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► **B****COUNCIL DIRECTIVE 92/43/EEC****of 21 May 1992****on the conservation of natural habitats and of wild fauna and flora**

(OJ L 206, 22.7.1992, p. 7)

Amended by:

		Official Journal		
		No	page	date
► <b><u>M1</u></b>	Council Directive 97/62/EC of 27 October 1997	L 305	42	8.11.1997
► <b><u>M2</u></b>	Regulation (EC) No 1882/2003 of the European Parliament and of the Council of 29 September 2003	L 284	1	31.10.2003
► <b><u>M3</u></b>	Council Directive 2006/105/EC of 20 November 2006	L 363	368	20.12.2006
► <b><u>M4</u></b>	Council Directive 2013/17/EU of 13 May 2013	L 158	193	10.6.2013

Amended by:

► <b><u>A1</u></b>	Act of Accession of Austria, Sweden and Finland (adapted by Council Decision 95/1/EC, Euratom, ECSC)	C 241 L 1	21 1	29.8.1994 1.1.1995
► <b><u>A2</u></b>	Act concerning the conditions of accession of the Czech Republic, the Republic of Estonia, the Republic of Cyprus, the Republic of Latvia, the Republic of Lithuania, the Republic of Hungary, the Republic of Malta, the Republic of Poland, the Republic of Slovenia and the Slovak Republic and the adjustments to the Treaties on which the European Union is founded	L 236	33	23.9.2003

Corrected by:

- **C1** Corrigendum, OJ L 176, 20.7.1993, p. 29 (92/43/EEC)

**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;

<sup>(1)</sup> OJ No C 247, 21. 9. 1988, p. 3 and  
OJ No C 195, 3. 8. 1990, p. 1.

<sup>(2)</sup> OJ No C 75, 20. 3. 1991, p. 12.

<sup>(3)</sup> OJ No C 31, 6. 2. 1991, p. 25.

<sup>(4)</sup> OJ No C 328, 7. 12. 1987, p. 1.

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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>(1)</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;

<sup>(1)</sup> 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).

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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;

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(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

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(iii) 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.

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

(d) *priority natural habitat types* means natural habitat types in danger of disappearance, 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.

►C1 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;

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(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
- (ii) 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

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- 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;
- (k) *site of Community importance* means a site which, in the biogeographical region or regions to which ►C1 it belongs, ◀ contributes significantly to the maintenance or restoration at a favourable conservation status of a natural habitat type in Annex I or of a species in Annex II and may also contribute significantly to the coherence of Natura 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.

## *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.

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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*

1. 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.

2. 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.

3. 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*

1. 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.



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2. On the basis of the criteria set out in Annex III (Stage 2) and in the framework both of each of the ►**M3** nine ◀ 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 ►**C1** 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.

4. 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.

5. 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).

*Article 5*

1. 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.

2. 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.

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4. During the consultation period and pending a Council decision, the site concerned shall be subject to Article 6 (2).

*Article 6*

1. 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.

2. 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.

3. 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.

4. 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.

**▼B***Article 8*

1. 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).

2. 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.

3. 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.

4. 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).

5. 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 meantime, 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.

**▼B***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 ►C1 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.

*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***Article 12*

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.

3. 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.

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4. Member States shall establish a system to monitor the incidental 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.

2. 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.

**▼B***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*

1. 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.

2. 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.

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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 ►**C1** are to carry out the ◀ task;
  - (e) the supervisory measures used and the results obtained.

**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.

2. 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.

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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****▼M2***Article 20*

The Commission shall be assisted by a committee.

*Article 21*

1. Where reference is made to this Article, Articles 5 and 7 of Decision 1999/468/EC <sup>(1)</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.

<sup>(1)</sup> Council 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).



**▼B****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***Article 23*

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.
2. 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.

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## ANNEX I

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

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

The code corresponds to the Natura 2000 code.

The sign '\*' indicates priority habitat types.

**1. COASTAL AND HALOPHYTIC HABITATS****11. Open sea and tidal areas**

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

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

1130 Estuaries

1140 Mudflats and sandflats not covered by seawater at low tide

1150 \* Coastal lagoons

1160 Large shallow inlets and bays

1170 Reefs

1180 Submarine structures made by leaking gases

**12. Sea cliffs and shingle or stony beaches**

1210 Annual vegetation of drift lines

1220 Perennial vegetation of stony banks

1230 Vegetated sea cliffs of the Atlantic and Baltic Coasts

1240 Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* spp.

1250 Vegetated sea cliffs with endemic flora of the Macaronesian coasts

**13. Atlantic and continental salt marshes and salt meadows**

1310 *Salicornia* and other annuals colonizing mud and sand

1320 *Spartina* swards (*Spartinion maritimae*)

1330 Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*)

1340 \* Inland salt meadows

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

1410 Mediterranean salt meadows (*Juncetalia maritimi*)

1420 Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*)

(\*) *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;

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- 1430 Halo-nitrophilous scrubs (*Pegano-Salsoletea*)
15. **Salt and gypsum inland steppes**
- 1510 \* Mediterranean salt steppes (*Limonietalia*)
- 1520 \* Iberian gypsum vegetation (*Gypsophiletalia*)
- 1530 \* Pannonic salt steppes and salt marshes
16. **Boreal Baltic archipelago, coastal and landupheaval areas**
- 1610 Baltic esker islands with sandy, rocky and shingle beach vegetation and sublittoral vegetation
- 1620 Boreal Baltic islets and small islands
- 1630 \* Boreal Baltic coastal meadows
- 1640 Boreal Baltic sandy beaches with perennial vegetation
- 1650 Boreal Baltic narrow inlets

## 2. COASTAL SAND DUNES AND INLAND DUNES

21. **Sea dunes of the Atlantic, North Sea and Baltic coasts**
- 2110 Embryonic shifting dunes
- 2120 Shifting dunes along the shoreline with *Ammophila arenaria* ('white dunes')
- 2130 \* Fixed coastal dunes with herbaceous vegetation ('grey dunes')
- 2140 \* Decalcified fixed dunes with *Empetrum nigrum*
- 2150 \* Atlantic decalcified fixed dunes (*Calluno-Ulicetea*)
- 2160 Dunes with *Hippophaë rhamnoides*
- 2170 Dunes with *Salix repens* ssp. *argentea* (*Salicion arenariae*)
- 2180 Wooded dunes of the Atlantic, Continental and Boreal region
- 2190 Humid dune slacks
- 21A0 Machairs (\* in Ireland)
22. **Sea dunes of the Mediterranean coast**
- 2210 *Crucianellion maritimae* fixed beach dunes
- 2220 Dunes with *Euphorbia terracina*
- 2230 *Malcolmietalia* dune grasslands
- 2240 *Brachypodietalia* dune grasslands with annuals
- 2250 \* Coastal dunes with *Juniperus* spp.
- 2260 *Cisto-Lavenduletalia* dune sclerophyllous scrubs
- 2270 \* Wooded dunes with *Pinus pinea* and/or *Pinus pinaster*

▼ **M4**23. **Inland dunes, old and decalcified**

- 2310 Dry sand heaths with *Calluna* and *Genista*
- 2320 Dry sand heaths with *Calluna* and *Empetrum nigrum*
- 2330 Inland dunes with open *Corynephorus* and *Agrostis* grasslands
- 2340 \* Pannonic inland dunes

## 3. FRESHWATER HABITATS

31. **Standing water**

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

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

- 3210 Fennoscandian natural rivers
- 3220 Alpine rivers and the herbaceous vegetation along their banks
- 3230 Alpine rivers and their ligneous vegetation with *Myricaria germanica*
- 3240 Alpine rivers and their ligneous vegetation with *Salix elaeagnos*
- 3250 Constantly flowing Mediterranean rivers with *Glaucium flavum*
- 3260 Water courses of plain to montane levels with the *Ranunculion fluitantis* and *Callitricho-Batrachion* vegetation
- 3270 Rivers with muddy banks with *Chenopodion rubri* p.p. and *Bidention* p.p. vegetation
- 3280 Constantly flowing Mediterranean rivers with *Paspalo-Agrostidion* species and hanging curtains of *Salix* and *Populus alba*
- 3290 Intermittently flowing Mediterranean rivers of the *Paspalo-Agrostidion*
- 32A0 Tufa cascades of karstic rivers in the Dinaric Alps

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## 4. TEMPERATE HEATH AND SCRUB

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

## 5. SCLEROPHYLLOUS SCRUB (MATORRAL)

- 51. **Sub-Mediterranean and temperate scrub**
- 5110 Stable xerothermophilous formations with *Buxus sempervirens* on rock slopes (*Berberidion* p.p.)
- 5120 Mountain *Cytisus purgans* formations
- 5130 *Juniperus communis* formations on heaths or calcareous grasslands
- 5140 \* *Cistus palhinhae* formations on maritime wet heaths
- 52. **Mediterranean arborescent matorral**
- 5210 Arborescent matorral with *Juniperus* spp.
- 5220 \* Arborescent matorral with *Zyziphus*
- 5230 \* Arborescent matorral with *Laurus nobilis*
- 53. **Thermo-Mediterranean and pre-steppe brush**
- 5310 *Laurus nobilis* thickets
- 5320 Low formations of *Euphorbia* close to cliffs
- 5330 Thermo-Mediterranean and pre-desert scrub
- 54. **Phrygana**
- 5410 West Mediterranean cliff-top phryganas (*Astragalo-Plantaginetum subulatae*)
- 5420 *Sarcopoterium spinosum* phryganas
- 5430 Endemic phryganas of the *Euphorbio-Verbascion*

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## 6. NATURAL AND SEMI-NATURAL GRASSLAND FORMATIONS

61. **Natural grasslands**

- 6110 \* Rupicolous calcareous or basophilic grasslands of the *Alyso-Sedion albi*
- 6120 \* Xeric sand calcareous grasslands
- 6130 Calaminarian grasslands of the *Violetalia calaminariae*
- 6140 Siliceous Pyrenean *Festuca eskia* grasslands
- 6150 Siliceous alpine and boreal grasslands
- 6160 Oro-Iberian *Festuca indigesta* grasslands
- 6170 Alpine and subalpine calcareous grasslands
- 6180 Macaronesian mesophile grasslands
- 6190 Rupicolous pannonic grasslands (*Stipo-Festucetalia pallentis*)

62. **Semi-natural dry grasslands and scrubland facies**

- 6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (*Festuco-Brometalia*) (\* important orchid sites)
- 6220 \* Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea*
- 6230 \* Species-rich *Nardus* grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Europe)
- 6240 \* Sub-Pannonic steppic grasslands
- 6250 \* Pannonic loess steppic grasslands
- 6260 \* Pannonic sand steppes
- 6270 \* Fennoscandian lowland species-rich dry to mesic grasslands
- 6280 \* Nordic alvar and precambrian calcareous flatrocks
- 62A0 Eastern sub-Mediterranean dry grasslands (*Scorzoneralia villosae*)
- 62B0 \* Serpentinophilous grassland of Cyprus
- 62C0 \* Ponto-Sarmatic steppes
- 62D0 Oro-Moesian acidophilous grasslands

63. **Sclerophyllous grazed forests (dehesas)**

- 6310 Dehesas with evergreen *Quercus* spp.

64. **Semi-natural tall-herb humid meadows**

- 6410 *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinion caeruleae*)
- 6420 Mediterranean tall humid grasslands of the *Molinio-Holoschoenion*

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- 6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels
- 6440 Alluvial meadows of river valleys of the *Cnidion dubii*
- 6450 Northern boreal alluvial meadows
- 6460 Peat grasslands of Troodos
- 65. **Mesophile grasslands**
- 6510 Lowland hay meadows (*Alopecurus pratensis*, *Sanguisorba officinalis*)
- 6520 Mountain hay meadows
- 6530 \* Fennoscandian wooded meadows
- 6540 Sub-Mediterranean grasslands of the *Molinio-Hordeion secalini*

## 7. RAISED BOGS AND MIRES AND FENS

- 71. **Sphagnum acid bogs**
- 7110 \* Active raised bogs
- 7120 Degraded raised bogs still capable of natural regeneration
- 7130 Blanket bogs (\* if active bog)
- 7140 Transition mires and quaking bogs
- 7150 Depressions on peat substrates of the *Rhynchosporion*
- 7160 Fennoscandian mineral-rich springs and springfens
- 72. **Calcareous fens**
- 7210 \* Calcareous fens with *Cladium mariscus* and species of the *Caricion davallianae*
- 7220 \* Petrifying springs with tufa formation (*Cratoneurion*)
- 7230 Alkaline fens
- 7240 \* Alpine pioneer formations of the *Caricion bicoloris-atrofuscae*
- 73. **Boreal mires**
- 7310 \* Aapa mires
- 7320 \* Palsa mires

## 8. ROCKY HABITATS AND CAVES

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

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82. **Rocky slopes with chasmophytic vegetation**
- 8210 Calcareous rocky slopes with chasmophytic vegetation
- 8220 Siliceous rocky slopes with chasmophytic vegetation
- 8230 Siliceous rock with pioneer vegetation of the *Sedo-Scleranthion* or of the *Sedo albi-Veronicion dillenii*
- 8240 \* Limestone pavements
83. **Other rocky habitats**
- 8310 Caves not open to the public
- 8320 Fields of lava and natural excavations
- 8330 Submerged or partially submerged sea caves
- 8340 Permanent glaciers

## 9. FORESTS

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

90. **Forests of Boreal Europe**
- 9010 \* Western Taïga
- 9020 \* Fennoscandian hemiboreal natural old broad-leaved deciduous forests (*Quercus*, *Tilia*, *Acer*, *Fraxinus* or *Ulmus*) rich in epiphytes
- 9030 \* Natural forests of primary succession stages of landupheaval coast
- 9040 Nordic subalpine/subarctic forests with *Betula pubescens* ssp. *czerepanovii*
- 9050 Fennoscandian herb-rich forests with *Picea abies*
- 9060 Coniferous forests on, or connected to, glaciofluvial eskers
- 9070 Fennoscandian wooded pastures
- 9080 \* Fennoscandian deciduous swamp woods
91. **Forests of Temperate Europe**
- 9110 *Luzulo-Fagetum* beech forests
- 9120 Atlantic acidophilous beech forests with *Ilex* and sometimes also *Taxus* in the shrublayer (*Quercion robori-petraeae* or *Ilici-Fagenion*)
- 9130 *Asperulo-Fagetum* beech forests
- 9140 Medio-European subalpine beech woods with *Acer* and *Rumex arifolius*
- 9150 Medio-European limestone beech forests of the *Cephalanthero-Fagion*
- 9160 Sub-Atlantic and medio-European oak or oak-hornbeam forests of the *Carpinion betuli*



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- 9170 *Galio-Carpinetum* oak-hornbeam forests
- 9180 \* *Tilio-Acerion* forests of slopes, screes and ravines
- 9190 Old acidophilous oak woods with *Quercus robur* on sandy plains
- 91A0 Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles
- 91B0 Thermophilous *Fraxinus angustifolia* woods
- 91C0 \* Caledonian forest
- 91D0 \* Bog woodland
- 91E0 \* Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*)
- 91F0 Riparian mixed forests of *Quercus robur*, *Ulmus laevis* and *Ulmus minor*, *Fraxinus excelsior* or *Fraxinus angustifolia*, along the great rivers (*Ulmion minoris*)
- 91G0 \* Pannonic woods with *Quercus petraea* and *Carpinus betulus*
- 91H0 \* Pannonian woods with *Quercus pubescens*
- 91I0 \* Euro-Siberian steppic woods with *Quercus* spp.
- 91J0 \* *Taxus baccata* woods of the British Isles
- 91K0 Illyrian *Fagus sylvatica* forests (*Aremonio-Fagion*)
- 91L0 Illyrian oak-hornbeam forests (*Erythronio-Carpinion*)
- 91M0 Pannonian-Balkan turkey oak — sessile oak forests
- 91N0 \* Pannonic inland sand dune thicket (*Junipero-Populetum albae*)
- 91P0 Holy Cross fir forest (*Abietetum polonicum*)
- 91Q0 Western Carpathian calcicolous *Pinus sylvestris* forests
- 91R0 Dinaric dolomite Scots pine forests (*Genisto januensis-Pinetum*)
- 91S0 \* Western Pontic beech forests
- 91T0 Central European lichen Scots pine forests
- 91U0 Sarmatic steppe pine forest
- 91V0 Dacian Beech forests (*Symphyto-Fagion*)
- 91W0 Moesian beech forests
- 91X0 \* Dobrogean beech forests
- 91Y0 Dacian oak & hornbeam forests
- 91Z0 Moesian silver lime woods
- 91AA \* Eastern white oak woods
- 91BA Moesian silver fir forests
- 91CA Rhodopide and Balkan Range Scots pine forests

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92. **Mediterranean deciduous forests**
- 9210 \* Apeninne beech forests with *Taxus* and *Ilex*
- 9220 \* Apennine beech forests with *Abies alba* and beech forests with *Abies nebrodensis*
- 9230 Galicio-Portuguese oak woods with *Quercus robur* and *Quercus pyrenaica*
- 9240 *Quercus faginea* and *Quercus canariensis* Iberian woods
- 9250 *Quercus trojana* woods
- 9260 *Castanea sativa* woods
- 9270 Hellenic beech forests with *Abies borisii-regis*
- 9280 *Quercus frainetto* woods
- 9290 *Cupressus* forests (*Acero-Cupression*)
- 92A0 *Salix alba* and *Populus alba* galleries
- 92B0 Riparian formations on intermittent Mediterranean water courses with *Rhododendron ponticum*, *Salix* and others
- 92C0 *Platanus orientalis* and *Liquidambar orientalis* woods (*Platanion orientalis*)
- 92D0 Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*)
93. **Mediterranean sclerophyllous forests**
- 9310 Aegean *Quercus brachyphylla* woods
- 9320 *Olea* and *Ceratonia* forests
- 9330 *Quercus suber* forests
- 9340 *Quercus ilex* and *Quercus rotundifolia* forests
- 9350 *Quercus macrolepis* forests
- 9360 \* Macaronesian laurel forests (*Laurus*, *Ocotea*)
- 9370 \* Palm groves of *Phoenix*
- 9380 Forests of *Ilex aquifolium*
- 9390 \* Scrub and low forest vegetation with *Quercus alnifolia*
- 93A0 Woodlands with *Quercus infectoria* (*Anagyro foetidae-Quercetum infectoriae*)
94. **Temperate mountainous coniferous forests**
- 9410 Acidophilous *Picea* forests of the montane to alpine levels (*Vaccinio-Piceetea*)
- 9420 Alpine *Larix decidua* and/or *Pinus cembra* forests
- 9430 Subalpine and montane *Pinus uncinata* forests (\* if on gypsum or limestone)

**▼M4****95. Mediterranean and Macaronesian mountainous coniferous forests**

- 9510 \* Southern Apennine *Abies alba* forests
- 9520 *Abies pinsapo* forests
- 9530 \* (Sub-) Mediterranean pine forests with endemic black pines
- 9540 Mediterranean pine forests with endemic Mesogean pines
- 9550 Canarian endemic pine forests
- 9560 \* Endemic forests with *Juniperus* spp.
- 9570 \* *Tetraclinis articulata* forests
- 9580 \* Mediterranean *Taxus baccata* woods
- 9590 \* *Cedrus brevifolia* forests (*Cedrosetum brevifoliae*)
- 95A0 High oro-Mediterranean pine forests

▼ **M4***ANNEX II***ANIMAL AND PLANT SPECIES OF COMMUNITY INTEREST WHOSE CONSERVATION REQUIRES THE DESIGNATION OF SPECIAL AREAS OF CONSERVATION****Interpretation**

(a) Annex II follows on from Annex I for the establishment of a consistent network of special areas of conservation.

(b) The species listed in this Annex are indicated:

— by the name of the species or subspecies, or

— by all the species belonging to a higher taxon or to a designated part of that taxon.

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

(c) Symbols

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

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

(a) **ANIMALS***VERTEBRATES*

MAMMALS	RODENTIA
INSECTIVORA	Gliridae
Talpidae	<i>Myomimus roachi</i>
<i>Galemys pyrenaicus</i>	Sciuridae
CHIROPTERA	* <i>Marmota marmota latirostris</i>
Rhinolophidae	* <i>Pteromys volans (Sciuropterus russicus)</i>
<i>Rhinolophus blasii</i>	<i>Spermophilus citellus (Citellus citellus)</i>
<i>Rhinolophus euryale</i>	* <i>Spermophilus suslicus (Citellus suslicus)</i>
<i>Rhinolophus ferrumequinum</i>	Castoridae
<i>Rhinolophus hipposideros</i>	<i>Castor fiber</i> (except the Estonian, Latvian, Lithuanian, Finnish and Swedish populations)
<i>Rhinolophus mehelyi</i>	
Vespertilionidae	Cricetidae
<i>Barbastella barbastellus</i>	<i>Mesocricetus newtoni</i>
<i>Miniopterus schreibersii</i>	Microtidae
<i>Myotis bechsteinii</i>	<i>Dinaromys bogdanovi</i>
<i>Myotis blythii</i>	<i>Microtus cabrerai</i>
<i>Myotis capaccinii</i>	* <i>Microtus oeconomus arenicola</i>
<i>Myotis dasycneme</i>	* <i>Microtus oeconomus mehelyi</i>
<i>Myotis emarginatus</i>	<i>Microtus tatricus</i>
<i>Myotis myotis</i>	
Pteropodidae	Zapodidae
<i>Roussettus aegyptiacus</i>	<i>Sicista subtilis</i>

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## 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*

## CETACEA

- Phocoena phocoena*
- Tursiops truncatus*

## REPTILES

## CHELONIA (TESTUDINES)

## Testudinidae

- Testudo graeca*
- Testudo hermanni*
- Testudo marginata*

## Cheloniidae

- \* *Caretta caretta*
- \* *Chelonia mydas*

## Emydidae

- Emys orbicularis*
- Mauremys caspica*
- Mauremys leprosa*

## SAURIA

## Lacertidae

- Dinarolacerta mosorensis*
- Lacerta bonnali* (*Lacerta monticola*)
- Lacerta monticola*
- Lacerta schreiberi*
- Gallotia galloti insulanagae*
- \* *Gallotia simonyi*
- Podarcis lilfordi*
- Podarcis pityusensis*

## Scincidae

- Chalcides simonyi* (*Chalcides occidentalis*)

## Gekkonidae

- Phyllodactylus europaeus*

## OPHIDIA (SERPENTES)

## Colubridae

- \* *Coluber cypriensis*
- Elaphe quatuorlineata*
- Elaphe situla*
- \* *Natrix natrix cypriaca*

## Viperidae

- \* *Macrovipera schweizeri* (*Vipera lebetina schweizeri*)
- Vipera ursinii* (except *Vipera ursinii rako-siensis* and *Vipera ursinii macrops*)
- \* *Vipera ursinii macrops*
- \* *Vipera ursinii rakosiensis*

## AMPHIBIANS

## CAUDATA

## Salamandridae

- Chioglossa lusitanica*

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<i>Mertensiella luschani</i> ( <i>Salamandra luschani</i> )	<i>Lampetra fluviatilis</i> (V) (except the Finnish and Swedish populations)
* <i>Salamandra aurorae</i> ( <i>Salamandra atra aurorae</i> )	<i>Lampetra planeri</i> (o) (except the Estonian, Finnish, and Swedish populations)
<i>Salamandrina terdigitata</i>	<i>Lethenteron zanandreae</i> (V)
<i>Triturus carnifex</i> ( <i>Triturus cristatus carnifex</i> )	<i>Petromyzon marinus</i> (o) (except the Swedish populations)
<i>Triturus cristatus</i> ( <i>Triturus cristatus cristatus</i> )	ACIPENSERIFORMES
<i>Triturus dobrogicus</i> ( <i>Triturus cristatus dobrogicus</i> )	Acipenseridae
<i>Triturus karelinii</i> ( <i>Triturus cristatus karelinii</i> )	* <i>Acipenser naccarii</i>
<i>Triturus montandoni</i>	* <i>Acipenser sturio</i>
<i>Triturus vulgaris ampelensis</i>	CLUPEIFORMES
Proteidae	Clupeidae
* <i>Proteus anguinus</i>	<i>Alosa</i> spp. (V)
Plethodontidae	SALMONIFORMES
<i>Hydromantes (Speleomantes) ambrosii</i>	Salmonidae
<i>Hydromantes (Speleomantes) flavus</i>	<i>Hucho hucho</i> (natural populations) (V)
<i>Hydromantes (Speleomantes) genei</i>	<i>Salmo macrostigma</i> (o)
<i>Hydromantes (Speleomantes) imperialis</i>	<i>Salmo marmoratus</i> (o)
<i>Hydromantes (Speleomantes) strinatii</i>	<i>Salmo salar</i> (only in fresh water) (V) (except the Finnish populations)
<i>Hydromantes (Speleomantes) supra-montis</i>	<i>Salmothymus obtusirostris</i> (o)
ANURA	Coregonidae
Discoglossidae	* <i>Coregonus oxyrhynchus</i> (anadromous populations in certain sectors of the North Sea)
* <i>Alytes muletensis</i>	Umbridae
<i>Bombina bombina</i>	<i>Umbra krameri</i> (o)
<i>Bombina variegata</i>	CYPRINIFORMES
<i>Discoglossus galganoi</i> (including <i>Discoglossus 'jeanneae'</i> )	Cyprinidae
<i>Discoglossus montalentii</i>	<i>Alburnus albidus</i> (o) ( <i>Alburnus vulturius</i> )
<i>Discoglossus sardus</i>	<i>Aulopyge huegelii</i> (o)
Ranidae	<i>Anaecypris hispanica</i>
<i>Rana latastei</i>	<i>Aspius aspius</i> (V) (except the Finnish populations)
Pelobatidae	<i>Barbus comiza</i> (V)
* <i>Pelobates fuscus insubricus</i>	<i>Barbus meridionalis</i> (V)
FISH	<i>Barbus plebejus</i> (V)
PETROMYZONIFORMES	<i>Chalcalburnus chalcoides</i> (o)
Petromyzonidae	<i>Chondrostoma genei</i> (o)
<i>Eudontomyzon</i> spp. (o)	<i>Chondrostoma knerii</i> (o)
	<i>Chondrostoma lusitanicum</i> (o)
	<i>Chondrostoma phoxinus</i> (o)
	<i>Chondrostoma polylepis</i> (o) (including <i>C. willkommii</i> )
	<i>Chondrostoma soetta</i> (o)
	<i>Chondrostoma toxostoma</i> (o)

▼ M4

<i>Gobio albipinnatus</i> (o)	<i>Sabanejewia larvata</i> (o) ( <i>Cobitis larvata</i> and <i>Cobitis conspersa</i> )
<i>Gobio kessleri</i> (o)	
<i>Gobio uranoscopus</i> (o)	SILURIFORMES
<i>Iberocypris palaciosi</i> (o)	Siluridae
* <i>Ladigesocypris ghigii</i> (o)	<i>Silurus aristotelis</i> (V)
<i>Leuciscus lucumonis</i> (o)	ATHERINIFORMES
<i>Leuciscus souffia</i> (o)	Cyprinodontidae
<i>Pelecus cultratus</i> (V)	<i>Aphanius iberus</i> (o)
<i>Phoxinellus spp.</i> (o)	<i>Aphanius fasciatus</i> (o)
* <i>Phoxinus phoxinus</i>	* <i>Valencia hispanica</i>
<i>Rhodeus sericeus amarus</i> (o)	* <i>Valencia letourneuxi</i> ( <i>Valencia hispanica</i> )
<i>Rutilus pigus</i> (V)	PERCIFORMES
<i>Rutilus rubilio</i> (o)	Percidae
<i>Rutilus arcasii</i> (o)	<i>Gymnocephalus baloni</i>
<i>Rutilus macrolepidotus</i> (o)	<i>Gymnocephalus schraetzer</i> (V)
<i>Rutilus lemmingii</i> (o)	* <i>Romanichthys valsanicola</i>
<i>Rutilus frisii meidingeri</i> (V)	<i>Zingel spp.</i> ((o) except <i>Zingel asper</i> and <i>Zingel zingel</i> (V))
<i>Rutilus alburnoides</i> (o)	Gobiidae
<i>Scardinius graecus</i> (o)	<i>Knipowitschia croatica</i> (o)
<i>Squalius microlepis</i> (o)	<i>Knipowitschia (Padogobius) panizzae</i> (o)
<i>Squalius svallize</i> (o)	<i>Padogobius nigricans</i> (o)
Cobitidae	<i>Pomatoschistus canestrini</i> (o)
<i>Cobitis elongata</i> (o)	SCORPAENIFORMES
<i>Cobitis taenia</i> (o) (except the Finnish populations)	Cottidae
<i>Cobitis trichonica</i> (o)	<i>Cottus gobio</i> (o) (except the Finnish populations)
<i>Misgurnus fossilis</i> (o)	<i>Cottus petiti</i> (o)
<i>Sabanejewia aurata</i> (o)	

## INVERTEBRATES

ARTHROPODS	<i>Carabus hungaricus</i>
CRUSTACEA	* <i>Carabus menetriesi pacholei</i>
Decapoda	* <i>Carabus olympiae</i>
<i>Austropotamobius pallipes</i> (V)	<i>Carabus variolosus</i>
* <i>Austropotamobius torrentium</i> (V)	<i>Carabus zawadzskii</i>
Isopoda	<i>Cerambyx cerdo</i>
* <i>Armadillidium ghardalamensis</i>	<i>Corticaria planula</i> (o)
INSECTA	<i>Cucujus cinnaberinus</i>
Coleoptera	<i>Dorcadion fulvum cervae</i>
<i>Agathidium pulchellum</i> (o)	<i>Duvalius gebhardti</i>
<i>Bolbelasmus unicornis</i>	<i>Duvalius hungaricus</i>
<i>Boros schneideri</i> (o)	<i>Dytiscus latissimus</i>
<i>Buprestis splendens</i>	<i>Graphoderus bilineatus</i>
<i>Carabus hampei</i>	

▼ M4

<i>Leptodirus hochenwarti</i>	<i>Euphydryas (Eurodryas, Hypodryas) aurinia</i> (o)
<i>Limniscus violaceus</i> (o)	<i>Glyphipterix loricatella</i>
<i>Lucanus cervus</i> (o)	<i>Gortyna borelii lunata</i>
<i>Macrolea pubipennis</i> (o)	<i>Graellsia isabellae</i> (V)
<i>Mesosa myops</i> (o)	<i>Hesperia comma catena</i> (o)
<i>Morimus funereus</i> (o)	<i>Hypodryas maturna</i>
* <i>Osmoderma eremita</i>	<i>Leptidea morsei</i>
<i>Oxyporus mannerheimii</i> (o)	<i>Lignyopectera fumidaria</i>
<i>Pilemia tigrina</i>	<i>Lycaena dispar</i>
* <i>Phryganophilus ruficollis</i>	<i>Lycaena helle</i>
<i>Probaticus subrugosus</i>	<i>Maculinea nausithous</i>
<i>Propomacrus cypriacus</i>	<i>Maculinea teleius</i>
* <i>Pseudogaurotina excellens</i>	<i>Melanargia arge</i>
<i>Pseudoseriscius cameroni</i>	* <i>Nymphalis vaualbum</i>
<i>Pytho kolwensis</i>	<i>Papilio hospiton</i>
<i>Rhysodes sulcatus</i> (o)	<i>Phyllometra culminaria</i>
* <i>Rosalia alpina</i>	<i>Plebicula golgus</i>
<i>Stephanopachys linearis</i> (o)	<i>Polymixis rufocincta isolata</i>
<i>Stephanopachys substriatus</i> (o)	<i>Polyommatus eroides</i>
<i>Xyletinus tremulicola</i> (o)	<i>Proterebia afra dalmata</i>
Hemiptera	<i>Pseudophilotes bavius</i>
<i>Aradus angularis</i> (o)	<i>Xestia borealis</i> (o)
Lepidoptera	<i>Xestia brunneopicta</i> (o)
<i>Agriades glandon aquilo</i> (o)	* <i>Xylomoia strix</i>
<i>Arytrura musculus</i>	Mantodea
* <i>Callimorpha (Euplagia, Panaxia) quadripunctaria</i> (o)	<i>Apteromantis aptera</i>
<i>Catopta thrips</i>	Odonata
<i>Chondrosoma fiduciarium</i>	<i>Coenagrion hylas</i> (o)
<i>Clossiana improba</i> (o)	<i>Coenagrion mercuriale</i> (o)
<i>Coenonympha oedippus</i>	<i>Coenagrion ornatum</i> (o)
<i>Colias myrmidone</i>	<i>Cordulegaster heros</i>
<i>Cucullia mixta</i>	<i>Cordulegaster trinacriae</i>
<i>Dioszeghyana schmidtii</i>	<i>Gomphus graslinii</i>
<i>Erannis ankeraria</i>	<i>Leucorrhinia pectoralis</i>
<i>Erebia calcaria</i>	<i>Lindenia tetraphylla</i>
<i>Erebia christi</i>	<i>Macromia splendens</i>
<i>Erebia medusa polaris</i> (o)	<i>Ophiogomphus cecilia</i>
<i>Eriogaster catax</i>	<i>Oxygastra curtisii</i>
	Orthoptera
	<i>Baetica ustulata</i>
	<i>Brachytrupes megacephalus</i>
	<i>Isophya costata</i>
	<i>Isophya harzi</i>



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<i>Isophya stysi</i>	<i>Hygromia kovacsi</i>
<i>Myrmecophilus baronii</i>	<i>Idiomela (Helix) subplicata</i>
<i>Odontopodisma rubripes</i>	<i>Lampedusa imitatrix</i>
<i>Paracaloptenus caloptenoides</i>	* <i>Lampedusa melitensis</i>
<i>Pholidoptera transsylvanica</i>	<i>Leiostyla abbreviata</i>
<i>Stenobothrus (Stenobothrodes) eurasius</i>	<i>Leiostyla cassida</i>
ARACHNIDA	<i>Leiostyla corneocostata</i>
Pseudoscorpiones	<i>Leiostyla gibba</i>
<i>Anthrenochernes stellae</i> (o)	<i>Leiostyla lamellosa</i>
MOLLUSCS	* <i>Paladilhia hungarica</i>
GASTROPODA	<i>Sadleriana pannonica</i>
<i>Anisus vorticulus</i>	<i>Theodoxus transversalis</i>
<i>Caseolus calculus</i>	<i>Vertigo angustior</i> (o)
<i>Caseolus commixta</i>	<i>Vertigo genesii</i> (o)
<i>Caseolus sphaerula</i>	<i>Vertigo geyeri</i> (o)
<i>Chilostoma banaticum</i>	<i>Vertigo moulinsiana</i> (o)
<i>Discula leacockiana</i>	BIVALVIA
<i>Discula tabellata</i>	Unionoida
<i>Discus guerinianus</i>	<i>Margaritifera durrovensis (Margaritifera margaritifera)</i> (V)
<i>Elona quimperiana</i>	<i>Margaritifera margaritifera</i> (V)
<i>Geomalacus maculosus</i>	<i>Unio crassus</i>
<i>Geomitra moniziana</i>	Dreissenidae
<i>Gibbula nivosa</i>	<i>Congeria kusceri</i>
* <i>Helicopsis striata austriaca</i> (o)	

(b) **PLANTS**

PTERIDOPHYTA	ISOETACEAE
ASPLENIACEAE	<i>Isoetes boryana</i> Durieu
<i>Asplenium jahandiezii</i> (Litard.) Rouy	<i>Isoetes malinverniana</i> Ces. & De Not.
<i>Asplenium adulterinum</i> Milde	MARSILEACEAE
BLECHNACEAE	<i>Marsilea batardae</i> Launert
<i>Woodwardia radicans</i> (L.) Sm.	<i>Marsilea quadrifolia</i> L.
DICKSONIACEAE	<i>Marsilea strigosa</i> Willd.
<i>Culcita macrocarpa</i> C. Presl	OPHIOGLOSSACEAE
DRYOPTERIDACEAE	<i>Botrychium simplex</i> Hitchc.
<i>Diplazium sibiricum</i> (Turcz. ex Kunze) Kurata	<i>Ophioglossum polyphyllum</i> A. Braun
* <i>Dryopteris corleyi</i> Fraser-Jenk.	GYMNOSPERMAE
<i>Dryopteris fragans</i> (L.) Schott	PINACEAE
HYMENOPHYLLACEAE	* <i>Abies nebrodensis</i> (Lojac.) Mattei
<i>Trichomanes speciosum</i> Willd.	ANGIOSPERMAE
	ALISMATACEAE
	* <i>Alisma wahlenbergii</i> (Holmberg) Juz.

▼ M4*Caldesia parnassifolia* (L.) Parl.*Luronium natans* (L.) Raf.

## AMARYLLIDACEAE

*Leucojum nicaeense* Ard.*Narcissus asturiensis* (Jordan) Pugsley*Narcissus calcicola* Mendonça*Narcissus cyclamineus* DC.*Narcissus fernandesii* G. Pedro*Narcissus humilis* (Cav.) Traub\* *Narcissus nevadensis* Pugsley*Narcissus pseudonarcissus* L. subsp. *nobilis* (Haw.) A. Fernandes*Narcissus scaberulus* Henriq.*Narcissus triandrus* L. subsp. *capax* (Salisb.) D. A. Webb.*Narcissus viridiflorus* Schousboe

## ASCLEPIADACEAE

*Vincetoxicum pannonicum* (Borhidi) Holub

## BORAGINACEAE

\* *Anchusa crispa* Viv.*Echium russicum* J.F.Gemlin\* *Lithodora nitida* (H. Ern) R. Fernandes*Myosotis lusitanica* Schuster*Myosotis rehsteineri* Wartm.*Myosotis retusifolia* R. Afonso*Omphalodes kuzinskyanae* Willk.\* *Omphalodes littoralis* Lehm.\* *Onosma tornensis* Javorka*Solenanthus albanicus* (Degen & al.) Degen & Baldacci\* *Symphytum cycladense* Pawl.

## CAMPANULACEAE

*Adenophora lilifolia* (L.) Ledeb.*Asyneuma giganteum* (Boiss.) Bornm.\* *Campanula bohemica* Hruby\* *Campanula gelida* Kovanda*Campanula romanica* Săvul.\* *Campanula sabatia* De Not.\* *Campanula serrata* (Kit.) Hendrych*Campanula zoysii* Wulfen*Jasione crispa* (Pourret) Samp. subsp. *serpentina* 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 & Szyz.*Dianthus arenarius* L. subsp. *arenarius*\* *Dianthus arenarius* subsp. *bohemicus* (Novak) O. Schwarz*Dianthus cintranus* Boiss. & Reuter subsp. *cintranus* Boiss. & Reuter\* *Dianthus diutinus* Kit.\* *Dianthus lumnitzeri* Wiesb.*Dianthus marizii* (Samp.) Samp.\* *Dianthus moravicus* Kovanda\* *Dianthus nitidus* Waldst. et Kit.*Dianthus plumarius* subsp. *regis-stephani* (Rapcs.) Baksay*Dianthus rupicola* Biv.\* *Gypsophila papillosa* P. Porta*Herniaria algarvica* Chaudhri\* *Herniaria latifolia* Lapeyr. subsp. *litardierei* Gamis*Herniaria lusitanica* (Chaudhri) subsp. *berlengiana* Chaudhri*Herniaria maritima* Link\* *Minuartia smejkalii* Dvorakova*Moehringia jankae* Griseb. ex Janka*Moehringia lateriflora* (L.) Fenzl.*Moehringia tommasinii* Marches.*Moehringia villosa* (Wulfen) Fenzl*Petrocoptis grandiflora* Rothm.*Petrocoptis montsiciana* 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.

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*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. *botnica* A.N. Lundström ex Kindb.

\* *Artemisia granatensis* Boiss.

\* *Artemisia laciniata* Willd.

*Artemisia oelandica* (Besser) Komaror

\* *Artemisia pancicii* (Janka) Ronn.

\* *Aster pyrenaicus* Desf. ex DC

\* *Aster sorrentinii* (Tod) Lojac.

*Carlina onopordifolia* Besser

\* *Carduus myriacanthus* Salzm. ex DC.

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

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

\* *Centaurea akamantis* T. Georgiadis & G. Chatzikyriakou

\* *Centaurea attica* Nyman subsp. *mega-*  
*rensis* (Halacsy & Hayek) Dostal

\* *Centaurea balearica* J.D. Rodriguez

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

\* *Centaurea citricolor* Font Quer

*Centaurea corymbosa* Pourret

*Centaurea gadorensis* G. Blanca

\* *Centaurea horrida* Badaro

*Centaurea immanuelis-loewii* Degen

*Centaurea jankae* Brandza

\* *Centaurea kalambakensis* Freyn & Sint.

*Centaurea kartschiana* Scop.

\* *Centaurea lactiflora* Halacsy

*Centaurea micrantha* Hoffmanns. & Link  
subsp. *herminii* (Rouy) Dostál

\* *Centaurea niederi* Heldr.

\* *Centaurea peucedanifolia* Boiss. & Orph.

\* *Centaurea pinnata* Pau

*Centaurea pontica* Prodan & E.I. Nyárády

*Centaurea pulvinata* (G. Blanca) G. Blanca

*Centaurea rothmalerana* (Arènes) Dostál

*Centaurea vicentina* Mariz

*Cirsium brachycephalum* Juratzka

\* *Crepis crocifolia* Boiss. & Heldr.

*Crepis granatensis* (Willk.) B. Blanca & M. Cueto

*Crepis pusilla* (Sommier) Merxmüller

*Crepis tectorum* L. subsp. *nigrescens*

*Erigeron frigidus* Boiss. ex DC.

\* *Helichrysum melitense* (Pignatti) Brullo et al

*Hymenostemma pseudanthesis* (Kunze) Willd.

*Hyoseris frutescens* Brullo et Pavone

\* *Jurinea cyanooides* (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

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

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

## CONVOLVULACEAE

\* *Convolvulus argyrothamnus* Greuter

\* *Convolvulus fernandesii* Pinto da Silva & Teles

## CRUCIFERAE

*Alyssum pyrenaicum* Lapeyr.

\* *Arabis kennedyae* Meikle

*Arabis sadina* (Samp.) P. Cout.

*Arabis scopoliana* Boiss

\* *Biscutella neustriaca* Bonnet

*Biscutella vincentina* (Samp.) Rothm.

*Boleum asperum* (Pers.) Desvaux

*Brassica glabrescens* Poldini

*Brassica hilarionis* Post

*Brassica insularis* Moris

\* *Brassica macrocarpa* Guss.

*Braya linearis* Rouy

\* *Cochlearia polonica* E. Fröhlich

\* *Cochlearia tatrae* Borbas

\* *Coincya rupestris* Rouy

\* *Coronopus navasii* Pau

*Crambe tataria* Sebeok

\* *Degenia velebitica* (Degen) Hayek

*Diploxys ibicensis* (Pau) Gómez-Campo

\* *Diploxys siettiana* Maire

*Diploxys vicentina* (P. Cout.) Rothm.

*Draba cacuminum* Elis Ekman

*Draba cinerea* Adams

*Draba doreri* Heuffel.

*Erucastrum palustre* (Pirona) Vis.

\* *Erysimum pienicum* (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.

## ▼M4

- 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 dirphyha* (Boiss.) Heldr. ex Halacsy
- \* *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. *lefka-rensis*
- \* *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

## ▼M4

* <i>Androcymbium rechingeri</i> Greuter	<i>Ophrys melitensis</i> (Salkowski) J et P Devillers-Terschuren
* <i>Asphodelus bento-rainhae</i> P. Silva	<i>Platanthera obtusata</i> (Pursh) subsp. <i>oligantha</i> (Turez.) Hulten
* <i>Chionodoxa lochia</i> Meikle in Kew Bull.	OROBANCHACEAE
<i>Colchicum arenarium</i> Waldst. et Kit.	<i>Orobanche densiflora</i> Salzm. ex Reut.
<i>Hyacinthoides vicentina</i> (Hoffmans. & Link) Rothm.	PAEONIACEAE
* <i>Muscari gussonei</i> (Parl.) Tod.	<i>Paeonia cambessedesii</i> (Willk.) Willk.
<i>Scilla litardierei</i> Breist.	<i>Paeonia clusii</i> F.C. Stern subsp. <i>rhodia</i> (Stearn) Tzanoudakis
* <i>Scilla morrisii</i> Meikle	<i>Paeonia officinalis</i> L. subsp. <i>banatica</i> (Rachel) Soo
<i>Tulipa cypria</i> Stapf	<i>Paeonia parnassica</i> Tzanoudakis
<i>Tulipa hungarica</i> Borbas	PALMAE
LINACEAE	<i>Phoenix theophrasti</i> Greuter
* <i>Linum dolomiticum</i> Borbas	PAPAVERACEAE
* <i>Linum muelleri</i> Moris ( <i>Linum maritimum muelleri</i> )	<i>Corydalis gotlandica</i> Lidén
LYTHRACEAE	<i>Papaver laestadianum</i> (Nordh.) Nordh.
* <i>Lythrum flexuosum</i> Lag.	<i>Papaver radicum</i> Rottb. subsp. <i>hyperboreum</i> Nordh.
MALVACEAE	PLANTAGINACEAE
<i>Kosteletzkya pentacarpos</i> (L.) Ledeb.	<i>Plantago algarbiensis</i> Sampaio ( <i>Plantago bracteosa</i> (Willk.) G. Sampaio)
NAJADACEAE	<i>Plantago almogravensis</i> Franco
<i>Najas flexilis</i> (Willd.) Rostk. & W.L. Schmidt	PLUMBAGINACEAE
<i>Najas tenuissima</i> (A. Braun) Magnus	<i>Armeria berlengensis</i> Daveau
OLEACEAE	* <i>Armeria helodes</i> Martini & Pold
<i>Syringa josikaea</i> Jacq. Fil. ex Reichenb.	<i>Armeria neglecta</i> Girard
ORCHIDACEAE	<i>Armeria pseudarmeria</i> (Murray) Mansfeld
<i>Anacamptis urvilleana</i> Sommier et Caruana Gatto	* <i>Armeria rouyana</i> Daveau
<i>Calypso bulbosa</i> L.	<i>Armeria soleirolii</i> (Duby) Godron
* <i>Cephalanthera cucullata</i> Boiss. & Heldr.	<i>Armeria velutina</i> Welw. ex Boiss. & Reuter
<i>Cypripedium calceolus</i> L.	<i>Limonium dodartii</i> (Girard) O. Kuntze subsp. <i>lusitanicum</i> (Daveau) Franco
<i>Dactylorhiza kalopissii</i> E. Nelson	* <i>Limonium insulare</i> (Beg. & Landi) Arrig. & Diana
<i>Gymnigritella runei</i> Teppner & Klein	<i>Limonium lanceolatum</i> (Hoffmans. & Link) Franco
<i>Himantoglossum adriaticum</i> Baumann	<i>Limonium multiflorum</i> Erben
<i>Himantoglossum caprinum</i> (Bieb.) V. Koch	* <i>Limonium pseudolaetum</i> Arrig. & Diana
<i>Liparis loeselii</i> (L.) Rich.	* <i>Limonium strictissimum</i> (Salzmann) Arrig.
* <i>Ophrys kotschyi</i> H.Fleischm. et Soo	POLYGONACEAE
* <i>Ophrys lunulata</i> Parl.	<i>Persicaria foliosa</i> (H. Lindb.) Kitag.
	<i>Polygonum praelongum</i> Coode & Cullen
	<i>Rumex rupestris</i> Le Gall
	PRIMULACEAE
	<i>Androsace mathildae</i> Levier

▼ M4

*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* Gay ( *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. Burt

*Pulsatilla grandis* Wenderoth

*Pulsatilla patens* (L.) Miller

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

\* *Pulsatilla slavica* G. Reuss.

\* *Pulsatilla subslavica* Futak ex Goliasova

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

*Ranunculus kykkoensis* Meikle

*Ranunculus lapponicus* L.

\* *Ranunculus weyleri* Mares

## RESEDACEAE

*Reseda decursiva* Forssk.

## ROSACEAE

*Agrimonia pilosa* Ledebour

*Potentilla delphinensis* Gren. & Godron

*Potentilla emilii-popii* Nyárády

\* *Pyrus magyarica* Terpo

*Sorbus teodorii* Liljefors

## RUBIACEAE

*Galium cracoviense* Ehrend.

\* *Galium litorale* Guss.

*Galium moldavicum* (Dobrescu) Franco

\* *Galium sudeticum* Tausch

\* *Galium viridiflorum* Boiss. & Reuter

## SALICACEAE

*Salix salvifolia* Brot. subsp. *australis* Franco

## SANTALACEAE

*Thesium ebracteatum* Hayne

## SAXIFRAGACEAE

*Saxifraga berica* (Beguinet) 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 ricardoii* 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

▼ M4*Daphne petraea* Leybold\* *Daphne rodriguezii* Texidor

## ULMACEAE

*Zelkova abelicea* (Lam.) Boiss.

## UMBELLIFERAE

\* *Angelica heterocarpa* Lloyd*Angelica palustris* (Besser) Hoffm.\* *Apium bermejoi* Llorens*Apium repens* (Jacq.) Lag.*Athamanta cortiana* Ferrarini\* *Bupleurum capillare* Boiss. & Heldr.\* *Bupleurum kakiskalae* Greuter*Eryngium alpinum* L.\* *Eryngium viviparum* Gay\* *Ferula sadleriana* Lebed.*Hladnikia pastinacifolia* Reichenb.\* *Laserpitium longiradium* Boiss.\* *Naufraga balearica* Constans & Cannon\* *Oenanthe conioides* Lange*Petagnia saniculifolia* Guss.*Rouya polygama* (Desf.) Coincy\* *Seseli intricatum* Boiss.*Seseli leucospermum* Waldst. et Kit*Thorella verticillatinundata* (Thore) Briq.

## VALERIANACEAE

*Centranthus trinervis* (Viv.) Beguinot

## VIOLACEAE

*Viola delphinantha* Boiss.\* *Viola hispida* Lam.*Viola jaubertiana* Mares & Vigineix*Viola rupestris* F.W. Schmidt subsp. *relicta*  
Jalas

## LOWER PLANTS

## BRYOPHYTA

*Bruchia vogesiaca* Schwaegr. (o)*Bryhnia novae-angliae* (Sull & Lesq.)  
Grout (o)\* *Bryoerythrophyllum campylocarpum*  
(C. Müll.) Crum. (*Bryoerythrophyllum*  
*machadoanum* (Sergio) M.O. Hill) (o)*Buxbaumia viridis* (Moug.) Moug. &  
Nestl. (o)*Cephalozia macounii* (Aust.) Aust. (o)*Cynodontium suecicum* (H. Arn. & C.  
Jens.) I. Hag. (o)*Dichelyma capillaceum* (Dicks) Myr. (o)*Dicranum viride* (Sull. & Lesq.) Lindb.  
(o)*Distichophyllum carinatum* Dix. & Nich.  
(o)*Drepanocladus* (*Hamatocaulis*)  
*vernicosus* (Mitt.) Warnst. (o)*Encalypta mutica* (I. Hagen) (o)*Hamatocaulis lapponicus* (Norrh.)  
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



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MARSILEACEAE	<i>Helichrysum monogynum</i> Burt & Sund.
* <i>Marsilea azorica</i> Launert & Paiva	<i>Hypochoeris oligocephala</i> (Svent. & Bramw.) Lack
ANGIOSPERMAE	* <i>Lactuca watsoniana</i> Trel.
ASCLEPIADACEAE	* <i>Onopordum nogalesii</i> Svent.
<i>Caralluma burchardii</i> N. E. Brown	* <i>Onopordum carduelinum</i> Bolle
* <i>Ceropegia chrysantha</i> Svent.	* <i>Pericallis hadrosoma</i> (Svent.) B. Nord.
BORAGINACEAE	<i>Phagnalon benettii</i> Lowe
<i>Echium candicans</i> L. fil.	<i>Stemmacantha cynaroides</i> (Chr. Son. in Buch) Ditt
* <i>Echium gentianoides</i> Webb & Coincy	<i>Sventenia bupleuroides</i> Font Quer
<i>Myosotis azorica</i> H.C. Watson	* <i>Tanacetum ptarmiciflorum</i> Webb & Berth
<i>Myosotis maritima</i> Hochst. in Seub.	
CAMPANULACEAE	CONVOLVULACEAE
* <i>Azorina vidalii</i> (H.C. Watson) Feer	* <i>Convolvulus caput-medusae</i> Lowe
<i>Musschia aurea</i> (L. f.) DC.	* <i>Convolvulus lopez-socasii</i> Svent.
* <i>Musschia wollastonii</i> Lowe	* <i>Convolvulus massonii</i> A. Dietr.
CAPRIFOLIACEAE	CRASSULACEAE
* <i>Sambucus palmensis</i> Link	<i>Aeonium gomeraense</i> Praeger
CARYOPHYLLACEAE	<i>Aeonium saundersii</i> Bolle
<i>Spergularia azorica</i> (Kindb.) Lebel	<i>Aichryson dumosum</i> (Lowe) Praeg.
CELASTRACEAE	<i>Monanthes wildpretii</i> Banares & Scholz
<i>Maytenus umbellata</i> (R. Br.) Mabb.	<i>Sedum brissemoretii</i> Raymond-Hamet
CHENOPODIACEAE	CRUCIFERAE
<i>Beta patula</i> Ait.	* <i>Crambe arborea</i> Webb ex Christ
CISTACEAE	<i>Crambe laevigata</i> DC. ex Christ
<i>Cistus chinamadensis</i> Banares & Romero	* <i>Crambe sventenii</i> R. Petters ex Bramwell & Sund.
* <i>Helianthemum bystropogophyllum</i> Svent.	* <i>Parolinia schizogynoides</i> Svent.
COMPOSITAE	<i>Sinapidendron rupestre</i> (Ait.) Lowe
<i>Andryala crithmifolia</i> Ait.	CYPERACEAE
* <i>Argyranthemum lidii</i> Humphries	<i>Carex malato-belizii</i> Raymond
<i>Argyranthemum thalassophyllum</i> (Svent.) Hump.	DIPSACACEAE
<i>Argyranthemum winterii</i> (Svent.) Humphries	<i>Scabiosa nitens</i> Roemer & J.A. Schultes
* <i>Atractylis arbuscula</i> Svent. & Michaelis	ERICACEAE
<i>Atractylis preauxiana</i> Schultz.	<i>Erica scoparia</i> L. subsp. <i>azorica</i> (Hochst.) D.A. Webb
<i>Calendula maderensis</i> DC.	EUPHORBIACEAE
<i>Cheirolophus duranii</i> (Burchard) Holub	* <i>Euphorbia handiensis</i> Burchard
<i>Cheirolophus ghomerytus</i> (Svent.) Holub	<i>Euphorbia lambii</i> Svent.
<i>Cheirolophus junonianus</i> (Svent.) Holub	<i>Euphorbia stygiana</i> H.C. Watson
<i>Cheirolophus massonianus</i> (Lowe) Hansen & Sund.	GERANIACEAE
<i>Cirsium latifolium</i> Lowe	* <i>Geranium maderense</i> P.F. Yeo
<i>Helichrysum gossypinum</i> Webb	GRAMINEAE
	<i>Deschampsia maderensis</i> (Haeck. & Born.) Buschm.
	<i>Phalaris maderensis</i> (Menezes) Menezes

## ▼M4

## 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 lemnniana* Lowe
- \* *Dorycnium spectabile* Webb & Berthel
- \* *Lotus azoricus* P.W. Ball
- Lotus callis-viridis* D. Bramwell & D. H. Davis
- \* *Lotus kunkelii* (E. Chueca) D. Bramwell & al.
- \* *Teline rosmarinifolia* Webb & Berthel.
- \* *Teline salsoloides* Arco & Acebes.
- Vicia dennesiana* H.C. Watson

## LILIACEAE

- \* *Androcymbium psammophilum* Svent.
- Scilla maderensis* Menezes
- Semele maderensis* Costa

## LORANTHACEAE

- Arceuthobium azoricum* Wiens & Hawksw.

## MYRICACEAE

- \* *Myrica rivis-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

▼ M4

*Oenanthe divaricata* (R. Br.) Mabb.

VIOLACEAE

*Sanicula azorica* Guthnick ex Seub.

*Viola paradoxa* Lowe

LOWER PLANTS

BRYOPHYTA

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

\* *Thamnobryum fernandesii* Sergio (o).

**▼B***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 ► **CI** 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 2: Assessment of the Community importance of the sites included on the national lists**

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.

**▼B**

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 ►**C1** the characteristic or unique ◀ aspect of its features and the way they are combined.

## ▼M4

## ANNEX IV

ANIMAL AND PLANT SPECIES OF COMMUNITY INTEREST IN  
NEED OF STRICT PROTECTION

The species listed in this Annex are indicated:

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

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

## (a) ANIMALS

## VERTEBRATES

MAMMALS	Microtidae
INSECTIVORA	<i>Dinaromys bogdanovi</i>
Erinaceidae	<i>Microtus cabreræ</i>
<i>Erinaceus algirus</i>	<i>Microtus oeconomus arenicola</i>
Soricidae	<i>Microtus oeconomus mehelyi</i>
<i>Crocidura canariensis</i>	<i>Microtus tatricus</i>
<i>Crocidura sicula</i>	Zapodidae
Talpidae	<i>Sicista betulina</i>
<i>Galemys pyrenaicus</i>	<i>Sicista subtilis</i>
MICROCHIROPTERA	Hystricidae
All species	<i>Hystrix cristata</i>
MEGACHIROPTERA	CARNIVORA
Pteropodidae	Canidae
<i>Rousettus aegyptiacus</i>	<i>Alopex lagopus</i>
RODENTIA	<i>Canis lupus</i> (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)
Gliridae	
All species except <i>Glis glis</i> and <i>Eliomys quercinus</i>	
Sciuridae	Ursidae
<i>Marmota marmota latirostris</i>	<i>Ursus arctos</i>
<i>Pteromys volans (Sciuropterus ruscicus)</i>	
<i>Spermophilus citellus (Citellus citellus)</i>	Mustelidae
<i>Spermophilus suslicus (Citellus suslicus)</i>	<i>Lutra lutra</i>
<i>Sciurus anomalus</i>	<i>Mustela eversmannii</i>
Castoridae	<i>Mustela lutreola</i>
<i>Castor fiber</i> (except the Estonian, Latvian, Lithuanian, Polish, Finnish and Swedish populations)	<i>Vormela peregusna</i>
Cricetidae	Felidae
<i>Cricetus cricetus</i> (except the Hungarian populations)	<i>Felis silvestris</i>
<i>Mesocricetus newtoni</i>	<i>Lynx lynx</i> (except the Estonian population)
	<i>Lynx pardinus</i>

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Phocidae	<i>Dalmatolacerta oxycephala</i>
<i>Monachus monachus</i>	<i>Dinarolacerta mosorensis</i>
<i>Phoca hispida saimensis</i>	<i>Gallotia atlantica</i>
ARTIODACTYLA	<i>Gallotia galloti</i>
Cervidae	<i>Gallotia galloti insulanagae</i>
<i>Cervus elaphus corsicanus</i>	<i>Gallotia simonyi</i>
Bovidae	<i>Gallotia stehlini</i>
<i>Bison bonasus</i>	<i>Lacerta agilis</i>
<i>Capra aegagrus</i> (natural populations)	<i>Lacerta bedriagae</i>
<i>Capra pyrenaica pyrenaica</i>	<i>Lacerta bonnali (Lacerta monticola)</i>
<i>Ovis gmelini musimon (Ovis ammon musimon)</i> (natural populations – Corsica and Sardinia)	<i>Lacerta monticola</i>
<i>Ovis orientalis ophion (Ovis gmelini ophion)</i>	<i>Lacerta danfordi</i>
<i>Rupicapra pyrenaica ornata (Rupicapra rupicapra ornata)</i>	<i>Lacerta dugesi</i>
<i>Rupicapra rupicapra balcanica</i>	<i>Lacerta graeca</i>
<i>Rupicapra rupicapra tatica</i>	<i>Lacerta horvathi</i>
CETACEA	<i>Lacerta schreiberi</i>
All species	<i>Lacerta trilineata</i>
REPTILES	<i>Lacerta viridis</i>
TESTUDINATA	<i>Lacerta vivipara pannonica</i>
Testudinidae	<i>Ophisops elegans</i>
<i>Testudo graeca</i>	<i>Podarcis erhardii</i>
<i>Testudo hermanni</i>	<i>Podarcis filfolensis</i>
<i>Testudo marginata</i>	<i>Podarcis hispanica atrata</i>
Cheloniidae	<i>Podarcis lilfordi</i>
<i>Caretta caretta</i>	<i>Podarcis melisellensis</i>
<i>Chelonia mydas</i>	<i>Podarcis milensis</i>
<i>Lepidochelys kempii</i>	<i>Podarcis muralis</i>
<i>Eretmochelys imbricata</i>	<i>Podarcis peloponnesiaca</i>
Derموchelyidae	<i>Podarcis pityusensis</i>
<i>Derموchelys coriacea</i>	<i>Podarcis sicula</i>
	<i>Podarcis taurica</i>
	<i>Podarcis tiliguerta</i>
	<i>Podarcis wagleriana</i>
	Scincidae
	<i>Ablepharus kitaibelii</i>
	<i>Chalcides bedriagai</i>
	<i>Chalcides ocellatus</i>
	<i>Chalcides sexlineatus</i>
	<i>Chalcides simonyi (Chalcides occidentalis)</i>
	<i>Chalcides viridianus</i>
	<i>Ophiomorus punctatissimus</i>
	Gekkonidae
	<i>Cyrtopodion kotschyi</i>
	<i>Phyllodactylus europaeus</i>
SAURIA	
Lacertidae	
<i>Algyroides fitzingeri</i>	
<i>Algyroides marchi</i>	
<i>Algyroides moreoticus</i>	
<i>Algyroides nigropunctatus</i>	

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	<i>Tarentola angustimentalis</i>	<i>Euproctus asper</i>
	<i>Tarentola boettgeri</i>	<i>Euproctus montanus</i>
	<i>Tarentola delalandii</i>	<i>Euproctus platycephalus</i>
	<i>Tarentola gomerensis</i>	<i>Mertensiella luschani (Salamandra luschani)</i>
Agamidae		<i>Salamandra atra</i>
	<i>Stellio stellio</i>	<i>Salamandra aurorae</i>
Chamaeleontidae		<i>Salamandra lanzai</i>
	<i>Chamaeleo chamaeleon</i>	<i>Salamandrina terdigitata</i>
Anguidae		<i>Triturus carnifex (Triturus cristatus carnifex)</i>
	<i>Ophisaurus apodus</i>	<i>Triturus cristatus (Triturus cristatus cristatus)</i>
OPHIDIA		<i>Triturus italicus</i>
Colubridae		<i>Triturus karelinii (Triturus cristatus karelinii)</i>
	<i>Coluber caspius</i>	<i>Triturus marmoratus</i>
	<i>Coluber cypriensis</i>	<i>Triturus montandoni</i>
	<i>Coluber hippocrepis</i>	<i>Triturus vulgaris ampelensis</i>
	<i>Coluber jugularis</i>	Proteidae
	<i>Coluber laurenti</i>	<i>Proteus anguinus</i>
	<i>Coluber najadum</i>	Plethodontidae
	<i>Coluber nummifer</i>	<i>Hydromantes (Speleomantes) ambrosii</i>
	<i>Coluber viridiflavus</i>	<i>Hydromantes (Speleomantes) flavus</i>
	<i>Coronella austriaca</i>	<i>Hydromantes (Speleomantes) genei</i>
	<i>Eirenis modesta</i>	<i>Hydromantes (Speleomantes) imperialis</i>
	<i>Elaphe longissima</i>	<i>Hydromantes (Speleomantes) strinatii (Hydromantes (Speleomantes) italicus)</i>
	<i>Elaphe quatuorlineata</i>	<i>Hydromantes (Speleomantes) supramontis</i>
	<i>Elaphe situla</i>	ANURA
	<i>Natrix natrix cetti</i>	Discoglossidae
	<i>Natrix natrix corsa</i>	<i>Alytes cisternasii</i>
	<i>Natrix natrix cypriaca</i>	<i>Alytes muletensis</i>
	<i>Natrix tessellata</i>	<i>Alytes obstetricans</i>
	<i>Telescopus falax</i>	<i>Bombina bombina</i>
Viperidae		<i>Bombina variegata</i>
	<i>Vipera ammodytes</i>	<i>Discoglossus galganoi (including Discoglossus 'jeanneae')</i>
	<i>Macrovipera schweizeri (Vipera lebetina schweizeri)</i>	<i>Discoglossus montalentii</i>
	<i>Vipera seoanni (except Spanish populations)</i>	<i>Discoglossus pictus</i>
	<i>Vipera ursinii</i>	<i>Discoglossus sardus</i>
	<i>Vipera xanthina</i>	Ranidae
Boidae		<i>Rana arvalis</i>
	<i>Eryx jaculus</i>	<i>Rana dalmatina</i>
AMPHIBIANS		<i>Rana graeca</i>
CAUDATA		<i>Rana iberica</i>
Salamandridae		<i>Rana italica</i>
	<i>Chioglossa lusitanica</i>	<i>Rana latastei</i>



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	<i>Rana lessonae</i>	SALMONIFORMES
Pelobatidae		Coregonidae
	<i>Pelobates cultripes</i>	<i>Coregonus oxyrhynchus</i> (anadromous populations in certain sectors of the North Sea, except the Finnish populations)
	<i>Pelobates fuscus</i>	
	<i>Pelobates syriacus</i>	
Bufonidae		CYPRINIFORMES
	<i>Bufo calamita</i>	Cyprinidae
	<i>Bufo viridis</i>	<i>Anaecypris hispanica</i>
Hylidae		<i>Phoxinus phoxinus</i>
	<i>Hyla arborea</i>	
	<i>Hyla meridionalis</i>	ATHERINIFORMES
	<i>Hyla sarda</i>	Cyprinodontidae
FISH		<i>Valencia hispanica</i>
ACIPENSERIFORMES		PERCIFORMES
Acipenseridae		Percidae
	<i>Acipenser naccarii</i>	<i>Gymnocephalus baloni</i>
	<i>Acipenser sturio</i>	<i>Romanichthys valsanicola</i>
		<i>Zingel asper</i>
		INVERTEBRATES
ARTHROPODS		<i>Propomacrus cypriacus</i>
CRUSTACEA		<i>Pseudogaurotina excellens</i>
Isopoda		<i>Pseudoseriscius cameroni</i>
	<i>Armadillidium ghardalensis</i>	<i>Pytho kolwensis</i>
INSECTA		<i>Rosalia alpina</i>
Coleoptera		Lepidoptera
	<i>Bolbelasmus unicornis</i>	<i>Apatura metis</i>
	<i>Buprestis splendens</i>	<i>Arytrura musculus</i>
	<i>Carabus hampei</i>	<i>Catopta thrips</i>
	<i>Carabus hungaricus</i>	<i>Chondrosoma fiduciarium</i>
	<i>Carabus olympiae</i>	<i>Coenonympha hero</i>
	<i>Carabus variolosus</i>	<i>Coenonympha oedippus</i>
	<i>Carabus zawadzskii</i>	<i>Colias myrmidone</i>
	<i>Cerambyx cerdo</i>	<i>Cucullia mixta</i>
	<i>Cucujus cinnaberinus</i>	<i>Dioszeghyana schmidtii</i>
	<i>Dorcadion fulvum cervae</i>	<i>Erannis ankeraria</i>
	<i>Duvalius gebhardti</i>	<i>Erebia calcaria</i>
	<i>Duvalius hungaricus</i>	<i>Erebia christi</i>
	<i>Dytiscus latissimus</i>	<i>Erebia sudetica</i>
	<i>Graphoderus bilineatus</i>	<i>Eriogaster catax</i>
	<i>Leptodirus hochenwarti</i>	<i>Fabriciana elisa</i>
	<i>Pilemia tigrina</i>	<i>Glyphipterix loricatella</i>
	<i>Osmoderma eremita</i>	<i>Gortyna borelii lunata</i>
	<i>Phryganophilus ruficollis</i>	<i>Hypodryas maturna</i>
	<i>Probaticus subrugosus</i>	<i>Hyles hippophaes</i>

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	<i>Leptidea morsei</i>	<i>Isophya stysi</i>
	<i>Lignyopectera fumidaria</i>	<i>Myrmecophilus baronii</i>
	<i>Lopinga achine</i>	<i>Odontopodisma rubripes</i>
	<i>Lycaena dispar</i>	<i>Paracaloptenus caloptenoides</i>
	<i>Lycaena helle</i>	<i>Pholidoptera transsylvanica</i>
	<i>Maculinea arion</i>	<i>Saga pedo</i>
	<i>Maculinea nausithous</i>	<i>Stenobothrus (Stenobothrodes) eurasius</i>
	<i>Maculinea teleius</i>	ARACHNIDA
	<i>Melanargia arge</i>	Araneae
	<i>Nymphalis vaualbum</i>	<i>Macrothele calpeiana</i>
	<i>Papilio alexanor</i>	MOLLUSCS
	<i>Papilio hospiton</i>	GASTROPODA
	<i>Parnassius apollo</i>	<i>Anisus vorticulus</i>
	<i>Parnassius mnemosyne</i>	<i>Caseolus calculus</i>
	<i>Phyllometra culminaria</i>	<i>Caseolus commixta</i>
	<i>Plebicula golgus</i>	<i>Caseolus sphaerula</i>
	<i>Polymixis rufocincta isolata</i>	<i>Chilostoma banaticum</i>
	<i>Polyommatus eroides</i>	<i>Discula leacockiana</i>
	<i>Proserpinus proserpina</i>	<i>Discula tabellata</i>
	<i>Proterebia afra dalmata</i>	<i>Discula testudinalis</i>
	<i>Pseudophilotes bavius</i>	<i>Discula turricula</i>
	<i>Xylomoia strix</i>	<i>Discus defloratus</i>
	<i>Zerynthia polyxena</i>	<i>Discus guerinianus</i>
Mantodea		<i>Elona quimperiana</i>
	<i>Apteromantis aptera</i>	<i>Geomalacus maculosus</i>
Odonata		<i>Geomitra moniziana</i>
	<i>Aeshna viridis</i>	<i>Gibbula nivosa</i>
	<i>Cordulegaster heros</i>	<i>Hygromia kovacsi</i>
	<i>Cordulegaster trinacriae</i>	<i>Idiomela (Helix) subplicata</i>
	<i>Gomphus graslinii</i>	<i>Lampedusa imitatrix</i>
	<i>Leucorrhinia albifrons</i>	<i>Lampedusa melitensis</i>
	<i>Leucorrhinia caudalis</i>	<i>Leiostyla abbreviata</i>
	<i>Leucorrhinia pectoralis</i>	<i>Leiostyla cassida</i>
	<i>Lindenia tetraphylla</i>	<i>Leiostyla corneocostata</i>
	<i>Macromia splendens</i>	<i>Leiostyla gibba</i>
	<i>Ophiogomphus cecilia</i>	<i>Leiostyla lamellosa</i>
	<i>Oxygastra curtisii</i>	<i>Paladilhia hungarica</i>
	<i>Stylurus flavipes</i>	<i>Patella ferruginea</i>
	<i>Sympecma braueri</i>	<i>Sadleriana pannonica</i>
Orthoptera		<i>Theodoxus prevostianus</i>
	<i>Baetica ustulata</i>	<i>Theodoxus transversalis</i>
	<i>Brachytrupes megacephalus</i>	BIVALVIA
	<i>Isophya costata</i>	Anisomyaria
	<i>Isophya harzi</i>	<i>Lithophaga lithophaga</i>

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<i>Pinna nobilis</i>	Dreissenidae
Unionoidea	<i>Congerius kusceri</i>
<i>Margaritifera auricularia</i>	ECHINODERMATA
<i>Unio crassus</i>	Echinoidea
	<i>Centrostephanus longispinus</i>

(b) **PLANTS**

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

PTERIDOPHYTA	GESNERIACEAE
ASPLENIACEAE	<i>Jankaea heldreichii</i> (Boiss.) Boiss.
<i>Asplenium hemionitis</i> L.	<i>Ramonda serbica</i> Pancic
ANGIOSPERMAE	IRIDACEAE
AGAVACEAE	<i>Crocus etruscus</i> Parl.
<i>Dracaena draco</i> (L.) L.	<i>Iris boissieri</i> Henriq.
AMARYLLIDACEAE	<i>Iris marisca</i> Ricci & Colasante
<i>Narcissus longispathus</i> Pugsley	LABIATAE
<i>Narcissus triandrus</i> L.	<i>Rosmarinus tomentosus</i> Huber-Morath & Maire
BERBERIDACEAE	<i>Teucrium charidemi</i> Sandwith
<i>Berberis maderensis</i> Lowe	<i>Thymus capitellatus</i> Hoffmanns. & Link
CAMPANULACEAE	<i>Thymus villosus</i> L. subsp. <i>villosus</i> L.
<i>Campanula morettiana</i> Reichenb.	LILIACEAE
<i>Physoplexis comosa</i> (L.) Schur.	<i>Androcymbium europaeum</i> (Lange) K. Richter
CARYOPHYLLACEAE	<i>Bellevalia hackelli</i> Freyn
<i>Moehringia fontqueri</i> Pau	<i>Colchicum corsicum</i> Baker
COMPOSITAE	<i>Colchicum cousturieri</i> Greuter
<i>Argyranthemum pinnatifidum</i> (L.f.) Lowe subsp. <i>succulentum</i> (Lowe) C. J. Humphries	<i>Fritillaria conica</i> Rix
<i>Helichrysum sibthorpii</i> Rouy	<i>Fritillaria drenovskii</i> Degen & Stoy.
<i>Picris willkommii</i> (Schultz Bip.) Nyman	<i>Fritillaria gussichiae</i> (Degen & Doerfler) Rix
<i>Santolina elegans</i> Boiss. ex DC.	<i>Fritillaria obliqua</i> Ker-Gawl.
<i>Senecio caespitosus</i> Brot.	<i>Fritillaria rhodocanakis</i> Orph. ex Baker
<i>Senecio lagascanus</i> DC. subsp. <i>lusitanicus</i> (P. Cout.) Pinto da Silva	<i>Ornithogalum reverchonii</i> Degen & Herv.-Bass.
<i>Wagenitzia lancifolia</i> (Sieber ex Sprengel) Dostal	<i>Scilla beirana</i> Samp.
CRUCIFERAE	<i>Scilla odorata</i> Link
<i>Murbeckiella sousae</i> Rothm.	ORCHIDACEAE
EUPHORBIACEAE	<i>Ophrys argolica</i> Fleischm.
<i>Euphorbia nevadensis</i> Boiss. & Reuter	<i>Orchis scopulorum</i> Simsmerh.
	<i>Spiranthes aestivalis</i> (Poiret) L.C.M. Richard
	PRIMULACEAE
	<i>Androsace cylindrica</i> DC.

(\*) Except bryophytes in Annex II (b).

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<i>Primula glaucescens</i> Moretti	SCROPHULARIACEAE
<i>Primula spectabilis</i> Tratt.	<i>Antirrhinum lopesianum</i> Rothm.
RANUNCULACEAE	<i>Lindernia procumbens</i> (Krocker) Philcox
<i>Aquilegia alpina</i> L.	SOLANACEAE
SAPOTACEAE	<i>Mandragora officinarum</i> L.
<i>Sideroxylon marmulano</i> Banks ex Lowe	THYMELAEACEAE
SAXIFRAGACEAE	<i>Thymelaea broterana</i> P. Cout.
<i>Saxifraga cintrana</i> Kuzinsky ex Willk.	UMBELLIFERAE
<i>Saxifraga portosanctana</i> Boiss.	<i>Bunium brevifolium</i> Lowe
<i>Saxifraga presolanensis</i> Engl.	VIOLACEAE
<i>Saxifraga valdensis</i> DC.	<i>Viola athis</i> W. Becker
<i>Saxifraga vayredana</i> Luizet	<i>Viola cazorlensis</i> Gandoger

▼ **M3***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

*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*

**▼ M3****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*

*Lethenteron 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*

▼ **M3****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

*Astacus astacus**Austropotamobius pallipes**Austropotamobius torrentium*

## Scyllaridae

*Scyllarides latus***INSECTA — LEPIDOPTERA**

## Saturniidae

*Graellsia isabellae***(b) PLANTS****ALGAE****RHODOPHYTA**

**▼ M3**

## CORALLINACEAE

*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



▼ **M3**

## 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**

## MAMMALS

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