# Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora

# **COUNCIL DIRECTIVE 92/43/EEC**

# of 21 May 1992

on the conservation of natural habitats and of wild fauna and flora

# THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130s thereof,

Having regard to the proposal from the Commission<sup>(1)</sup>,

Having regard to the opinion of the European Parliament<sup>(2)</sup>,

Having regard to the opinion of the Economic and Social Committee<sup>(3)</sup>,

Whereas the preservation, protection and improvement of the quality of the environment, including the conservation of natural habitats and of wild fauna and flora, are an essential objective of general interest pursued by the Community, as stated in Article 130r of the Treaty;

Whereas the European Community policy and action programme on the environment (1987 to 1992)<sup>(4)</sup> makes provision for measures regarding the conservation of nature and natural resources;

Whereas, the main aim of this Directive being to promote the maintenance of biodiversity, taking account of economic, social, cultural and regional requirements, this Directive makes a contribution to the general objective of sustainable development; whereas the maintenance of such biodiversity may in certain cases require the maintenance, or indeed the encouragement, of human activities;

Whereas, in the European territory of the Member States, natural habitats are continuing to deteriorate and an increasing number of wild species are seriously threatened; whereas given that the threatened habitats and species form part of the Community's natural heritage and the threats to them are often of a transboundary nature, it is necessary to take measures at Community level in order to conserve them;

Whereas, in view of the threats to certain types of natural habitat and certain species, it is necessary to define them as having priority in order to favour the early implementation of measures to conserve them;

Whereas, in order to ensure the restoration or maintenance of natural habitats and species of Community interest at a favourable conservation status, it is necessary to designate special areas of conservation in order to create a coherent European ecological network according to a specified timetable;

Whereas all the areas designated, including those classified now or in the future as special protection areas pursuant to Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds<sup>(5)</sup>, will have to be incorporated into the coherent European ecological network;

Whereas it is appropriate, in each area designated, to implement the necessary measures having regard to the conservation objectives pursued;

Whereas sites eligible for designation as special areas of conservation are proposed by the Member States but whereas a procedure must nevertheless be laid down to allow the designation in exceptional cases of a site which has not been proposed by a Member State but which the Community considers essential for either the maintenance or the survival of a priority natural habitat type or a priority species;

Whereas an appropriate assessment must be made of any plan or programme likely to have a significant effect on the conservation objectives of a site which has been designated or is designated in future;

Whereas it is recognized that the adoption of measures intended to promote the conservation of priority natural habitats and priority species of Community interest is a common responsibility of all Member States; whereas this may, however, impose an excessive financial burden on certain Member States given, on the one hand, the uneven distribution of such habitats and species throughout the Community and, on the other hand, the fact that the 'polluter pays' principle can have only limited application in the special case of nature conservation;

Whereas it is therefore agreed that, in this exceptional case, a contribution by means of Community co-financing should be provided for within the limits of the resources made available under the Community's decisions;

Whereas land-use planning and development policies should encourage the management of features of the landscape which are of major importance for wild fauna and flora;

Whereas a system should be set up for surveillance of the conservation status of the natural habitats and species covered by this Directive;

Whereas a general system of protection is required for certain species of flora and fauna to complement Directive 79/409/EEC; whereas provision should be made for management measures for certain species, if their conservation status so warrants, including the prohibition of certain means of capture or killing, whilst providing for the possibility of derogations on certain conditions;

Whereas, with the aim of ensuring that the implementation of this Directive is monitored, the Commission will periodically prepare a composite report based, *inter alia*, on the information sent to it by the Member States regarding the application of national provisions adopted under this Directive;

Whereas the improvement of scientific and technical knowledge is essential for the implementation of this Directive; whereas it is consequently appropriate to encourage the necessary research and scientific work;

Whereas technical and scientific progress mean that it must be possible to adapt the Annexes; whereas a procedure should be established whereby the Council can amend the Annexes;

Whereas a regulatory committee should be set up to assist the Commission in the implementation of this Directive and in particular when decisions on Community co-financing are taken;

Whereas provision should be made for supplementary measures governing the reintroduction of certain native species of fauna and flora and the possible introduction of non-native species;

Whereas education and general information relating to the objectives of this Directive are essential for ensuring its effective implementation,

# HAS ADOPTED THIS DIRECTIVE:

# Definitions

# Article 1

For the purpose of this Directive:

- (a) conservation means a series of measures required to maintain or restore the natural habitats and the populations of species of wild fauna and flora at a favourable status as defined in (e) and (i);
- (b) *natural habitats* means terrestrial or aquatic areas distinguished by geographic, abiotic and biotic features, whether entirely natural or semi-natural;
- (c) *natural habitat types of Community interest* means those which, within the territory referred to in Article 2:
  - (i) are in danger of disappearance in their natural range;

or

(ii) have a small natural range following their regression or by reason of their intrinsically restricted area;

or

(iii) [FI present outstanding examples of typical characteristics of one or more of the nine following biogeographical regions: Alpine, Atlantic, Black Sea, Boreal, Continental, Macaronesian, Mediterranean, Pannonian and Steppic.]

Such habitat types are listed or may be listed in Annex I;

- (d) *priority natural habitat types* means natural habitat types in danger of disappearence, which are present on the territory referred to in Article 2 and for the conservation of which the Community has particular responsibility in view of the proportion of their natural range which falls within the territory referred to in Article 2; these priority natural habitat types are indicated by an asterisk (\*) in Annex I;
- (e) conservation status of a natural habitat means the sum of the influences acting on a natural habitat and its typical species that may affect its long-term natural distribution, structure and functions as well as the long-term survival of its typical species within the territory referred to in Article 2.

[X1] The conservation status] of a natural habitat will be taken as 'favourable' when:

- its natural range and areas it covers within that range are stable or increasing, and
- the specific structure and functions which are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future, and
- the conservation status of its typical species is favourable as defined in (i);
- (f) *habitat of a species* means an environment defined by specific abiotic and biotic factors, in which the species lives at any stage of its biological cycle;
- (g) *species of Community interest* means species which, within the territory referred to in Article 2, are:
  - (i) endangered, except those species whose natural range is marginal in that territory and which are not endangered or vulnerable in the western palearctic region; or
  - vulnerable, i.e. believed likely to move into the endangered category in the near future if the causal factors continue operating; or
  - (iii) rare, i.e. with small populations that are not at present endangered or vulnerable, but are at risk. The species are located within restricted geographical areas or are thinly scattered over a more extensive range; or
  - (iv) endemic and requiring particular attention by reason of the specific nature of their habitat and/or the potential impact of their exploitation on their habitat and/or the potential impact of their exploitation on their conservation status.

Such species are listed or may be listed in Annex II and/or Annex IV or V;

- (h) *priority species* means species referred to in (g) (i) for the conservation of which the Community has particular responsibility in view of the proportion of their natural range which falls within the territory referred to in Article 2; these priority species are indicated by an asterisk (\*) in Annex II;
- (i) conservation status of a species means the sum of the influences acting on the species concerned that may affect the long-term distribution and abundance of its populations within the territory referred to in Article 2;

The *conservation status* will be taken as 'favourable' when:

- population dynamics data on the species concerned indicate that it is maintaining itself on a long-term basis as a viable component of its natural habitats, and
- the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future, and
- there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis;
- (j) site means a geographically defined area whose extent is clearly delineated;

2000 referred to in Article 3, and/or contributes significantly to the maintenance of biological diversity within the biogeographic region or regions concerned.

For animal species ranging over wide areas, sites of Community importance shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction;

- (l) special area of conservation means a site of Community importance designated by the Member States through a statutory, administrative and/or contractual act where the necessary conservation measures are applied for the maintenance or restoration, at a favourable conservation status, of the natural habitats and/or the populations of the species for which the site is designated;
- (m) specimen means any animal or plant, whether alive or dead, of the species listed in Annex IV and Annex V, any part or derivative thereof, as well as any other goods which appear, from an accompanying document, the packaging or a mark or label, or from any other circumstances, to be parts or derivatives of animals or plants of those species;
- (n) the committee means the committee set up pursuant to Article 20.

#### **Editorial Information**

X1 Substituted by Corrigendum to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Official Journal of the European Communities No L 206 of 22 July 1992).

# **Textual Amendments**

F1 Substituted by Council Directive 2006/105/EC of 20 November 2006 adapting Directives 73/239/EEC, 74/557/EEC and 2002/83/EC in the field of environment, by reason of the accession of Bulgaria and Romania.

# Article 2

- 1 The aim of this Directive shall be to contribute towards ensuring bio-diversity through the conservation of natural habitats and of wild fauna and flora in the European territory of the Member States to which the Treaty applies.
- 2 Measures taken pursuant to this Directive shall be designed to maintain or restore, at favourable conservation status, natural habitats and species of wild fauna and flora of Community interest.
- 3 Measures taken pursuant to this Directive shall take account of economic, social and cultural requirements and regional and local characteristics.

# Conservation of natural habitats and habitats of species

# Article 3

A coherent European ecological network of special areas of conservation shall be set up under the title Natura 2000. This network, composed of sites hosting the natural habitat types listed in Annex I and habitats of the species listed in Annex II, shall enable the natural habitat types and the species' habitats concerned to be maintained or, where appropriate, restored at a favourable conservation status in their natural range.

The Natura 2000 network shall include the special protection areas classified by the Member States pursuant to Directive 79/409/EEC.

- Each Member State shall contribute to the creation of Natura 2000 in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.
- Where they consider it necessary, Member States shall endeavour to improve the ecological coherence of Natura 2000 by maintaining, and where appropriate developing, features of the landscape which are of major importance for wild fauna and flora, as referred to in Article 10.

# Article 4

On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11.

The list shall be transmitted to the Commission, within three years of the notification of this Directive, together with information on each site. That information shall include a map of the site, its name, location, extent and the data resulting from application of the criteria specified in Annex III (Stage 1) provided in a format established by the Commission in accordance with the procedure laid down in Article 21.

On the basis of the criteria set out in Annex III (Stage 2) and in the framework both of each of the [FInine] biogeographical regions referred to in Article 1 (c) (iii) and of the whole of the territory referred to in Article 2 (1), the Commission shall establish, in agreement with each Member State, a draft list of sites of Community importance drawn from the Member States' lists identifying [XI] those which host one] or more priority natural habitat types or priority species.

Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.

The list of sites selected as sites of Community importance, identifying those which host one or more priority natural habitat types or priority species, shall be adopted by the Commission in accordance with the procedure laid down in Article 21.

- 3 The list referred to in paragraph 2 shall be established within six years of the notification of this Directive.
- Once a site of Community importance has been adopted in accordance with the procedure laid down in paragraph 2, the Member State concerned shall designate that site as a special area of conservation as soon as possible and within six years at most, establishing priorities in the light of the importance of the sites for the maintenance or restoration, at a favourable conservation status, of a natural habitat type in Annex I or a species in Annex II and for the coherence of Natura 2000, and in the light of the threats of degradation or destruction to which those sites are exposed.

As soon as a site is placed on the list referred to in the third subparagraph of paragraph 2 it shall be subject to Article 6 (2), (3) and (4).

#### **Editorial Information**

X1 Substituted by Corrigendum to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Official Journal of the European Communities No L 206 of 22 July 1992).

# **Textual Amendments**

F1 Substituted by Council Directive 2006/105/EC of 20 November 2006 adapting Directives 73/239/EEC, 74/557/EEC and 2002/83/EC in the field of environment, by reason of the accession of Bulgaria and Romania

#### Article 5

- In exceptional cases where the Commission finds that a national list as referred to in Article 4 (1) fails to mention a site hosting a priority natural habitat type or priority species which, on the basis of relevant and reliable scientific information, it considers to be essential for the maintenance of that priority natural habitat type or for the survival of that priority species, a bilateral consultation procedure shall be initiated between that Member State and the Commission for the purpose of comparing the scientific data used by each.
- If, on expiry of a consultation period not exceeding six months, the dispute remains unresolved, the Commission shall forward to the Council a proposal relating to the selection of the site as a site of Community importance.
- 3 The Council, acting unanimously, shall take a decision within three months of the date of referral.
- 4 During the consultation period and pending a Council decision, the site concerned shall be subject to Article 6 (2).

- For special areas of conservation, Member States shall establish the necessary conservation measures involving, if need be, appropriate management plans specifically designed for the sites or integrated into other development plans, and appropriate statutory, administrative or contractual measures which correspond to the ecological requirements of the natural habitat types in Annex I and the species in Annex II present on the sites.
- Member States shall take appropriate steps to avoid, in the special areas of conservation, the deterioration of natural habitats and the habitats of species as well as disturbance of the species for which the areas have been designated, in so far as such disturbance could be significant in relation to the objectives of this Directive.
- Any plan or project not directly connected with or necessary to the management of the site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subject to appropriate assessment of its implications for the site in view of the site's conservation objectives. In the light of the conclusions of the assessment of the implications for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public.

If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Where the site concerned hosts a priority natural habitat type and/or a priority species, the only considerations which may be raised are those relating to human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest.

# Article 7

Obligations arising under Article 6 (2), (3) and (4) of this Directive shall replace any obligations arising under the first sentence of Article 4 (4) of Directive 79/409/EEC in respect of areas classified pursuant to Article 4 (1) or similarly recognized under Article 4 (2) thereof, as from the date of implementation of this Directive or the date of classification or recognition by a Member State under Directive 79/409/EEC, where the latter date is later.

- In parallel with their proposals for sites eligible for designation as special areas of conservation, hosting priority natural habitat types and/or priority species, the Member States shall send, as appropriate, to the Commission their estimates relating to the Community co-financing which they consider necessary to allow them to meet their obligations pursuant to Article 6 (1).
- In agreement with each of the Member States concerned, the Commission shall identify, for sites of Community importance for which co-financing is sought, those measures essential for the maintenance or re-establishment at a favourable conservation status of the priority natural habitat types and priority species on the sites concerned, as well as the total costs arising from those measures.
- The Commission, in agreement with the Member States concerned, shall assess the financing, including co-financing, required for the operation of the measures referred to in paragraph 2, taking into account, amongst other things, the concentration on the Member State's territory of priority natural habitat types and/or priority species and the relative burdens which the required measures entail.
- According to the assessment referred to in paragraphs 2 and 3, the Commission shall adopt, having regard to the available sources of funding under the relevant Community instruments and according to the procedure set out in Article 21, a prioritized action framework of measures involving co-financing to be taken when the site has been designated under Article 4 (4).
- The measures which have not been retained in the action framework for lack of sufficient resources, as well as those included in the abovementioned action framework which have not received the necessary co-financing or have only been partially co-financed, shall be reconsidered in accordance with the procedure set out in Article 21, in the context of the two-yearly review of the action framework and may, in the maintime, be postponed by the Member States pending such review. This review shall take into account, as appropriate, the new situation of the site concerned.

6 In areas where the measures dependent on co-financing are postponed, Member States shall refrain from any new measures likely to result in deterioration of those areas.

#### Article 9

The Commission, acting in accordance with the procedure laid down in Article 21, shall periodically review the contribution of Natura 2000 towards achievement of the objectives set out in Article 2 and 3. In this context, a special area of conservation may be considered for declassification where this is warranted by natural developments noted as a result of the surveillance provided for in Article 11.

#### Article 10

Member States shall endeavour, where they consider it necessary, in their land-use planning and development policies and, in particular, with a view to improving the ecological [XI coherence of the Natura] 2000 network, to encourage the management of features of the landscape which are of major importance for wild fauna and flora.

Such features are those which, by virtue of their linear and continuous structure (such as rivers with their banks or the traditional systems for marking field boundaries) or their function as stepping stones (such as ponds or small woods), are essential for the migration, dispersal and genetic exchange of wild species.

#### **Editorial Information**

X1 Substituted by Corrigendum to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Official Journal of the European Communities No L 206 of 22 July 1992).

# Article 11

Member States shall undertake surveillance of the conservation status of the natural habitats and species referred to in Article 2 with particular regard to priority natural habitat types and priority species.

# Protection of species

- 1 Member States shall take the requisite measures to establish a system of strict protection for the animal species listed in Annex IV (a) in their natural range, prohibiting:
  - a all forms of deliberate capture or killing of specimens of these species in the wild;
  - b deliberate disturbance of these species, particularly during the period of breeding, rearing, hibernation and migration;
  - c deliberate destruction or taking of eggs from the wild;
  - d deterioration or destruction of breeding sites or resting places.
- 2 For these species, Member States shall prohibit the keeping, transport and sale or exchange, and offering for sale or exchange, of specimens taken from the wild, except for those taken legally before this Directive is implemented.
- The prohibition referred to in paragraph 1 (a) and (b) and paragraph 2 shall apply to all stages of life of the animals to which this Article applies.

4 Member States shall establish a system to monitor the incidential capture and killing of the animal species listed in Annex IV (a). In the light of the information gathered, Member States shall take further research or conservation measures as required to ensure that incidental capture and killing does not have a significant negative impact on the species concerned.

# Article 13

- 1 Member States shall take the requisite measures to establish a system of strict protection for the plant species listed in Annex IV (b), prohibiting:
  - a the deliberate picking, collecting, cutting, uprooting or destruction of such plants in their natural range in the wild;
  - b the keeping, transport and sale or exchange and offering for sale or exchange of specimens of such species taken in the wild, except for those taken legally before this Directive is implemented.
- 2 The prohibitions referred to in paragraph 1 (a) and (b) shall apply to all stages of the biological cycle of the plants to which this Article applies.

#### Article 14

- 1 If, in the light of the surveillance provided for in Article 11, Member States deem it necessary, they shall take measures to ensure that the taking in the wild of specimens of species of wild fauna and flora listed in Annex V as well as their exploitation is compatible with their being maintained at a favourable conservation status.
- Where such measures are deemed necessary, they shall include continuation of the surveillance provided for in Article 11. Such measures may also include in particular:
- regulations regarding access to certain property,
- temporary or local prohibition of the taking of specimens in the wild and exploitation of certain populations,
- regulation of the periods and/or methods of taking specimens,
- application, when specimens are taken, of hunting and fishing rules which take account
  of the conservation of such populations,
- establishment of a system of licences for taking specimens or of quotas,
- regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens,
- breeding in captivity of animal species as well as artificial propagation of plant species, under strictly controlled conditions, with a view to reducing the taking of specimens of the wild,
- assessment of the effect of the measures adopted.

# Article 15

In respect of the capture or killing of species of wild fauna listed in Annex V (a) and in cases where, in accordance with Article 16, derogations are applied to the taking, capture or killing of species listed in Annex IV (a), Member States shall prohibit the use of all indiscriminate means capable of causing local disappearance of, or serious disturbance to, populations of such species, and in particular:

- (a) use of the means of capture and killing listed in Annex VI (a);
- (b) any form of capture and killing from the modes of transport referred to in Annex VI (b).

#### Article 16

- Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):
  - a in the interest of protecting wild fauna and flora and conserving natural habitats;
  - b to prevent serious damage, in particular to crops, livestock, forests, fisheries and water and other types of property;
  - c in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;
  - d for the purpose of research and education, of repopulating and re-introducing these species and for the breedings operations necessary for these purposes, including the artificial propagation of plants;
  - e to allow, under strictly supervised conditions, on a selective basis and to a limited extent, the taking or keeping of certain specimens of the species listed in Annex IV in limited numbers specified by the competent national authorities.
- Member States shall forward to the Commission every two years a report in accordance with the format established by the Committee on the derogations applied under paragraph 1. The Commission shall give its opinion on these derogations within a maximum time limit of 12 months following receipt of the report and shall give an account to the Committee.
- 3 The reports shall specify:
  - a the species which are subject to the derogations and the reason for the derogation, including the nature of the risk, with, if appropriate, a reference to alternatives rejected and scientific data used;
  - b the means, devices or methods authorized for the capture or killing of animal species and the reasons for their use:
  - c the circumstances of when and where such derogations are granted;
  - d the authority empowered to declare and check that the required conditions obtain and to decide what means, devices or methods may be used, within what limits and by what agencies, and which persons [XI] are to carry out the task;
  - e the supervisory measures used and the results obtained.

#### **Editorial Information**

X1 Substituted by Corrigendum to Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Official Journal of the European Communities No L 206 of 22 July 1992).

# Information

# Article 17

1 Every six years from the date of expiry of the period laid down in Article 23, Member States shall draw up a report on the implementation of the measures taken under this Directive. This report shall include in particular information concerning the conservation measures referred to in Article 6 (1) as well as evaluation of the impact of those measures on

the conservation status of the natural habitat types of Annex I and the species in Annex II and the main results of the surveillance referred to in Article 11. The report, in accordance with the format established by the committee, shall be forwarded to the Commission and made accessible to the public.

- The Commission shall prepare a composite report based on the reports referred to in paragraph 1. This report shall include an appropriate evaluation of the progress achieved and, in particular, of the contribution of Natura 2000 to the achievement of the objectives set out in Article 3. A draft of the part of the report covering the information supplied by a Member State shall be forwarded to the Member State in question for verification. After submission to the committee, the final version of the report shall be published by the Commission, not later than two years after receipt of the reports referred to in paragraph 1, and shall be forwarded to the Member States, the European Parliament, the Council and the Economic and Social Committee.
- 3 Member States may mark areas designated under this Directive by means of Community notices designed for that purpose by the committee.

#### Research

# Article 18

- 1 Member States and the Commission shall encourage the necessary research and scientific work having regard to the objectives set out in Article 2 and the obligation referred to in Article 11. They shall exchange information for the purposes of proper coordination of research carried out at Member State and at Community level.
- 2 Particular attention shall be paid to scientific work necessary for the implementation of Articles 4 and 10, and transboundary cooperative research between Member States shall be encouraged.

# Procedure for amending the Annexes

# Article 19

Such amendments as are necessary for adapting Annexes I, II, III, V and VI to technical and scientific progress shall be adopted by the Council acting by qualified majority on a proposal from the Commission.

Such amendments as are necessary for adapting Annex IV to technical and scientific progress shall be adopted by the Council acting unanimously on a proposal from the Commission.

# Committee

# I<sup>F2</sup>Article 20

The Commission shall be assisted by a committee.

#### **Textual Amendments**

**F2** Substituted by Regulation (EC) No 1882/2003 of the European Parliament and of the Council of 29 September 2003 adapting to Council Decision 1999/468/EC the provisions relating to committees which assist the Commission in the exercise of its implementing powers laid down in instruments subject to the procedure referred to in Article 251 of the EC Treaty.

#### Article 21

Where reference is made to this Article, Articles 5 and 7 of Decision 1999/468/EC<sup>(6)</sup> shall apply, having regard to the provisions of Article 8 thereof.

The period laid down in Article 5(6) of Decision 1999/468/EC shall be set at three months.

2 The Committee shall adopt its rules of procedure.]

# **Textual Amendments**

**F2** Substituted by Regulation (EC) No 1882/2003 of the European Parliament and of the Council of 29 September 2003 adapting to Council Decision 1999/468/EC the provisions relating to committees which assist the Commission in the exercise of its implementing powers laid down in instruments subject to the procedure referred to in Article 251 of the EC Treaty.

# Supplementary provisions

# Article 22

In implementing the provisions of this Directive, Member States shall:

- (a) study the desirability of re-introducing species in Annex IV that are native to their territory where this might contribute to their conservation, provided that an investigation, also taking into account experience in other Member States or elsewhere, has established that such re-introduction contributes effectively to re-establishing these species at a favourable conservation status and that it takes place only after proper consultation of the public concerned;
- (b) ensure that the deliberate introduction into the wild of any species which is not native to their territory is regulated so as not to prejudice natural habitats within their natural range or the wild native fauna and flora and, if they consider it necessary, prohibit such introduction. The results of the assessment undertaken shall be forwarded to the committee for information;
- (c) promote education and general information on the need to protect species of wild fauna and flora and to conserve their habitats and natural habitats.

# Final provisions

- 1 Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive within two years of its notification. They shall forthwith inform the Commission thereof.
- When Member States adopt such measures, they shall contain a reference to this Directive or be accompanied by such reference on the occasion of their official publication. The methods of making such a reference shall be laid down by the Member States.
- 3 Member States shall communicate to the Commission the main provisions of national law which they adopt in the field covered by this Directive.

# Article 24

This Directive is addressed to the Member States.

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

# IF3ANNEX I

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

#### **Textual Amendments**

**F3** Substituted by Council Directive 2013/17/EU of 13 May 2013 adapting certain directives in the field of environment, by reason of the accession of the Republic of Croatia.

# Interpretation

Guidance on the interpretation of habitat types is given in 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<sup>(7)</sup>.

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 Mudflats and sandflats not covered by seawater at low tide 1140 1150 \* Coastal lagoons Large shallow inlets and bays 1160 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 Vegetated sea cliffs of the Atlantic and Baltic Coasts 1230 Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* 1240 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 *Spartina* swards (*Spartinion maritimae*) 1320 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<br>1520<br>1530 | <ul> <li>* Mediterranean salt steppes (<i>Limonietalia</i>)</li> <li>* Iberian gypsum vegetation (<i>Gypsophiletalia</i>)</li> <li>* Pannonic salt steppes and salt marshes</li> </ul>               |
|----------------------|--|
| 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<br>2120         | Embryonic shifting dunes<br>Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ('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 <i>Hippophaë rhamnoides</i>   |
| 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 <i>Juniperus</i> spp.   |
| 2260                 | Cisto-Lavenduletalia dune sclerophyllous scrubs  |
| 2270                 | * Wooded dunes with <i>Pinus pinea</i> and/or <i>Pinus pinaster</i>  |
| 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 <i>Corynephorus</i> and <i>Agrostis</i> grasslands  |
| 2340                 | * Pannonic inland dunes  |
| 3.                   | FRESHWATER HABITATS  |
| 31.                  | Standing water   |
| 3110                 | Oligotrophic waters containing very few minerals of sandy plains   |
| 3120                 | (Littorelletalia uniflorae) Oligotrophic waters containing very few minerals generally on sandy  |
| 3130                 | soils of the West Mediterranean, with <i>Isoetes</i> spp. Oligotrophic to mesotrophic standing waters with vegetation of the <i>Littorelletea uniflorae</i> and/or of the <i>Isoëto-Nanojuncetea</i> |
| 3140                 | Hard oligo-mesotrophic waters with benthic vegetation of <i>Chara</i> spp.   |

| 3150<br>3160<br>3170<br>3180<br>3190<br>31A0                         | Natural eutrophic lakes with Magnopotamion or Hydrocharition — type vegetation Natural dystrophic lakes and ponds * Mediterranean temporary ponds * Turloughs Lakes of gypsum karst * 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 $\frac{1}{2}$  |
| 3210<br>3220<br>3230<br>3240<br>3250<br>3260<br>3270<br>3280<br>3290 | Fennoscandian natural rivers Alpine rivers and the herbaceous vegetation along their banks Alpine rivers and their ligneous vegetation with Myricaria germanica Alpine rivers and their ligneous vegetation with Salix elaeagnos Constantly flowing Mediterranean rivers with Glaucium flavum Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation Rivers with muddy banks with Chenopodion rubri p.p. and Bidention p.p. vegetation Constantly flowing Mediterranean rivers with Paspalo-Agrostidion species and hanging curtains of Salix and Populus alba Intermittently flowing Mediterranean rivers of the Paspalo-Agrostidion |
| 32A0   | Tufa cascades of karstic rivers in the Dinaric Alps   |
| 4.   | TEMPERATE HEATH AND SCRUB   |
| 4010<br>4020<br>4030<br>4040<br>4050<br>4060<br>4070                 | Northern Atlantic wet heaths with <i>Erica tetralix</i> * Temperate Atlantic wet heaths with <i>Erica ciliaris</i> and <i>Erica tetralix</i> European dry heaths  * Dry Atlantic coastal heaths with <i>Erica vagans</i> * Endemic macaronesian heaths  Alpine and Boreal heaths  * Bushes with <i>Pinus mugo</i> and <i>Rhododendron hirsutum</i> ( <i>Mugo-Rhododendretum hirsuti</i> )   |
| 4080<br>4090<br>40A0<br>40B0<br>40C0                                 | Sub-Arctic <i>Salix</i> spp. Scrub Endemic oro-Mediterranean heaths with gorse * Subcontinental peri-Pannonic scrub Rhodope <i>Potentilla fruticosa</i> thickets * Ponto-Sarmatic deciduous thickets  |
| 5.   | SCLEROPHYLLOUS SCRUB (MATORRAL)   |
| 51.  | Sub-Mediterranean and temperate scrub   |
| 5110<br>5120<br>5130<br>5140   | Stable xerothermophilous formations with <i>Buxus sempervirens</i> on rock slopes ( <i>Berberidion</i> p.p.)  Mountain <i>Cytisus purgans</i> formations <i>Juniperus communis</i> formations on heaths or calcareous grasslands  * <i>Cistus palhinhae</i> formations on maritime wet heaths   |
| 52.  | Mediterranean arborescent matorral  |
| 5210<br>5220   | Arborescent matorral with <i>Juniperus</i> spp.  * Arborescent matorral with <i>Zyziphus</i>  |

| 5230   | * Arborescent matorral with <i>Laurus nobilis</i>   |
|--|---|
| 53.  | Thermo-Mediterranean and pre-steppe brush   |
| 5310<br>5320<br>5330   | Laurus nobilis thickets Low formations of Euphorbia close to cliffs Thermo-Mediterranean and pre-desert scrub   |
| 54.  | Phrygana  |
| 5410<br>5420   | West Mediterranean clifftop phryganas (Astragalo-Plantaginetum subulatae) Sarcopoterium spinosum phryganas  |
| 5430   | Endemic phryganas of the <i>Euphorbio-Verbascion</i>  |
| 6.   | NATURAL AND SEMI-NATURAL GRASSLAND FORMATIONS   |
| 61.  | Natural grasslands  |
| 6110   | * Rupicolous calcareous or basophilic grasslands of the <i>Alysso-Sedion albi</i>   |
| 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<br>6170   | Oro-Iberian <i>Festuca indigesta</i> grasslands Alpine and subalpine calcareous grasslands  |
| 6180   | Macaronesian mesophile grasslands   |
| 6190   | Rupicolous pannonic grasslands ( <i>Stipo-Festucetalia pallentis</i> )  |
|  |   |
| 62.  | Semi-natural dry grasslands and scrubland facies  |
| 62.<br>6210  | Semi-natural dry grasslands and scrubland facies  Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)   |
|  | Semi-natural dry grasslands and scrubland facies on calcareous  |
| 6210   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  |
| 6210<br>6220<br>6230<br>6240   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands   |
| 6210<br>6220<br>6230<br>6240<br>6250   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes   |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands   |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands ( <i>Scorzoneratalia villosae</i> )  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0                                       | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0   | Semi-natural dry grasslands and scrubland facies on calcareous substrates ( <i>Festuco-Brometalia</i> ) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i> * Species-rich <i>Nardus</i> grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands ( <i>Scorzoneratalia villosae</i> )  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0<br>62C0                               | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  * Ponto-Sarmatic steppes  |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0<br>62C0<br>62D0                       | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  * Ponto-Sarmatic steppes  Oro-Moesian acidophilous grasslands   |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0<br>62C0<br>62D0<br>63.<br>6310<br>64. | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  * Ponto-Sarmatic steppes  Oro-Moesian acidophilous grasslands  Sclerophillous grazed forests (dehesas)  Dehesas with evergreen Quercus spp.   |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0<br>62C0<br>62D0<br>63.<br>6310<br>64. | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks  Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  * Ponto-Sarmatic steppes  Oro-Moesian acidophilous grasslands  Sclerophillous grazed forests (dehesas)  Dehesas with evergreen Quercus spp.  Semi-natural tall-herb humid meadows  Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) |
| 6210<br>6220<br>6230<br>6240<br>6250<br>6260<br>6270<br>6280<br>62A0<br>62B0<br>62C0<br>62D0<br>63.<br>6310<br>64. | Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)  * Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea  * Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)  * Sub-Pannonic steppic grasslands  * Pannonic loess steppic grasslands  * Pannonic sand steppes  * Fennoscandian lowland species-rich dry to mesic grasslands  * Nordic alvar and precambrian calcareous flatrocks Eastern sub-Mediterranean dry grasslands (Scorzoneratalia villosae)  * Serpentinophilous grassland of Cyprus  * Ponto-Sarmatic steppes Oro-Moesian acidophilous grasslands  Sclerophillous grazed forests (dehesas)  Dehesas with evergreen Quercus spp.  Semi-natural tall-herb humid meadows  Molinia meadows on calcareous, peaty or clayey-silt-laden soils                        |

**Status:** EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

| 6440<br>6450<br>6460   | Alluvial meadows of river valleys of the <i>Cnidion dubii</i> Northern boreal alluvial meadows Peat grasslands of Troodos   |
|--|---|
| 65.  | Mesophile grasslands  |
| 6510<br>6520<br>6530<br>6540   | Lowland hay meadows ( <i>Alopecurus pratensis</i> , <i>Sanguisorba officinalis</i> ) Mountain hay meadows * Fennoscandian wooded meadows Sub-Mediterranean grasslands of the <i>Molinio-Hordeion secalini</i>   |
| 7.   | RAISED BOGS AND MIRES AND FENS  |
| 71.  | Sphagnum acid bogs  |
| 7110<br>7120<br>7130<br>7140<br>7150<br>7160                               | * Active raised bogs Degraded raised bogs still capable of natural regeneration Blanket bogs (* if active bog) Transition mires and quaking bogs Depressions on peat substrates of the <i>Rhynchosporion</i> Fennoscandian mineral-rich springs and springfens  |
| 72.  | Calcareous fens   |
| 7210   | * Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion</i>   |
| 7220<br>7230<br>7240   | <ul> <li>davallianae</li> <li>Petrifying springs with tufa formation (Cratoneurion)</li> <li>Alkaline fens</li> <li>Alpine pioneer formations of the Caricion bicoloris-atrofuscae</li> </ul>   |
| -  | The product formulations of the current events in constant  |
| 73.  | Boreal mires  |
|  |   |
| 73.<br>7310  | Boreal mires  * Aapa mires  |
| 73.<br>7310<br>7320  | Boreal mires  * Aapa mires  * Palsa mires   |
| 73.<br>7310<br>7320<br>8.  | * Aapa mires * Palsa mires * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae  |
| 73.<br>7310<br>7320<br>8.<br>81.   | * Aapa mires * Palsa mires * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels   |
| 73.<br>7310<br>7320<br>8.<br>81.<br>8110<br>8120<br>8130<br>8140           | * Aapa mires * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree Eastern Mediterranean screes   |
| 73.<br>7310<br>7320<br>8.<br>81.<br>8110<br>8120<br>8130                   | * Aapa mires * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree  |
| 73. 7310 7320 8. 81. 8110 8120 8130 8140 8150                              | * Aapa mires * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree Eastern Mediterranean screes Medio-European upland siliceous screes  |
| 73. 7310 7320 8. 81. 8110 8120 8130 8140 8150 8160 82. 8210 8220 8230      | * Aapa mires     * Palsa mires  * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree Eastern Mediterranean screes Medio-European upland siliceous screes * Medio-European calcareous scree of hill and montane levels  Rocky slopes with chasmophytic vegetation Calcareous rocky slopes with chasmophytic vegetation Siliceous rock with pioneer vegetation of the Sedo-Scleranthion or of the Sedo albi-Veronicion dillenii  |
| 73. 7310 7320 8. 81. 8110 8120 8130 8140 8150 8160 82. 8210 8220 8230 8240 | * Aapa mires     * Palsa mires  * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree Eastern Mediterranean screes Medio-European upland siliceous screes * Medio-European calcareous scree of hill and montane levels  Rocky slopes with chasmophytic vegetation  Calcareous rocky slopes with chasmophytic vegetation Siliceous rocky slopes with chasmophytic vegetation Siliceous rock with pioneer vegetation of the Sedo-Scleranthion or of the Sedo albi-Veronicion dillenii * Limestone pavements |
| 73. 7310 7320 8. 81. 8110 8120 8130 8140 8150 8160 82. 8210 8220 8230      | * Aapa mires     * Palsa mires  * Palsa mires  ROCKY HABITATS AND CAVES  Scree  Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii) Western Mediterranean and thermophilous scree Eastern Mediterranean screes Medio-European upland siliceous screes * Medio-European calcareous scree of hill and montane levels  Rocky slopes with chasmophytic vegetation Calcareous rocky slopes with chasmophytic vegetation Siliceous rock with pioneer vegetation of the Sedo-Scleranthion or of the Sedo albi-Veronicion dillenii  |

| 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 ( <i>Quercus, Tilia, Acer, Fraxinus</i> or <i>Ulmus</i> ) rich in epiphytes                           |
| 9030     | * Natural forests of primary succession stages of landupheaval coast  |
| 9040     | Nordic subalpine/subarctic forests with <i>Betula pubescens</i> ssp. <i>czerepanovii</i>  |
| 9050     | Fennoscandian herb-rich forests with <i>Picea abies</i>   |
| 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 <i>Ilex</i> and sometimes also <i>Taxus</i> in the shrublayer ( <i>Quercion robori-petraeae</i> or <i>Ilici-Fagenion</i> )         |
| 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 <i>Carpinion betuli</i>  |
| 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 <i>Ilex</i> and <i>Blechnum</i> 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-   |
| 91F0     | Padion, Alnion incanae, Salicion albae) Riparian mixed forests of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus angustifolia, along the great |
| 0.4.57.0 | rivers (Ulmenion minoris)   |
| 91G0     | * Pannonic woods with Quercus petraea and Carpinus betulus  |
| 91H0     | * Pannonian woods with Quercus pubescens  |
| 9110     | * Euro-Siberian steppic woods with <i>Quercus</i> 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-Balkanic turkey oak — sessile oak forests   |
| 91N0     | * Pannonic inland sand dune thicket (Junipero-Populetum albae)  |
| 91P0     | Holy Cross fir forest (Abietetum polonicum) Wastern Cornethian calcinalaya Pinya sylvastyia foresta   |
| 91Q0     | Western Carpathian calcicolous <i>Pinus sylvestris</i> forests  |

| 91R0<br>91S0<br>91T0<br>91U0<br>91V0<br>91W0<br>91X0<br>91Y0<br>91Z0<br>91AA<br>91BA | Dinaric dolomite Scots pine forests ( <i>Genisto januensis-Pinetum</i> )  * Western Pontic beech forests Central European lichen Scots pine forests Sarmatic steppe pine forest Dacian Beech forests ( <i>Symphyto-Fagion</i> ) Moesian beech forests  * Dobrogean beech forests Dacian oak & hornbeam forests Moesian silver lime woods  * Eastern white oak woods Moesian silver fir forests |
|--|--|
| 91CA   | Rhodopide and Balkan Range Scots pine forests  |
| 92.  | Mediterranean deciduous forests  |
| 9210   | * Apeninne beech forests with <i>Taxus</i> and <i>Ilex</i>   |
| 9220   | * Apennine beech forests with <i>Abies alba</i> and beech forests with <i>Abies</i>  |
|  | 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 <i>Rhododendron ponticum, Salix</i> 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 <i>Phoenix</i>  |
| 9380   | Forests of <i>Ilex aquifolium</i>  |
| 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 <i>Picea</i> forests of the montane to alpine levels ( <i>Vaccinio-Piceetea</i> )   |
| 9420   | Alpine Larix decidua and/or Pinus cembra forests   |
| 9430   | Subalpine and montane <i>Pinus uncinata</i> 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 <i>Juniperus</i> spp.                  |
| 9570 | * Tetraclinis articulata forests                              |
| 9580 | * Mediterranean Taxus baccata woods                           |
| 9590 | * Cedrus brevifolia forests (Cedrosetum brevifoliae)          |
| 95A0 | High oro-Mediterranean pine forestsl                          |

# [F3ANNEX 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

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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 russicus)

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 cabrerae

- \* 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 tatrica

**CETACÉA** 

Phocoena phocoena

Tursiops truncatus

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# **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

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\* 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 zanandreai (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 (0)

Anaecypris 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)

Cobitis taenia (o) (except the Finnish populations)

Squalius svallize (o)

Cobitis elongata (o)

Cobitis trichonica (o)

Cobitidae

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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 zawadszkii

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

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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

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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 (0)

Vertigo geyeri (o)

Vertigo moulinsiana (o)

**BIVALVIA** 

Unionoida

Margaritifera durrovensis (Margaritifera margaritifera) (V)

*Margaritifera margaritifera* (V)

Unio crassus

Dreissenidae

Congeria kusceri

**PLANTS** (b) **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

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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

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\* 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

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\* 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 Fernández 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 pyrenaeus 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. Chatzikyriakou
- \* 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

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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

Tephroseris 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) Gómez-Campo

\* Diplotaxis siettiana Maire

Diplotaxis vicentina (P. Cout.) Rothm.

Draba cacuminum Elis Ekman

Draha 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 Valdés & 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 bohemica Skalicky GERANIACEAE

\* Erodium astragaloides Boiss. & Reuter

Erodium paularense Fernández-González & 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 dirphya (Boiss.) Heldr. ex Halacsy

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\* Nepeta sphaciotica P.H. Davis

Origanum dictamnus L.

Phlomis brevibracteata Turril

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. Rodríguez LENTIBULARIACEAE

\* Pinguicula crystallina Sm.

*Pinguicula nevadensis* (Lindb.) Casper LILIACEAE

Allium grosii Font Quer

- \* Androcymbium rechingeri Greuter
- \* Asphodelus bento-rainhae P. Silva
- \* Chionodoxa lochiae 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.

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- \* 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 radicatum 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.) Neilr 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.

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#### **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 loeselii Schweigger

\* Linaria ficalhoana Rouy

Linaria flava (Poiret) Desf.

\* Linaria hellenica Turrill

Linaria pseudolaxiflora Lojacono

\* Linaria ricardoi Cout.

Linaria tonzigii Lona

\* Linaria tursica B. Valdés & 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

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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

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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 thalassophylum (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 Burtt & Sund.

Hypochoeris oligocephala (Svent. & Bramw.) Lack

- \* Lactuca watsoniana Trel.
- \* Onopordum nogalesii Svent.
- \* Onorpordum 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

- \* Dorvcnium 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 & Fernández Galván **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

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- \* Echinodium spinosum (Mitt.) Jur. (o)
- \* Thamnobryum fernandesii Sergio (o).]

#### ANNEX III

# CRITERIA FOR SELECTING SITES ELIGIBLE FOR IDENTIFICATION AS SITES OF COMMUNITY IMPORTANCE AND DESIGNATION AS SPECIAL AREAS OF CONSERVATION

STAGE 1:Assessment at national level of the relative importance of sites for each natural habitat type in Annex I and each species in Annex II (including priority natural habitat types and priority species)

- A. Site assessment criteria for a given natural habitat type in Annex I
- (a) Degree of representativity of the natural habitat [X1 type on the site.]
- (b) Area of the site covered by the natural habitat type in relation to the total area covered by that natural habitat type within national territory.
- (c) Degree of conservation of the structure and functions of the natural habitat type concerned and restoration possibilities.
- (d) Global assessment of the value of the site for conservation of the natural habitat type concerned.
- B. Site assessment criteria for a given species in Annex II
- (a) Size and density of the population of the species present on the site in relation to the populations present within national territory.
- (b) Degree of conservation of the features of the habitat which are important for the species concerned and restoration possibilities.
- (c) Degree of isolation of the population present on the site in relation to the natural range of the species.
- (d) Global assessment of the value of the site for conservation of the species concerned.
- C. On the basis of these criteria, Member States will classify the sites which they propose on the national list as sites eligible for identification as sites of Community importance according to their relative value for the conservation of each natural habitat type in Annex I or each species in Annex II.
- D. That list will show the sites containing the priority natural habitat types and priority species selected by the Member States on the basis of the criteria in A and B above.

STAGE Assessment of the Community importance of the sites included on the national lists 2:

- 1. All the sites identified by the Member States in Stage 1 which contain priority natural habitat types and/or species will be considered as sites of Community importance.
- 2. The assessment of the Community importance of other sites on Member States' lists, i.e. their contribution to maintaining or re-establishing, at a favourable conservation

- status, a natural habitat in Annex I or a species in Annex II and/or to the coherence of Natura 2000 will take account of the following criteria:
- (a) relative value of the site at national level;
- (b) geographical situation of the site in relation to migration routes of species in Annex II and whether it belongs to a continuous ecosystem situated on both sides of one or more internal Community frontiers;
- (c) total area of the site;
- (d) number of natural habitat types in Annex I and species in Annex II present on the site;
- (e) global ecological value of the site for the biogeographical regions concerned and/or for the whole of the territory referred to in Article 2, as regards both [XI] the characteristic or unique] aspect of its features and the way they are combined.

### [F1]F3ANNEX 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 cabrerae

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 tatrica

**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

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**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 kotschyi

Phyllodactylus europaeus

Tarentola angustimentalis

Tarentola boettgeri

Tarentola delalandii

Tarentola gomerensis

Agamidae

Stellio stellio

Chamaeleontidae

Chamaeleo chamaeleon

Anguidae

Ophisaurus apodus

**OPHIDIA** 

Colubridae

Coluber caspius

Coluber cypriensis

Coluber hippocrepis

Coluber jugularis

Coluber laurenti

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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

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Pelobatidae

Pelobates cultripes

Pelobates fuscus

Pelobates syriacus

Bufonidae

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

Anaecypris hispanica

Phoxinus percnurus

**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 zawadszkii

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

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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

Lignyoptera 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

ARACHNIDÀ

Araneae

Macrothele calpeiana

MOLLUSCS

GASTROPODA

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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

pring from IIK legislation After

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#### 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)<sup>(8)</sup> 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** 

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** 

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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

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*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 athois W. Becker

Viola cazorlensis Gandoger

#### ANNEX V

### ANIMAL AND PLANT SPECIES OF COMMUNITY INTEREST WHOSE TAKING IN THE WILD AND EXPLOITATION MAY BE SUBJECT TO MANAGEMENT MEASURES

The species listed in this Annex are indicated:

- by the name of the 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 RODENTIA

Castoridae

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

Cricetidae

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Cricetus cricetus (Hungarian populations)

#### **CARNIVORA**

#### Canidae

Canis aureus

Canis lupus (Spanish populations north of the Duero, Greek populations north of the 39th parallel, 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, Bulgarian, Latvian, Lithuanian, Estonian, Polish and Slovak populations)

#### Mustelidae

Martes martes

Mustela putorius

#### Felidae

*Lynx lynx (Estonian population)* 

#### Phocidae

All species not mentioned in Annex IV

#### Viverridae

Genetta genetta

Herpestes ichneumon

#### **DUPLICIDENTATA**

#### Leporidae

Lepus timidus

#### ARTIODACTYLA

#### Bovidae

Capra ibex

Capra pyrenaica (except Capra pyrenaica pyrenaica)

Rupicapra rupicapra (except Rupicapra rupicapra balcanica, Rupicapra rupicapra ornata and Rupicapra rupicapra tatrica)

#### **AMPHIBIANS**

#### ANURA

#### Ranidae

Rana esculenta

Rana perezi

Rana ridibunda

Rana temporaria

#### **FISH**

#### **PETROMYZONIFORMES**

#### Petromyzonidae

Lampetra fluviatilis

 $Le then teron\ zanandrai$ 

#### **ACIPENSERIFORMES**

#### Acipenseridae

All species not mentioned in Annex IV

#### **CLUPEIFORMES**

#### Clupeidae

Alosa spp.

#### **SALMONIFORMES**

#### Salmonidae

Thymallus thymallus

Coregonus spp. (except Coregonus oxyrhynchus — anadromous populations in certain sectors of the North Sea)

Hucho hucho

Salmo salar (only in fresh water)

#### **CYPRINIFORMES**

#### Cyprinidae

Aspius aspius

Barbus spp.

Pelecus cultratus

Rutilus friesii meidingeri

Rutilus pigus

#### SILURIFORMES

#### Siluridae

Silurus aristotelis

#### **PERCIFORMES**

#### Percidae

Gymnocephalus schraetzer

Zingel zingel

**INVERTEBRATES** 

COELENTERATA

**CNIDARIA** 

Corallium rubrum

**MOLLUSCA** 

GASTROPODA — STYLOMMATOPHORA

Helix pomatia

BIVALVIA — UNIONOIDA

#### Margaritiferidae

Margaritifera margaritifera

#### Unionidae

Microcondylaea compressa

Unio elongatulus

**ANNELIDA** 

HIRUDINOIDEA — ARHYNCHOBDELLAE

#### Hirudinidae

Hirudo medicinalis

ARTHROPODA

CRUSTACEA — DECAPODA

#### Astacidae

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Astacus astacus

Austropotamobius pallipes

Austropotamobius torrentium

Scyllaridae

Scyllarides latus

INSECTA — LEPIDOPTERA

Saturniidae

Graellsia isabellae

(b) PLANTS

**ALGAE** 

#### RHODORHORIALLINACEAE

Lithothamnium coralloides Crouan frat.

Phymatholithon calcareum (Poll.) Adey & McKibbin

LICHENES

**CLADONIACEAE** 

Cladonia L. subgenus Cladina (Nyl.) Vain.

**BRYOPHYTA** 

#### MUSCI LEUCOBRYACEAE

Leucobryum glaucum (Hedw.) AAngstr.

SPHAGNACEAE

Sphagnum L. spp. (except Sphagnum pylaisii Brid.)

**PTERIDOPHYTA** 

Lycopodium spp.

ANGIOSPERMAE

**AMARYLLIDACEAE** 

Galanthus nivalis L.

Narcissus bulbocodium L.

Narcissus juncifolius Lagasca

#### **COMPOSITAE**

Arnica montana L.

Artemisia eriantha Tem

Artemisia genipi Weber

Doronicum plantagineum L. subsp. tournefortii (Rouy) P. Cout.

Leuzea rhaponticoides Graells

#### **CRUCIFERAE**

Alyssum pintadasilvae Dudley.

Malcolmia lacera (L.) DC. subsp. graccilima (Samp.) Franco

Murbeckiella pinnatifida (Lam.) Rothm. subsp. herminii (Rivas-Martinez) Greuter & Burdet

#### **GENTIANACEAE**

Gentiana lutea L.

**IRIDACEAE** 

*Iris lusitanica* Ker-Gawler

#### **LABIATAE**

Teucrium salviastrum Schreber subsp. salviastrum Schreber

#### **LEGUMINOSAE**

Anthyllis lusitanica Cullen & Pinto da Silva

Dorycnium pentaphyllum Scop. subsp. transmontana Franco

Ulex densus Welw. ex Webb.

#### LILIACEAE

Lilium rubrum Lmk

Ruscus aculeatus L.

#### PLUMBAGINACEAE

Armeria sampaio (Bernis) Nieto Feliner

#### **ROSACEAE**

Rubus genevieri Boreau subsp. herminii (Samp.) P. Cout.

#### SCROPHULARIACEAE

Anarrhinum longipedicelatum R. Fernandes

Euphrasia mendonçae Samp.

Scrophularia grandiflora DC. subsp. grandiflora DC.

Scrophularia berminii Hoffmanns & Link

Scrophularia sublyrata Brot.]

#### ANNEX VI

#### PROHIBITED METHODS AND MEANS OF CAPTURE AND KILLING AND MODES OF TRANSPORT

#### (a)Non-selective means

| (a)INUII-S | selective illeans   |
|------------|---|
| MAMM       | ALS   |
| _          | Blind or mutilated animals used as live decoys  |
|            | Tape recorders  |
| _          | Electrical and electronic devices capable of killing or stunning                                |
| _          | Artificial light sources  |
|            | Mirrors and other dazzling devices  |
| _          | Devices for illuminating targets  |
|            | Sighting devices for night shooting comprising an electronic image magnifier or image converter |
| _          | Explosives  |
| _          | Nets which are non-selective according to their principle or their conditions of use            |
|            | Traps which are non-selective according to their principle or their conditions of use           |

- Poisons and poisoned or anaesthetic bait
- Gassing or smoking out

Crossbows

Semi-automatic or automatic weapons with a magazine capable of holding more than two rounds of ammunition

#### **FISH**

- Poison
- **Explosives**
- (b) Modes of transport
- Aircraft

Moving motor vehicles

- (1) OJ No C 247, 21. 9. 1988, p. 3 and OJ No C 195, 3. 8. 1990, p. 1.
- (2) OJ No C 75, 20. 3. 1991, p. 12.
- (3) OJ No C 31, 6. 2. 1991, p. 25.
- (4) OJ No C 328, 7. 12. 1987, p. 1.
- (5) OJ No L 103, 25. 4. 1979, p. 1. Directive as last amended by Directive 91/244/ECC (OJ No L 115, 8. 5. 1991, p. 41).
- (6) [F2Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission (OJ L 184, 17.7.1999, p. 23).]
- Interpretation Manual of European Union Habitats, version EUR 15/2, adopted by the Habitats Committee on 4 October 1999 and Amendments to the 'Interpretation Manual of European Union Habitats' with a view to EU enlargement (Hab. 01/11b-rev. 1), adopted by the Habitats Committee on 24 April 2002 after written consultation, European Commission, Directorate General for Environment;
- (8) [F1F3Except bryophytes in Annex II (b).]]

#### **Textual Amendments**

- F1 Substituted by Council Directive 2006/105/EC of 20 November 2006 adapting Directives 73/239/EEC, 74/557/EEC and 2002/83/EC in the field of environment, by reason of the accession of Bulgaria and Romania.
- **F2** Substituted by Regulation (EC) No 1882/2003 of the European Parliament and of the Council of 29 September 2003 adapting to Council Decision 1999/468/EC the provisions relating to committees which assist the Commission in the exercise of its implementing powers laid down in instruments subject to the procedure referred to in Article 251 of the EC Treaty.
- **F3** Substituted by Council Directive 2013/17/EU of 13 May 2013 adapting certain directives in the field of environment, by reason of the accession of the Republic of Croatia.