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CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE AND NATURAL HABITATS

Group of Experts on Protected Areas and Ecological Networks

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THE EMERALD NETWORK A NETWORK OF AREAS OF SPECIAL CONSERVATION INTEREST FOR EUROPE

INFORMATION DOCUMENT

Document established by the Directorate of Culture and Cultural and Natural Heritage

This document will not be distributed at the meeting. Please bring this copy. Ce document ne sera plus distribué en réunion. Prière de vous munir de cet exemplaire. This document explains how the Emerald Network was born, its characteristics, its reach and development, and its relation with Natura 2000 and the Pan-European Ecological Network.

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1. Introduction

In June 1989 the Standing Committee of the Bern Convention held an extraordinary meeting exclusively devoted to habitat conservation within the Convention. At the meeting the Committee adopted an interpretative resolution [Resolution No. 1 (1989) on the provisions relating to the conservation of habitats] and three operative recommendations [Recommendations Nos. 14, 15 and 16 (1989)] aimed at the development of a network of areas under the Convention. A further recommendation [Recommendation No. 25 (1991) on the conservation of natural areas outside protected areas proper] was adopted at a later meeting of the Committee. All relevant resolutions and recommendations mentioned in this paper appear in its appendices.

In Recommendation No. 16 (1989) "on Areas of Special Conservation Interest" (ASCIs), the Standing Committee recommended Parties to "take steps to designate Areas of Special Conservation Interest to ensure that the necessary and appropriate conservation measures are taken for each area situated within their territory or under their responsibility where that area fits one or several of the following conditions..." (a list of conditions followed).

The Committee had wished that all these recommendations on habitat conservation be rapidly implemented by Contracting Parties but two major events delayed their implementation. The first was the fundamental change in the political map of Europe that followed the fall of the Berlin wall in October 1989. The Bern Convention had to change its priorities from the building of a network of areas to the extension of the Convention to the new democracies of Central and Eastern Europe. The second was the preparation, at the European Community, of a legal instrument aimed at implementing the Bern Convention within the Community. (As any other Contracting Party to the Convention, the European Community had the obligation to take "the appropriate and necessary legislative and administrative measures" to implement the Convention.) The legal instrument was finalised in May 1992 and was called the "Directive on the conservation of natural habitats and of wild fauna and flora". Happily, that text did not simply take the text of the Bern Convention, but went much further in developing the obligations on habitat protection (so much that it is now best known as the "Habitats Directive"). The Habitats Directive created "a coherent European ecological network of special areas of conservation ... to be set up under the title of Natura 2000".

In order to assure coherence between the network of Areas of Special Conservation Interest (ASCIs) to be designated under the Bern Convention and the network of Special Areas of Conservation (SACs) designated under the Habitats Directive, the Standing Committee to the Convention thought preferable to wait for the establishment of the proper mechanism by the Directive. In January 1996, a sufficient number of States of Central and Eastern Europe had become Parties to the Convention and were requesting the development of the network of ASCIs. The Standing Committee, realising this wish and noting that the Habitats Directive was already sufficiently advanced in its work to build Natura 2000, decided to adopt its Resolution No. 3 (1996), in which it resolved to "set up a network (Emerald Network) which would include the Areas of Special Conservation Interest designated following its Recommendation No. 16"; it furthermore "encouraged Contracting Parties and observer states to designate Areas of Special Conservation Interest and to notify them to the Secretariat". Resolution No. 3 (1996) was, in a sense, a second act of birth of the network, after its first creation in 1989. More precisely it was an act of baptism as the network had not been given a name in 1989 and it had proved rather awkward to promote a network under the name of "network to develop Recommendation No. 16 (1989) of the Standing Committee of the Convention on areas of special conservation interest". Short names have advantages.

2. Legal support of the Emerald Network

The Bern Convention does not deal exclusively with the protection of species. Articles 1, 2, 3, 4, 6 and 9 of the Convention deal with the protection of natural habitats, in particular:

- Habitats of the wild flora and fauna species (specially those in Appendices I and II);
- Endangered natural habitats;
- Areas of importance for migratory species.

Relevant texts of the Convention and the Standing Committee concerning protection of natural habitats are appended to this document.

The Emerald Network was created by virtue of Recommendation No. 16 (1989) Resolution No. 3 (1996) and thus benefits from the "soft law" approach characteristic of recommendations. Nevertheless, the obligations to protect the habitats of species and endangered natural habitats are not "soft law" but rather strict obligations clearly marked in the Convention, and forming part of international law. The Standing Committee recommended Contracting Parties to implement their obligations regarding natural habitats through the taking of a number of measures, among which the designation of the Areas of Special Conservation Interest (ASCIs) that form the Emerald Network. Obviously obligations under the Bern Convention can only be requested from Contracting Parties. Other European states were "invited" to participate in the exercise. As for member States of the European Union (which are all Contracting Parties to the Convention), Resolution No 5 (1998) concerning the Rules for the Network of Areas of Special Conservation Interest stipulates that "for contracting parties which are Member States of the European Union Emerald Network sites are those of the Natura 2000".

3. Areas of special conservation interest (ASCIs)

What are Areas of special conservation interest?

Recommendation No. 16 defines Areas of Special Conservation Interest as those designated by states where that area fits one or several of the following conditions:

- a. it contributes substantially to the survival of threatened species, endemic species, or any species listed in Appendices I and II of the convention;
- b. it supports significant numbers of species in an area of high species diversity or supports important populations of one or more species;
- c. it contains an important and/or representative sample of endangered habitat types;
- d. it contains an outstanding example of a particular habitat type or a mosaic of different habitat types;
- e. it represents an important area for one or more migratory species;
- f. it otherwise contributes substantially to the achievement of the objectives of the convention.

It must be stressed that for Contracting Parties which are member States of the European Union the procedures established in the Birds Directive and Habitats Directive will be those to apply so that criteria for choice of those areas will be those of the Directive (which are largely the same criteria anyway).

The conditions above point clearly towards areas of a great ecological value for both the threatened and endemic species listed in the Appendices of the Bern Convention and for the endangered habitat types which have been identified by the Standing Committee as "requiring specific conservation measures".

The Emerald Network would thus not be simply a box, into which any type of protected area can be put, or a mere collection of areas designated under other schemes. Its coherence – much like that of Natura 2000 – comes from the limited criteria for choice: they have to be important and contribute substantially (the adjective is important!) to the objectives of the Convention.

Which States may designate ASCIs?

Resolution No. 3 (1996) encourages "Contracting Parties and observer states to designate ASCIs" and to notify them to the Secretariat.

The following 45 European States are Contracting Parties to the Convention:

Albania, Andorra, Armenia, Austria, Azerbaijan, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, 'The former Yugoslav Republic of Macedonia', Turkey, Ukraine, United Kingdom;

The following 4 European states have the status of observer at the meetings of the Standing Committee: Belarus, Holy See, the Russian Federation, San Marino.

The participation of non-European Parties in the Emerald Network was decided by the Standing Committee in 1998. Four African states are Contracting Parties to the Convention: Burkina Faso, Morocco, Tunisia and Senegal. This raises to 53 the number of States, which may participate in the Emerald Network.

The participation of States, which are not yet Contracting Parties, is not only possible, but highly desirable. Resolution No. 3 (1996) invites "European states, which are observer States in the Standing Committee of the Bern Convention, to participate in the network and designate ASCIs".

Resolution No. 5 (1998) establishes that for Contracting Parties that are member States of the European Union, Emerald Network sites are those of the Natura 2000. Indeed no further action would be expected from them, the Natura 2000 network having identical objectives (and a more solid legal basis) to those of the Emerald Network. In this respect, the full and thorough implementation of the Habitats Directive is contemplated as a necessary and fundamental step into the achievement of the common goals it shares with the Bern Convention, both concerning the protection of natural habitats and the conservation of wild flora and fauna.

What are the duties of states concerning the status and management of ASCIs?

Once ASCIs have been designated by the states, that is not the end of the Emerald Network, but rather the start, as states are recommended to take a number of steps (by legislation or otherwise), to ensure that ASCIs are properly managed. They are asked in Recommendation No. 16 (1989) to "ensure, wherever possible that":

- a. ASCIs "are the subject of an appropriate regime, designed to achieve the conservation of the factors" responsible for the designation of the area;
- b. "the agencies responsible for the designation and/or management and/or conservation of ASCIs have available to it sufficient manpower, training, equipment and resources (including financial resources) to enable them properly to manage, conserve and survey the areas;
- c. Appropriate ecological and other research is conducted, in a properly co-ordinated fashion, with a view to furthering the understanding of the critical elements in the management of ASCIs and to monitoring the status of the factors giving rise to their designation and conservation;
- d. Activities taking place adjacent to such areas or within their vicinity do not adversely affect the factors giving rise to the designation and conservation of those sites."

Furthermore, the States are recommended to take steps, as appropriate, in respect of ASCIs to:

- "a. Draw up and implement management plans which will identify both short- and long-term objectives (such management plans can relate to individual areas or to a collection of areas such as heathlands);
- b. Regularly review the terms of the management plans in the light of changing conditions or of increased scientific knowledge;
- c. Clearly mark the boundaries of ASCIs on maps and, as far as possible, on the ground;
- d. Advise the competent authorities and landowners of the extent of ASCIs and their characteristics;
- e. Provide for the monitoring of ASCIs and especially of the factors for which their conservation is important."

It is obvious from the paragraphs above that states are invited to pay much conservation attention to ASCIs. There is, however, no precise recommendation to give legal protection to ASCIs, the Standing Committee having preferred to keep a supple wording and having recommended that the areas "be subject to the appropriate regime". As usual the Standing Committee was more interested by the achievement of conservation results than by a particular "area protection" procedure. Some systems may work very well without strong legal obligations attached. In any case the Standing Committee asked states to look into the matter of the protection of ASCIs and the last point of Recommendation No. 16 reads as follows:

The Standing Committee recommends that Contracting Parties:

"5. Determine those areas which remain inadequately provided for under existing mechanisms and improve the conservation status of such areas, using whatever mechanisms are appropriate in order to meet the requirements of the convention."

Resolution No. 5 has a more precise wording: "The governments are asked to inform the Secretariat of any important changes likely to affect negatively in a substantial way the ecological character of the designated ASCIs or the conditions having justified their designation. Where any such changes come to light, the Standing Committee may advise the government concerned on steps to be taken to ensure conformity with the provisions of Recommendation No.16 (1989)".

Building the Emerald Network is designed to be a dynamic process, which will need regular updates of the information contained and the way the states comply with the recommendation. Parragraph 2 of Recommendation No. 16 invites states to "review regularly or continually in a systematic fashion their performance in the implementation of [the designation of ASCIs]."

How are ASCIs designated?

Resolution No. 3 (1996), Recommendation No. 16 (1989) and Resolution No. 5 (1998) provide the fundamental basis for the designation of ASCIs. They encourage Contracting Parties and observer States "to designate ASCIs and to notify them to the Secretariat". Thus the responsibility for designating ASCIs lies with the government of the States concerned. As for the technical details, it is worth noting that Resolution No. 3 created "a group of experts to carry out the necessary activities related to the building up of the network".

The Group of experts has agreed in principle that the designation process would be done in such a way that it would be compatible with that of the Natura 2000 Network. Resolution No.5 (1998) establishes the procedure, which the governments should follow in designation of sites for the Emerald network.

In order to designate an ASCI, any government should deposit a standard Data Form with the Secretariat of the Council of Europe, that will register the designation. A Standard data form is based on the database designated for Natura 2000. The data has been modified to cover the larger geographical area and more numerous species of the Bern Convention. The forms can be filled in electronically and the software allows for the semi-automatic transfer of information gathered by other projects such as the CORINE-biotopes programme.

In accordance with the 'Rules for the Emerald Network', the Standing Committee has the right to advise the government concerned to designate one or more areas of particular interest to the Network. If a government designates an area, which does not meet the criteria, the Standing Committee may advice the government to withdraw the designation. If the government nevertheless maintains the designation, the Standing Committee may decide not to accept it.

The Standing Committee thought that, for the designation of ASCIs and for the protection of natural habitats, it was necessary to reinforce the work that Contracting Parties were carrying out in habitat protection. Thus, it decided to ask Parties (in Recommendation No. 14 (1989)) to:

- "1. Identify in the areas within their jurisdiction:
 - a. Species requiring specific habitat conservation measures;
 - b. Endangered natural habitats requiring specific conservation measures;
 - c. Migratory species requiring specific habitat conservation measures;
 - d. Species of which the breeding and/or resting sites require protection and their breeding and for each of these categories to indicate, as far as possible, their sites".

Although the above tasks were addressed to Contracting Parties, the Standing Committee decided, after 1989, to prepare, for the whole of Europe lists for points *a*, *b*, *c* and *d* above.

In December 1996 the Standing Committee adopted Resolution No. 4 identifying endangered natural habitats (point *b*. above) requiring specific conservation measures.

In 1998 at its 18^{th} meeting the Standing Committee adopted Resolution No. 6 (1998) listing the species requiring specific habitat conservation measures (including the migratory species mentioned in c. above).

The identification of species requiring specific habitat conservation measures is a useful step towards the designation of ASCIs because it will guide choices of sites of particular relevance for threatened species.

As for *d*. above (species of which the breeding and/or resting sites require protection), while all of them can be considered as included in *a*. above (*i.e* they require specific habitat conservation measures), the identification of breeding and/or resting sites requiring protection will be clearly associated with the designation of ASCIs, which has not yet started.

The information on ASCIs shall be public and stored in a database, except for the information communicated as confidential. The group of experts will endeavour, under the aegis of the Standing Committee, to publish regularly lists of designated ASCIs and their character and to make that information available in electronic form.

For Contracting Parties of the Convention, which are also member states of the European Community, the procedure will be different. In order to assure harmonisation and compatibility with the Natura 2000 Network, they need only to notify, which areas have been effectively included in the Natura 2000 Network, after all the necessary verification process agreed in the Habitats Directive. This procedure is designed to assure full compatibility and coherence of both networks.

4. Relations of the Emerald Network with Natura 2000 and the Pan-European Ecological Network

Link with Natura 2000

The Bern Convention (1979) and the Habitats Directive (1992) have a complete coincidence of objectives. Both are international legal instruments aimed at the conservation of wild flora, fauna and natural habitats. Their main differences come from the territory they apply to (European Union member States for the Directive and the whole of Europe and part of Africa for the Convention) and to the fact that the Directive is more explicit on the obligations concerning conservation of natural habitats.

In any case the Directive is a piece of legislation designed to implement the Bern Convention in the European Union and, as such, it is fundamentally coherent with the Convention. As Resolution No. 1 and Recommendations Nos. 14, 15 and 16 were adopted in 1989, and Recommendation No. 25 in 1991 at the time the Directive was being prepared, it is clear that they also influenced the content of the Directive. For instance, the "species requiring specific habitat conservation measures" mentioned in Recommendation No. 14 has its equivalent in Annex II of the Directive ("Animal and plant species of Community interest whose conservation requires the designation of Special Areas of Conservation"). Also the "endangered natural habitats requiring specific habitat conservation measures" of Recommendation No. 14 became Annex I of the Directive ("Natural habitat types of Community interest whose conservation requires the designation of Special Areas of Conservation). Even the term "Areas of Special Conservation Interest" (by the way, inspired by the United Kingdom's Sites of Special Scientific Interest) was taken in the Directive to become finally Special Areas of Conservation. The resemblance is even more striking in French (Zones d'intérêt spécial pour la conservation/Zones spéciales de conservation).

The great interest and merit of the Directive has been to convert into precise law the ideas and recommendations on habitat conservation contained in the Bern Convention, improving its reach and reinforcing its application in the member States of the European Union. It seems clear that the member States of the European Union will satisfy the habitat requirements of the Bern Convention through the designation of sites to the Natura 2000 Network. Thus, the Special Areas of Conservation of the Natura 2000 Network will also become Areas of Special Conservation Interest of the Emerald Network as it is foreseen in Resolution No. 5. This ensures the coherence of the Network for the whole of Europe.

There is an obvious advantage in this approach, which is that the building of the Emerald Network will benefit from the work carried out in the European Union to build Natura 2000, so that remaining work will be concentrated in States which are not members of the European Union. In this way it will be possible to extend to the whole of Europe a homogeneous network of areas, helping to break down in this sector the barriers that history, politics and economic reality have imposed on the European continent. This is in line with the missions, the challenges and the ambitions of the Council of Europe.

Additionally, it may also help some states, candidates to join the European Union, to do part of the preparatory work necessary to comply in advance with the Habitats Directive. It seems evident that if a state designates a coherent network of ASCIs within the Emerald Network, it will be in a more favourable position to designate its own SACs when it joins the Union. Such a possibility has led to close co-operation and coordination of the Council of Europe, serving the Bern Convention, and the European Commission, responsible for the Directive, in terms of technical and financial matters derived from the building of both networks.

In a sense the Emerald Network will take farther than the borders of the European Union the philosophy of the Natura 2000 Network and will materialise in the whole continent the fundamentally coincident objectives of both the Bern Convention and the Habitats Directive regarding conservation of natural habitats. Its success will be that of nature conservation in Europe.

Link with the Pan-European Ecological Network (PEEN)

The setting up of the Pan-European Ecological Network had been conceived within the activities of the Pan-European Biological and Landscape Diversity Strategy (PEBLDS). The Pan-European Strategy was endorsed in October 1995 by the Ministers of Environment meeting in Sofia at the 3rd Ministerial Conference "Environment for Europe".

The PEEN will contain the following key elements:

- Core areas identified in accordance with the application of relevant international instruments (Bern Convention, European Union Habitats and Birds Directives, Ramsar Convention, Bonn Convention, Helsinki Convention, World Heritage Covenntion, the Fourth Protocol of the Barcelona Convention, etc.):
- Ecological corridors restoring the connectivity between differents parts of habitats or connecting core areas;
- Buffer zones mitigating the environmental impacts of activities located outside core areas and corridors;
- Restoration zones where they are needed.

The Natura 2000 and Emerald Networks will constitute the two main components of the Pan-European Ecological Network owing to their political importance, their geographique extent and their biological and landscape diversity.

5. Progress in setting up the Emerald Network

With the adoption in December 1998 of Resolution No. 5 (1998) "Rules for the Emerald network", Resolution No. 6 (1998) listing the species requiring specific habitat conservation measures and the development of the bilingual version of the Emerald software, preparatory work for the launching of the Emerald network was successfully concluded.

Pilot projects programme

In the beginning of 1999, in order to assist the initial implementation phase of the Emerald Network, the Council of Europe proposed to a number of countries of Central and Eastern Europe to start the pilot projects in their respective countries. The overall objective of the Emerald network pilot project is to develop a pilot database, containing a fair proportion of the Areas of Special Conservation Interest and submit a proposal for the sites designation to the Standing Committee of the Bern Convention.

In order to achieve this objective, the countries have to form project teams, carry out the training of the teams (organise the workshop) and proceed with the scientific work (data collection on species and habitats concerned; field survey for a selected pilot area; mapping of distribution data on species and habitats) and technical tasks of installing the software, introduction of data on the sites into the database; preparing Standard Data sheets on the designated sites and transmitting this information in the electronic form to the Secretariat with the project report.

The tasks, which are to be carried out in the framework of the Emerald network pilot project, are described in detail in the document T-PVS/Emerald (2002) 16 "Building up the Emerald Network: a guide for Emerald Network country team leaders", which is intended as a user-friendly guide for the countries, that are implementing Emerald pilot projects.

For Bern Convention Contracting Parties which are European Union Member States, the Emerald Network sites consist of the Natura 2000 sites. Before joining the European Union, the twelve following countries have implemented Emerald pilot projects as preparatory work to setting up the Natura 2000 network: Bulgaria, Czech Republic, Cyprus, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovenia and Slovakia. The other countries engaged in the constitution of the Emerald Network are: in Western Europe, Iceland, Norway, Switzerland, in Central and Eastern Europe, Belarus, Moldova, the Russian Federation and the Ukraine; in South-Eastern and and East Europe, Albania, Bosnia-Herzegovina, Croatia, Montenegro, "the former Yugoslav Republic of Macedonia", Serbia, Turkey; and in the South Caucasus, Armenia, Azerbaijan and Georgia. Today, Emerald training workshops have been organised in each of these countries.

In Africa, three Contracting Parties of the Bern Convention have implemented pilot projects: Burkina Faso, Senegal and Morocco. The Emerald Network could also be launched in Tunisia, at the request of the national authorities.

Regional development programmes of the Emerald Network

An Emerald Network development programme was implemented in 2005/2008, in South-Eastern Europe, as a continuation of the initial pilot projects launched by the Council of Europe. This programme, funded through CARDS grants and thus called "the CARDS/Emerald programme" targetted the following countries: Albania, Bosnia-Herzegovina, Croatia, Montenegro, "The Former Yugoslav Republic of Macedonia" and Serbia. Its overall objective was to identify 100 % of the potential Emerald sites in these countries. The programme benefitted from a financial contribution of the European Environmental Agency and represented an important tool contributing to preparing the countries concerned for the future work on Natura 2000 and for advance compliance with the Habitats and Birds Directives.

A Joint Programme with the European Union has been launched in 2009, for a period of three years, in order to substantially develop the Emerald Network in the seven following countries: Armenia, Azerbaijan, Belarus, Georgia, Moldova, Ukraine and the European part of the Russian Federation. The objective of this Joint Programme is to identify at the end of 2011 all the potential Emerald sites in the three countries of South-Caucasus and in Moldova; the objective set for Belarus and the Russian Federation amounts to 50 % of the potential Emerald sites while in Ukraine, 80 % of the potential Emerald sites are expected to be identified.

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Appendix 1

Articles 1, 2, 3, 4, 6.b and 9 of the Convention

"(...)

Chapter I – General provisions

Article 1

- 1 The aims of this Convention are to conserve wild flora and fauna and their natural habitats, especially those species and habitats whose conservation requires the co-operation of several States, and to promote such co-operation.
- 2 Particular emphasis is given to endangered and vulnerable species, including endangered and vulnerable migratory species.

Article 2

The Contracting Parties shall take requisite measures to maintain the population of wild flora and fauna at, or adapt it to, a level which corresponds in particular to ecological, scientific and cultural requirements, while taking account of economic and recreational requirements and the needs of sub-species, varieties or forms at risk locally.

Article 3

- 1 Each Contracting Party shall take steps to promote national policies for the conservation of wild flora, wild fauna and natural habitats, with particular attention to endangered and vulnerable species, especially endemic ones, and endangered habitats, in accordance with the provisions of this Convention.
- 2 Each Contracting Party undertakes, in its planning and development policies and in its measures against pollution, to have regard to the conservation of wild flora and fauna.
- 3 Each Contracting Party shall promote education and disseminate general information on the need to conserve species of wild flora and fauna and their habitats.

Chapter II - Protection of habitats

Article 4

- 1 Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the conservation of the habitats of the wild flora and fauna species, especially those specified in the Appendices I and II, and the conservation of endangered natural habitats.
- 2 The Contracting Parties in their planning and development policies shall have regard to the conservation requirements of the areas protected under the preceding paragraph, so as to avoid or minimise as far as possible any deterioration of such areas.
- 3 The Contracting Parties undertake to give special attention to the protection of areas that are of importance for the migratory species specified in Appendices II and III and which are appropriately situated in relation to migration routes, as wintering, staging, feeding, breeding or moulting areas.
- 4 The Contracting Parties undertake to co-ordinate as appropriate their efforts for the protection of the natural habitats referred to in this article when these are situated in frontier areas.

Chapter III - Protection of species

Article 6

Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the special protection of the wild fauna species specified in Appendix II. The following will in particular be prohibited for these species:

b the deliberate damage to or destruction of breeding or resting sites;

Article 9

Each Contracting Party may make exceptions from the provisions of Articles 4, 5, 6, 7 and from the prohibition of the use of the means mentioned in Article 8 provided that there is no other satisfactory solution and that the exception will not be detrimental to the survival of the population concerned:

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- for the protection of flora and fauna;
- to prevent serious damage to crops, livestock, forests, fisheries, water and other forms of property;
- in the interests of public health and safety, air safety or other overriding public interests;
- for the purposes of research and education, of repopulation, of reintroduction and for the necessary breeding;
- to permit, under strictly supervised conditions, on a selective basis and to a limited extent, the taking, keeping or other
 judicious exploitation of certain wild animals and plants in small numbers.
- 2 The Contracting Parties shall report every two years to the Standing Committee on the exceptions made under the preceding paragraph. These reports must specify:
- the populations which are or have been subject to the exceptions and, when practical, the number of specimens involved;
- the means authorised for the killing or capture;
- the conditions of risk and the circumstances of time and place under which such exceptions were granted;
- the authority empowered to declare that these conditions have been fulfilled, and to take decisions in respect of the means that may be used, their limits and the persons instructed to carry them out;
- the controls involved."

(...)"

Appendix 2

Resolution No. 1 (1989) of the Standing Committee on the provisions relating to the conservation of habitats

(adopted by the Standing Committee of 9 June 1989 at its 8th meeting)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Having regard to the obligations laid down by the convention, particularly in Articles 1, 2, 3, 4, 6.b and 9;

Conscious of the fact that most of these obligations bind Contracting Parties as to the results to be attained, while leaving them the choice of the means to be used for that purpose;

Recognising, however, that the absence of a common interpretation of certain provisions of the convention, and certain terms contained therein, may lead to considerable differences in the legal interpretation of the convention by individual Contracting Parties and may undermine the effectiveness of the convention;

Desirous to promote agreement, as much as possible, among Contracting Parties as to what is required to be done in order to implement the convention;

Convinced that a common interpretation of certain of the provisions and terms of the convention, particularly in Articles 4, 6.b and 9, will facilitate the achievement of the aims of the convention in a harmonised way by all Contracting Parties,

Resolves that, for the purpose of improving the effectiveness of the convention, the terms listed hereunder are to be interpreted as follows:

- 1. For the purpose of the convention:
- a. "habitat" of a species (or population of a species) means the abiotic and biotic factors of the environment, whether natural or modified, which are essential to the life and reproduction of members of that species (or population of that species) and which occur within the natural geographical range of the species (or population of that species);
- b. "natural habitat" means a biotope, that is a distinctive type of terrestrial or aquatic area distinguished by geographic, abiotic or biotic features, whether entirely natural or modified as a result of human activities;
- 2. For the purpose of Article 4:
- a. "necessary measures" means in particular those measures which are required:
 - to ensure the conservation of the habitats of those species which have been identified by the Standing Committee, on the basis of scientific evidence, as requiring specific habitat conservation measures and, most particularly, of those part of their geographical range which are essential for the conservation of those species (hereinafter referred to as "critical sites");
 - ii. to ensure the conservation of those natural habitats which have been identified by the Standing Committee, on the basis of scientific evidence, as being endangered natural habitats and requiring specific conservation measures;
- b. "appropriate measures" means in particular those measures, pursuant to paragraph a above, which are able to ensure the conservation of the habitat of particular species or of particular natural habitats;
- c. "conservation" means the maintenance and, where appropriate, the restoration or improvement of the abiotic and biotic features which form the habitat of a species or a natural habitat, as defined in paragraph I above, and includes, where appropriate, the control of activities which may indirectly result in the deterioration of such habitats, including areas of importance for the migratory species specified in Appendices II and III, even where such areas are outside the jurisdiction of the Party in question;
- d. "areas of importance for the migratory species specified in Appendices II and III" means the critical sites, wherever situated, of those migratory species which have been identified by the Standing Committee, on the basis of scientific evidence, as requiring specific habitat conservation measures;

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- e. the conditions attached by Article 9 to the making of exceptions from the provisions of Article 4, as well as the obligation laid down in that article to report such exceptions to the Standing Committee, shall apply to:
 - i. the critical sites of those species which have been identified by the Standing Committee, pursuant to paragraph *a.*i above:
 - ii. natural habitats which have been identified by the Standing Committee, pursuant to paragraph a.ii above;
 - iii. areas of importance for migratory species which have been identified by the Standing Committee, pursuant to paragraph *d* above;
- 3. For the purpose of Article 6.*b*:
- a. "breeding and resting sites" means, in respect of each species for which the Standing Committee has identified that breeding and/or resting sites require protection, those breeding and/or resting site types in respect of which the Standing Committee has considered that such measures are required;
- b. "deliberate damage to or destruction of breeding or resting sites" means, subject to relevant provisions of the law of each Contracting Party, any act committed with the intention of destroying or causing harm to breeding or resting sites as defined in paragraph a above, and any act committed without the intention to cause damage or destruction but in the knowledge that such would probably by the consequences of the act;
- c. the conditions attached by Article 9 to the making of exceptions from the provisions of Article 6.b, as well as the obligation, laid down in that article, to report these exceptions to the Standing Committee, only apply to those breeding and resting site types in respect of which the Standing Committee has considered that they require protection pursuant to paragraph a above.

Appendix 3

Recommendation No. 14 (1989) of the Standing Committee on species habitat conservation and on the conservation of endangered natural habitats (adopted by the Standing Committee on 9 June 1989)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Considering Articles 3 and 4 of the convention;

Having regard to Resolution No. 1 (1989) on the provisions relating to the conservation of habitats, and to the decision it has taken to act by virtue of paragraph 2, sub-paragraphs a and d, and paragraph 3, sub-paragraph a of that resolution,

Recommends that Contracting Parties:

- 1. identify in the areas within their jurisdiction:
- a. species requiring specific habitat conservation measures;
- b. endangered natural habitats requiring specific conservation measures;
- c. migratory species requiring specific habitat conservation measures;
- d. species of which the breeding and/or resting sites require protection and their breeding and/or resting site types requiring protection;

and for each of these categories to indicate, as far as possible, their sites;

- 2. identify, furthermore, endangered species on their territory requiring recovery plans, and develop and implement such plans;
- 3. communicate to the Standing Committee the results of their work in the implementation of the recommendations above;
- 4. ensure that appropriate and necessary measures of conservation are taken for the species, habitats and sites identified according to paragraphs 1 and 2 above.

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Appendix 4

Recommendation No. 15 (1989) of the Standing Committee on the conservation of endangered natural habitat types

(adopted by the Standing Committee on 9 June 1989)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Having regard to the provisions of Articles 4 and 9, paragraph 1, of the convention and to Resolution No. 1 (1989) on the provisions relating to the conservation of habitats;

Conscious of the need not to endanger the survival of habitat types,

Recommends that Contracting Parties make exceptions to Article 4, by virtue of Article 9, paragraph 1, with respect to endangered natural habitat types as identified by the Standing Committee in Resolution No. 1 (1989) only in exceptional circumstances and provided that the exceptions will not be detrimental to the survival of the habitat type concerned.

Appendix 5

Recommendation No. 16 (1989) of the Standing Committee on areas of special conservation interest

(adopted by the Standing Committee on 9 June 1989)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under Article 14 of the convention.

Having regard to Article 4 of the convention and to Resolution No. 1 (1989) on the provisions relating to the conservation of habitats:

Desirous of establishing common criteria for the identification of areas to be conserved;

Desirous also of ensuring that the conservation and management of such areas have regard to certain minimum requirements,

Recommends that Contracting Parties:

- 1. take steps to designate areas of special conservation interest to ensure that necessary and appropriate conservation measures are taken for each area situated within their territory or under their responsibility where that area fits one or several of the following conditions:
- a. it contributes substantially to the survival of threatened species, endemic species, or any species listed in Appendices I and II of the convention:
- b. it supports significant numbers of species in an area of high species diversity or supports important populations of one or more species;
- c. it contains an important and/or representative sample of endangered habitat types;
- d. it contains an outstanding example of a particular habitat type or a mosaic of different habitat types;
- e. it represents an important area for one or more migratory species;
- f. it otherwise contributes substantially to the achievement of the objectives of the convention;
- 2. review regularly or continually in a systematic fashion their performance in the implementation of paragraph 1 above;
- 3. take such steps, either by legislation or otherwise, to ensure wherever possible that:
- a. areas referred to in paragraph 1 above are the subject of an appropriate regime, designed to achieve the conservation of the factors set out in that paragraph;
- b. the agencies responsible for the designation and/or management and/or conservation of such areas or any one of them have available to it sufficient manpower, training, equipment and resources (including financial resources) to enable them properly to manage, conserve and survey the areas;
- c. appropriate ecological and other research is conducted, in a properly co-ordinated fashion, with a view to furthering the understanding of the critical elements in the management of such areas and to monitoring the status of the factors giving rise to their designation and conservation;
- d. activities taking place adjacent to such areas or within their vicinity do not adversely affect the factors giving rise to the designation and conservation of those sites;
- 4. take steps, as appropriate, in respect of areas referred to in paragraph 1 above, to:
- a. draw up and implement management plants which will identify both short- and long-term objectives (such management plans can relate to individual areas or to a collection of areas such as heathlands);
- b. regularly review the terms of the management plans in the light of changing conditions or of increased scientific knowledge;
- c. clearly mark the boundaries of such areas on maps and, as far as possible, on the ground;
- d. advise the competent authorities and landowners of the extent of the areas and their characteristics;
- e. provide for the monitoring of such areas and especially of the factors for which their conservation is important;
- 5. determine those areas which remain inadequately provided for under existing mechanisms and improve the conservation status of such areas, using whatever mechanisms are appropriate in order to meet the requirements of the convention.

Appendix 6

Recommendation No. 25 (1991) of the Standing Committee on the conservation of natural areas outside protected areas proper

(adopted by the Standing Committee on 6 December 1991)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under Article 14 of the convention.

Having regard to Articles 1, 2, 3 and 4 of the convention and to its Resolution No. 1 (1989);

Conscious that most of the obligations under Articles 1, 2, 3 and 4 of the convention are binding upon the Contracting Parties as to the results to be attained while allowing them a choice of the means to be used for that purpose;

Conscious that the establishment of protected areas of the A and B categories defined in Resolution 73 (30) of the Committee of Ministers of the Council of Europe of 26 October 1973 may prove to be insufficient to comply with the obligations of the convention;

Recognising that measures to conserve natural habitats outside protected areas thus defined are necessary for the protection of some species;

Recognising, however, that certain forms of action have proved particularly effective in the countries where they have been adopted and that the experience thus acquired should be brought to the attention of all Contracting Parties;

Recognising that flora and fauna conservation is possible only in the context of a regional planning policy conserving their environments and habitats,

Recommends that Contracting Parties:

- 1. examine the possibility, for the purpose of the convention, of taking conservation measures such as those mentioned as examples in the appendix to this recommendation to improve conservation outside the protected areas of categories A and B of the above-mentioned Resolution (73) 30 of the Committee of Ministers;
- 2. communicate to the Secretariat, for the information of the other Contracting Parties, any other relevant measures they have already taken or intend to take as well as any available information on the effects of measures they have taken.

Appendix

Examples of conservation measures¹

- I. General measures for promoting ecological management of the environment as a whole
- 1. Submit all projects, plans, programmes and measures with an impact on the natural and semi-natural environment to an examination of environmental compatibility with a view to protecting nature and landscapes and conserving them intact in cases where there is an overriding general interest in doing so.
- 2. Take care to use agricultural land and forests in a sustainable way by making maximum possible use of natural protection capacities and by reducing inputs.
- 3. Encourage the use of environment friendly technologies when carrying out technical operations in natural or semi-natural environment, and replace large-scale single operations by regular maintenance measures which are more evenly distributed in time and space. If it is impossible to avoid affecting natural or semi-natural environments which are worth protecting, ensure that mitigation measures are taken to minimise as much as possible the negative effects of the operations, to restore, or failing this, to replace them by adequate compensation.

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¹ These examples have been taken from document T-PVS (90) 52 on "The conservation of natural habitats outside protected areas proper – a juridical analysis", Cyrille de Klemm, 1990.

II. Areas of special consrvation interest

- 1. Draw up a detailed inventory of areas of special conservation interest as defined in paragraph 1 of the Standing Committee's Recommendation No. 16 (1989) and ensuring the conservation and management of those areas, when it is not possible or appropriate to include them in protected areas of categories A and B, by taking, in particular, the following measures:
- a. including those areas in land-use planning zones which enjoy a high level of protection;
- b. requiring that any development or activity liable to have an adverse ecological impact on those areas be subject to the authorisation, consultation, or agreement of the nature conservation authorities;
- c. requiring that any request for permission submitted in accordance with paragraph b above be accompanied by an environmental impact assessment or equivalent assessment making it possible to determine the precise effects of the proposed development or activity on the ecological characteristics which warranted the inclusion of those areas in the inventory;
- d. advising government agencies against carrying out, authorising or subsidising developments or activities which are shown by the environmental impact assessment or equivalent assessment adversely to affect significantly those ecological characteristics;
- e. granting exceptions to these provisions only under the conditions specified in Article 9 of the convention and in Recommendation No. 15 (1989) of the Standing Committee;
- f. taking the necessary measures to ensure that laws and regulations laying down obligations with regard to drainage, use of phytosanitary products, dredging of watercourses, consolidation of land-holdings or other activities liable to harm the natural environment are not compulsorily applicable to areas appearing in the inventory.
- 2. Facilitate the acquisition and management of areas of special conservation interest by the state or other public bodies in particular by taking the following measures:
- a. Acquisition:
 - i. establishing a right of pre-emption for the state or other public bodies in respect of land included in the said areas;
 - ii. authorising land forming part of those areas to be transferred to the state in lieu of inheritance tax;
 - iii. introducing incentives to encourage gifts and bequests of land included in those areas to the state or to other public bodies, such as tax concessions, the payment of an annuity to donors until their deaths or authorising donors to stay on until their death, as usufructuaries;

b. Management:

- i. when a government agency is not in a position to manage land it owns or is responsible for within an area of special interest, arranging for the land to be managed by another government agency or a private person;
- ii. authorising the conclusion of long-term management contracts between the government agency that owns or is responsible for the land and a public body or private person;
- iii. authorising the nature conservation agency to conclude co-operative agreements with the public body owning or responsible for the land, for the purpose of managing the land concerned.
- 3. Facilitate the acquisition, conservation and management of areas of special conservation interest by private persons, in particular by taking the following measures:
- a. Acquisition:

granting subsidies, loans and tax concessions to private nature conservation organisations for the acquisition of land included in such areas;

b. Conservation:

- i. setting up voluntary reserves approved by a government agency and enjoying as such the same level of protection as reserves set up by government agencies themselves;
- ii. authorising the imposition by contract of land use restrictions which may be binding upon successors in title;
- iii. granting tax concessions to owners or occupiers who comply with these restrictions. It should be possible to apply the concessions to property tax and inheritance tax. In the latter case, it should be possible to grant concessions to heirs who undertake to conserve and manage the areas concerned according to a management plan drawn up by the conservation authorities. In the event of failure to observe the conditions in this plan, inheritance tax would immediately become due;
- iv. providing the state with the necessary legal powers to introduce immediate controls prohibiting all potentially harmful
 activities in the event of a threat to the integrity of an area of special interest and, where necessary, to expropriate the land in
 question;

c. Management:

- setting up a system of management agreements, where such a system does not already exist, between the state or another
 public body on the one hand, and the owners of land included in areas of special interest on the other, whereby the latter
 undertake to perform or refrain from certain actions in return for fair remuneration and other possible benefits such as tax
 concessions;
- ii. eliminating legal obstacles liable to hamper the conservation of land within areas of special interest, particularly rules prohibiting the owner from including in a farm lease clauses that limit the tenant farmer's freedom, for example with regard to the removal of banks and hedges or the ploughing up of meadowland.

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III. Ecological corridors

Encourage the conservation and, where necessary, the restoration of ecological corridors in particular by taking the following measures:

1. Rights of way of roads, railways and high-voltage lines

Authorising agreements between nature conservation authorities and government or other public bodies owning or responsible for such areas with a view to maintaining natural plant cover and preserving the sites of rare or endangered plant species, prohibiting or limiting the use of phytosanitary products and of fire in those areas, as well as restricting the use of machinery to the strict minimum necessary for safety reasons.

Taking measures to restore or to compensate for the loss of ecological corridors caused by the building of new roads and other constructions that prevent animals from migrating or interchanging. In these cases, the responsible authority has to safeguard such crossing routes, for example, by building special tunnels for otters, badgers, by building so-called cerviducts for deer, by closing roads during the spring migrational period for amphibians, or by any other appropriate measures.

Watercourses

Maintaining certain watercourses or parts thereof in their natural state, and where necessary restoring them, by prohibiting the building of dams, any straightening or canalisation work and the extraction of materials from their beds, and by maintaining or restoring vegetation along their banks. Ensuring that dredging operations, when they prove essential, do not harm the integrity of the aquatic ecosystem or of the banks.

On other watercourses, limiting canalisation and straightening work to whatever is absolutely essential, providing fish passes across dams, maintaining a minimum flow in low-water periods as far as possible, limiting extraction of materials from the bed and maintaining vegetation along the banks.

IV. Habitat types

- 1. Ensure the conservation of endangered habitat types such as wetlands, heathlands and dry grasslands by requiring that all projects liable to cause their deterioration or destruction be subject to the permission (or agreement) of the authority responsible for nature conservation.
- 2. Subject permission, once it has been granted, to an obligation, where appropriate, to take suitable compensation measures.
- 3. Set up a system of management agreements, together with financial incentives, to provide for the management of certain habitat types, whether or not they are protected.

V. Landscape features

Encourage the conservation of landscape features such as streams, ponds, small woods, individual trees, hedges and natural grassland, in particular, by taking the following measures:

- 1. drawing up in each municipality an inventory of landscape features which should be preserved;
- 2. taking these features into account in the preparation or revision of land-use plans by including them in zones enjoying a high level of protection;
- 3. setting up a system of management agreements for the preservation and, where appropriate, the management of the landscape features thus protected;
- 4. for each agricultural production unit, establishing, in agreement with the farmer, a conservation plan comprising:
- a. an ecological analysis of the unit;
- b. a map of landscape features and natural areas to be conserved and, where necessary, restored or reconstituted;
- c. practicable and advisable "extensification" methods;
- d. setting aside certain plots of land where appropriate, selected on the basis of an ecological study;
- *e.* a management agreement specifying the results to be achieved, the means needed to achieve them and the amounts to be paid to the farmer by way of compensation or remuneration for services rendered.

VI. Ecologically sensitive areas

Set up special legal regimes applicable to certain areas requiring specific measures on account of their ecological vulnerability and the various kinds of pressure to which they are exposed, including, in particular, the following measures:

- 1. Coastlines and adjacent marine areas
- a. setting up a legal regime for natural areas in the public maritime domain which takes account of the need to preserve the natural habitats comprising them and which regulates activities liable to affect them adversely;
- b. instituting binding land-use plans for marine areas which are of special ecological interest or require special protective measures on account of their vulnerability;
- c. adopting special planning regulations prohibiting or limiting new development, especially the building of roads, on the coastline;

- d. protecting landscape features and habitats characteristic of coastal ecosystems, such as dunes, beaches, cliffs, wetlands, salt marshes and woodlands, by including them in land-use planning zones enjoying the highest level of protection;
- e. as far as possible, eliminating the difficulties due to the division of powers between different government agencies on either side of the upper limit of the public maritime domain by setting up a co-ordinating mechanism allowing for the management of the coastline and the adjacent marine areas, particularly protected ones, as a single unit.

2. Montains

- a. providing for financial means of encouragement along with management agreements to maintain the rural mountain population, while promoting farming methods respectful of natural habitats and the balance of nature; adjusting aid arrangements for stock-breeding in mountain areas to the carrying capacity of the pasture land;
- b. designating areas where the building of roads, except access tracks to pastures and forests, and the construction of buildings and other structures are prohibited;
- c. including in land-use planning zones enjoying the highest level of protection the landscape features and habitats typical of mountain ecosystems, such as glaciers, névés, moraines, rock faces, scree, high-altitude lakes, torrents, peat bogs and dry grasslands;
- d. regulating off-piste skiing, the spreading of artificial snow, the use of cross-country vehicles and any other activities liable to harm mountain ecosystems.

3. Flood plains

- a. maintaining and, where possible, restoring the natural cycle of flooding in flood-plains;
- b. designating flood-risk areas and subjecting them to special restrictions, particularly with regard to building;
- c. protecting landscape features and habitats that are typical of flood plains, such as alluvial forests, water meadows, oxbow lakes and islands, by including them in land-use planning zones enjoying the highest level of protection;
- d. encouraging the continuation of traditional agricultural and stock breeding methods by means of subsidies and management agreements;
- e. requiring prior authorisation for any drainage or conversion of wetlands in a flood plain;
- f. creating river nature parks, in accordance with paragraph VII.3 below.

4. Forests

- a. maintaining at least 2% of the surface area of publicly-owned indigenous and natural forests in its natural state by letting biological cycles, including the recycling of dead wood, occur freely;
- b. setting up a system of management agreements with the owners of private forests to encourage the conservation of certain forest ecosystems or the continuation of certain forestry practices;
- c. adopting regulations to ensure the protection of forest clearings and edges;
- d requiring that, after an environmental impact assessment has been carried out, any afforestation of semi-natural or natural non-wooded land and any conversion of natural forest into artificial forest be subject to the permission (or agreement) of the authority responsible for nature conservation and/or forest management.

VII. Protected landscapes

- 1. Set up a network of nature parks of the C and D categories defined in Resolution (73) 30 of the Committee of Ministers with a view to conserving European landscapes by managing all their component elements in an integrated way.
- 2. Provide each nature park thus defined with the following means of action:
- a. a specific land-use planning instrument with which the land-use plans of municipalities situated in the park must comply, and which includes the zoning and regulation of human activities according to the conservation needs of each zone;
- b. incentives to encourage the maintenance of traditional activities compatible with the conservation needs of each zone, or necessary to achieve them;
- c. administration specific to each park and empowered to grant the permits required to carry out those activities which are regulated in each zone;
- d. adequate funds and staff for providing information, encouragement and financial or technical assistance to all public bodies and private individuals that own land or carry out activities in the park.
- 3. Pay particular attention to establishing river nature parks covering the whole width of the flood plain, on either side of certain watercourses or parts thereof, where hydraulic schemes, drainage and any activities liable to harm river and alluvial ecosystems are regulated.

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Appendix 7

Resolution No. 3 (1996) of the Standing Committee concerning the setting up of a Pan-European Ecological Network

(adopted by the Standing Committee on 26 January 1996)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention.

Desirous to pursue the implementation of its Recommendation No. 16 (1989) on areas of special conservation interest;

Desirous also to contribute as a first step to the implementation of the Pan-European Biological and Landscape Diversity Strategy, in particular to Theme 1 of the strategy "Establishing the Pan-European ecological network", as endorsed at the Ministerial Conference "Environment for Europe" (Sofia, Bulgaria, October 1995),

Resolves to:

- 1. set up a network (Emerald Network) which would include the areas of special conservation interest designated following its Recommendation No. 16;
- 2. create a group of experts to carry out the necessary activities related to the building up of the network;
- 3. encourage contracting parties and observer states to designate areas of special conservation interest and to notify them to the Secretariat;
- 4. invite European states which are observer states in the Standing Committee of the Bern Convention to participate in the network and designate areas of special conservation interest.

Appendix 8

Resolution No. 4 (1996) of the Standing Committee listing endangered natural habitat requiring specific conservation measures

(adopted by the Standing Committee on 6 December 1996)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Having regard to its Resolution No. 1 (1989) on the provisions relating to the conservation of habitats,

Having regard to its Recommendation No. 14 (1989) on species habitat conservation and on the conservation of endangered natural habitats,

Acknowledging that for Contracting Parties which are Member States of the European Union the list of natural habitats requiring specific conservation measures corresponds to Annex I of the Council Directive 92/43/EEC,

Resolves to identify the natural habitats listed in Annex I to this resolution as endangered natural habitat types requiring specific conservation measures. (Selected habitats are marked with the sign!)

Resolves to update periodically Annex I to this resolution.

Annex 1

! 15.1132

! 15.114

! 15.115

! 15.13

! 15.14

ENDANGERED NATURAL HABITAT TYPES

<u>1.</u>	COASTAL AND HALOPHYTIC COMMUNITIES
11.	OCEAN AND SEAS, MARINE COMMUNITIES
11.2	Benthic communities
! 11.22	Sublittoral soft seabeds
! 11.24	Sublittoral rocky seabeds and kelp forests
! 11.25	Sublittoral organogenic concretions
! 11.26	Sublittoral cave communities
! 11.27	Soft sediment littoral communities
! 11.3	Sea-grass meadows
11.4	Brackish sea vascular vegetation
! 11.42	Marine spike-rush beds
12.	SEA INLETS AND COASTAL FEATURES
! 12.7	Sea-caves
13.	ESTUARIES AND TIDAL RIVERS
! 13.2	Estuaries
! 14.	MUD FLATS AND SAND FLATS
15.	SALTMARSHES, SALT STEPPES, SALT SCRUBS, SALT FORESTS
15.1	Annual salt pioneer swards

Venetian glasswort swards

Iberian glasswort swards

Sea-pearlwort communities

Continental glasswort swards

Central Eurasian crypsoid communities

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15.3 ! 15.32 ! 15.33 ! 15.34	Boreo-nemoral coastal salt meadows Atlantic lower schorre communities Atlantic upper schorre communities Atlantic brackish saltmarsh communities
! 15.4	Suboceanic inland salt meadows
! 15.5	Mediterranean salt meadows
! 15.6	Mediterraneo-Nemoral saltmarsh scrubs
! 15.7	Mediterraneo-Canarian xero-halophile scrubs
! 15.8	Mediterranean salt steppes
! 15.9	Mediterranean gypsum scrubs
! 15.A	Continental salt steppes and saltmarshes
16.	COASTAL SAND DUNES AND SAND BEACHES
! 16.2	Dunes
! 16.3	Humid dune-slacks
17.	SHINGLE BEACHES
! 17.3	Sea kale communities
1A.	COASTAL AGROSYSTEMS
! 1A.1	Machair
! 1A.1 	Machair NON-MARINE WATERS
2.	NON-MARINE WATERS
2. ! 21.	NON-MARINE WATERS COASTAL LAGOONS
2. ! 21. 22. ! 22.1 ! 22.31 ! 22.32 ! 22.321 ! 22.322 22.323 ! 22.3232	NON-MARINE WATERS COASTAL LAGOONS STANDING FRESH WATER Permanent ponds and lakes Lime-deficient oligotrophic waterbodies Amphibious communities Euro-Siberian perennial amphibious communities Euro-Siberian dwarf annual amphibious swards Dwarf spike-rush communities Dune-slack centaury swards Dwarf toad-rush communities Small galingale swards
2. ! 21. 22. ! 22.1 ! 22.11 22.3 ! 22.31 22.32 ! 22.321 ! 22.322 22.323	NON-MARINE WATERS COASTAL LAGOONS STANDING FRESH WATER Permanent ponds and lakes Lime-deficient oligotrophic waterbodies Amphibious communities Euro-Siberian perennial amphibious communities Euro-Siberian dwarf annual amphibious swards Dwarf spike-rush communities Dune-slack centaury swards Dwarf toad-rush communities

22.431 ! 22.4316 22.432 ! 22.4321 ! 22.4323 ! 22.44	Floating broad-leaved carpets Sacred lotus beds Shallow-water floating communities Water crowfoot communities Water violet beds Chandalier algae submerged carpets
! 22.5	Turlough and lake-bottom meadows
23.	STANDING BRACKISH AND SALT WATER
! 23.1	Athalassal saline lakes
! 23.3	Salt lake islands
24.	RUNNING WATER
! 24.2	River gravel banks
<u>3.</u>	SCRUB AND GRASSLAND
31.	TEMPERATE HEATH AND SCRUB
! 31.1	European wet heaths
! 31.2	European dry heaths
! 31.3	Macaronesian heaths
31.4 31.42 ! 31.424 ! 31.425 ! 31.46	Alpine and boreal heaths Alpenrose heaths Carpathian Kotschy's alpenrose heaths Balkan Kotschy's alpenrose heaths Bruckenthalia heaths
! 31.7	Hedgehog-heaths
31.8 31.8B ! 31.8B1	Western Eurasian thickets South-eastern deciduous thickets Pannonic and sub-Pannonic thickets
32.	SCLEROPHYLLOUS SCRUB
32.2 ! 32.22 ! 32.24 ! 32.25 ! 32.26 ! 32.2B	Thermo-Mediterranean shrub formations Tree-spurge formations Palmetto brush Mediterranean pre-desert scrub Thermo-Mediterranean broom fields (<i>retamares</i>) Cabo de Sao Vicente brushes
! 33.	PHRYGANA
34.	STEPPES AND DRY CALCAREOUS GRASSLANDS
34.1 34.11 ! 34.112	Middle European pioneer swards Middle European rock debris swards Houseleek communities
! 34.2	Lowland heavy metal grasslands
! 34.3	Dense perennial grasslands and middle European steppes
! 34.5	Mediterranean xeric grasslands
! 34.9	Continental steppes
! 34.A	Sand steppes

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35.	DRY SILICEOUS GRASSLANDS
35.1	Atlantic mat-grass swards and related communities
! 35.11	Mat-grass swards
! 35.7	Mediterraneo-montane mat-grass swards
37.	HUMID GRASSLAND AND TALL HERB COMMUNITIES
37.1 ! 37.13 ! 37.14	Lowland tall herb communities Continental tall herb communities Eastern nemoral tall herb communities
! 37.2	Eutrophic humid grasslands
! 37.3	Oligotrophic humid grasslands
! 37.4	Mediterranean tall humid grasslands
37.7 37.71 ! 37.711 ! 37.712 ! 37.713	Humid tall herb fringes Watercourse veils Angelica archangelica fluvial communities Angelica heterocarpa fluvial communities Marsh mallow screens
38.	MESOPHILE GRASSLANDS
38.2 ! 38.25	Lowland high meadows Continental meadows
4.	<u>FORESTS</u>
41.	BROAD-LEAVED DECIDUOUS FORESTS
! 41.1	Beech forests
! 41.2	Oak-hornbeam forests
! 41.4	Mixed ravine and slope forests
! 41.5	Acidophilous oak forests
! 41.6	Quercus pyrenaica forests
! 41.7	Thermophilous and supra-Mediterranean oak woods
! 41.8	Mixed thermophilous forests
! 41.H	Euxino-Hyrcanian mixed deciduous forests
42.	TEMPERATE CONIFEROUS FORESTS
42.1 ! 42.15 ! 42.16 ! 42.17 ! 42.19	Western Palaearctic fir forests Southern Apennine silver fir forests Southern Balkan silver fir forests Balkano-Pontic fir forests Afro-Asian fir forests
42.2 ! 42.21 ! 42.22 ! 42.23 42.24 ! 42.241 ! 42.243 ! 42.244	Western Palaearctic orogenous spruce forests Alpine and Carpathian sub-alpine spruce forests Inner range montane spruce forests Hercynian subalpine spruce forests Sub-Mediterranean Norway spruce forests Rhodope spruce forest Montenegrine spruce forest Paeonian spruce forest
! 42.245 ! 42.27	Balkan Range spruce forest Omorika spruce forests

	Oriental spruce forests
42.3	Alpine larch-arolla forests
! 42.31	Eastern Alpine siliceous larch and arolla forests
! 42.32	Eastern Alpine calcicolous larch and arolla forests
! 42.35	Carpathian larch and arolla forests
! 42.36	Larix polonica forests
42.4	Mountain pine forests
! 42.41	Rusty alpenrose mountain pine forests
! 42.42	Xerocline mountain pine forests
42.5	Western Palaearctic Scots pine forests
! 42.51	Caledonian forest
42.52	Middle European Scots pine forests
42.523	Western Eurasian steppe pine forest
! 42.5232	Sarmatic steppe pine forest
! 42.5233	Carpatian steppe pine frests
! 42.5234	Pannonic Scots pine steppe woods
42.54	Spring heath Scots pine forests
! 42.542	Carpatian relict calcicolous Scots pine forest
! 42.5C	South-eastern European Scots pine forests
! 42.5F	Ponto-Caucasian Scots pine forests
42.6	Black pine forests
! 42.61	Alpino-Apennine <i>Pinus nigra</i> forests
! 42.62	Western Balkan Pinus nigra forests
! 42.63	Salzmann's pine forests
! 42.64	Corsican laricio pine forests
! 42.65	Calabrian laricio pine forests
! 42.66	Banat and Pallas' pine forests
! 42.7	High oro-mediterranean pine forests
42.8	Mediterranean pine woods
42.81	Maritime pine forests
! 42.811	Charente pine-holm oak forests
! 42.812	Aquitanian pine-cork oak forests
! 42.814	Hannian manitima mina fanasta
	Iberian maritime pine forests
! 42.82	Mesogean pine forests
! 42.82 ! 42.83	Mesogean pine forests Stone pine forests
! 42.82 ! 42.83 42.84	Mesogean pine forests Stone pine forests Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843 ! 42.844	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests Corsican Aleppo pine woods
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843 ! 42.844 ! 42.845	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests Corsican Aleppo pine woods Sardinian Aleppo pine woods
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843 ! 42.844 ! 42.845 ! 42.846	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests Corsican Aleppo pine woods Sardinian Aleppo pine woods Sicilian Aleppo pine woods Italic Aleppo pine forests Gargano Aleppo pine forests
! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843 ! 42.844 ! 42.845 ! 42.846 42.847 ! 42.8471	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests Corsican Aleppo pine woods Sardinian Aleppo pine woods Sicilian Aleppo pine woods Italic Aleppo pine forests Gargano Aleppo pine forests Metapontine Aleppo pine forests
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! 42.82 ! 42.83 42.84 ! 42.841 ! 42.842 ! 42.843 ! 42.844 ! 42.845 ! 42.846 42.847 ! 42.8471 ! 42.8472 ! 42.8473 ! 42.848 ! 42.849 ! 42.848 ! 42.849 ! 42.848 ! 42.85	Mesogean pine forests Stone pine forests Aleppo pine forests Iberian Aleppo pine forests Balearic Aleppo pine forests Provenço-Ligurian Aleppo pine forests Corsican Aleppo pine woods Sardinian Aleppo pine woods Sicilian Aleppo pine woods Italic Aleppo pine forests Gargano Aleppo pine forests Metapontine Aleppo pine forests Umbrian Aleppo pine forests Hellenic Aleppo pine forests Illyrian Aleppo pine forests East Mediterranean Aleppo pine forests Aegean pine forests Canary Island pine forests Western Palaearctic cypress, juniper and yew forests Western Palaearctic cedar forests

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! 44.3	Middle European stream ash-alder woods
44.4 ! 44.41 ! 44.43 ! 44.44	Mixed oak-elm-ash forests of great rivers Great medio-European fluvial forests South-east European ash-oak-alder forests Po oak-ash-alder forests
! 44.5	Southern alder and birch galleries
44.6 ! 44.66 ! 44.69 ! 44.7	Mediterraneo-Turanian riverine forests Ponto-Sarmatic mixed poplar riverine forest Irano-Anatolian mixed riverine forests Oriental plane and sweet gum woods
! 44.8	Southern riparian galleries and thickets
44.9 44.91 44.911 ! 44.9115 ! 44.914	Alder, willow, oak, aspen swamp woods Adler swamp woods Meso-eutrophic swamp alder woods Eastern Carpathian alder swamp woods Steppe swamp alder woods
! 44.A	Birch and conifer mire woods
! 44.B	Euxino-Hyrcanian wet ground forests
! 45.	TEMPERATE BROAD-LEAVED EVERGREEN FORESTS
<u>5.</u>	BOGS AND MARSHES
51.	RAISED BOGS
! 51.1	Near-natural raised bogs
! 52.	BLANKET BOGS
53.	WATER-FRINGE VEGETATION
! 53.3	Fen-sedge beds
54.	FENS, TRANSITION MIRES AND SPRINGS
54.1 ! 54.12	Springs Hard water springs
! 54.2	Rich fens
! 54.3	Arcto-alpine riverine swards
54.4 54.42 ! 54.426	Acidic fens Black-white-star sedge fens Peri-Danubian black-white-star sedge fens
! 54.5	Transition mires
! 54.6	White beak-sedge and mud bottom communities
! 54.8	Aapa mires
! 54.9	Palsa mires
! 54.A	Polygon mires

<u>6.</u>	INLAND ROCKS, SCREES AND SANDS	
61.	SCREES	
61.3 61.31 ! 61.313	Western Mediterranean and thermophilous screes Peri-Alpine thermophilous screes Paris Basin screes	
! 64.	INLAND SAND DUNES	
! 65.	CAVES	
9.	WOODED GRASSLANDS AND SCRUBS	
91.	PARKLANDS	
! 91.2	Dehesa	
! 93.	WOODED STEPPE	

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Appendix 9

Resolution No. 5 (1998) of the Standing Committee concerning the rules for the Network of areas of special conservation interest (Emerald Network)

(adopted by the Standing Committee on 4 December 1998)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Having regard to its Resolution No. 1 (1989) on the provisions relating to the conservation of habitats;

Having regard to its Recommendation No. 14 (1989) on species habitat conservation and on the conservation of endangered natural habitats;

Having regard to its Recommendation No. 16 (1989) on Areas of Special Conservation Interest;

Having regard to its Resolution No. 3 (1996) on the setting-up of a pan-European Ecological Network;

Having regard to its Resolution No. 4 (1996) listing endangered natural habitats requiring specific habitat conservation measures;

Having regard to its Resolution No. 6 (1998) listing the species requiring specific habitat conservation measures;

Considering that for Contracting Parties which are Member States of the European Union Emerald Network sites are those of the Natura 2000 Network. Thus the procedures established by European Council Directives 79/409/EEC and 92/43/EEC will be the only rules to apply;

Noting that, following points 3 and 4 of Resolution No 3 (1996), the use of the term "governments" in this resolution means the governments of the States Contracting Parties to the Convention, of other Council of Europe States and of other States which are observer States in the Standing Committee of the Convention,

Resolves to adopt hereby the Rules for the Emerald Network of Areas of Special Conservation Interest:

Article 1

Any area, whether land or sea, where that area fits one or several of the conditions established in Recommendation No. 16 (1989), point 1, may form part of the Emerald Network.

Article 2

- 2.1. Areas of Special Conservation Interest (ASCIs) to be included in the Emerald Network shall be designated by the governments.
- 2.2. The Standing Committee may advise the government concerned on the advisability of designating one or more ASCIs that are of a particular interest to the Emerald Network.

Article 3

- 3.1. Any government designating an ASCI shall deposit a standard Data Form with the Secretariat. A model for this Standard Data Form, derived from and compatible with the Natura 2000 Standard Data Form, is found as appendix to this resolution. Governments are encouraged to provide the information for the Standard Data Form on electronic support.
- 3.2. Where the designations conform with the provisions of Article 1 of this resolution, the Secretariat shall notify the government of the fact and shall register them.
- 3.3. If not, the Standing Committee shall advise the government concerned to withdraw the designation. If the overnment nevertheless maintains the designation, the Standing Committee may decide not to accept it.
- 3.4. The information on ASCIs shall be public and stored in a database, except for information communicated as confidential. Governments are requested not to send any confidential information in electronic form, but to do it separately, mentioning its confidentiality. Confidential information shall not be included in the database and shall not become public.

Article 4

- 4.1. The governments shall undertake surveillance of the conservation status of species and natural habitats in designated ASCIs.
- 4.2. The governments shall inform the Secretariat of any important changes likely to affect negatively in a substantial way the ecological character of the designated ASCIs or the conditions having justified their designation.
- 4.3. Where any such changes come to light, the Standing Committee may advise the government concerned on steps to be taken to ensure conformity with the provisions of Recommendation No. 16 (1989).
- 4.4. Exceptions to the provisions of Articles 4, 5, 6 and 7 of the Convention in designated ASCIs shall be regulated by Article 9 of the Convention.

Article 5

- 5.1. The Group of Experts on the Setting-up of the Emerald Network shall follow the progress of the Emerald Network under the aegis of the Standing Committee. It will endeavour, under the aegis of the Standing Committee, to publish regularly lists of designated ASCIs and their character and to make that information available in electronic form.
- 5.2. The Standing Committee shall periodically review the contribution of the Emerald Network towards the achievement of the objectives of the Convention. In this context a designated ASCI may be considered for declassification where this is warranted by natural developments noted as a result of the surveillance provided for in Article 4.1.

Article 6

The Standing Committee shall encourage governments to implement Recommendation No. 16 (1989) on designated ASCIs and shall use its best endeavours to solve any difficulty that may arise in the implementation or interpretation of this resolution.

Appendix to Resolution No. 5

Standard Data entry Form to be filled in for an Area of Special Conservation Interest: see Appendix 13 to this document

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Appendix 10

Resolution No. 6 (1998) of the Standing Committee listing the species requiring specific habitat conservation measures

(adopted by the Standing Committee on 4 December 1998)

The Standing Committee of the Convention on the Conservation of European Wildlife and Natural Habitats, acting under the terms of Article 14 of the convention,

Having regard to its Resolution No. 1 (1989) on the provisions relating to the conservation of habitats;

Having regard to its Recommendation No. 14 (1989) on species habitat conservation and on the conservation of endangered natural habitat types;

Conscious that habitat protection measures are only a part of the measures required for the long term conservation of species;

Taking into account the reservations made by the Contracting Parties at the time of signature or when depositing its instruments of ratification, acceptance, approval or accession;

Taking note of the conclusions of the Council of the European Union of 6 October 1995: "The Council notes that the European Union will be represented in the framework of the Strategy (pan-European Biological and Landscape Diversity Strategy) by Natura 2000", for the European Union the list of species requiring special habitat conservation measures corresponds to Annex II of the Council Directive 92/43/EEC, such as modified by Directive 97/621/CEE and to Annex I of the Council Directive 79/409/EEC of 2 April 1979;

Conscious that some species listed may be abundant in parts of Europe and may not require specific habitat conservation measures everywhere, and marking those species with the sign (#);

Recalling that some species listed may be abundant in some of the Member States of the European Union, and that the appropriate notes in Annex II of the Council Directive 92/43/EEC need to be taken into account for European Union Member States, and marking those species with the sign ¹;

Noting that some species or subspecies listed are not included in Appendices I or II of the Convention, although they appear in Annex II of the Council Directive 92/43/EEC such as modified by Directive 96/62/CEE or in Annex I of the Council Directive 79/409/EEC, and marking those species with the sign 2 ,

1. Resolves to identify the species in Appendix 1 to this resolution as requiring specific habitat conservation measures;

Appendix 1

Species requiring specific habitat conservation measures

PLANTS / PLANTES

PTERIDOPHYTA

ASPLENIACEAE Asplenium jahandiezii (Litard.) Rouy

BLECHNACEAE Woodwardia radicans (L.) Sm.

DICKSONIACEAE Culcita macrocarpa C. Presl

DRYOPTERIDACEAE Diplazium sibiricum (Turcz. ex Kunze) Kurata Dryopteris corleyi Fraser-Jenk. Dryopteris fragans (L.) Schott

HYMENOPHYLLACEAE Trichomanes speciosum Willd.

ISOETACEAE

Isoetes boryana Durieu

Isoetes malinverniana Ces. & De Not.

MARSILEACEAE

Marsilea batardae Launert

Marsilea quadrifolia L.

Marsilea strigosa Willd.

OPHIOGLOSSACEAE

Botrychium simplex Hitchc.

Ophioglossum polyphyllum A. Braun

GYMNOSPERMAE

PINACEAE

Abies nebrodensis (Lojac.) Mattei

ANGIOSPERMAE

ALISMATACEAE

Alisma wahlenbergii (Holmberg) Juz.

Caldesia parnassifolia (L.) Parl.

Luronium natans (L.) Raf.

AMARYLLIDACEAE

Leucojum nicaeense Ard.

Narcissus angustifolius Curt.

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

Sternbergia candida B.

ARISTOLOCHIACEAE

Aristolochia samsunensis Davis

ASCLEPIADACEAE

Vincetoxicum pannonicum (Borhidi) Holub

BORAGINACEAE

Anchusa crispa Viv.

Lithodora nitida (H. Ern) R. Fernandes

Myosotis lusitanica Schuster

Myosotis rehsteineri Wartm.

Myosotis retusifolia R. Afonso

Onosma halophilum Boiss. & Heldr.

Onosma polyphylla Lebed.

Onosma proponticum Aznav.

Omphalodes kuzinskyanae Willk.

Omphalodes littoralis Lehm.

Solenanthus albanicus (Degen & al.) Degen & Baldacci

Symphytum cycladense Pawl.

CAMPANULACEAE

Asyneuma giganteum (Boiss.) Bornm.

Campanula damboldtiana

Campanula gelida Kovanda

Campanula lycica

Campanula romanica Savul.

Campanula sabatia De Not.

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

Jasione lusitanica A. DC.

CARYOPHYLLACEAE

Arenaria ciliata L. ssp. pseudofrigida Ostenf. & O.C. Dahl

Arenaria humifusa Wahlenberg

Arenaria nevadensis Boiss. & Reuter

Arenaria provincialis Chater & Halliday

Cerastium alsinifolium Tausch

Dianthus arenarius L. subsp. arenarius

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

Dianthus hypanicus Andrz.

Dianthus marizii (Samp.) Samp.

Dianthus nitidus Waldst. et Kit.

Dianthus rupicola Biv.

Dianthus serotinus Waldst. et Kit.

Dianthus urumoffii Stoj. et Acht.

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 hypanica Grynj. et Klok.

Moehringia lateriflora (L.) Fenzl.

Moehringia tommasinii Marches.

Petrocoptis grandiflora Rothm.

Petrocoptis montsicciana O. Bolos & Rivas Mart.

Petrocoptis pseudoviscosa Fernandez Casas

Saponaria halophila

Silene cretacea Fisch. ex Spreng.

Silene furcata Rafin. ssp. angustiflora (Rupr.) Walters

Silene hicesiae Brullo & Signorello

Silene hifacensis Rouy ex Willk.

Silene holzmanii Heldr. ex Boiss.

Silene longicilia (Brot.) Otth.

Silene mariana Pau

Silene orphanidis Boiss.

Silene rothmaleri Pinto da Silva

Silene salsuginae Hub.-Mor.

Silene sangaria Coode & Cullen

Silene velutina Pourret ex Loisel.

CHENOPODIACEAE

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

Beta trojana Pamuk. apud Aellen

Microcnemum coralloides subsp. anatolicum

Suaeda cucullata Aellen

Salicornia veneta Pignatti & Lausi

CISTACEAE

Cistus palhinhae Ingram

Halimium verticillatum (Brot.) Sennen

Helianthemum arcticum (Grosser) Janch.

Helianthemum alypoides Losa & Rivas Goday

Helianthemum caput-felis Boiss.

Tuberaria major (Willk.) Pinto da Silva & Rozeira

COMPOSITAE

Achillea glaberrima Klok.

Achillea thracica Velen.

Anacyclus latealatus Hub.-Mor.

Andryala levitomentosa (E. I. Nayardy) P. D. Sell

Anthemis glaberrima (Rech. f.) Greuter

Anthemis halophila Boiss. & Bal.

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

Artemisia granatensis Boiss.

Artemisia laciniata Willd.

Artemisia oelandica (Besser) Komaror

Artemisia pancicii (Janka) Ronn.

Aster pyrenaeus Desf. ex DC

Aster sorrentinii (Tod) Lojac.

Carduus myriacanthus Salzm. ex DC.

Centaurea akamantis Th Georgiades & G Chatzikyriakou

Centaurea alba L. subsp. heldreichii (Halacsy) Dostal

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

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

Centaurea balearica J. D. Rodriguez

Centaurea borjae Valdes-Berm. & Rivas Goday

Centaurea citricolor Font Quer

Centaurea corymbosa Pourret

Centaurea dubjanskyi Iljin.

Centaurea gadorensis G. Blanca

Centaurea hermannii F. Hermann

Centaurea horrida Badaro

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 pineticola Iljin.

Centaurea pontica Prodan & E. I. Nayardy

Centaurea pseudoleucolepis Kleop

Centaurea pulvinata (G. Blanca) G. Blanca

Centaurea rothmalerana (Arènes) Dostál

Centaurea tchihatcheffii Fich. & Mey

Centaurea vicentina Mariz

Crepis crocifolia Boiss. & Heldr.

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

Crepis tectorum L. subsp. nigrescens

Dendranthema zawadskyi (Herb.) Tzvel.

Erigeron frigidus Boiss. ex DC.

Hymenostemma pseudanthemis (Kunze) Willd.

Jurinea cyanoides (L.) Reichenb.

Jurinea fontqueri Cuatrec.

Lagoseris purpurea (Willd.) Boiss.

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.

Santolina impressa Hoffmanns. & Link

Santolina semidentata Hoffmanns. & Link

Senecio elodes Boiss. ex DC.

Senecio jacobea L. subsp. gotlandicus (Neuman) Sterner

Senecio nevadensis Boiss. & Reuter

Serratula tanaitica P. Smirn.

Sonchus erzincanicus Matthews

CONVOLVULACEAE

Convolvulus argyrothamnus Greuter

Convolvulus fernandesii Pinto da Silva & Teles

Convolvulus pulvinatus Sa'ad

CRUCIFERAE

Alyssum pyrenaicum Lapeyr.

Arabis sadina (Samp.) P. Cout.

Armoracia macrocarpa (Waldst. & Kit.) Kit. ex Baumg

Biscutella neustriaca Bonnet

Biscutella vincentina (Samp.) Rothm.

Boleum asperum (Pers.) Desvaux

Brassica glabrescens Poldini Brassica insularis Moris

Brassica macrocarpa Guss.

Brassica sylvestris (l.) Mill. subsp. taurica Tzvel.

Braya linearis Rouy

Cochlearia polonica Frohlich

Coincya rupestris Rouy

Coronopus navasii Pau

Crambe koktebelica (Junge) N. Busch.

Crambe litwinonowii K. Gross.

Diplotaxis ibicensis (Pau) Gomez-Campo

Diplotaxis siettiana Maire

Diplotaxis vicentina (P. Cout.) Rothm.

Draba cacuminum Elis Ekman

Draba cinerea Adams

Erucastrum palustre (Pirona) Vis.

Erysimum pieninicum (Zapal.) Pawl.

Iberis arbuscula Runemark

Iberis procumbens Lange subsp. microcarpa Franco & Pinto da Silva

Jonopsidium acaule (Desf.) Reichenb.

Jonopsidium savianum (Caruel) Ball ex Arcang.

Lepidium turczaninowii Lipsky.

Rhynchosinapis erucastrum (L.) Dandy ex Clapham subsp. cintrana (Coutinho)

Franco & P. Silva (Coincya cintrana (P. Cout.) Pinto da Silva)

Schivereckia podolica (Besser) Andrz.

Sisymbrium cavanillesianum Valdes & Castroviejo

Sisymbrium supinum L.

Thlaspi cariense

CYPERACEAE

Carex holostoma Drejer

Carex panormitana Guss.

Eleocharis carniolica Koch

DIOSCOREACEAE

Borderea chouardii (Gaussen) Heslot

DIPSACACEAE

Dipsacus cephalarioides

DROSERACEAE

Aldrovanda vesiculosa L.

ERICACEAE

Vaccinium arctostaphylos L.

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

GERANIACEAE

Erodium astragaloides Boiss. & Reuter

Erodium paularense Fernandez-Gonzalez & Izco

Erodium rupicola Boiss.

GLOBULARIACEAE

Globularia stygia Orph. ex Boiss.

GRAMINEAE

Arctagrostis latifolia (R. Br.) Griseb.

Arctophila fulva (Trin.) N. J. Anderson

Avenula hackelii (Henriq.) Holub

Bromus grossus Desf. ex DC.

Bromus psammophilus

Calamagrostis chalybaea (Laest.) Fries

Cinna latifolia (Trev.) Griseb.

Coleanthus subtilis (Tratt.) Seidl

Eremopoa mardinensis

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

Festuca duriotagana Franco & R. Afonso

Festuca elegans Boiss.

Festuca henriquesii Hack.

Festuca summilusitana Franco & R. Afonso

Gaudinia hispanica Stace & Tutin

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

Micropyropsis tuberosa Romero - Zarco & Cabezudo

Poa granitica Br.- Bl.

Poa riphaea (Ascherson 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 syreistschikowii P. Smirn.

Stipa veneta Moraldo

Trisetum subalpestre (Hartman) Neuman

GROSSULARIACEAE

Ribes sardoum Martelli

HIPPURIDACEAE

Hippuris tetraphylla L. Fil.

HYPERICACEAE

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

Hypericum salsugineum

IRIDACEAE

Crocus abantensis

JUNCACEAE

Juncus valvatus Link

Luzula arctica Blytt #

LABIATAE

Dracocephalum austriacum L.

Micromeria taygetea P. H. Davis

Nepeta dirphya (Boiss.) Heldr. ex Halacsy

Nepeta sphaciotica P. H. Davis

Origanum dictamnus L.

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 aitosensis Ivanisch.

Astragalus algarbiensis Coss. ex Bunge

Astragalus aquilanus Anzalone

Astragalus centralpinus Braun-Blanquet

Astragalus kungurensis Boriss.

Astragalus maritimus Moris

Astragalus peterfii Jav.

Astragalus physocalyx Fischer

Astragalus tremolsianus Pau

Astragalus setosulus Gontsch.

Astragalus tanaiticus C. Koch.

Astragalus verrucosus Moris

Cytisus aeolicus Guss. ex Lindl.

Genista dorycnifolia Font Quer

Genista holopetala (Fleischm. ex Koch) Baldacci

Genista tetragona Bess.

Glycyrrhiza iconica

Hedysarum razoumovianum Fisch. et Helm.

Melilotus segetalis (Brot.) Ser. subsp. fallax Franco

Ononis hackelii Lange

Sphaerophysa kotschyana

Thermopsis turcica

Trifolium banaticum (Heuffel) Majovsky

Trifolium pachycalyx

Trifolium saxatile All.

Trigonella arenicola

Trigonella halophila

Trigonella polycarpa

Vicia bifoliolata J.D. Rodriguez

LENTIBULARIACEAE

Pinguicula nevadensis (Lindb.) Casper

LILIACEAE

Allium grosii Font Quer

Allium regelianum A. Beck.

Allium vuralii

Androcymbium rechingeri Greuter

Asparagus lycaonicus

Asphodelus bento-rainhae P. Silva

Chionodoxa luciliae

Colchicum davidovii Stef.

Colchicum fominii Bordz.

Colchicum micranthum

Fritillaria montana Hoppe.

Hyacinthoides vicentina (Hoffmans. & Link) Rothm.

Lilium jankae A. Kerner

Lilium rhodopaeum Delip.

Muscari gussonei (Parl.) Tod.

Tulipa hungarica Borbas

LINACEAE

Linum dolomiticum Borbas

Linum muelleri Moris (Linum maritimum muelleri)

LYTHRACEAE

Lythrum flexuosum Lag.

MALVACEAE

Kosteletzkya pentacarpos (L.) Ledeb.

NAJADACEAE

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

Najas tenuissima (A. Braun) Magnus

OLEACEAE

Syringa josikaea Jacq. fil.

ORCHIDACEAE

Calypso bulbosa L.

Cephalanthera cucullata Boiss. & Heldr.

Cypripedium calceolus L.

Dactylorhiza chuhensis

Gymnigritella runei Teppner & Klein

Liparis loeselii (L.) Rich.

Ophrys isaura

Ophrys lunulata Parl.

Ophrys lycia

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

Steveniella satyrioides (Stev.) Schlechter.

PAEONIACEAE

Paeonia cambessedesii (Willk.) Willk.

Paeonia parnassica Tzanoudakis

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

Paeonia tenuifolia L.

PALMAE

Phoenix theophrasti Greuter

PAPAVERACEAE

Corydalis gotlandica Lidén

Papaver laestadianum (Nordh.) Nordh.

Papaver radicatum Rottb. subsp. hyperboreum Nordh.

PLANTAGINACEAE

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

Plantago almogravensis Franco

PLUMBAGINACEAE

Armeria berlengensis Daveau

Armeria helodes Martini & Pold

Armeria neglecta Girard

Armeria pseudarmeria (Murray) Mansfeld

Armeria rouyana Daveau

Armeria soleirolii (Duby) Godron

Armeria velutina Welw. ex Boiss. & Reuter

Limonium anatolicum

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

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

Limonium lanceolatum (Hoffmans. & Link) Franco

Limonium multiflorum Erben

Limonium pseudolaetum Arrig. & Diana

Limonium strictissimum (Salzmann) Arrig.

Limonium tamaricoides

POLYGONACEAE

Persicaria foliosa (H. Lindb.) Kitag.

Polygonum praelongum Coode & Cullen

Rheum rhaponticum L

Rumex rupestris Le Gall

PRIMULACEAE

Androsace mathildae Levier

Androsace pyrenaica Lam.

Cyclamen kuznetzovii Kotov et Czernova

Cyclamen mirabile

Primula apennina Widmer

Primula nutans Georgi

Primula palinuri Petagna

Primula scandinavica Bruun #

Soldanella villosa Darracq.

RANUNCULACEAE

Aconitum corsicum Gayer (Aconitum napellus subsp. corsicum)

Aconitum flerovii Steinb.

Adonis distorta Ten.

Anemone uralensis Nevski.

Aquilegia bertolonii Schott

Aquilegia kitaibelii Schott

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

Consolida samia P.H. Davis

Pulsatilla grandis Wend. (Pulsatilla halleri (All.) Willd. subsp. grandis (Wend.) Meikle

Pulsatilla patens (L.) Miller

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

Ranunculus lapponicus L.

Ranunculus weyleri Mares

RESEDACEAE

Reseda decursiva Forssk.

ROSACEAE

Agrimonia pilosa Ledebour

Potentilla emilii-popii E. I. Nayardy

Potentilla delphinensis Gren. & Godron

Potentilla silesiaca Uechtr.

Pyrus anatolica

Sorbus teodori Liljefors

RUBIACEAE

Galium cracoviense Ehrend.

Galium globuliferum

Galium litorale Guss.

Galium moldavicum (Dobrescu) Franco

Galium viridiflorum Boiss. & Reuter

SALICACEAE

Salix salvifolia Brot. subsp. australis Franco

SANTALACEAE

Thesium ebracteatum Hayne

SAXIFRAGACEAE

Saxifraga berica (Beguinot) D.A. Webb

Saxifraga florulenta Moretti

Saxifraga hirculus L. #

Saxifraga osloënsis Knaben

Saxifraga tombeanensis Boiss. ex Engl.

SCROPHULARIACEAE

Antirrhinum charidemi Lange

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

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Euphrasia genargentea (Feoli) Diana

Euphrasia marchesettii Wettst. ex Marches.

Linaria algarviana Chav.

Linaria coutinhoi Valdés

Linaria ficalhoana Rouy

Linaria flava (Poiret) Desf.

Linaria hellenica Turrill

Linaria ricardoi Cout.

Linaria tursica B. Valdes & Cabezudo

Linaria tonzigii Lona

Odontites granatensis Boiss.

Pedicularis sudetica Willd.

Verbascum basivelatum

Verbascum degenii

Verbascum litigiosum Samp.

Verbascum purpureum (Janka) Huber-Morath

Verbascum stepporum

Veronica micrantha Hoffmanns. & Link

Veronica euxina Turrill

Veronica oetaea L.-A. Gustavsson

Veronica turrilliana Stoj. et Stef.

SOLANACEAE

Atropa baetica Willk.

THYMELAEACEAE

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 halophila

Laserpitium longiradium Boiss.

Naufraga balearica Constans & Cannon

Oenanthe conioides Lange

Petagnia saniculifolia Guss.

Rouya polygama (Desf.) Coincy

Seseli intricatum Boiss.

Thorella verticillatinundata (Thore) Briq.

VALERIANACEAE

Centranthus kellereri (Stoj. Stef. et Georg.) Stoj. et Stef.

Centranthus trinervis (Viv.) Beguinot

VIOLACEAE

Viola hispida Lam.

Viola jaubertiana Mares & Vigineix

Viola rupestris F.W. Schmidt subsp. relicta Jalas

BRYOPHYTA

Bruchia vogesiaca Schwaegr.

Bryhnia novae-angliae (Sull & Lesq.) Grout

Bryoerythrophyllum campylocarpum (C. Müll.) Crum. (Bryoerythrophyllum machadoanum (Sergio)

M.O. Hill)

Buxbaumia viridis (Moug.) Moug. & Nestl.

Cephalozia macounii (Aust.) Aust.

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

Dichelyma capillaceum (Dicks) Myr.

Dicranum viride (Sull. & Lesq.) Lindb.

Distichophyllum carinatum Dix. & Nich.

Drepanocladus (Hamatocaulis) vernicosus (Mitt.) Warnst.

Encalypta mutica (I. Hagen)

Hamatocaulis lapponicus (Norrl.) Hedenäs

Herzogiella turfacea (Lindb.) I. Wats.

Hygrohypnum montanum (Lindb.) Broth.

Jungermannia handelii (Schiffn.) Amak.

Mannia triandra (Scop.) Grolle

Marsupella profunda Lindb.

Meesia longiseta Hedw.

Nothothylas orbicularis (Schwein.) Sull.

Orthothecium lapponicum (Schimp.) C. Hartm.

Orthotrichum rogeri Brid.

Petalophyllum ralfsii (Wils.) Nees & Gott.

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

Riccia breidleri Jur.

Riella helicophylla (Bory & Mont.) Mont.

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

Sphagnum pylaisii Brid.

Tayloria rudolphiana (Garov) B. & S.

Tortella rigens (N. Alberts)

SPECIES FROM THE MACARONESIAN REGION ESPÈCES DE LA REGION MACARONÉSIENNE

PTERIDOPHYTA

HYMENOPHYLLACEAE

Hymenophyllum maderensis Gibby & Lovis

DRYOPTERIDACEAE

Polystichum drepanum (Sw.) C. Presl.

ISOETACEAE

Isoetes azorica Durieu & Paiva ex Milde

MARSILEACEAE

Marsilea azorica Launert & Paiva

ANGIOSPERMAE

ASCLEPIADACEAE

Caralluma burchardii N. E. Brown Ceropegia chrysantha Svent.

BORAGINACEAE

Echium candicans L. fil.

Echium gentianoides Webb & Coincy

Myosotis azorica H. C. Watson

Myosotis maritima Hochst. in Seub.

CAMPANULACEAE

Azorina vidalii (H. C. Watson) Feer

Musschia aurea (L. f.) DC.

Musschia wollastonii Lowe

CAPRIFOLIACEAE

Sambucus palmensis Link

CARYOPHYLLACEAE

Spergularia azorica (Kindb.) Lebel

CELASTRACEAE

Maytenus umbellata (R. Br.) Mabb.

CHENOPODIACEAE

Beta patula Ait.

CISTACEAE

Cistus chinamadensis Bañares & Romero Helianthemum bystropogophyllum Svent.

COMPOSITAE

Andryala crithmifolia Ait.

Argyranthemum lidii Humphries

Argyranthemum thalassophylum (Svent.) Hump.

Argyranthemum winterii (Svent.) Humphries

Atractylis arbuscula Svent. & Michaelis

Atractylis preauxiana Schultz.

Calendula maderensis DC.

Cheirolophus duranii (Burchard) Holub

Cheirolophus ghomerytus (Svent.) Holub

Cheirolophus junonianus (Svent.) Holub

Cheirolophus massonianus (Lowe) Hansen & Sund.

Cirsium latifolium Lowe

Helichrysum gossypinum Webb

Helichrysum monogynum Burtt & Sund.

Hypochoeris oligocephala (Svent. & Bramw.) Lack

Lactuca watsoniana Trel.

Onopordum nogalesii Svent.

Onorpordum carduelinum Bolle

Pericallis hadrosoma (Svent.) B. Nord.

Phagnalon benettii Lowe

Stemmacantha cynaroides (Chr. Son. in Buch) Ditt

Sventenia bupleuroides Font Quer

Tanacetum ptarmiciflorum Webb & Berth

CONVOLVULACEAE

Convolvulus caput-medusae Lowe

Convolvulus lopez-socasii Svent.

Convolvulus massonii A. Dietr.

CRASSULACEAE

Aeonium gomeraense Praeger

Aeonium saundersii Bolle

Aichryson dumosum (Lowe) Praeg.

Monanthes wildpretii Banares & Scholz

Sedum brissemoretii Raymond-Hamet

CRUCIFERAE

Crambe arborea Webb ex Christ

Crambe laevigata DC. ex Christ

Crambe sventenii R. Petters ex Bramwell & Sund.

Parolinia schizogynoides Svent.

Sinapidendron rupestre (Ait.) Lowe

CYPERACEAE

Carex malato-belizii Raymond

DIPSACACEAE

Scabiosa nitens Roemer & J. A. Schultes

ERICACEAE

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

EUPHORBIACEAE

Euphorbia handiensis Burchard

Euphorbia lambii Svent.

Euphorbia stygiana H. C. Watson

GERANIACEAE

Geranium maderense P. F. Yeo

GRAMINEAE

Deschampsia maderensis (Haeck. & Born.) Buschm.

Phalaris maderensis (Menezes) Menezes

GLOBULARIACEAE

Globularia ascanii D. Bramwell & Kunkel

Globularia sarcophylla Svent.

LABIATAE

Sideritis cystosiphon Svent.

Sideritis discolor (Webb ex de Noe) Bolle

Sideritis infernalis Bolle

Sideritis marmorea Bolle

Teucrium abutiloides L'Hér. Teucrium betonicum L'Hér.

LEGUMINOSAE

Anagyris latifolia Brouss. ex. Willd.
Anthyllis lemanniana Lowe
Dorycnium spectabile Webb & Berthel
Lotus azoricus P. W. Ball
Lotus callis-viridis D. Bramwell & D. H. Davis
Lotus kunkelii (E. Chueca) D. Bramwell & al.
Teline rosmarinifolia Webb & Berthel.
Teline salsoloides Arco & Acebes.
Vicia dennesiana H. C. Watson

LILIACEAE

Androcymbium psammophilum Svent. Scilla maderensis Menezes Semele maderensis Costa LORANTHACEAE Arceuthobium azoricum Wiens & Hawksw.

MYRICACEAE

Myrica rivas-martinezii Santos.

OLEACEAE

Jasminum azoricum L. Picconia azorica (Tutin) Knobl.

ORCHIDACEAE

Goodyera macrophylla Lowe

PITTOSPORACEAE

Pittosporum coriaceum Dryand. ex. Ait.

PLANTAGINACEAE

Plantago malato-belizii Lawalree

PLUMBAGINACEAE

Limonium arborescens (Brouss.) Kuntze Limonium dendroides Svent. Limonium spectabile (Svent.) Kunkel & Sunding Limonium sventenii Santos & Fernandez Galvan

POLYGONACEAE

Rumex azoricus Rech. fil.

RHAMNACEAE

Frangula azorica Tutin

ROSACEAE

Bencomia brachystachya Svent.
Bencomia sphaerocarpa Svent.
Chamaemeles coriacea Lindl.
Dendriopoterium pulidoi Svent.
Marcetella maderensis (Born.) Svent.
Prunus lusitanica L. subsp. azorica (Mouillef.) Franco
Sorbus maderensis (Lowe) Dode

SANTALACEAE

Kunkeliella subsucculenta Kammer

SCROPHULARIACEAE

Euphrasia azorica H.C. Watson Euphrasia grandiflora Hochst. in Seub. Isoplexis chalcantha Svent. & O'Shanahan Isoplexis isabelliana (Webb & Berthel.) Masferrer Odontites holliana (Lowe) Benth. Sibthorpia peregrina L.

SOLANACEAE

Solanum lidii Sunding

UMBELLIFERAE

Ammi trifoliatum (H. C. Watson) Trelease

Bupleurum handiense (Bolle) Kunkel

Chaerophyllum azoricum Trelease

Ferula latipinna Santos

Melanoselinum decipiens (Schrader & Wendl.) Hoffm.

Monizia edulis Lowe

Oenanthe divaricata (R. Br.) Mabb.

Sanicula azorica Guthnick ex Seub.

VIOLACEAE

Viola paradoxa Lowe

BRYOPHYTA

Echinodium spinosum (Mitt.) Jur. Thamnobryum fernandesii Sergio

VERTEBRATES/VERTÉBRÉS

Mammals/Mammifères

INSECTIVORA

Talpidae

Desmana moschata

Galemys pyrenaicus

CHIROPTERA

Rhinolophidae

Rhinolophus blasii

Rhinolophus euryale

Rhinolophus ferrumequinum

Rhinolophus hipposideros

Rhinolophus mehelyi

Vespertilionidae

Barbastella barbastellus

Eptesicus bottae

Miniopterus schreibersi

Myotis bechsteini

Myotis blythii

Myotis capaccinii

Myotis dasycneme

Myotis emarginatus

Myotis myotis

RODENTIA

Sciuridae

Pteromys volans (Sciuropterus russicus)#

Spermophilus citellus (Citellus citellus)#

Spermophilus suslicus (Citellus suslicus) #

Castoridae

Castor fiber # 1, 2

Microtidae

Microtus cabrerae

Microtus oeconomus arenicola # 2

Microtus tatricus

Spalax graecus

Cricetidae

Mesocricetus newtoni

CARNIVORA

Canidae

Alopex lagopus #

Canis lupus #

Cuon alpinus

Ursidae

Ursus arctos # 1

Ursus maritimus

Mustelidae

Gulo gulo#

Lutra lutra #

Mustela lutreola

Felidae

Caracal caracal

Lynx lynx #

Lynx pardinus

Panthera pardus

Odobenidae

Odobenus rosmarus

Phocidae

Halichoerus grypus # 2

Monachus monachus

Phoca hispida bottnica ²

Phoca hispida saimensis

Phoca hispida ladogensis

Phoca vitulina # 2

ARTIODACTYLA

Cervidae

Cervus elaphus corsicanus

Rangifer tarandus fennicus ²

Bovidae

Capra aegagrus (natural populations/populations naturelles)

Capra pyrenaica pyrenaica

Gazella subgutturosa

Gazella dorcas

Ovis gmelini musimon (Ovis ammon musimon) (natural populations - Corsica and Sardinia / populations naturelles - Corse et

Rupicapra pyrenaica ornata (Rupicapra rupicapra ornata)

Rupicapra rupicapra balcanica

CETACEA

Delphinidae

Tursiops truncatus #

Phocoenidae

Phocoena phocoena #

Birds/Oiseaux

GAVIIFORMES

Gaviidae

Gavia adamsii

Gavia arctica

Gavia immer Gavia stellata

PODICIPEDIFORMES

Podicipedidae

Podiceps auritus

PROCELLARIIFORMES

Hydrobatidae

Hydrobates pelagicus #

Oceanodroma castro

Oceanodroma leucorhoa #

Pelagodroma marina

Procellariidae

Bulweria bulwerii

Calonectris diomedea (Procellaria diomedea)

Puffinus assimilis

Puffinus yelkouan mauretanicus (Puffinus puffinus mauretanicus)

Puffinus yelkouan (Puffinus puffinus yelkouan)¹

Pterodroma feae

Pterodroma madeira

PELECANIFORMES

Pha la crocoracida e

Phalacrocorax aristotelis desmarestii ²

Phalacrocorax pygmaeus

Pelecanidae

Pelecanus crispus

Pelecanus onocrotalus

CICONIIFORMES

Ardeidae

Ardea purpurea

Ardeola ralloides

Botaurus stellaris

Casmerodius albus (Egretta alba)

Egretta garzetta

Ixobrychus minutus

Nycticorax nycticorax

Ciconiidae

Ciconia nigra

Ciconia ciconia

Threskiornithidae

Plegadis falcinellus

Platalea leucorodia

Phoenicopteridae

Phoenicopterus ruber

ANSERIFORMES

Anatidae

Anser albifrons flavirostris ²

Anser erythropus

Aythya nyroca 2

Branta leucopsis

Branta ruficollis

Bucephala islandica

Cygnus bewickii (Cygnus columbianus bewickii) #

Cygnus cygnus #

Histrionicus histrionicus

Marmaronetta angustirostris (Anas angustirostris)

Mergus albellus

Oxyura leucocephala

Tadorna ferruginea

FALCONIFORMES

Accipitridae

Accipiter brevipes

Accipiter gentilis arrigonii

Accipiter nisus granti

Aegypius monachus

Aquila adalberti

Aquila chrysaetos

Aquila clanga

Aquila heliaca

Aquila nipalensis

Aquila pomarina

Buteo rufinus

Circaetus gallicus

Circus aeruginosus

Circus cyaneus

Circus macrourus Circus pygargus

Elanus caeruleus

Gypaetus barbatus

Gyps fulvus

Haliaeetus albicilla

Hieraaetus fasciatus

Hieraaetus pennatus

Milvus migrans

Milvus milvus

Neophron percnopterus

Pernis apivorus

Pandionidae

Pandion haliaetus

Falconidae

Falco biarmicus

Falco columbarius #

Falco eleonorae

Falco naumanni

Falco peregrinus

Falco rusticolus

Falco vespertinus

GALLIFORMES

Tetraonidae

Bonasa bonasia $^{\rm 2}$

Lagopus mutus helveticus ² Lagopus mutus pyrenaicus ²

Tetrao tetrix tetrix ²
Tetrao urogallus ^{2 (only T.u.} cantabricus in App II / seulement T.u.cantabricus est à l'annexe II)

Phasianidae

Alectoris barbara ²

Alectoris graeca saxatilis ²

Alectoris graeca whitakeri ²

Perdix perdix hispaniolensis²

Perdix perdix italica 2

GRUIFORMES

Turnicidae

Turnix sylvatica

Rallidae

Crex crex

Fulica cristata

Porphyrio porphyrio

Porzana parva

Porzana porzana

Porzana pusilla Gruidae

Grus grus

Otididae

Chlamydotis undulata

Otis tarda

Tetrax tetrax

CHARADRIIFORMES

Charadriidae

Charadrius asiaticus ²

Charadrius leschenaultii

Charadrius morinellus (Eudromias morinellus)

Chettusia gregaria 2

Hoplopterus spinosus

Pluvialis apricaria # 2

Scolopacidae

Gallinago media

Limosa lapponica Numenius tenuirostris

Philomachus pugnax

Tringa glareola

Xenus cinereus (Tringa cinereus)²

Recurvirostridae

Himantopus himantopus

Recurvirostra avosetta

Phalaropodidae

Phalaropus fulicarius

Phalaropus lobatus Burhinidae

Burhinus oedicnemus

Glareolidae

Cursorius cursor

Glareola nordmanni

Glareola pratincola

Laridae

Chlidonias hybridus

Chlidonias leucopterus Chlidonias niger

Gelochelidon nilotica

Larus audouinii Larus genei

Larus melanocephalus

Pagophila eburnea

Sterna albifrons

Sterna caspia (Hydroprogne caspia)

Sterna dougallii

Sterna hirundo

Sterna paradisaea (macrura)

Sterna sandvicensis

Alcidae

Uria aalge ibericus ²

COLUMBIFORMES

Pteroclididae

Pterocles alchata

Pterocles orientalis

Columbidae

Columba bollii

Columba junoniae

Columba palumbus azorica 2

Columba trocaz 2

STRIGIFORMES

Strigidae

Aegolius funereus

Asio flammeus

Bubo bubo

Glaucidium passerinum

Ketupa zeylonensis

Nyctea scandiaca

Strix nebulosa

Strix uralensis

Surnia ulula

CAPRIMULGIFORMES

Caprimulgidae

Caprimulgus europaeus

APODIFORMES

Apodidae

Apus caffer

CORACIIFORMES

Alcedinidae

Alcedo atthis

Halcyon smyrnensis

Coraciidae

Coracias garrulus

PICIFORMES

Picidae

Dendrocopos leucotos

Dendrocopos major canariensis

Dendrocopos major thanneri

Dendrocopos medius

Dendrocopos syriacus

Dryocopus martius

Picoides tridactylus

Picus canus

PASSERIFORMES

Alaudidae

Calandrella brachydactyla

Chersophilus duponti

Galerida theklae

Lullula arborea 2

Melanocorypha calandra

Melanocorypha yeltoniensis

Motacillidae

Anthus campestris

Laniidae

Lanius collurio

Lanius minor

Troglodytidae
Troglodytes troglodytes fridariensis

Muscicapidae

Turdinae

Luscinia svecica (Cyanosylvia svecica)

Oenanthe cypriaca (Oenenathe pleschanka cypriaca)

Oenanthe leucura

Saxicola dacotiae

Sylviinae

Acrocephalus melanopogon

Acrocephalus paludicola

Hippolais olivetorum

Sylvia nisoria

Sylvia rueppelli

Sylvia sarda

Sylvia undata

Muscicapinae

Ficedula albicollis

Ficedula parva

Ficedula semitorquata

Sittidae

Sitta krueperi

Sitta whiteheadi

Emberizidae

Emberiza caesia

Emberiza cineracea

Emberiza hortulana ²

Fringillidae

Bucanetes githagineus (Rhodopechys githaginea)

Fringilla coelebs ombrosa

Fringilla teydea

Loxia scotica

Pyrrhula murina ²

Corvidae

Pyrrhocorax pyrrhocorax

Reptiles

CHELONIA (TESTUDINES)

Testudinidae

Testudo graeca

Testudo hermanni

Testudo marginata

Cheloniidae

Caretta caretta

Chelonia mydas

Emydidae

Emys orbicularis

Mauremys caspica

Mauremys leprosa

Try onychidae

Rafetus euphraticus

Tryonix triunguis

SAURIA

Lacertidae

Gallotia galloti insulanagae

Gallotia simonyi

Lacerta bonnali (Lacerta monticola)

Lacerta clarkorum

Lacerta monticola (Archaeolacerta monticola)

Lacerta schreiberi

Podarcis lilfordi

Podarcis pityusensis

Scincidae

Chalcides simonyi (Chalcides occidentalis)

Gekkonidae

Phyllodactylus europaeus

OPHIDIA (SERPENTES)

Colubridae

Coluber cypriensis

Elaphe quatuorlineata#

Elaphe situla #

Viperidae

Macrovipera schweizeri (Vipera lebetina schweizeri)

Vipera albizona

Vipera barani

Vipera kaznakovi

Vipera pontica

Vipera ursinii

Vipera wagneri

Amphibians/Amphibiens

CAUDATA

Salamandridae

Chioglossa lusitanica

Mertensiella luschani (Salamandra luschani)

Salamandra atra aurorae²

Salamandrina terdigitata

Triturus carnifex (Triturus cristatus carnifex)

Triturus cristatus (Triturus cristatus cristatus)#

Triturus dobrogicus (Triturus cristatus dobrogicus)

Triturus karelinii (Triturus cristatus karelinii)#

Triturus montandoni

Proteidae

Proteus anguinus

Plethodontidae

Hydromantes ambrosii (Speleomantes ambrosii)²

Hydromantes flavus (Speleomantes flavus)

Hydromantes genei (Speleomantes genei)

Hydromantes imperialis (Speleomantes imperialis)

Hydromantes strinatii (Speleomantes strinatii)²

Hydromantes supramontes (Speleomantes supramontes)

ANURA

Discoglossidae

Alytes muletensis

Bombina bombina#

Bombina variegata#

Discoglossus galganoi (incl. Discoglossus jeanneae)

Discoglossus montalentii

Discoglossus sardus

Neurergus crocatus

Neurergus strauchi

Ranidae

Rana holtzi

Rana latastei

Pelobatidae

Pelobates fuscus insubricus

Fish/Poissons

OSTEICHTHYES

PETROMYZONIFORMES

Petromyzonidae

Eudontomyzon spp. ² Lampetra fluviatilis ^{1, 2} #

Lampetra planeri 1,2 #

Lethenteron zanandreai (Lampetra zanandreai)

Petromyzon marinus^{1, 2} #

ACIPENSERIFORMES

Acipenseridae

Acipenser naccarii

Acipenser sturio

SALMONIFORMES

Salmonidae

Hucho hucho (natural polulations/populations naturelles) ²

Salmo macrostigma²

Salmo marmoratus²

Salmo salar (only in freshwater/uniquement en eau douce) # 1,2

Coregonidae

Coregonus oxyrhynchus 1 #

CYPRINIFORMES

Cyprinidae

Alburnus albidus (Alburnus vulturius) ²

Anaecypris hispanica ² Aspius aspius # ^{1, 2}

Barbus capito

Barbus comiza 2 Barbus meridionalis 2 Barbus plebejus Chalcalburnus chalcoides ² Chondrostoma genei Chondrostoma lusitanicum ² Chondrostoma polylepis Chondrostoma soetta Chondrostoma toxostoma $^{2}\,$ Gobio albipinnatus ² Gobio uranoscopus ²

Iberocypris palaciosi²

Ladigesocypris ghigii ² Leuciscus lucumonis ²

Leuciscus souffia² Phoxinellus spp. 2

Rhodeus sericeus amarus # 2

Rutilus alburnoides 2 Rutilus arcasii 2

Rutilus frisii meidingeri 2

Rutilus lemmingii 2

Rutilus macrolepidotus²

Rutilus pigus 2 Rutilus rubilio ²

Scardinius graecus 2

Cobitidae

Cobitis taenia 1, 2 # Cobitis trichonica²

Misgurnus fossilis ² Sabanejewia aurata ²

Sabanejewia larvata (Cobitis larvata et Cobitis conspersa)²

SILURIFORMES

Siluridae

Silurus aristotelis²

ATHERINIFORMES

Cyprinodontidae

Aphanius iberus

Aphanius fasciatus

Valencia hispanica

Valencia letourneuxi

SCORPAENIFORMES

Cottidae

Cottus gobio $^{1,\,2}$ #

Cottus petiti

PERCIFORMES

Percidae

Gymnocephalus schraetzer²

Romanichthys valsanicola ² (proposed for Appendix II/proposition pour l'Annexe II)

Zingel spp. Gobiidae

Knipowitschia panizzae (Padogobius panizzae) ²

Padogobius nigricans 2

Pomatoschistus canestrini ²

CLUPEIFORMES

Clupeidae

Alosa spp. # ²

INVERTEBRATES/INVERTEBRES

Arthropods/Arthropodes

INSECTA

Mantodea

Apteromantis aptera

Odonata

Coenagrion hylas (Coenagrion freyi)

Coenagrion mercuriale

Cordulegaster trinacriae

Gomphus graslinii

Leucorrhinia pectoralis

Lindenia tetraphylla

Macromia splendens

Ophiogomphus cecilia

Oxygastra curtisii

Orthoptera

Baetica ustulata

Coleoptera

Agathidium pulchellum

Boros schneideri

Buprestis splendens

Carabus menetriesi pacholei²

Carabus olympiae

Cerambyx cerdo

Corticaria planula 2

Cucujus cinnaberinus

Dytiscus latissimus

Graphoderus bilineatus

Limoniscus violaceus

Lucanus cervus

Macroplea pubipennis²

Mesosa myops

Morimus funereus ²

Osmoderma eremita

Oxyporus mannerheimii 2

Pytho kolwensis

Rosalia alpina

Stephanopachys linearis²

Stephanopachys substriatus²

Xyletinus tremulicola 2

Hemiptera

Aradus angularis 2

Lepidoptera

Agriades glandon aquilo ²

Callimorpha (Euplagia, Panaxia) quadripunctaria # 2

Clossiana improba

Coenonympha oedippus

Erebia calcaria

Erebia christi

Erebia medusa polaris $^{\rm 2}$

Eriogaster catax

Euphydryas (Eurodryas, Hypodryas) aurinia

Graellsia isabellae

Hesperia comma catena²

Hypodryas maturna

Lycaena dispar

Maculinea nausithous

Maculinea teleius

Melanargia arge

Papilio hospiton

Plebicula golgus

Xestia borealis Xestia brunneopicta ²

CRUSTACEA

Decapoda

Austropotamobius pallipes²

ARACHNIDA

Pseudoscorpiones

Anthrenochernes stellae 2

Molluscs/Mollusques

GASTROPODA

Dyotocardia

Gibbula nivosa (Med.)

Stylommatophora

Caseolus calculus

Caseolus commixta

Caseolus sphaerula

Discus guerinianus Discula leacockiana Discula tabellata
Elona quimperiana
Geomalacus maculosus
Geomitra moniziana
Helicopsis striata austriaca ²
Idiomela (Helix) subplicata ²
Leiostyla abbreviata
Leiostyla cassida
Leiostyla corneocostata
Leiostyla gibba
Leiostyla lamellosa
Vertigo angustior ²
Vertigo genesii ²
Vertigo geyeri ²
Vertigo moulinsiana ²

BIVALVIA

Unionoida

Margaritifera durrovensis (Margaritifera margaritifera) ²

Margaritifera margaritifera ²

Unio crassus

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Appendix 11

Ministerial Statement concerning the Pan-European Ecological Network (5th Ministerial Conference "Environment for Europe", Kyiv, May 2003)

We, the European Ministers of Environment and Heads of Delegations of the States participating in the process of the Pan-European Biological and Landscape Diversity:

Consider that the Pan-European Ecological Network is a major means for implementing the aim of the Pan-European Biological and Landscape Strategy for the conservation and management of species, ecosystems, habitats, and landscapes;

Are convinced that the Pan-European Ecological Network has the potential to be used as a spatial planning tool for Europe;

Express our strong support to the development of the Pan-European Ecological Network and its establishment by 2015;

Engage ourselves to provide appropriate resources to the implementation of this major instrument;

Encourage financial institutions and mechanisms to prioritise green investments in relevant parts of the Pan-European Ecological Network and to avoid investments in these areas that will harm biological diversity and landscapes;

Welcome the maintenance or development of a sustainable relationship between agriculture and biological diversity in and around relevant parts of the Pan-European Ecological Network;

Welcome the indicative map of the Pan-European Ecological Network for Central and Eastern European region as a communication tool for promoting the establishment of the network in this region, and encourage the further extension of the map towards other regions in Europe;

Encourage:

- the States participating in the process of the Pan-European Biological and Landscape Diversity Strategy to give a priority to the development of the Network by supporting the programme of activity of the intergovernmental body (the Council of Europe) entrusted with it, developing national ecological networks comprising both areas of national and international importance and promoting programmes for the implementation of transboundary networks;
- the Central and Eastern Europe States and the Newly Independent States to give particular attention to the implementation of the Pan-European Ecological Network, in synergy with the Bern Convention Emerald Network and Natura 2000, as a way to protect their rich landscape and biological diversity and express the wish that enough resources be allocated to the relevant programmes;

Invite:

- the institutions and intergovernmental organisations engaged in the implementation of the Pan-European Ecological Network, in particular the Council of Europe and its Parliamentary Assembly and the European Centre for Nature Conservation (ECNC), to pursue and develop the work already undertaken;
- UNESCO to co-operate for the implementation of the Pan-European Ecological Network, in particular through its programme Man and Biosphere, Biosphere Reserves and World Heritage Sites;
- the Ministerial Conference on the Protection of Forests in Europe to co-operate in the implementation of the Pan-European Ecological Network;
- the European Conference of Ministers responsible for Regional Planning (CEMAT) to take into account the buildingup of the Pan-European Ecological Network and its integration in the priorities and programme of activities for regional and spatial development in Europe;
- the European Conference of Ministers responsible for Culture to take into account the protection of all aspects of landscapes with a view of maintaining their biological and landscape diversity, in co-operation with the national authorities responsible for the protection of natural environment and landscapes;
- the local and regional authorities to implement the Pan-European Ecological Network at their level and be closely involved in development of transnational networks, and involve all local stakeholders;
- the Committee of Ministers of the Council of Europe, the European Union, the Parliamentary Assembly of the Council of Europe, the Congress of Local and Regional Authorities of Europe of the Council of Europe, to contribute to the development of the Pan-European Ecological Network by providing appropriate resources to the programmes and activities to be implemented in this framework.

Appendix 12

Calendar for the implementation of the Emerald Network

2003-2004	Pilot projects for Azerbaijan, Bosnia and Herzegovina, Morocco, Senegal,
	Tunisia, Federal Republic of Yugoslavia
Phase II.A.	Second implementation phase in all of the countries having carried out a pilot
	project, aimed to identify at least 30% of the potential ASCIs to be identified;
	Continuation of the designation of sites in Switzerland and Iceland, which started
	the network, without going through a pilot project programme;
	Work on identifying sites in the countries which have not been participating in
	the pilot project programme: Andorra, Liechtenstein, Monaco and Norway;
	Start of verification of the validity of data.
2005-2006	Identification and designation of all of the potential ASCIs in the Emerald
	Network in all of the states concerned;
Phase II.B.	Establishment of the national lists;
	Continuation of verification of the validity of data received;
	Start of registering of ASCIs and notification to governments.
2007-2009	Examination and analysis of the scientific data to detect possible gaps;
	Publication of the lists of the Emerald Network of areas of special conservation
Phase III.A.	interest;
	Establishment of a first European list of ASCIs;
	Continuation of unfinished work in phase II;
	Negotiation with states concerning possible designation of new ASCIs;
	Start of drafting and implementing management plans for ASCIs.
2010	Continuation on unfinished work in previous phases;
	Designation of ASCIs for Emerald Network completed;
Phase III.B.	Update of Resolutions Nos. 4 and 6;
	Drafting and implementing management plans for 100% of ASCIs.

Appendix 13

Implementation of Recommendation 16 of the Bern Convention EMERALD NETWORK

STANDARD DATA-ENTRY FORM

FOR AREAS OF SPECIAL CONSERVATION INTEREST (ASCI's)

As amended from the NATURA 2000 standard data-entry form

1. SITE IDENTIFICATION

1.1. TYPE 1.2. SITE CODE 1.3. COMPILATION DATE 1.4. UPDATE Y Y Y Y M M Y Y Y Y M M Y Y Y Y M M Y Y Y Y M M TOTHER EMERALD SITES: EMERALD SITE CODES EMERALD SITE CODES Include the second se

1.8. SITE INDICATION AND DESIGNATION DAT	1.8	1
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ATI	ATE SITE PROPOSED AS EMERALD SITE:							ATE	CONI	FIRM	ED AS	EME	ERAL	D SI	Έ	
Υ	Υ	Υ	Υ	М	М		Υ	Υ	Υ	Υ	М	М				

2.SITE LOCATION

2.1. SITE CENTR LONGITUDE W/E (Greenwich)	RE LOCATION:	LA	TITUDE]	
2.2. AREA (ha):	, , ,	2.3.	SITE LENGTH (Km)	:	
2.4. ALTITUDE (m):	MAXIM	UM		MEAN
2.5. ADMINISTR CODE (Appendix		RI	EGION NAME		%COVER
2.6. BIOGEOGRA		rine area not o	covered by a NU	ΓS-region	
Anatolian	Arctic	Alpine	Atlantic	Boreal	Continental
Macaronesia	Mediterranean	Pannonic	Black Sea	Steppic	

3. ECOLOGICAL INFORMATION

3.1. HABITAT types present on the site and site assessment for them :

3.1.a. HABITAT TYPES AS FROM RESOLUTION No 4 (1996):

CODE	%COVER	REPR	RESE	NTA	TIVI	ΤY	REI	LATI	VE	C	ONS	ERV	ATIO	N	Gl	LOB	AL
(Resolution No 4)		_					SUI	RFA(CE		S	ΓΑΤΙ	JS	A			<u>MEN</u> T
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
		Α	В	С		D	Α	В	С		Α	В	С		Α	В	С
											Plea	ise co	ру ро	ige if	nece	essai	ry

3.1.b. HABITAT RECORDING FOR SURFACES COVERED BY OTHER IMPORTANT HABITAT TYPES:

(Palaearctic ha	ODE bitat classifi	cation)	%C	OVER

3.2. SPECIES

Covered by Resolution No 6 (1998)

and

site assessment for them:

3.2.a. BIRDS listed on Resolution No 6 (1998)

CODE	NAME	P	POPULATION							SIT	E ASS	ESS	SME	NT				
		RESIDENT	N	MIGRATOR	Y		Pop	oulati	on	Cor	servatio	n	Isol	atior	1	Gl	lobal	
			Breed	Winter	Stage													
							A	В	D		A B C	7	A	В	C	1	A B	3 C
							A	ВС	D		A B C	7	A	В	C	1	A B	3 C
							A	В	D	-	A B C	7	Α	В	C	1	A B	3 C
						Ī	A	В	D		A B C		Α	В	C	1	A B	C
						Ī	A	В	D		A B C		Α	В	C	1	A B	3 C
									D		A B C			В	C	1	A B	
								ВС			A B C	7	Α		C	1	A B	
									D		A B C	7	A	В	C	1	A B	
								ВС			A B C	2	Α		C	_	A B	
								ВС			A B C		Α		C		A B	
								ВС			A B C				C		A B	
									D		A B C	_	Α		C	<u> </u>	A B	
								ВС			A B C	2			C		A B	
								ВС	D		A B C	2	Α		C	1	A B	
								ВС			A B C		Α	_	C		A B	
								ВС			A B C				C		A B	
									D		A B C		A		C	1	A B	
									D		A B C	7	Α	В	C	1	A B	
							A	В	D	L	A B C	2	A	В	C	1	A B	3 C
			•	•		_					Pleas	e co	ру р	age	e if	nec	essa	ıry

3.2.b. Regularly occurring Migratory Birds not listed on Resolution No 6 (1998)

CODE	NAME	P	POPULATION						SITE ASSE	SSMENT				
		RESIDENT	N	/IGRATOR	Y		Population		Conservation	Isolation		Glo	bal	
_		_	Breed	Winter	Stage	1		_			_			_
							A B C	D	A B C	A B C		A	В	C
							A B C	D	A B C	A B C		A	В	C
							A B C	D	A B C	A B C		A	В	C
							A B C	D	A B C	A B C		A	В	C
								D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
								D	A B C	A B C				C
								D	A B C	A B C	L			C
							A B C	D	A B C	A B C	L	A	В	C
								D	A B C	A B C	L	A	В	C
								D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	L	A	В	C
							A B C	D	A B C	A B C	Ĺ	A	В	C
							A B C	D	A B C	A B C		A	В	C
							A B C	D	A B C	A B C		A	В	C
									Please c	opy page if	nec	cess	sar	y

3.2.c. MAMMALS listed on Resolution No 6 (1998)

CODE	NAME		POPULATION							S	SITE	ASS	SES	SSM	EN	lТ				
		RESIDENT	N	MIGRATOR 1	Y		Po	pula	tion	C	onserv	atior	ı	Isol	atio	n		Glo	bal	
			Repro- duction	Winter	Stage								_							
							A	В	CD		A I	C		A	В	C	ſ	A	В	C
							A	В	C D		A I	C		A	В	C	Ī	A	В	C
							A	В	C D		A I	C		Α	В	C		A	В	C
							A	В	C D		A I	C		A	В	C		A	В	C
							A		C D		A I			A	В	C	L	A	В	C
							A	В	C D		A I			A	В	C	L	A	В	C
							A	В	C D		A I	C		A	В	C		A	В	C
							A		C D		A I					C				C
							A	В	C D		A I	C		A	В	C	L	A	В	C
							A	В	C D		A I	C		A	В	C		A	В	C
							A		C D		A I			A	В	C			В	C
							A	В	C D		A I			A	В	C	L	A	В	C
							A		C D		A I			A	В	C				C
							A		C D		A I			A		C	L			C
							A	В	C D		A I			A	В	C	L			C
							A	В	C D		A I	C		A	В	C	L	A	В	C
							A		C D		A I				В	C				C
							A		C D		A I		ı		В	C	L			C
							A	В	C D		A I				В	C	L	A		C
						-				-	Pl	ease	co	ру р	age	e if	nec	cess	sar	y

3.2.d. AMPHIBIANS AND REPTILES listed on Resolution No 6 (1998)

CODE	NAME		POPULATION DENT MIGRATORY							SITE A								
		RESIDENT	Repro-	IIGRATOR Winter	Stage		Pop	ulation	C	Conservat	ion	Isc	latio	n		Glol	oal	
_			duction	Winter	Buge	_				_		_			_			
							A	B C :	D	A B	C	A	В	C		A	ВС	1
							A	B C	O	A B	C	Α	В	C		A	ВС	-
							A	B C	D	A B	C	A	В	C		A	ВС	1
							A	B C	O	A B	C	A	В	C		A	ВС	1
							A	B C	O	A B	C	A	В	C		A	ВС	1
							A	B C :	D	A B	C	A	В	C		A	ВС	7
							A	B C :	D	A B	C	A	В	C		A	ВС	7
							A	B C	O	A B	C	A	В	C		A	ВС	1
							A	ВС	D	A B	C	A	В	C		A	ВС	1
							A	ВС	D	A B	C	A	В	C		A	ВС	1
							A	ВС	D	A B	C	A	В	C		A	ВС	1
							Α	В С	D	A B	C	A	В	С		Α	ВС	7
							Α	ВС	D	A B	C	Α	В	C		Α	ВС	1
							A	ВС	D	A B	C	Α	В	C		Α	ВС	1
							Α	ВС	D	A B	C	Α	В	C		Α	ВС	1
							Α	ВС	D	A B	C	A	В	С		Α	ВС	1
							A	ВС	D	A B	C	A	В	С		Α	ВС	1
							A	ВС	D	A B	C	A	В	С	f	Α	ВС	7
							A	ВС	D	A B	C	A	В	С	ľ	Α	ВС	7
								1 11	_	Plea	se c	ору	pag	e if	nec	cess	ary	_

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3.2.e. FISHES listed on Resolution No 6 (1998)

CODE	NAME		POPUL	ATION			SIT	E ASSESSI	MENT	
		RESIDENT	N	/IGRATOR	Y		Population	Conservation	Isolation	Global
			Repro- duction	Winter	Stage					
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
						lt	A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
						lt	A B C D	A B C	A B C	A B C
	<u> </u>							Please c	ony nage it	necessary

3.2.f. INVERTEBRATES listed on Resolution No 6 (1998)

CODE	NAME		POPUL					SITE ASSES		
		RESIDENT		IIGRATOR		J	Population	Conservation	Isolation	Global
			Repro- duction	Winter	Stage					
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C
							A B C D	A B C	A B C	A B C

3.2.g. PLANTS listed on Resolution No 6 (1998)

CODE	NAME	POPULATION		SITE ASSESSMENT	
			Population	Conservation Isolation	Global
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D A B C D	A B C A B C A B C A B C	A B C
			A B C D		A B C
			A B C D	A B C A B C A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
			A B C D	A B C A B C	A B C
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3.3. Other Important Species of Flora and Fauna

B M A R F I P	POPULATION	MOTIVATION
	POPULATION	A B C D A B C D
		A B C D A B C D A B C D A B C D A B C D A B C D

 $(B=Birds,\,M=Mammals,\,A=Amphibians,\,R=Reptiles,\,F=Fishes,\,I=Invertebrates,\,P=Plants)$

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4. SITE DESCRIPTION

4.1. GENERAL SITE CHARACTER:

Habitat classes	% cover
Marine areas, Sea inlets	
Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)	
Salt Marshes, Salt pastures, Salt Steppes	
Coastal sand dunes, Sand beaches, Machair	
Shingle, Sea cliffs, Islets	
Inland water bodies (Standing water, Running water)	
Bogs, Marshes, Water fringed vegetation, Fens	
Heath, Scrub, Maquis and Garrigue, Phrygana	
Dry grassland, Steppes	
Humid grassland, Mesophile grassland	
Alpine and sub-Alpine grassland	
Extensive cereal cultures (including Rotation cultures with regular fallowing)	
Ricefields	
Improved grassla,nd	
Other arable land	
Broad-leaved deciduous woodland	
Coniferous woodland	
Broad-leaved evergreen woodland	
Mixed woodland	
Artificial forest monoculture (e.g. Plantations of poplar or Exotic trees)	
Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas)	
Inland rocks, Screes, Sands, Permanent Snow and Ice	
Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites	
TOTAL HABITAT COVER	100 %
1.2. QUALITY AND IMPORTANCE:	
4.3. VULNERABILITY:	

.4. SITE DESIGNAT	TION (remarks concerning quantitative data below	v):
5. OWNERSHIP:		
6. DOCUMENTAT	ION:	
7. HISTORY:		
Date	Field Changed	Description
Dute	Tield Changeu	2 esemption
		1 [

5. SITE PROTECTION STATUS AND RELATION WITH CORINE Biotopes:

5.1. DESIGNATION TYPES at 1	National and Sub-national level:	
CODE %COVER	CODE %COVER COD	E %COVER
5.2. RELATION OF THE DESC	RIBED SITE WITH OTHER SITES:	
Designated at National or Sub-na	tional level:	
TYPE CODE	SITE NAME	OVERLAP TYPE %COVER
		THE ACCOVER
Designated at the International le	vel: NAME of the Site	OVERLAP TYPE %COVER
RAMSAR CONVENTION: BIOGENETIC RESERVE: EURODIPLOMA SITE: BIOSPHERE RESERVE: BARCELONA CONVENTION: HELSINKI CONVENTION: WORLD HERITAGE SITE: OTHER:	1 2 3 4 1 2 2 3 3	
5.3. RELATION OF THE DESC	OVERLAP CORINE SITE CODE TYPE %COVER	OVERLAP TYPE %COVER

6. HUMAN ACTIVITIES IN AND AROUND THE SITE

6.1. GENERAL IMPACTS AND ACTIVITIES AND PROPORTION OF THE SURFACE AREA OF THE SITE AFFECTED:

	IMPACTS	AND	ACTIVITIES	WITHIN THE	SITE:
--	---------	-----	-------------------	------------	-------

CODE INTENSITY	% OF SITE	INFLUENCE + 0 - + 0 - + 0 - + 0 - + 0 - + 0 - + 0 -	CODE	INTENSITY A B C A B C A B C A B C A B C A B C A B C A B C	% OF SITE	INFLUENCE + 0 - + 0 - + 0 - + 0 - + 0 - + 0 - + 0 - + 0 -
CODE INTENSITY		INFLUENCE + 0 - + 0 - + 0 - + 0 - + 0 - + 0 - + 0 -	CODE	INTENSITY A B C A B C A B C A B C A B C A B C A B C A B C		INFLUENCE + 0 - + 0 - + 0 - + 0 - + 0 - + 0 - + 0 -

6.2. SITE MANAGEMENT:

BODY RESPONSA	BLE FOR THE SITE M.	ANAGEMENT:		
SITE MANAGEME	ENT AND PLANS:			

7. MAP OF THE SITE

• Physical r	nap:			
NATIONAL M	MAP NUMBER	SCALE	PROJEC	CTION
REFERENCE	TO AVAILABILITY (OF BOUNDARIES IN DIGITISED F	ORM	
• Map of de	esignated sites describe	ed in 5:		
Provide this in	formation on a map wit	h the same characteristics as above!		
• Aerial pho	otograph(s) included:			
		YES NO		
NUMBER	LOCATION	SUBJECT	COPYRIGHT	DATE
		8. SLIDES		
NUMBER	LOCATION	SUBJECT	COPYRIGHT	DATE
		_		
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