Anser albifrons

Branta bernicla

Netta rufina

Aythya marila

Somateria mollissima

Clangula hyemalis

Melanitta nigra

Melanitta fusca

Bucephala clangula

Mergus serrator

Mergus merganser

GALLIFORMES

Meleagridae

Meleagris gallopavo

Tetraonidae

Bonasa bonasia

Lagopus lagopus lagopus

Tetrao tetrix

Tetrao urogallus

Phasianidae

Francolinus francolinus

Alectoris barbara

Alectoris chukar

Coturnix coturnix

GRUIFORMES

Rallidae

Rallus aquaticus

Gallinula chloropus

CHARADRIIFORMES

Haematopodidae

Haematopus ostralegus

Charadriidae

Pluvialis apricaria

Pluvialis squatarola

Vanellus vanellus

Scolopacidae

Calidris canutus

Philomachus pugnax

Limosa limosa

Limosa lapponica

Numenius phaeopus

Numenius arquata

Tringa erythropus

Tringa totanus

Tringa nebularia

Laridae

Larus ridibundus

Larus canus

Larus fuscus

Larus argentatus

Larus cachinnans

Larus marinus

COLUMBIFORMES

Columbidae

Columba oenas

Streptopelia decaocto

Streptopelia turtur

PASSERIFORMES

Alaudidae

Alauda arvensis

Muscicapidae

Turdus merula

Turdus pilaris

Turdus philomelos

Turdus iliacus

Turdus viscivorus

Sturnidae

Sturnus vulgaris

Corvidae

Garrulus glandarius

Pica pica

Corvus monedula

Corvus frugilegus

Corvus corone

	BE	BG	CZ	DK	DE	EE	GR	ES	FR	IE	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
<i>Cygnus olor</i>					+															+								
<i>Anser brachyrhynchus</i>	+			+						+																		+
<i>Anser albifrons</i>	+	+	+	+	+	+	+		+	+			+	+	+		+		+		+		+		+		+	+
<i>Branta bernicla</i>				+	+																							
<i>Netta rufina</i>								+	+																			
<i>Aythya marila</i>	+			+	+		+		+	+				+					+				+					+
<i>Somateria mollissima</i>				+		+			+	+																+	+	
<i>Clangula hyemalis</i>				+		+			+	+				+												+	+	+
<i>Melanitta nigra</i>				+	+	+			+	+				+												+	+	+
<i>Melanitta fusca</i>				+	+				+	+				+												+	+	+
<i>Bucephala clangula</i>				+		+	+		+	+				+	+		+		+			+			+	+	+	

	BE	BG	CZ	DK	DE	EE	GR	ES	FR	IE	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK	
<i>Mergus serrator</i>				+						+								+								+	+		
<i>Mergus merganser</i>				+						+																	+	+	
<i>Bonasa bonasia</i>						+			+					+						+	+		+		+	+	+		
<i>Lagopus lagopus lagopus</i>																											+	+	
<i>Tetrao tetrix</i>	+				+				+			+		+						+							+	+	+
<i>Tetrao urogallus</i>		+			+				+			+		+						+			+				+	+	+
<i>Francolinus francolinus</i>													+																
<i>Alectoris barbara</i>								+				+																	
<i>Alectoris chukar</i>		+					+				+		+																
<i>Coturnix coturnix</i>		+					+	+	+		+	+	+					+		+		+	+						
<i>Meleagris gallopavo</i>			+		+															+					+				

	BE	BG	CZ	DK	DE	EE	GR	ES	FR	IE	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK	
<i>Rallus aquaticus</i>									+			+						+											
<i>Gallinula chloropus</i>	+						+		+			+						+				+	+						+
<i>Haematopus ostralegus</i>				+					+																				
<i>Pluvialis apricaria</i>	+			+			+		+	+								+	+			+							+
<i>Pluvialis squatarola</i>				+					+									+											+
<i>Vanellus vanellus</i>	+			+			+	+	+	+		+						+											
<i>Calidris canutus</i>				+					+																				
<i>Philomachus pugnax</i>									+			+						+											
<i>Limosa limosa</i>				+					+																				
<i>Limosa lapponica</i>				+					+																				+
<i>Numenius phaeopus</i>				+					+																				+
<i>Numenius arquata</i>				+					+	+																			+

<i>Tringa erythropus</i>				+					+																				
	BE	BG	CZ	DK	DE	EE	GR	ES	FR	IE	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK	
<i>Tringa totanus</i>				+					+			+																+	
<i>Tringa nebularia</i>				+					+																				
<i>Larus ridibundus</i>	+			+	+	+		+									+		+						+		+		
<i>Larus canus</i>				+	+	+																					+	+	
<i>Larus fuscus</i>				+	+																								
<i>Larus argentatus</i>	+			+	+	+								+													+	+	
<i>Larus cachinnans</i>								+									+												
<i>Larus marinus</i>				+	+	+																					+	+	
<i>Columba oenas</i>							+	+	+				+									+	+						
<i>Streptopelia decaocto</i>		+	+	+	+				+				+				+		+				+		+				
<i>Streptopelia turtur</i>		+					+	+	+			+	+				+		+			+	+						

<i>Alauda arvensis</i>							+		+									+					+						
<i>Turdus merula</i>							+		+									+					+					+	
<i>Turdus pilaris</i>							+	+	+	+								+		+			+	+				+	+
<i>Turdus philomelos</i>							+	+	+									+					+	+					
<i>Turdus iliacus</i>							+	+	+									+					+	+					

	BE	BG	CZ	DK	DE	EE	GR	ES	FR	IE	HR	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
<i>Turdus viscivorus</i>							+	+	+				+					+				+	+					
<i>Sturnus vulgaris</i>		+					+	+	+				+				+	+				+	+					
<i>Garrulus glandarius</i>	+			+	+				+		+	+				+	+		+			+	+	+	+		+	+
<i>Pica pica</i>	+	+	+	+	+		+	+	+		+	+	+	+		+	+		+			+	+	+	+	+	+	+
<i>Corvus monedula</i>		+					+	+			+		+						+				+			+	+	+
<i>Corvus frugilegus</i>		+				+			+		+				+		+						+		+		+	+
<i>Corvus corone</i>	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+		+			+	+	+	+	+	+	+

AT = Österreich, BE = Belgique/België, BG = България, CY = Κύπρος, CZ = Česká republika, DE = Deutschland, DK = Danmark, EE = Eesti, ES = España, FI = Suomi/Finland, FR = France, GR = Ελλάδα, HU = Magyarország, HR = Hrvatska, IE = Ireland, IT = Italia, LT = Lietuva, LU = Luxembourg, LV = Latvija, MT = Malta, NL = Nederland, PL = Polska, PT = Portugal, RO = România, SE = Sverige, SI = Slovenija, SK = Slovensko, UK = United Kingdom

+ = Member States which under Article 7(3) may authorize hunting of the species listed.'