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**CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE
AND NATURAL HABITATS**

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**Development of the Emerald Sites Network in
South-East Europe under the CARDS programme of
the European Environment Agency**

**Final Report
December 2008**

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

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Preliminary note

In accordance with Contract No. 3431/B2005/EEA.52254 signed on 27 July 2005, the European Environment Agency and the Council of Europe have agreed to implement a programme for the identification of Areas of Special Conservation Interest (Emerald Network) in five States of the South-East of Europe : Albania, Bosnia-Herzegovina, Croatia, Serbia and Montenegro and “the former Yugoslav Republic of Macedonia”. Following the separation of the Union of States of Serbia and Montenegro, the second part of the implementation of this programme was made with six countries: Albania, Bosnia-Herzegovina, Croatia, Montenegro, Serbia and “the former Yugoslav Republic of Macedonia”. This specific CARDS project represented a continuation of the initial set-up made by a programme of pilot projects organised by the Council of Europe in the six countries concerned. The Contract ended on 28 December 2006.

As specified in Annex I to the Contract, the outputs of the programme were :

- Distribution per biogeographical region in each country of all species and habitats of Resolutions No. 4 (1996) and No. 6 (1998) of the Bern Convention and Annex I of the Habitats Directive ;
- Distribution maps of selected species and habitats in GIS ;
- Sites database for 80 % of the sites to be listed with 60 % of all ecological data filled in ;
- Digital boundaries for all sites in GIS.

A second contract (Service Contract No. 3603/B2007/EEA.53026) was signed on 15 August 2007 in order to complete the identification of the potential sites of the Emerald Network in these countries by the end of 2008 and the delivery of the completed scientific data concerning these sites. An Amendment No. 1 to this contract was signed on 31 July 2008 for the integration of the data gathered during this programme into one regional database with the aim to enhance the output of the overall project and the integration of the results into the European database.

Administrative arrangements and contracts have been drawn up between the Council of Europe and the six countries concerned (list of the national representatives responsible for the implementation of the programme in the six countries appended in Annex XIV).

A specific contract was also drawn up between the Council of Europe and the consultant of the Council of Europe for the implementation of the Emerald Network, Mr Marc Roekaerts, concerning the technical assistance to be provided to the countries for the development of this programme.

According to the contracts and the administrative arrangements signed between respectively the Council of Europe and the EEA and the Council of Europe and the six countries concerned, final reports and all the relevant data have been delivered in due time.

Copies of the national reports are appended in addition to this Final Report, together with copies of the contracts and/or administrative arrangements between the Council of Europe and the countries and the consultant, Mr Marc Roekaerts.

All the data have been uploaded to the following website of the European Environment Agency :

http://eea.eionet.europa.eu/Members/irc/eionet-circle/etcnpb/library?l=/cards_20052006/2008/emerald&vm=detailed&sb=Title

Introduction

This final report describes the activities performed and the data collected in six West-Balkan countries in the framework of the development of the Emerald Network under the CARDS program up to 2008.

The creation of the Emerald network was started with a series of pilot projects, funded by the Council of Europe. The main purpose was to initiate the process, to create the emerald expert teams in each country and to set up a pilot project sites database. The first workshops under this phase were as follows:

- Albania (AL): 22-23 April 2002
- Croatia (HR): 14-15 Feb. 2002
- Serbia-Montenegro (CS): 26-27 April 2005
- Bosnia-Herzegovina (BA): 8-9 March 2005
- FYR of Macedonia (MK): 21-22 March 2002

The CARDS project represented a continuation of the initial set-up made by a programme of pilot projects organised by the Council of Europe in the six countries concerned and the implementation of the second phase of the Emerald Network.

In this second phase, funded by the CARDS program, countries are set to the same timing and emphasis is given to the collection of sites data together with GIS boundary data on the one hand and distribution and population data for a selection of species and habitats, also in GIS format, on the other hand.

The second phase was also initiated by a workshop in each of the countries to evaluate and correct, if necessary, the results of the pilot projects and to introduce the second phase. The workshops were held as follows:

- Albania (AL), Tirana: 16-17 January 2006
- Bosnia-Herzegovina (BA), Sarajevo: 13-14 February 2006
- Croatia (HR), Zagreb: 19-21 December 2005
- FYR of Macedonia (MK), Skopje: 7-9 December 2005
- Serbia-Montenegro (CS), Beograd: 7-8 February 2006

In most of the countries these workshop were held together with the workshops under the responsibility of the European Topic Centre for Terrestrial Environment (ETC/TE) and the European Topic Centre for Biodiversity (ETC/BD) of the European Environment Agency. For a summary of those activities we refer to the relevant reports.

A regional meeting was organized in Ohrid (FYR of Macedonia) on 10 and 11 of July 2006 to evaluate progress and to discuss common problems and goals. The summary conclusions can be found in annex X.

At the Emerald expert group meeting in Strasbourg (9 October 2006), the group congratulated all contributors for the progress made and the hope was expressed to start the full network evaluation within the West Balkan countries as the first region were such evaluation could be tested.

In 2007, the data for Serbia-Montenegro (CS) were split into two individual country databases (cntryme.mdb for Montenegro and cntryrs.mdb for Serbia) and the Emerald software was adapted accordingly to be able to take into account those changes. Detailed reports on the changes made can be found in annex XI and XII.

In 2008, new contracts were signed between Council of Europe and each of the 6 countries involved, to finalise the sites database up to 100%.

A second regional workshop was held in Zagreb on 1 and 2 oktober 2008. The summary conclusions of this meeting can be found in annex XIII.

Final results were shown to the Standing Committee meeting of the Bern Convention at 26 November 2008. The meeting congratulated for the results obtained and expressed its wish to find the ways for the evaluation of the sites database in the coming year with the view of adopting the first Emerald sites at its next meeting in 2009.

1. Summary statistics for Site data

The general purpose of the final phase of the project was to produce a data base with approximately 100 % of all possible sites, filled with 80 % of the necessary data for the total of the sites.

The table named as “cntry-cards-200812-merge” is the result of merging the 6 country sites databases into one single database in MSAccess. The structure of the database with all tables and field names can be found in annex IX.

The following statistics not only illustrate the content of the tables but also the possible analysis in the future. Data are shown for all 6 countries together. In most cases only the top 10 of the data queries result is shown. The complete results for some of the queries can be found in the annexes.

1.1. General site information

Number of sites, total area and % coverage for each of the countries:

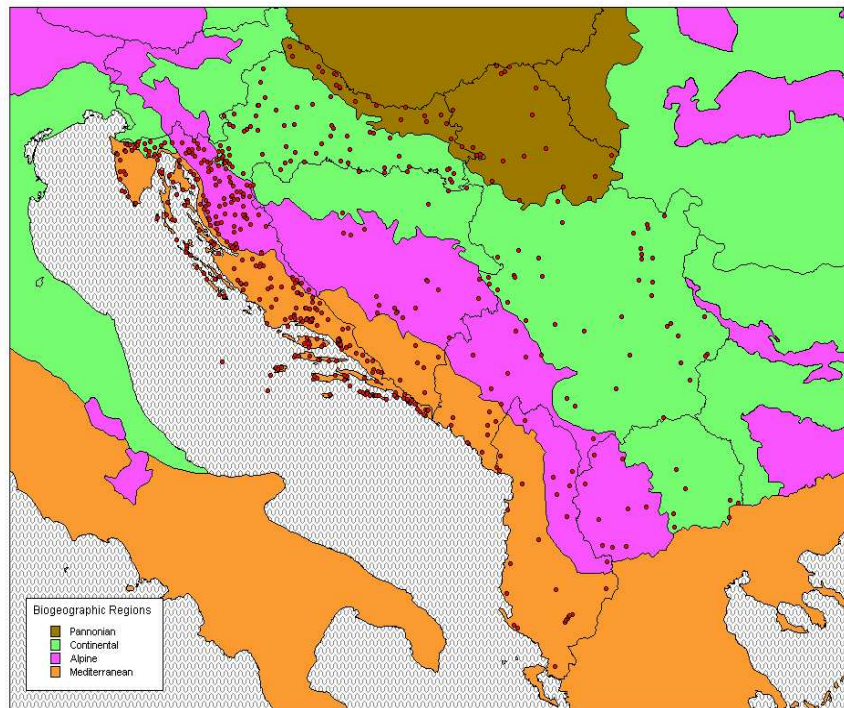
Number of sites and total area			
Country	Number	Total AREA (ha)	% country coverage
Albania	25	522429,54	18,2
Bosnia-Herzegovina	29	250455.00	4,9
Croatia	1132	4520442,53	44 *
FYR of Macedonia	35	754383.00	29,3
Montenegro	32	240077.10	17,1
Serbia	61	755883.91	8,6
Total:			

* For Croatia, only the terrestrial area counted, without the marine part of the sites

Although the number of sites looks small it should be stressed that the sites are rather large and represent approximately 25 % of the total terrestrial area of the 6 countries.

The map below illustrates the location of the sites on the background of the biogeographical regions map. Only sites where coordinates of the central point were given in the database can be shown (196 sites without coordinates).

A full list of the proposed sites can be found in annex I.



Location of the proposed Emerald Sites, on the background of the Biogeographical regions

The total number of records for each of the data tables is given below (all 6 countries):

Table	Number of records February 2006	Number of records January 2007	Number of records December 2008
actvty	389	3583	4026
amprep	204	518	724
biotop	45	542	1314
bird	1721	5342	5136
corine	24	174	59
desigc	43	208	237
desigr	65	287	357
fishes	98	302	467
Habit1	358	1634	2378
HABIT1A	616	2211	901
Habit2	268	805	651
histry	1	1	2
invert	131	304	500
mammal	327	942	1167
Map	63	114	150
photo	287	287	161
Plant	42	101	142
Regcode	48	137	171

Resp	6	5	5
Sitrel	2	54	5
Spec	526	9353	7070

The number of records for the individual country site databases is as follows (12/2008):

Table name	Albania	Bosnia- Herzegovina	Croatia	FYR of Macedonia	Montenegro	Serbia	Total
biotop	25	29	1132	35	32	61	1314
actvty	453	113	0	83	337	3040	4026
amprep	149	56	102	192	66	159	724
bird	1109	184	278	849	1719	997	5136
corine	39	0	0	20	0	0	59
desigc	31	25	0	15	32	61	237
desigr	20	3	0	12	12	145	357
fishes	63	14	145	74	53	118	467
habit1	94	121	1364	79	192	528	2378
habit1A	109	183	0	95	11	503	901
habit2	123	140	0	118	137	133	651
histry	0	0	0	2	0	0	2
invert	50	90	182	84	47	47	500
mammal	249	107	148	273	68	322	1167
map	25	0	0	15	43	67	150
photo	24	101	0	18	18	0	161
plant	3	9	59	7	31	33	142
RegCod	32	29	0	35	14	61	171
Resp	1	1	1	1	1	1	5
Sitrel	1	0	0	4	0	0	5
Spec	184	26	78	1740	221	4821	7070

1.2. Ecological information: species and habitat records

Habitats of Resolution nr. 4

Number of sites per habitat (only top 10 shown, see full list in annex II)

Habitat code	Title	Sites
8310	Caves not open to the public	237
8330	Submerged or partly submerged sea caves	185
1170	Reefs	88
1120	Posidonia beds (<i>Posidonion oceanicae</i>)	87
41.1	Beech forests	82
41.7	Thermophilous and supra-Mediterranean oak woods	81
44.1	Riparian willow formations	57
41.8	Mixed thermophilous forests	48
91K0	Illyrian <i>Fagus sylvatica</i> forests (Aremonia-Fagion)	42
8210	Calcareous rocky slopes with chasmophytic vegetation	40

Amphibians and Reptiles of Resolution nr. 6

Number of sites for Amphibians and Reptiles (only top 10 shown, see full list in annex III).

species	Number of sites
Bombina variegata	134
Testudo hermanni	117
Emys orbicularis	106
Elaphe quatuorlineata	67
Elaphe situla	56
Triturus cristatus	48
Triturus carnifex	41
Proteus anguinus	22
Bombina bombina	22
Mauremys caspica	22

Birds of Resolution nr. 6

Number of sites for bird species (only top 10 shown, see full list in annex IV)

SPECNAME	Number of Sites
Lanius collurio	137
Falco peregrinus	111
Pernis apivorus	104
Dendrocopos syriacus	103
Aquila chrysaetos	103
Lullula arborea	101
Dendrocopos medius	101
Bubo bubo	98
Caprimulgus europaeus	95
Circaetus gallicus	93

Fishes of Resolution nr. 6

Number of sites for fish species (only top 10 shown, see full list in annex V)

SPECNAME	Number of Sites
Barbus meridionalis	62
Cobitis taenia	57
Cottus gobio	40
Misgurnus fossilis	28
Rhodeus sericeus amarus	25
Phoxinellus spp.	22
Sabanejewia aurata	21
Gobio uranoscopus	18
Aspius aspius	16
Alburnus albidus	14

Invertebrates of Resolution nr. 6

Number of sites for Invertebrates species (only top 10 shown, see full list in annex VI)

SPECNAME	Number of Sites
Lucanus cervus	68
Lycaena dispar	61
Rosalia alpina	41
Cerambyx cerdo	40
Euphydryas aurinia	34
Morimus funereus	27
Osmoderma eremita	24
Austropotamobius torrentium	24
Austropotamobius pallipes	24
Euphydryas maturna	17

Mammals of Resolution nr. 6

Number of sites for Mammals (only top 10 shown, see full list in annex VII)

SPECNAME	Number of Sites
Canis lupus	127
Rhinolophus ferrumequinum	116
Lutra lutra	110
Myotis myotis	89
Rhinolophus hipposideros	89
Rhinolophus euryale	87
Myotis blythii	83
Miniopterus schreibersi	78
Ursus arctos	73
Myotis capaccinii	69

Plants of Resolution nr. 6

Number of sites for Plants (only top 10 shown, see full list in annex VIII)

SPECNAME	Number of Sites
Narcissus angustifolius	20
Marsilea quadrifolia	16
Eryngium alpinum	13
Cypripedium calceolus	10
Scilla litardierei	10
Aquilegia kitaibelii	9
Pulsatilla grandis	7
Fritillaria montana	6
Lilium jankae	5
Dianthus serotinus	4

It should be noted that the number of plant species in Resolution nr. 6 for the Balkan Countries are very low. As a consequence, the number of sites indicated for plant species is equally low.

On the other hand, the number of important plant species not listed in Resolution nr. 6, given in the data table “other species”, are clearly higher than for other species groups (see next paragraph).

Other species not mentioned in Resolution nr. 6

The following table illustrates the number of different other important species listed in one or more sites for the different countries:

TAXGROUP	AL	BA	HR	ME	MK	RS	6 countries
Amphibians	1	3		6	189	381	25
Birds	5	2	29		94	320	97
Fishes	2	2	11	14	27	408	88
Invertebrates		1	29	23	108	500	359
Mammals	54	2	4	10	220	1246	78
Plants	109	13	3	163	779	1560	1205
Reptiles	13	3	2	5	323	406	36

1.3. Other information records

Site typology according to species or habitats importance

To be able to keep compatibility with N2000, the following typology was agreed:

Type A: sites important for birds

Type B: sites important for habitats or other species

Type C: sites important for birds and other species and/or habitats

The following table illustrates this importance of the sites per country:

country	A	B	C
Albania	1	4	20
Bosnia-Herzegovina	11	12	6
Croatia	1	314	6
Montenegro	1	13	18
FYR of Macedonia	4	5	26
Serbia		1	60
Total:	18	349	946
%:	1	27	72

Biogeographical regions

Number of sites per Biogeographical Region within country as mentioned in the database:

country	ALPINE	MEDITERRANEAN	CONTINENTAL	PANNONIAN
Albania	5	19		
Bosnia-Herzegovina	22	3	4	
Croatia	66	169	63	19
Montenegro	17	18	3	
FYR of Macedonia	18		17	
Serbia	10		43	18

For more than 800 sites, no biogeographical region was indicated (mainly in Croatia).

Activity inside and in the surroundings of the sites:

Top 10 activities given inside the sites (number of sites for each activity)

ACT_CODE	DESCRIPTEN	Number of sites
400	Urbanised areas, human habitation	79
140	Grazing	77
230	Hunting	77
900	Erosion	69
100	Cultivation	65
690	Other leisure and tourism impacts not referred to above	64
501	paths, tracks, cycling tracks	60
502	roads, motorways	60
190	Agriculture and forestry activities not referred to above	60
290	Hunting, fishing or collecting activities not referred to above	59

Top 10 activities given in the surroundings of the sites (number of sites for each activity)

ACT_CODE	DESCRIPTEN	Number of sites
400	Urbanised areas, human habitation	35
230	Hunting	30
140	Grazing	24
502	roads, motorways	22
690	Other leisure and tourism impacts not referred to above	22
190	Agriculture and forestry activities not referred to above	21
100	Cultivation	20
290	Hunting, fishing or collecting activities not referred to above	19
900	Erosion	19
421	disposal of household waste	10

1.4. Designation codes

To be able to describe the (legal) protection of the proposed Emerald sites there is a need to develop a common list of designation types, in line with the principles of the ECDDA (European Common Data Base on Designated Areas), managed by the European Environment Agency. The table below illustrates how the designations for each country were coded. Subsequently, they were added to the Emerald software to be able to enter the actual protection status for the proposed Emerald sites.

Code	Category	Title – original language	Title - English
AL00		No Protection Status	No Protection Status
AL01	A	Park Kombetar	National Park (category II)
AL02	A	Zone Strikte e Mbrojtur	Strict Protected Area (category I)
AL03	A	Rezerve Natyrore e Menaxhuar	Managed Nature Reserve (category IV)
AL05	A	Pejsazh i Mbrojtur	Protected Landscape (category V)
AL06	A	Monument Natyre	Nature Monument (Category III)
AL09	A	rezerve e Burimeve te Menaxhuara	Resource Reserve (category VI)
AL99		Other	Others
BA00	A	Područje bez zaštite	No Protection Status
BA01	A	Strogi prirodni rezervat	Strict Nature Reserve (former RBiH law)
BA02	A	Upravljeni prirodni rezervat	Managed Nature Reserve (former RBiH law)
BA03	A	Nacionalni park	National Park (former RBiH law)
BA04	A	Specijalni rezervati	Special Reserve (former RBiH law)
BA05	A	Rezervati prirodnih predjela	Reserve of Natural Landscape (former RBiH law)
BA06	A	Zaštićena prirodna područja	Nature Reserve (FBiH law)
BA07	A	Nacionalni park	National Park (FBiH law)
BA08	A	Spomenici prirode	Nature Monument (former RBiH law)
BA09	A	Zasticeni pejzaž	Protected Landscape (FBiH law)
BA10	A	Spomenici prirode	Nature Monument (FBiH law)
BA11	A	Zasticeni pejzaž	Protected Landscape (RS law)
BA12	A	Zaštićena prirodna područja	Nature Reserve (RS law)
BA13	A	Nacionalni park	National Park (RS law)
BA14	A	Spomenici prirode	Nature Monument (RS law)
BA99	A	Ostalo	Others
FoP (?)		Forest Park	Forest Park
HR00		No Protection Status	No Protection Status
HR99		Other	Others
NaP (?)		Nature Park	Nature Park
NM (?)		Natural Monument	Natural Monument
NP (?)		National Park	National Park
PL (?)		Protected Landscape	Protected Landscape
SNR (?)		Strict Nature Reserve	Strict Nature Reserve
SpR (?)		Special Reserve	Special Reserve
MK00		Bez status na zastita	No Protection Status
MK01	A	Strog prirodni rezervat	Strict Natural Reserve
MK02	A	Nacionalni Park	National Park
MK03	A	Spomenik na prirodna	Natural Monument
MK04	A	Park na prirodna	Nature Park

Code	Category	Title – original language	Title - English
MK05	A	Zastiten predel	Protected Landscape
MK06	A	Povekenamensko podracje	Multipurpose Area
MK98	A	Zastiteni podracja koi seuste ne se revidirani	Designated area not yet reviewed
MK99		Drugi	Others
ME00		No Protection Status	No Protection Status
ME01		Nacionalni Park or Narodni Park	National Park
ME02		Regionalni Park Prirode, Krajinski Park, Regionalni Park	Regional Natural Park or Nature Park
ME03		Rezervat Prirode, Strogi, Naravni Reservat	Natural Reserve or Nature Reserve
ME04		Spomenik Prirode, Naravni Spomenik	Natural Monument
ME05		Zasticeno Rekreativno Podrucje	Recreational Area
ME06		Ostala Zasticena Podrucja Prirode (OZPP) or Karakteristicni Pejzazi	Sanctuary of Landscape or Recreational Importance
ME07		Memorijalni Spomenik	Memorial Monument
ME08		Spomenik Oblikovane Prirode or Hortikulturni Spomenik	Ornate Natural Monument or Horticultural Garden
ME09		Historical Sanctuary	Historical Sanctuary
ME10		Landscape Park	Landscape Park
ME99		Other	Others
RS00		Bez zastite	No Protection Status
RS01	A	Nacionalni park	National Park
RS02	A	Rezervat prirode	Nature Reserve
RS03	A	Spomenik prirode	Natural Monument
RS04	A	Predeli izuzetnih odlika	Landscape of Outstanding Qualities
RS05	A	Podrucje od kulturnog i istorijskog znacaja	Area of Cultural and Historical Importance
RS06	A	Park prirode	Nature Park
RS07	A	Regionalni park prirode	Regional Nature Park
RS99		Ostalo	Others

(*) For Croatia, no standardized codes are already in use

2. Distribution and Population data for species and habitats

The evaluation of the effectiveness for the maintenance of a favourable conservation status for the species and the habitats within the proposed Emerald sites depends largely on the availability of background data, such as distribution and population information for species and habitats. The project teams were asked to collect this type of information in the following way:

- Presence of species within biogeographical regions within country
- Presence of habitats within biogeographical regions within country
- Population data for each species present within the country
- Population data for each habitat present within the country

To be able to collect distribution data and population data at national level in a standard way, a database was constructed by the project coordinator (“Reference2005-CARDS.mdb”) in consultation with ETC/BD (EUNIS) and in line with what was done under the N2000 process.

Each country received 4 reference tables:

- “habitats-annexI-Reference”: habitats as listed in annex I of the habitats directive
- “habitats-res4-Reference”: habitats as listed in Resolution 4 of the Bern Convention
- “Species-AnnexII-Res6-Reference”: species as listed in annex II of the Habitats Directive and Resolution 6 of the Bern Convention
- “Species-Birds-Reference”: Bird species of Annex I of the Birds Directive and Bird species of Resolution 6 of the Bern Convention

For each of the 4 groups of data 2 empty data tables were delivered to be filled by the project team.

- habitats-annexI-BioReg
- habitats-annexI-population
- habitats-res4-BioReg
- habitats-res4-population
- Species-AnnexII-Res6-BioReg
- Species-AnnexII-Res6-population
- Species-Birds-BioReg
- Species-Birds-population

During the workshops in Ohrid and Zagreb, the table structure and background was explained and discussed. It was decided not to take into account vagrants and species, which became extinct since a longer period. As a consequence, this type of statistics may vary according to the sources used and small differences in absolute numbers can occur.

The number of species and habitats in each of the countries is listed below with reference to the total number of species and habitats in the annexes and resolutions. For Montenegro only the combined data from Serbia-Montenegro are available. As a consequence, no separate statistics for this country can be calculated.

Total*		AL	BA	HR	MK	RS	CARDS
208	Birds, Annex I Birds Directive and Resolution 6	89	104	84	120	109	123
1021	Other species, Annex II Habitats Dir. And Resolution 6	35	35	95	50	101	142
179	Habitats, Resolution 4	47	35	80	45	73	131
224	Habitats, Annex I			65	35	80	

* Total number of species or habitat references within the annexes and resolutions

Species

Countries are requested to indicate the presence within the Biogeographical Regions of each of the species of Resolution 6 of the Bern Convention, Annex I of the Birds Directive and Annex II of the Habitats Directive.

The second phase workshop was concentrating on agreeing on the list of species for each of the countries. Subsequently, the project teams filled the presence within the Biogeographical Regions.

From the table above, it can be seen that 123 bird species and 142 other species from resolution 6 are to be found in the West-Balkan area.

The methodology for the collection of population data at national level was also explained and discussed during the meeting. In all countries, the project team indicated that it was very difficult to find the necessary information for such data. Nevertheless, potential sources for this kind of data were identified and a strategy for filling in the data was discussed during the workshop. It is clear that in future more emphasis should be given to collect this kind of information.

Example extract of the species table (biogeographical regions):

SPECNUM	ISO2	Bioreg	comments
A031	AL	ME	
A031	AL	AL	
A032	AL	AL	
A032	AL	ME	
A034	AL	AL	
A034	AL	ME	
A035	AL	ME	Phoenicopterus ruber roseus
A035	AL	AL	Phoenicopterus ruber roseus
A038	AL	ME	

Habitats

Countries are requested to indicate the presence within the Biogeographical Regions of each of the Habitats listed on Resolution 4 of the Bern Convention and Annex I of the Habitats Directive.

The second phase workshop was concentrating on agreeing on the list of habitats for each of the countries for Resolution 4. Subsequently, the project teams filled the presence within the Biogeographical Regions.

From the table above, it can be seen that 131 habitats from resolution 4 are to be found in the West-Balkan area.

The methodology for the collection of population data at national level for habitats was explained and discussed during the meeting. In all countries, the project team indicated that it was very difficult to find the necessary information for such data.

Nevertheless, potential sources for this kind of data were listed and a strategy for filling in the data was discussed during the workshop. An important potential data layer is the CORINE Landcover layer under the condition that site boundaries are available.

3. GIS distribution data at national level for species and habitats

Countries are requested to deliver GIS distribution data for species and habitats in whatever scale and format it would be available.

During the workshop it became clear that this would be the most difficult part of the work. Nevertheless, in almost all cases examples of such distribution data were available or a GIS layer could be created based on available paper copies of distribution data for a **selection** of species and habitats.

The project teams agreed to collect distribution data for a predefined number of species and habitats as follows:

Species: between 10 and 15 concentrating on:

- Canis lupus
- Ursus arctos
- Lutra lutra
- Ciconia nigra
- Alcedo atthis

Habitats: around 5 concentrating on:

- 37.2: Eutrophic humid grasslands
- 41.1: Beech forests

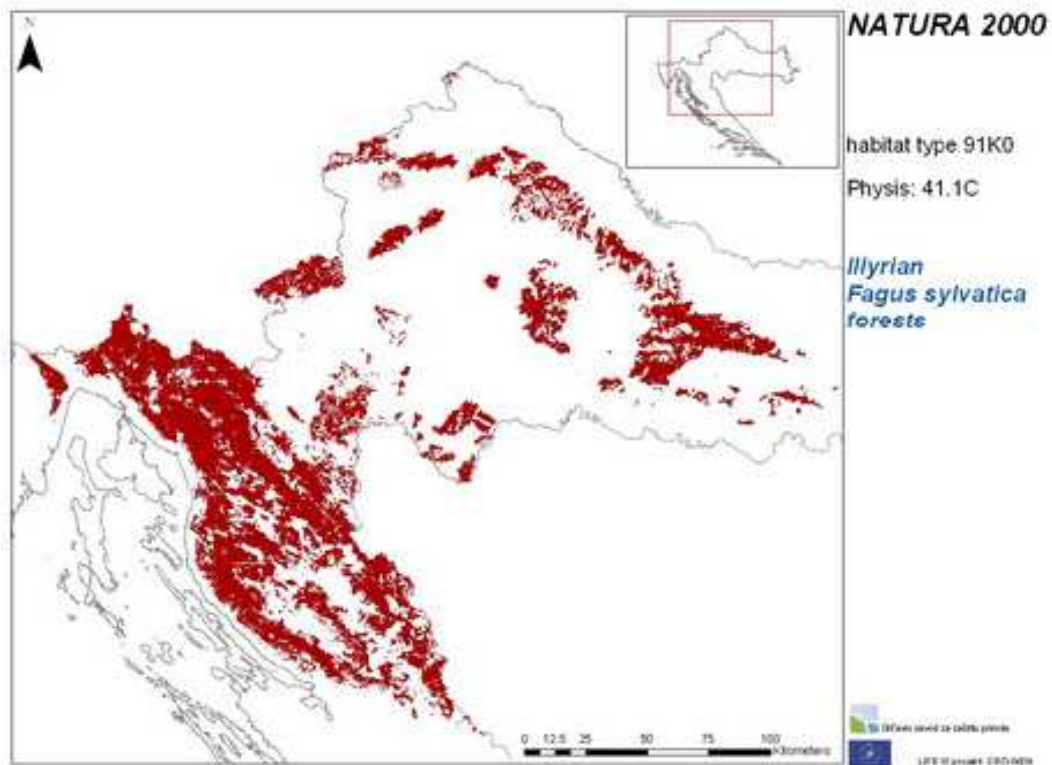
The spatial data were delivered in polygon format or in a UTM 10x10 km grid depending on availability.

The following table illustrates deliveries made by countries for given species and habitats:

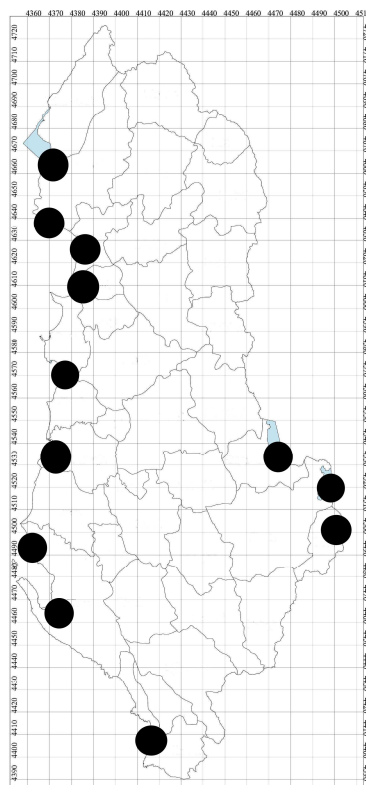
Habitat/Species	AL	BA	HR	ME	MK	RS
37.2 Eutrophic humid grasslands		GIS	GIS	GIS		GIS
41.1 Beech forest	GIS	GIS	GIS	GIS		GIS
15 Salt marshes			GIS			
15.115 Continental glasswort swards					GIS	
15.5 Mediterranean salt meadows				GIS		
15.A Continental salt steppes					GIS	
34.5 Mediterranean xeric grasslands			GIS			
42.7 High oro-mediterranean pine forest				GIS		
44.43 South-east European ash-oak-alder forest				GIS		
lacustrine euhydrophyte communities		GIS				
42.27 omorika spruce forest		GIS				
51.1 raised bogs		GIS				
Emer_mark_kuli					GIS	
Mediterranean pine forest					GIS	
Pinus	GIS					
Abies	GIS					
Arbutus	GIS					
Canis lupus	GIS	GIS	GIS	GIS	GIS	GIS

<i>Lutra lutra</i>	GIS	GIS	GIS		GIS	GIS
<i>Ursus arctos</i>	GIS	GIS	GIS	GIS	GIS	GIS
<i>Ciconia nigra</i>			GIS	GIS	GIS	GIS
<i>Alcedo atthis</i>		GIS	GIS	GIS	GIS	GIS
<i>Aquila chrysaetos</i>	GIS					
<i>Neophron percnopterus</i>	GIS					
<i>Pelecanus crispus</i>	GIS					
<i>Phalacrocorax pygmeus</i>	GIS					
<i>Callimorpha quadripunctaria</i>		GIS				
<i>Leptidea morsei</i>		GIS				
<i>Lycaena dispar</i>		GIS				
<i>Nymphalis vaualbum</i>		GIS				
<i>Eryngium alpinum</i>		GIS				
<i>Marsilea quadrifolia</i>		GIS			GIS	GIS
<i>Scilla litardierei</i>		GIS				
<i>Congerina kuseri</i>			GIS			
<i>Haliaeetus albicilla</i>			GIS			
<i>Rana latastei</i>			GIS			
<i>Rhinolophus euryale</i>			GIS			
<i>Testudo hermanni</i>			GIS	GIS		
<i>Hycho hycho</i>				GIS		
<i>Lucanus cervus</i>				GIS		
<i>Lynx lynx</i>				GIS		
<i>Salmo marmoratus</i>				GIS		
<i>Triturus carnifex</i>				GIS		
<i>Rupicapra rupicapra balcanica</i>					GIS	
<i>Spermophilus citellus</i>					GIS	
<i>Testudo graeca</i>					GIS	
<i>Neophron percnopterus</i>					GIS	
<i>Mauremys caspica</i>					GIS	
<i>Falco naumanni</i>					GIS	
<i>Buxbaumia viridis</i>					GIS	
<i>Aythya nyroca</i>					GIS	
<i>Aldrovanda vesiculosa</i>					GIS	
<i>Vipera ursinii</i>					GIS	
<i>Achillea thracica</i>						GIS
<i>Aldrovanda vesiculosa</i>						GIS
<i>Angelica palustris</i>						GIS
<i>Armoracia macrocarpa</i>						GIS
<i>Artemisia pancicii</i>						GIS
<i>Caldesia parnassiifolia</i>						GIS
<i>Carex panormitana</i>						GIS
<i>Cypripedium calceolus</i>						GIS
<i>Dianthus serotinus</i>						GIS
<i>Fritillaria orientalis</i>						GIS
<i>Lilium carniolicum</i>						GIS
<i>Narcissus angustifolius</i>						GIS
<i>Paeonia tenuifolia</i>						GIS
<i>Pulsatilla grandis</i>						GIS
<i>Tulipa hungarica</i>						GIS

The following figure represents an example for polygon data for a type of beech forest in Croatia:



In other cases a spatial layer was created from paper copies of a 10x10 km grid as shown for the *Pelecanus crispus* in Albania:



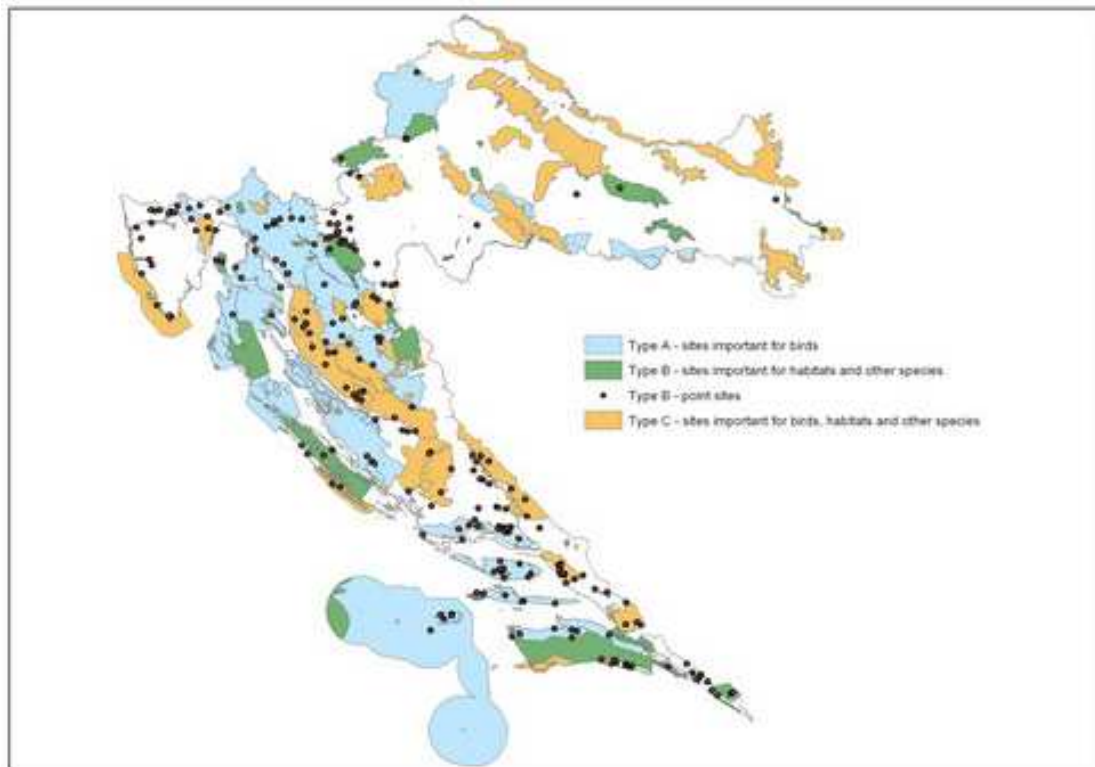
4. GIS boundary data for sites

The project teams were also asked to deliver digital boundaries for the selected sites.

During the workshop the possibilities for the collection of GIS boundary data for the sites was discussed. If already available, provisional data could already be collected for some sites. If not, a strategy for the creation of such GIS data was discussed.

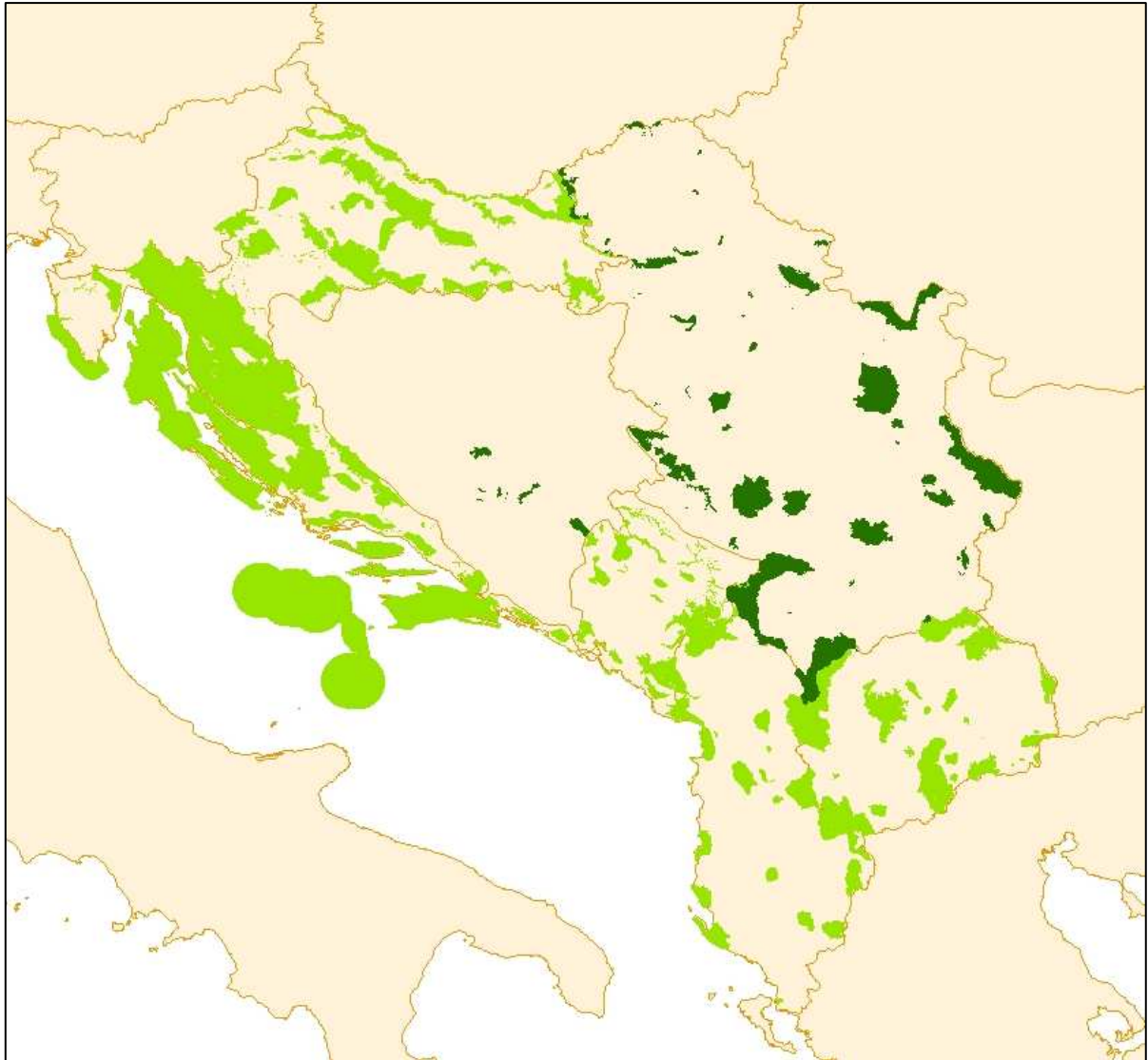
All countries delivered digital boundaries.

The figure below illustrates the delivery for Croatia showing also the typology for sites (A, B and C), as taken from the Croatia report.



For Bosnia-Herzegovina, not all site boundaries could be merged, due to unclear projection parameters.

The picture below illustrates the boundaries which could be merged.



Site boundary data, which could be merged into one layer.

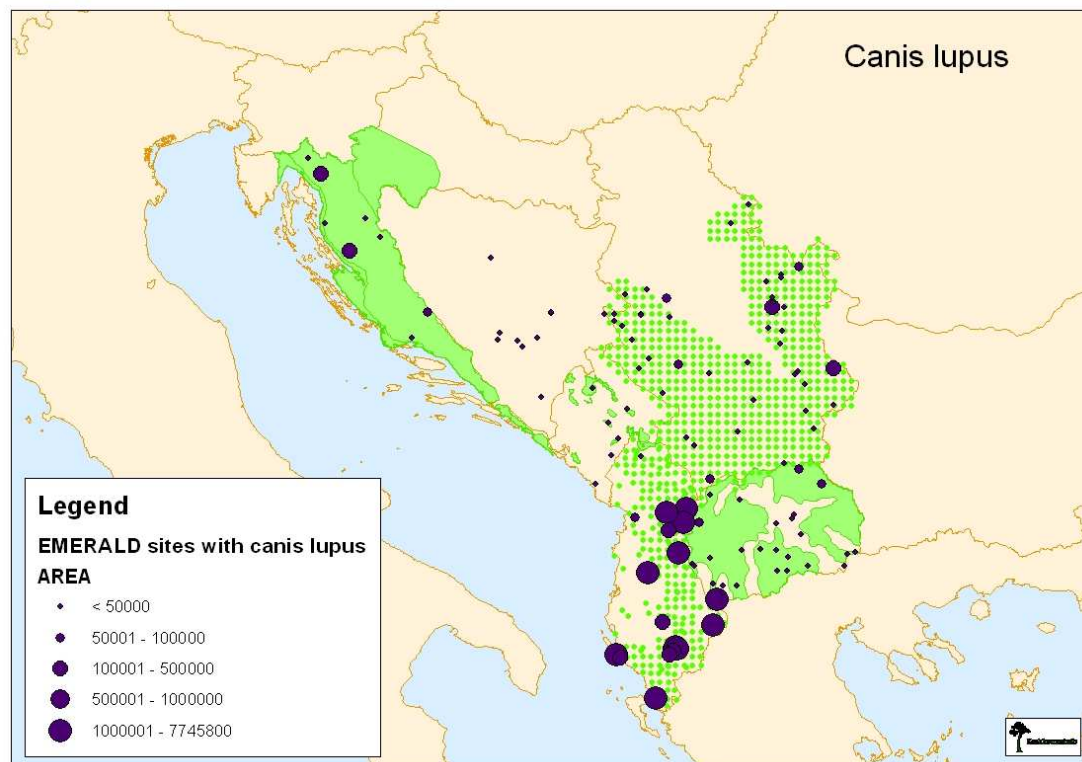
5. Towards site Network Evaluation

To be able to evaluate the efficiency of the Emerald Site Network for the benefit of the longterm survival of the species and the habitats of the resolutions and annexes, an integrated assessment of all available data is necessary.

This section is also referring to the “Proposal for setting up criteria for assessing the National Lists of proposed Areas of Special Conservation Interest (ASCI) (Document nr. T-PVS/Emerald (2007) 03)

Three examples are shown below: “Canis lupus”, Ursus arctos” and Beech forest. For each example the proposed Emerald sites for which the species or habitat have been indicated are mapped against their distribution map. The individual site records are given in a separate table.

First example: Canis lupus



- Distribution of Canis lupus in Albania and Serbia by 10x10 UTM km grid
- Distribution of Canis lupus in Croatia, Montenegro and FYR of Macedonia in polygons
- Distribution of Canis lupus in Bosnia-Herzegovina not yet integrated due to projection problems

Individual site records for Canis lupus:

- Out of 127 sites, 23 have been given no criteria, 42 have been given a population criteria of “D” (non-significant), 40 “C”, 21 “B” and only 1 with “A”
- Sites without coordinates for the central point are not mapped

Number of sites for *Canis lupus* and distribution of use of the population criteria field:

country	Number of Sites	<>	A	B	C	D
AL	18			12	6	
BA	12				12	
HR	8	8				
ME	17			1	15	1
MK	30	15	1	8	4	2
RS	42				3	39
Total	127	23	1	21	40	42

Population criteria field: D: non-significant
A: > 15 % of national total
B: 2 <> 15 % of national total
C: < 2 % of national total

Individual site records for *Canis lupus*:

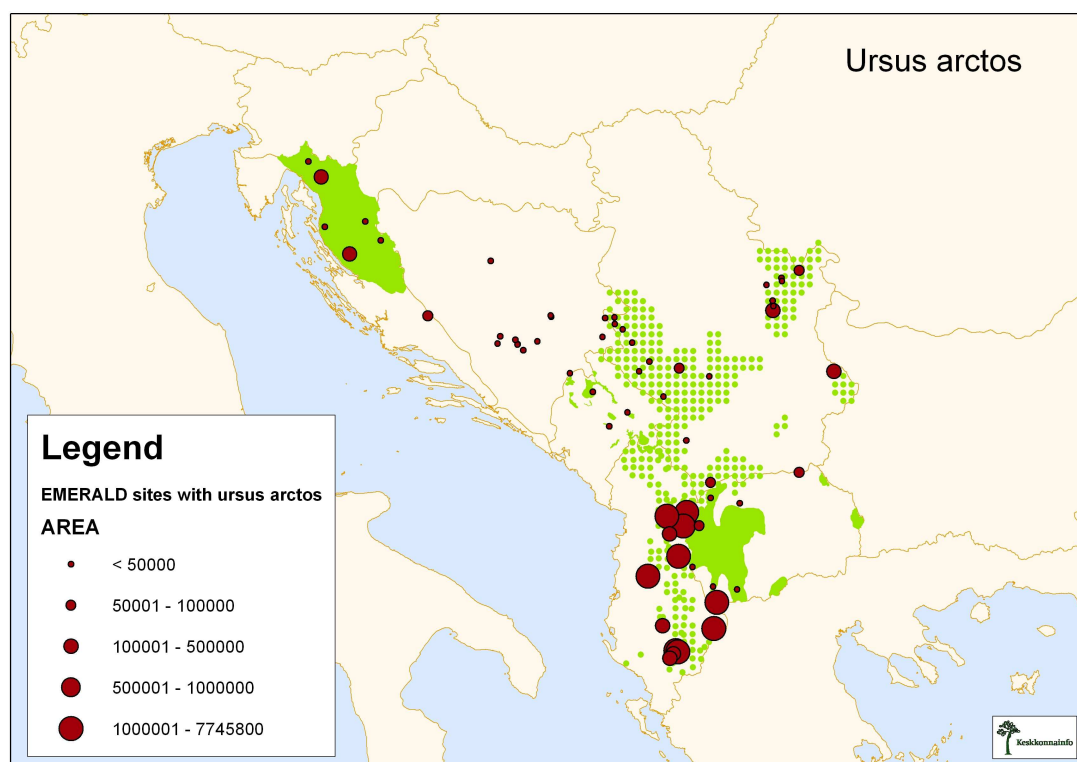
SITECODE	LO	LA	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
AL0000001	19.56	40.22	P				C	C	C	B
AL0000003	20.92	40.86	P				B	C	C	B
AL0000004	20.07	39.79			P		C	C	C	C
AL0000005	20.23	41.60	P				B	C	C	B
AL0000006	20.15	40.61	P				B	C	C	B
AL0000007	19.93	41.14	P				C	C	C	B
AL0000010	20.37	41.36	X				B	A	C	B
AL0000011	20.19	41.79	X				B	C	C	B
AL0000012	20.36	40.33	X				B	B	C	B
AL0000013	20.87	40.58					B		C	B
AL0000014	19.51	40.25	X				B	C	C	B
AL0000015	20.25	40.25	X				B	B	C	B
AL0000018	20.31	40.31	X				C	B	C	C
AL0000019	20.32	40.32	X				C	B	C	C
AL0000020	20.34	40.34	X				B	B	C	B
AL0000022	20.43	41.69	x				B	B	C	B
AL0000025	19.74	41.73	X				C	B	C	C
AL0000023	20.49	41.83	X				B	C	C	C
BA0000001	18.25	43.65					C			
BA0000002	18.04	43.55					C			
BA0000003	17.96	43.61					C			
BA0000005	17.65	43.61					C			
BA0000006	17.95	43.61					C			
BA0000007	17.69	43.69					C			
BA0000010	17.50	44.50					C			
BA0000011							C			
BA0000015	18.43	43.93					C			

SITECODE	LON	LAT	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
BA0000017	18.44	43.92					C			
BA0000023	18.33	43.01					C			
BA0000027	19.24	43.92					C			
HR1000019	14.86	45.29								
HR1000020	15.58	44.85								
HR1000022	15.38	44.49								
HR1000028	16.60	43.88								
HR2000447	14.65	45.45								
HR2000605	14.97	44.76								
HR2000930	16.38	43.59								
HR2001058	15.83	44.66								
ME0000000			P				C	C	B	C
ME0000001	19.48	42.59	P				C	C	B	C
ME0000002	19.09	43.12	P	+	+		C	C	C	C
ME0000007	19.60	42.91	P				B	C	C	B
ME0000008	19.39	42.41	P				C	C	B	C
ME0000009	19.34	42.75	P				C	B	C	B
ME000000A	19.82	42.40	P				C	C	B	C
ME000000D	19.16	42.10	P				D			
ME000000F			P				C	C	C	C
ME000000H			P				C	C	B	C
ME000000I			P				C	C	B	C
ME000000J			P				C	C	B	C
ME000000M			P				C	C	B	C
ME000000N							C	C	C	C
ME000000O			P				C	C	B	C
ME000000R			P				C	C	C	C
ME000000X			P				C	C	C	C
MK0000001	20.86	41.03	C				B	B	C	C
MK0000002	21.01	41.01	R				C	B	C	B
MK0000003	22.74	41.21	C				B	B	B	B
MK0000004	21.21	41.00	C				B	B	C	A
MK0000005	21.27	41.39	C				B	B	C	A
MK0000006	21.94	41.31	R				B	B	C	B
MK0000007	20.66	41.69	C				A	B	C	A
MK0000008	20.83	41.99	C				B	B	C	B
MK0000009	21.25	41.93	P				D			
MK0000010	22.03	41.77	C				B	B	C	B
MK0000011	22.14	41.56	R				D			
MK0000012	22.90	41.35	C				C	B	C	C
MK0000014	20.83	41.31	R				C	B	C	B

SITECODE	LON	LAT	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
MK0000015	21.93	41.16	R				B	B	C	B
MK0000016	21.55	41.40	R				C	B	C	B
MK0000017	22.11	42.26								
MK0000018	21.79	41.16								
MK0000019	22.23	41.21								
MK0000020	20.57	41.24								
MK0000021	22.79	41.34								
MK0000023	21.78	41.68								
MK0000025	21.01	40.93								
MK0000026	22.44	42.09								
MK0000027	20.60	41.22								
MK0000028	21.78	41.39								
MK0000029	22.11	42.26								
MK0000031	22.00	41.73								
MK0000032	21.75	41.16								
MK0000033	22.96	40.72								
MK0000035	22.01	41.81								
RS0000002	20.80	43.31	R				D			
RS0000004	20.47	42.61	C				D			
RS0000005	21.13	44.93	30				C	C	A	C
RS0000006	22.34	42.70	C				D			
RS0000008	20.82	42.16	P				D			
RS0000009	19.39	43.93	P				D			
RS0000011	22.65	43.35	C				D			
RS0000012	22.15	44.44	C				D			
RS0000015	21.90	42.33	C				D			
RS0000017	21.41	45.13	*				C	C	A	C
RS0000018	19.51	43.80	C				D			
RS0000019	22.21	43.18	P				D			
RS0000020	22.07	43.28	P				D			
RS0000025	19.91	43.46	C				D			
RS0000026	19.77	43.35	P				D			
RS0000027	21.89	43.76	R				D			
RS0000028	21.22	42.67	V				D			
RS0000030	20.36	43.39	C				D			
RS0000031	22.12	43.31	P				D			
RS0000032	20.59	42.52	P				D			
RS0000033	20.21	43.91	V				D			
RS0000034	19.66	43.66	R				D			
RS0000035	22.63	42.95	p				D			
RS0000036	20.17	44.11	V				D			

SITECODE	LON	LAT	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
RS0000037	20.13	43.08	C				D			
RS0000039	19.54	44.14	P				D			
RS0000041	21.89	44.33	P				D			
RS0000042	21.88	44.37	P				D			
RS0000043	21.92	44.01	P				D			
RS0000044	21.38	43.42	P				D			
RS0000046	19.78	43.94	P				D			
RS0000047	21.76	44.06	P				D			
RS0000048	22.22	42.89	P				D			
RS0000049	19.79	43.92	R				D			
RS0000050	21.66	44.29	P				D			
RS0000051	21.69	43.79	P				D			
RS0000052	21.87	43.62	V				D			
RS0000054	19.86	44.21	R				D			
RS0000055	21.75	44.02	C				C	B	C	A
RS0000057	19.39	43.86	P				D			
RS0000060	21.46	43.01	P				D			
RS0000061	21.75	44.12	P				D			

Second example: Ursus arctos



- Distribution of Ursus arctos in Albania and Serbia by 10x10 UTM km grid
- Distribution of Ursus arctos in Croatia, Montenegro and FYR of Macedonia in polygons
- Distribution of Ursus arctos in Bosnia-Herzegovina not yet integrated due to projection problems

Individual site records for Ursus arctos:

- Out of 73 sites, 10 have been given no criteria, 16 have been given a population criteria of “D”, 26 “C”, 17 “B” and only 4 with “A”
- Sites without coordinates for the central point are not mapped

Number of sites for Ursus arctos and distribution of use of the population criteria field:

country	Number Of Sites	<>	A	B	C	D
AL	13			9	4	
BA	14	1		1	11	1
HR	7	7				
ME	13			3	10	
MK	7	2	2	2		1
RS	19		2	2	1	14
Total	73	10	4	17	26	16

Population criteria field:

D: non-significant

A: > 15 % of national total

B: 2 <> 15 % of national total

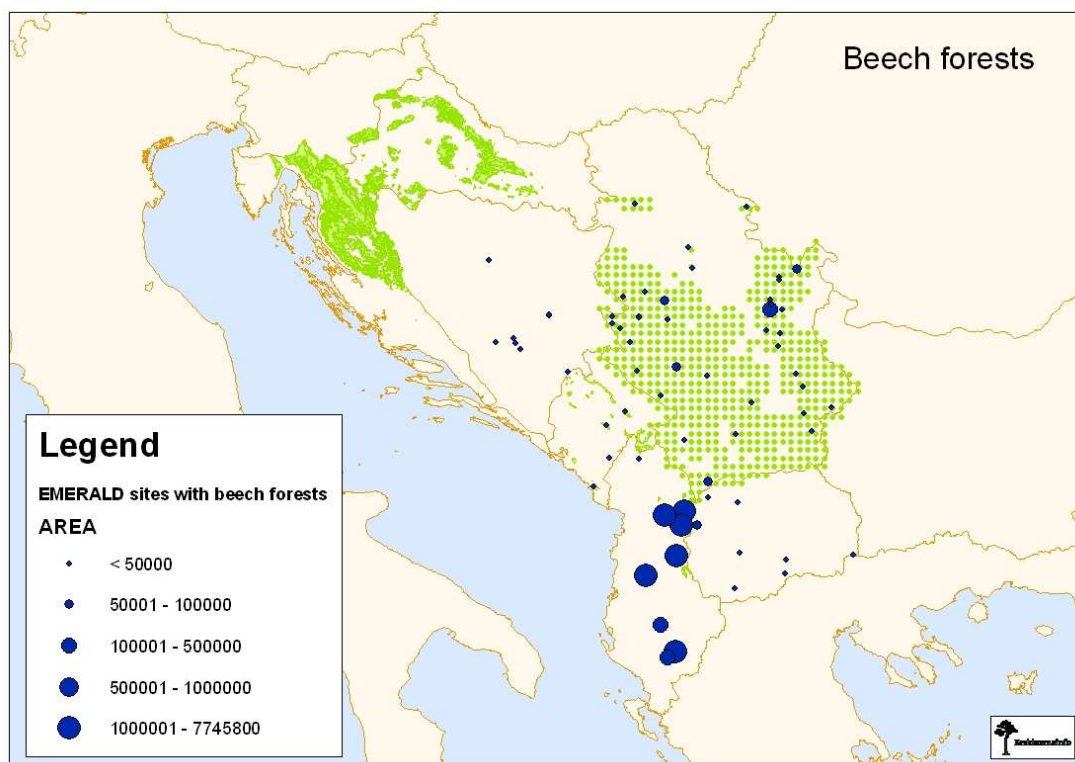
C: < 2 % of national total

Individual site records for *Ursus arctos*:

SITECODE	LON	LAT	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
AL0000003	20.92	40.86	P				C	C	C	C
AL0000005	20.23	41.60	P				B	C	C	B
AL0000006	20.15	40.61	P				B	C	C	B
AL0000007	19.93	41.14	P				C	C	C	C
AL0000010	20.37	41.36	X				B	B	C	B
AL0000011	20.19	41.79	X				B	C	C	B
AL0000012	20.36	40.33	X				B	B	B	B
AL0000013	20.87	40.58					B		C	B
AL0000015	20.25	40.25	X				B	B	C	B
AL0000018	20.31	40.31	X				C	B	C	C
AL0000020	20.34	40.34	X				B	B	B	B
AL0000022	20.43	41.69	x				B	B	C	B
AL0000023	20.49	41.83	X				C	C	C	C
BA0000001	18.25	43.65					C			
BA0000002	18.04	43.55					C			
BA0000003	17.96	43.61					C			
BA0000004	17.92	43.66					C			
BA0000005	17.65	43.61					C			
BA0000006	17.95	43.61					C			
BA0000007	17.69	43.69					C			
BA0000009	18.74	43.32					C			
BA0000010	17.50	44.50					B			
BA0000011							C			
BA0000015	18.43	43.93					C			
BA0000017	18.44	43.92					C			
BA0000027	19.24	43.92					D			
BA0000028	19.21	43.72								
HR1000019	14.86	45.29								
HR1000020	15.58	44.85								
HR1000022	15.38	44.49								
HR1000028	16.60	43.88								
HR2000447	14.65	45.45								
HR2000605	14.97	44.76								
HR2001058	15.83	44.66								
ME0000000			P				B	C	B	C
ME0000002	19.09	43.12	P	+	+		C	C	B	C
ME0000007	19.60	42.91	P				C	C	A	B
ME0000009	19.34	42.75	P				C	C	B	C
ME000000F			P				B	C	B	C

SITECODE	LON	LAT	RESIDENT	BREEDING	WINTER	STAGING	POPULATION	CONSERVE	ISOLATION	GLOBAL
ME000000H			P				C	C	B	C
ME000000I			P				C	C	B	C
ME000000J			P				C	C	B	C
ME000000M			P				C	C	B	C
ME000000N							B	C	B	C
ME000000O			P				C	C	B	C
ME000000R			P				C	C	B	C
ME000000X			P				C	C	B	C
MK0000001	20.86	41.03	C				B	B	B	C
MK0000004	21.21	41.00	C				A	A	C	A
MK0000007	20.66	41.69	C				A	A	C	A
MK0000008	20.83	41.99	R				B	C	C	C
MK0000009	21.25	41.93	V				D			
MK0000017	22.11	42.26								
MK0000020	20.57	41.24								
RS0000002	20.80	43.31	V				D			
RS0000004	20.47	42.61	11-50				A	C	A	C
RS0000008	20.82	42.16	P				B	C	B	C
RS0000009	19.39	43.93	C				A	B	C	C
RS0000011	22.65	43.35	V				D			
RS0000012	22.15	44.44	1-5				B	C	B	C
RS0000018	19.51	43.80	R				D			
RS0000025	19.91	43.46	R				D			
RS0000026	19.77	43.35	P				D			
RS0000030	20.36	43.39	V				D			
RS0000034	19.66	43.66	V				D			
RS0000037	20.13	43.08	V				D			
RS0000041	21.89	44.33	P				D			
RS0000042	21.88	44.37	P				D			
RS0000047	21.76	44.06	P				D			
RS0000050	21.66	44.29	P				D			
RS0000055	21.75	44.02	V				C	C	B	C
RS0000057	19.39	43.86	P				D			
RS0000061	21.75	44.12	P				D			

Third example: Beech forests



- Distribution of Beech Forest in Serbia by 10x10 UTM km grid
- Distribution of Beech Forest in Croatia = Annex I subtype “Illyrian Beech Forest”
- Distribution of Beech Forest in Bosnia-Herzegovina and Albania not yet integrated due to projection problems
- Distribution of Beech Forest in FYR of Macedonia not yet given

Individual site records for Beech Forest:

- Out of 86 sites, all have been given criteria, only 2 have been given a representativity criteria of “D”, 10 “C”, 52 “B” and 22 with “A”
- Sites without coordinates for the central point are not mapped
- Sites for Croatia are not mapped because of use of annex I of the habitats directive

Number of sites for Beech Forest and distribution of use of the representativity criteria field:

country	Number Of Sites	A	B	C	D
AL	8	2	5	1	
BA	10	5	5		
ME	20	3	14	2	1
MK	11	1	6	4	
RS	37	11	22	3	1
Total	86	22	52	10	2

Individual site records for Beech Forest:

SITECODE	HBCDAX	COVER	REPRESENT	REL_SURF	CONSERVE	GLOBAL
BA0000001	41.1	10	A	C	A	A
BA0000002	41.1	10	B	C	B	B
BA0000004	41.1	15	B	C	B	B
BA0000005	41.1	20	A	C	A	A
BA0000009	41.1	20	A	C	A	A
BA0000011	41.1	30	B	C	C	B
BA0000003	41.1	15	A	C	A	A
BA0000010	41.1	40	A	C	B	A
BA0000017	41.1	20	B	C	A	B
BA0000015	41.1	30	B	C	A	A
MK0000004	41.1	24	A	C	A	B
MK0000005	41.1	3	C	C	B	C
MK0000006	41.1	2	C	C	B	C
MK0000007	41.1	28	B	C	A	B
MK0000008	41.1	26	B	C	B	B
MK0000009	41.1	1	C	C	B	C
ME0000002	41.194		B	B	A	A
ME0000002	41.1C4		C	B	A	A
AL0000006	41.1		B	C	C	B
AL0000007	41.1		A	B	A	A
AL0000010	41.1	50	B	B	B	B
AL0000011	41.1	15	A	B	C	C
AL0000012	41.1	5	C	A	B	B
AL0000015	41.1	80	B	B	B	B
AL0000022	41.1		B	B	B	
ME0000007	41.1	15	A		A	A
ME0000008	41.1		B			B
ME0000009	41.1		B		B	B
ME000000A	41.1		B		A	B
ME000000D	41.1	15	A	B	A	B
ME000000M	41.1	30	A	C	C	A
ME000000N	41.1		B	C	C	B
ME000000P	41.1		B	C	B	B
ME000000X	41.1		B	C	C	B
ME000000I	41.1		C	C	C	C
ME000000H	41.1		D			
ME000000O	41.1		B	C	C	B
ME000000F	41.1		B	B	C	A
ME000000R	41.1		B	C	C	B
ME000000S	41.1		B	C	C	A
ME0000000	41.1		B	C	C	B
ME000000U	41.1		B	C	C	B
ME000000J	41.1		B	C	C	B
RS0000008	41.1	13	B	B	B	C
RS0000046	41.1		B	C	B	B
RS0000009	41.1		B	C	B	B
RS0000057	41.1		B	C	B	B
MK0000012	41.1	78	B	B	B	B

SITECODE	HBCDAX	COVER	REPRESENT	REL_SURF	CONSERVE	GLOBAL
MK0000015	41.1	30	B	C	B	B
ALOOOOO23	41.1		B	B	C	
RS0000039	41.1	32	B	C	B	B
RS0000035	41.1	20	B	C	B	B
RS0000059	41.1		B	C	B	B
RS0000051	41.1	100	A	C	A	B
RS0000027	41.1	20	C	C	B	C
RS0000018	41.1		B	B	B	B
RS0000048	41.1	100	B	C	A	B
RS0000034	41.1		B	C	B	B
RS0000054	41.1	3	B	C	B	B
RS0000007	41.1	9.4	A	B	A	A
RS0000037	41.1		B	C	B	B
RS0000017	41.1	10.5	B	C	B	B
RS0000049	41.1	40	C	C	C	C
RS0000026	41.1		B	C	B	B
RS0000055	41.1		B	B	B	B
RS0000028	41.1		D			
RS0000058	41.1	7	B	C	B	B
RS0000043	41.1		B	C	B	B
RS0000052	41.1		B	C	B	B
RS0000060	41.1		A	B	A	A
RS0000019	41.1	15	A	B	B	A
RS0000036	41.1		B	C	B	B
RS0000030	41.1	10	A	B	B	A
RS0000033	41.1		B	C	B	B
RS0000061	41.1	100	A	C	A	A
RS0000041	41.1	100	A	C	A	A
RS0000042	41.1	40	A	C	A	A
RS0000031	41.1	10	C	C	C	C
RS0000047	41.1	100	A	C	A	A
RS0000012	41.1	55	B	B	B	B
RS0000002	41.1	10	A	B	C	C
RS0000004	41.1	10	A	B	C	C
RS0000006	41.1	7	B	C	C	C
MK0000017	41.1	35	B	C	B	B
MK0000020	41.1	35	B	C	B	B
MK0000020	41.17	15	C	C	C	C

6. Conclusions

- The CARDS program was very important for capacity building for the setting up of the Emerald sites network as well as for N2000 (team work, publicity, public awareness etc ...)
- The Species and Habitats from resolutions are identified for which the sites network has to be created for each of the countries
- Major efforts were invested for data gathering and data delivery by all 6 countries
- Major improvement were made for the collection and use of GIS data, for site boundary information as well as distribution data for species and habitats.
- The main results are concentrated around getting the sites data together. More time and effort is needed in the near future for the validation and evaluation of the network for the long-term survival of the species and habitats of the resolutions. Thanks to the CARDS program a proposal was made towards a common list of suggested amendments to the resolutions for the whole of the West-Balkan Region. The main gap can be identified in the lack of standardised background information on species and habitats of European concern, which could hamper the network evaluation if no action is taken to collect this information. The process in West-Balkan can be seen as an example for other regions in Europe, even if some of the results would need further improvement.
- ...

7. Acknowledgements

The Council of Europe expresses its thanks to the European Environment Agency for this important contribution to the development of the Emerald Network and to its European Topic Centre for Biological Diversity.

It expresses also its thanks to the consultant of the Emerald Network, Mr Marc Roekaerts, for his dedication to this project.

Special thanks to the national authorities of the six countries concerned and in particular to Croatia and “the Former Yugoslav Republic of Macedonia” for the organisation of the two regional coordination workshops organised in the framework of the implementation of this project, respectively in Zagreb in October 2008 and in Ohrid in July 2007.

Annexes

- Annex I: List of proposed Emerald sites (ASCI's) per country (ordered by site code)
- Annex II: Number of sites per Habitat of Resolution Nr. 4 (for Croatia the habitat list corresponds to Annex I of the Habitats Directive)
- Annex III: Number of sites for Amphibians and Reptiles (in alphabetical order)
- Annex IV: Number of sites for Birds (in alphabetical order)
- Annex V: Number of sites for Fishes (in alphabetical order)
- Annex VI: Number of sites for Invertebrates (in alphabetical order)
- Annex VII: Number of sites for Mammals (in alphabetical order)
- Annex VIII: Number of sites for Plants (in alphabetical order)
- Annex IX: Emerald Sites Database Structure and detailed list of information fields per table in the Emerald database and section number from the Standard Data Form to which the field refers
- Annex X: Regional Meeting of Experts for the Development of the Emerald Network (CARDS programme), Ohrid, 10-11 July 2006: Summary conclusions
- Annex XI: Detailed report on changes made to the sites database of Serbia-Montenegro (CS) when creating the database for Montenegro (ME)
- Annex XII: Detailed report on changes made to the sites database of Serbia-Montenegro (CS) when creating the database for Serbia (RS)
- Annex XIII: Second Regional Meeting of Experts for the Development of the Emerald Network (CARDS programme), Zagreb, 1-2 October 2008: Summary Conclusions
- Annex XIV: List of national representatives responsible for the implementation of the Programme CARDS/Emerald

Annex I: List of proposed Emerald sites (ASCI's) per country (ordered by site code)

TYPE	SITECODE	SITE_NAME	area
C	AL0000001	"Llogara" National Park	1010.00
C	AL0000002	Divjaka Pine National Park / Parku Kombetar "Pisha e Divjakes"	7065.00
C	AL0000003	Parku Kombetar i Prespes / Prespa National Park	27750.00
B	AL0000004	Butrinti National Park / Parku Kombetar i Butrintit	13500.00
B	AL0000005	Allamani Strict Nature Reserve (porposed) / Rezerva Strikte Natyrore e Allamanit	1659.00
B	AL0000006	Tomorri National Park / Parku Kombetar i Tomorrit	4000.00
B	AL0000007	Dajti National Park (extended) / Parku Kombetar i Dajtit	29347.00
A	AL0000008	Protected landscape of the wetland complex Vjose-Narte / Peisazhi i Mbrojtur i sistemit ligatinor Vjose-Narte	19412.00
C	AL0000009	Managed Nature Reserve (Albanian part) of Shkodra lake / Rezerva Natyrore e Menaxhuar e Liqenit te Shkodres	49758.00
C	AL0000010	Alps (proposed National Park) / Parku Kombetar Alpet (i propozuar)	77458.00
C	AL0000011	Kurora Lures-Kunore-Valmore-Zall-Gjocaj (proposed National Park) / PK Kurora Lures-Kunore-Valmore-Zall-Gjocaj (i propozuar)	16596.00
C	AL0000012	Bredhi Hotoves-Dangelli (proposed National park) / PK Bredhi i Hotoves-Dangelli (i propozuar)	14973.00
C	AL0000013	Morava (proposed Protected Landscape) / Peizazhi i mbrojtur Morave (i propozuar)	29155.00
C	AL0000014	Karaburun- Oriku-Dukat (proposed National Park) / Parku Kombetar Karaburun-Orikum-Dukat (i propozuar)	33036.00
C	AL0000015	Bize-Brsoh-Berdhet (proposed Protected Landscape) / Peizazhi i Mbrojtur Bize-Brosh- Berdhet (i propozuar)	4000.00
C	AL0000016	Karavasta (proposed National Park) / Parku Kombetar Karavasta (i propozuar)	33900.00
C	AL0000017	Shengjin-Ishem (proposed Managed Natural Reserve) / RNM Shengjin-Ishem (i propozuar)	30000.00
C	AL0000018	Managed Nature Reserve Kuturman-Qafe Bush / RNM Kuturman-Qafe Bush	4100.00
C	AL0000019	Pogradec Protected Landscape / Peizazhi i Mbrojtur Pogradec	27323.00
C	AL0000020	National Park RNM Germenj-Shelegure-Leskovic-Piskal (proposed) / Parku Kombetar Germenj-Shelegure-Leskovic-Piskal (e propozuar)	16000.00
C	AL0000021	Protected Landscape of Buna river - Velipoja / Peizazhi i Mbrojtur li lumit te Bunes-Velipoja	23027.00
C	AL0000022	National Park Rrajce-Shebenik (proposed) / Parku Kombetar Shebenik-Jabllanice	25000.00
C	AL0000024	Managed Nature Reserve Rrushkulli-Ishem (proposed) / Rezerva natyrore e Menaxhuar Rrushkull-Ishem (e propozuar)	2000.00
C	AL0000025	Managed Nature Reserve of Berzane / Rezerva natyrore e Menaxhuar Berzane	1000.00
C	AL0000023	Protected Landscape of Korabi (proposed) /Peizazhi i Mbrojtur i Korabit	31360.54
B	BA0000001	Kanjon Rakitnice	2000.00
A	BA0000002	Gornji tok Neretve	21419.00
C	BA0000003	Kanjon Idbra	5500.00
C	BA0000004	Zlatar	2368.00
A	BA0000005	Diva Grabovica	3600.00
C	BA0000006	Kanjon Bijele	3300.00
A	BA0000007	Rijeka Doljanka	3400.00
B	BA0000008	Rama	25357.00
B	BA0000009	Kompleks Maglic-Volujak-Zelengora	8000.00
B	BA0000010	Vranica	7800.00
A	BA0000011	Vlasic	7723.00
B	BA0000012	Popovo polje/Vjetrenica	35146.00
B	BA0000013	Pecine kod Brckog	1488.00
B	BA0000014	Miljacka-Lapisnica-Moscanica	621.00
B	BA0000015	Vodopad Skakavac	110.00
C	BA0000016	Srebrnik-Tinja	792.00
C	BA0000017	Crepoljsko-Bukovik	4136.00
A	BA0000018	Raca-Bijeljina	8438.00
A	BA0000019	Bardaca-Lijevice polje	2206.00
B	BA0000020	Vrbas-Tijesno	397.00
B	BA0000021	Ugar kanjon	3099.00
A	BA0000022	Crna rijeka, pritoka Vrbasa	492.00
A	BA0000023	Fatnicko polje	2913.00
C	BA0000024	Dabarsko polje	4016.00
A	BA0000025	Nevesinjsko polje	16733.00
A	BA0000026	Gatacko Veliko polje	8527.00
B	BA0000027	Veliki Stolac	15569.00
B	BA0000028	kanjon Drine	9437.00
A	BA0000029	Livanjsko polje	45868.00
F	HR1000001	Pokupski bazen	44968.70
J	HR1000002	Sava kod Hruscice (s okolnim sljuncarama)	1759.50
F	HR1000003	Turopolje	22750.50
F	HR1000004	Donja Posavina	125939.00
F	HR1000005	Jelas polje s ribnjacima i poplavnim pasnjacima uz Savu	41885.50
G	HR1000006	Spacvanski bazen	43001.00
D	HR1000008	Bilogora i Kalnicko gorje	154601.00
F	HR1000009	Ribnjaci uz Cesmu (Siscani, Blatnica, Narta i Vuksinac)	23218.80
D	HR1000010	Poilovlje s ribnjacima Koncanica, Garesnica i Poljana	27583.80

TYPE	SITECODE	SITE_NAME	area
F	HR1000011	Ribnjaci Grudnjak i Nasicki ribnjak s kompleksom luznjakovih suma	20591.80
A	HR1000012	Taloznice Viroviticke secerane	-99.00
H	HR1000013	Dravske akumulacije	19687.50
H	HR1000014	Gornji tok Drave (od Donje Dubrave do Terezinog polja)	34135.80
H	HR1000015	Srednji tok Drave (od Terezinog polja do Donjeg Miholjca)	17191.00
H	HR1000016	Podunavlje i donje Podravlje	82506.30
F	HR1000018	Ucka i Cicarija	31057.30
C	HR1000019	Gorski kotar, Primorje i sjeverna Lika	272571.00
C	HR1000020	Nacionalni park Plitvicka jezera (s Vrhovinskim poljem)	31437.80
D	HR1000021	Licka krska polja	278480.00
C	HR1000022	Velebit	206219.00
D	HR1000023	Sjeverozapadna Dalmacija i Pag	72386.00
D	HR1000024	Ravni kotari	104130.00
D	HR1000025	Vransko jezero i Jasen	5907.50
D	HR1000026	Krka i okolni plato	110437.00
F	HR1000027	Mosor, Kozjak i Trogirska zagora	46312.50
D	HR1000028	Dinara	54274.30
D	HR1000029	Cetina	23444.80
H	HR1000030	Park prirode Biokovo	19543.47
C	HR1000031	Delta Neretve	24873.80
F	HR1000032	Akvatorij zapadne Istre	81404.00
D	HR1000033	Kvarnerski otoci	265968.00
D	HR1000034	Sjeverni dio zadarskog arhipelaga	75426.30
D	HR1000035	Nacionalni park Kornati i Park prirode Telascica	28566.20
D	HR1000036	Srednjedalmatinski otoci i Peljesac	141161.00
C	HR1000037	Nacionalni park Mljet	5292.50
C	HR1000038	Lastovsko otocje	19583.40
F	HR1000039	Pucinski otoci	628547.00
F	HR1000040	Papuk	36299.80
G	HR2000003	Baliceva spilja	-99.00
B	HR2000004	Baraceva spilja donja	-99.00
B	HR2000005	Bariceva spilja	-99.00
G	HR2000006	Bazgovaca jama	-99.00
B	HR2000007	Betina velika jama	-99.00
G	HR2000008	Biserujka spilja	-99.00
G	HR2000010	Kranjica spilja	-99.00
G	HR2000011	Budina spilja	-99.00
G	HR2000012	Bukovac spilja	-99.00
E	HR2000013	Cerovacka spilja donja	-99.00
G	HR2000016	Campari jama	-99.00
G	HR2000018	Cinjarda spilja	-99.00
B	HR2000019	Cocina jama	-99.00
G	HR2000020	Culumova pecina	-99.00
G	HR2000021	Dobra jama	-99.00
B	HR2000022	Dragica spilja II	-99.00
G	HR2000024	Drinovcusa jama	-99.00
B	HR2000026	Dumencica spilja	-99.00
G	HR2000027	Duderina spilja	-99.00
B	HR2000029	Durovica spilja	-99.00
B	HR2000030	Dutno spilja	-99.00
G	HR2000031	Golubinka kod Vucevice	-99.00
B	HR2000032	Golubnjaca spilja	-99.00
G	HR2000033	Gospodska spilja	-99.00
G	HR2000034	Gotovz	-99.00
G	HR2000036	Grapceva spilja	-99.00
E	HR2000037	Grizeljeva spilja	-99.00
B	HR2000038	Grota spilja	-99.00
B	HR2000039	Guidova bezdanka jama	-99.00
G	HR2000040	Hrnjakova spilja	-99.00
G	HR2000042	Jakasova spilja	-99.00
G	HR2000046	Jama kod Hraste	-99.00
B	HR2000049	Jama na Maloj Zabi	-99.00
B	HR2000050	Jama na Visokoj	-99.00
B	HR2000051	Jama nad Zasten	-99.00
G	HR2000053	Jama pod Malim Kraljevcem	-99.00
B	HR2000055	Jama u Kukuljici	-99.00
G	HR2000056	Jama za Mahrincem	-99.00
B	HR2000057	Jazbina jama	-99.00
G	HR2000058	Jeskalovica jama	-99.00
G	HR2000059	Jezero na Gatuli jama	-99.00
G	HR2000061	Kaverna u tunelu Ucka	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR2000062	Kotlusa spilja	-99.00
G	HR2000063	Kraljicina spilja	-99.00
G	HR2000065	Krucica spilja	-99.00
B	HR2000066	Boziceva spilja	-99.00
B	HR2000067	Kustrovka spilja	-99.00
G	HR2000068	Ledena spilja	-99.00
G	HR2000069	Ledenica kod Pecinskog vrha	-99.00
G	HR2000070	Ledenica na podnozju Jabukovca	-99.00
G	HR2000071	Ledenica u Cudinoj uvali	-99.00
B	HR2000072	Ledenicka spilja	-99.00
G	HR2000073	Lipica jama	-99.00
B	HR2000075	Lokvina spilja	-99.00
G	HR2000078	Luska spilja	-99.00
G	HR2000079	Maklutaca spilja	-99.00
G	HR2000080	Mala Birnjaca jama	-99.00
B	HR2000081	Mala spilja između Dubrovnika i Komolca	-99.00
B	HR2000083	Markova jama	-99.00
G	HR2000084	Markova spilja	-99.00
B	HR2000085	Matesica pecina	-99.00
B	HR2000089	Milica spilja	-99.00
B	HR2000091	Movrica spilja	-99.00
B	HR2000092	Ostasevica spilja	-99.00
G	HR2000093	Ostrvicka spilja	-99.00
B	HR2000094	Ozaljska spilja	-99.00
G	HR2000095	Pcelina spilja	-99.00
B	HR2000096	Slipa pec u Culinovim raljevinama	-99.00
G	HR2000098	Pecina spilja (2)	-99.00
B	HR2000100	Pincinova jama	-99.00
G	HR2000101	Pisurka spilja	-99.00
B	HR2000102	Podrum spilja	-99.00
B	HR2000103	Poluspilja 1 km SI od Babinog polja	-99.00
B	HR2000104	Poluspilja kod Sobre	-99.00
B	HR2000105	Ponor kod Pule	-99.00
G	HR2000106	Ponor Ponikve II	-99.00
B	HR2000108	Privis jama	-99.00
B	HR2000109	Pukotina u stijeni kod Sobre	-99.00
G	HR2000110	Pustinja spilja	-99.00
B	HR2000111	Rabakova spilja	-99.00
G	HR2000112	Rodica spilja	-99.00
G	HR2000113	Rogic spilja	-99.00
G	HR2000114	Romualdova spilja	-99.00
G	HR2000116	Samograd spilja (1)	-99.00
G	HR2000117	Samograd spilja (2)	-99.00
G	HR2000118	Samogradic spilja	-99.00
G	HR2000119	Sinicic spilja	-99.00
B	HR2000120	Sitnica spilja	-99.00
G	HR2000123	Sniježnica pod Ljubljanom	-99.00
E	HR2000127	Stinjevac izvor	-99.00
B	HR2000128	Strasna pec	-99.00
B	HR2000129	Strazbenica spilja	-99.00
G	HR2000131	Skabac spilja	-99.00
G	HR2000132	Skarin Samograd	-99.00
G	HR2000134	Spilja između Milne i Nerezisca	-99.00
B	HR2000135	Spilja iznad Velikog Bresta	-99.00
B	HR2000136	Spilja kod Brasine - Petrace	-99.00
B	HR2000138	Spilja kod Dubrovnika	-99.00
G	HR2000139	Veliki rudnik	-99.00
G	HR2000141	Gorska spilja	-99.00
G	HR2000145	Spilja kod Obrovca	-99.00
B	HR2000146	Spilja kod Permana	-99.00
B	HR2000147	Spilja kod Premanture	-99.00
B	HR2000148	Spilja kod Rovinja	-99.00
G	HR2000149	Spilja kod Stare Susice	-99.00
G	HR2000152	Spilja kod Vlisnice	-99.00
G	HR2000153	Spilja kod Vrane	-99.00
G	HR2000156	Spilja na Hvaru	-99.00
G	HR2000157	Spilja na Korculi	-99.00
G	HR2000160	Spilja na Mosoru	-99.00
B	HR2000161	Spilja na Svilaji planini	-99.00
B	HR2000162	Spilja na Ucki	-99.00
G	HR2000163	Spilja na Vrsinoj Glavici	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR2000164	Spilja od Vore	-99.00
G	HR2000165	Spilja pod Kapelu	-99.00
B	HR2000166	Spilja pod Krugom	-99.00
B	HR2000167	Spilja Tradanj	-99.00
G	HR2000170	Supljara spilja	-99.00
G	HR2000171	Tabaina spilja	-99.00
G	HR2000172	Spilja u Tankom Raticu	-99.00
B	HR2000174	Trbusnjak	-99.00
B	HR2000175	Trogrlo spilja	-99.00
B	HR2000176	Trojama jama	-99.00
G	HR2000178	Uviraljka	-99.00
B	HR2000179	Velika spilja kod Antunovica	-99.00
B	HR2000180	Velika spilja	-99.00
E	HR2000181	Velika spilja kod Goranca	-99.00
B	HR2000182	Velika spilja kod Neorica	-99.00
G	HR2000183	Velika zecica	-99.00
B	HR2000184	Vestar spilja	-99.00
B	HR2000186	Vilina spilja	-99.00
B	HR2000188	Vilinska jama, Sipan	-99.00
G	HR2000190	Vlaska pec	-99.00
G	HR2000191	Vodena peca	-99.00
G	HR2000192	Vranovinski ponor	-99.00
G	HR2000193	Vranjaca spilja kod Dugopolja	-99.00
B	HR2000194	Vranjaca spilja kod Trilja	-99.00
G	HR2000195	Vrelo spilja	-99.00
E	HR2000196	Vrlovka spilja	-99.00
E	HR2000198	Vukomanova spilja	-99.00
G	HR2000199	Vukova spilja	-99.00
G	HR2000200	Zagorska peæ kod Novog Vinodola	-99.00
G	HR2000203	Zelena spilja	-99.00
G	HR2000204	Zmajeva spilja	-99.00
B	HR2000205	Zubanova jama	-99.00
G	HR2000206	Zejava jama	-99.00
G	HR2000234	Draganicka suma - Jesevica 1	-99.00
G	HR2000299	Domagovicka šuma	-99.00
G	HR2000306	Turke	-99.00
B	HR2000309	Pazinska jama	-99.00
G	HR2000339	Ravnik - spilja 1	-99.00
G	HR2000355	Vela spilja	-99.00
B	HR2000356	Sjeverna Babja gora - Bresnica pozeska	-99.00
E	HR2000364	Mura	14625.80
K	HR2000366	Bednja	4226.24
B	HR2000368	Peteranec	201.25
E	HR2000369	Vrsni dio Ravne gore	669.25
B	HR2000371	Vrsni dio Ivancice	6187.00
E	HR2000372	Dunav - Vukovar	4669.25
G	HR2000394	Kopacki rit	23156.20
G	HR2000396	Dravske sume	15275.00
G	HR2000400	Repas	2948.25
G	HR2000415	Odransko polje	8498.48
G	HR2000416	Lonjsko polje	50206.20
G	HR2000420	Sunjsko polje	20368.80
G	HR2000423	Prasnik	57.25
G	HR2000426	Dvorina	1333.74
G	HR2000427	Gajna	567.00
G	HR2000432	Zib	569.75
G	HR2000433	Radiševo - odjel 14 C	372.50
G	HR2000434	Loze	79.00
G	HR2000435	Virovi	72.50
G	HR2000437	Ribnjaci Koncanica	1278.18
G	HR2000438	Ribnjaci Poljana	1602.45
G	HR2000440	Ribnjaci Siscani i Blatnica	761.56
G	HR2000441	Ribnjaci Narta	624.29
G	HR2000442	Cesma 1	22.75
G	HR2000443	Cesma 2	9.50
E	HR2000444	Varoski lug	792.50
E	HR2000445	Varoski Lug - suma 1	26.00
E	HR2000446	Varoski Lug - suma 2	25.50
G	HR2000447	Nacionalni park Risnjak	6233.75
G	HR2000449	Ribnjaci Crna Mlaka	689.75
G	HR2000450	Ribnjaci Draganici	385.50

TYPE	SITECODE	SITE_NAME	area
G	HR2000451	Ribnjaci Pisarovina	359.00
E	HR2000452	Zrinska gora	34287.80
E	HR2000454	Corkovaca	855.75
E	HR2000459	Petrinjica	175.00
E	HR2000461	Samarica	351.25
E	HR2000463	Dolina Une	3935.25
B	HR2000464	Muski bunar	33.50
B	HR2000465	Zutica	4697.75
G	HR2000466	Draganicka suma - Jesevica 2	-99.00
G	HR2000467	Cumbar	-99.00
B	HR2000468	Krivsko ostrvo	-99.00
B	HR2000469	Ripaca - Komletinci	-99.00
G	HR2000471	Draganicka suma - Preklatnice	-99.00
B	HR2000472	Jankovacka dubrava	-99.00
B	HR2000473	Jelas	-99.00
B	HR2000474	Sjeverna Babja gora - Rajkusa	-99.00
B	HR2000475	Juzna Babja gora - Pogana zaravan	-99.00
B	HR2000476	Istra - Cerovje - Jurisici	-99.00
B	HR2000478	Pozeska gora - Pacic	-99.00
B	HR2000479	Juzna Babja gora - Budimovac	-99.00
B	HR2000480	Garjevica - Begovaca	-99.00
B	HR2000481	Zapadni Psunj - Mala Marinica	-99.00
B	HR2000482	Bosiljevo	-99.00
B	HR2000483	Pozeska gora - Vasine laze	-99.00
B	HR2000484	Novaki Motovunski	-99.00
B	HR2000485	Istra - Dragonja	-99.00
B	HR2000486	Pazin - Cerovje - Bregi	-99.00
B	HR2000487	Donji Lapac	-99.00
B	HR2000488	Juzni Dilj	-99.00
G	HR2000496	Novigradsko more	-99.00
G	HR2000497	Senjska draga - Orlovo gnijezdo	-99.00
B	HR2000498	Juzna Babja gora - Jabucica	-99.00
B	HR2000499	Breznica - Dakovo	-99.00
G	HR2000500	Brod na Kupi - Sedalce	-99.00
G	HR2000501	Gusti laz	-99.00
B	HR2000502	Samoborsko gorje - Ludvic potok	-99.00
B	HR2000503	Samobor - Palacnik	-99.00
B	HR2000504	Sjeverna Babja gora - Stojanka	-99.00
G	HR2000505	Brusljan	-99.00
B	HR2000507	Samoborsko gorje - Visnjevec	-99.00
G	HR2000508	Divjake - Skradski vrh	-99.00
B	HR2000509	Kunovac Kupirovacki	-99.00
B	HR2000510	Papuk - Crni vrh	-99.00
G	HR2000511	Zalesina - Kupjacki vrh	-99.00
G	HR2000512	Gluhe drage	-99.00
G	HR2000513	Brod na Kupi - Golik	-99.00
G	HR2000514	Razloski dolci	-99.00
G	HR2000515	Zelin	-99.00
G	HR2000516	Zalesina - Belevine	-99.00
G	HR2000517	Praprot	-99.00
G	HR2000518	Sunger - Stara draga	-99.00
E	HR2000519	Turke - Straza	-99.00
G	HR2000520	Brod na Kupi - Hajdova hiza	-99.00
G	HR2000521	Brac - Baljenik	-99.00
B	HR2000522	Luka Budava - Istra	-99.00
G	HR2000523	Brac - Pucisca	-99.00
G	HR2000524	Orebic - Ruskovici	-99.00
G	HR2000525	Orebic - Osirac	-99.00
B	HR2000526	Ostrica - Sibenik	-99.00
B	HR2000527	Golubov kamen - Brgat	-99.00
G	HR2000528	Brac - Sumartin; Selce	-99.00
G	HR2000529	Sakanj rat	-99.00
B	HR2000542	Novakusa	-99.00
B	HR2000543	Vlazne livade uz potok Bračana (Zonti)	-99.00
B	HR2000544	Vlazne livade uz potok Malinska (Cepic polje)	-99.00
B	HR2000545	Vlazne livade kod Marusica	-99.00
B	HR2000546	Vlazne livade uz Jugovski potok (Strcaj)	-99.00
B	HR2000547	Vlazne livade uz Miru kod Fontane - 1	-99.00
E	HR2000548	Vlazne livade uz Miru kod Fontane - 2	-99.00
G	HR2000550	Krug	-99.00
B	HR2000552	Lokva u selu Podimoc	-99.00

TYPE	SITECODE	SITE_NAME	area
B	HR2000555	Lokva u Prljevicima	-99.00
G	HR2000556	Stonsko polje	74.22
B	HR2000570	Crni jarki	140.25
B	HR2000571	Durdevacki peski	21.75
B	HR2000572	Klostarski peski	26.50
E	HR2000573	Petrijevci	125.75
G	HR2000574	Dugacko brdo	26.00
G	HR2000580	Papuk	34368.20
G	HR2000581	Staniste tisa - sumski predjel Debeljak	-99.00
G	HR2000582	Sekulinacke planine	12.75
E	HR2000583	Medvednica	22612.50
E	HR2000586	Zumberak Samoborsko gorje	34050.70
E	HR2000588	Japetic	49.00
B	HR2000589	Stupnicki lug	23.00
B	HR2000590	Vucjak	293.75
E	HR2000591	Klek	848.25
E	HR2000592	Ogulinско-plascansko podrucje	41951.30
E	HR2000593	Mreznica - Tounjica	1514.50
E	HR2000594	Povremeno jezero Blata	153.75
E	HR2000595	Korana	2582.50
E	HR2000596	Slunjica	243.75
G	HR2000598	Brezovac	721.25
G	HR2000599	Homoljacko polje	756.00
G	HR2000601	Park prirode Ucka	16034.20
G	HR2000604	Nacionalni park Brijuni	3396.50
G	HR2000605	Nacionalni park Sjeverni Velebit	9453.75
G	HR2000606	Visibaba	77.50
G	HR2000607	Zavizan-Balinovac-Zavizanska kosa	121.25
G	HR2000608	Hajducki i Rozanski kukovi	1297.50
E	HR2000609	Dolina Dretulje	552.50
G	HR2000613	Stari tok Drave I	2639.50
G	HR2000614	Stari tok Drave II	2450.75
E	HR2000616	Donji Kamenjak	367.75
E	HR2000619	Mirna i sire podrucje Butonige	1940.85
B	HR2000623	Sume na Dilj gori	15015.50
G	HR2000624	Turjak - Maliscak - Plis - Lapjak na Papuku	10.25
G	HR2000629	Limski zaljev - kopno	1090.00
E	HR2000630	Gornji Kamenjak i Medulinski arhipelag	228.50
K	HR2000631	Odra	502.67
G	HR2000632	Krbavsko polje	15546.80
G	HR2000633	Crnacko polje	278.50
G	HR2000634	Stajnicko polje	500.75
G	HR2000635	Gacko polje	7701.75
E	HR2000636	Polje Jezero	936.50
E	HR2000637	Motovunska suma	1141.50
B	HR2000638	Mocvara Palud kod Rovinja	35.02
E	HR2000639	Dobra nizvodno od Trosmarije	430.00
K	HR2000641	Zrmanja	733.75
K	HR2000642	Kupa	6349.75
G	HR2000643	Obruc	2735.40
G	HR2000645	Bjelolasica	1361.00
G	HR2000646	Polje Lug	731.00
G	HR2000648	Dreznicko polje	329.35
G	HR2000649	Sungerski lug	118.00
G	HR2000651	Suma Debela lipa - Veliki Rebar	175.00
G	HR2000652	Jasenacko polje	319.44
G	HR2000654	Licke Jesenice	460.25
K	HR2000658	Rjecina	238.10
G	HR2000659	Trstenik	1.00
G	HR2000661	Borova draga (Borovica)	160.25
G	HR2000663	Lepenica i jezero Bajer	1062.00
G	HR2000665	Suma hrasta luznjaka u Dreznickom polju - Hrastov lug	60.50
G	HR2000667	Medvjeda spilja	-99.00
B	HR2000670	Cret Dubravica	-99.00
G	HR2000671	Lokvarka spilja	-99.00
B	HR2000672	Zovje	1.00
G	HR2000675	Otok Koludarc	-99.00
B	HR2000676	Mali Losinj - uvala Baldarka	-99.00
G	HR2000677	Otok Grgur	-99.00
G	HR2000678	Rt Frkanj	-99.00
G	HR2000679	Otok Rab - zaljev Sv. Eufemija	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR2000680	Otok Rab - Kamporska draga	-99.00
G	HR2000682	Otok Rab - Misnjak	-99.00
G	HR2000684	Otok Pag - uvala Rogoza	-99.00
G	HR2000685	Otok Pag - Sv. Duh	-99.00
G	HR2000686	Otok Pag - Dubrava	-99.00
G	HR2000687	Otok Pag - ispod Sv. Vida	-99.00
G	HR2000688	Otok Pag - iznad Sv. Duha	-99.00
G	HR2000689	Otok Pag - uz cestu kod Simuna	-99.00
G	HR2000690	Otok Pag - između grada Paga i Sv. Duha	-99.00
G	HR2000693	Pag - Caska	-99.00
G	HR2000694	Privlaka kod Vira	-99.00
G	HR2000695	Strovaca - cret	-99.00
G	HR2000696	Lika - Svica - Krasno	-99.00
G	HR2000697	Covici	-99.00
G	HR2000698	Plitvice	-99.00
G	HR2000699	Plitvicka jezera - cret	-99.00
G	HR2000700	Plitvicka jezera - uz Maticu	-99.00
B	HR2000701	Zapadna obala Istre - uvala Dajla	-99.00
B	HR2000703	Tarska uvala - Istra	-99.00
G	HR2000706	Grobnicko polje	-99.00
G	HR2000707	Gornje Jelenje prema Platku	-99.00
G	HR2000710	Kupska dolina kod Lozca	-99.00
G	HR2000711	Gorski kotar - između Kuzelja i Gasparca	-99.00
G	HR2000713	Ispod Medvedaka prema moru	-99.00
G	HR2000714	Krk 1	-99.00
G	HR2000715	Krk 2	-99.00
G	HR2000716	Krk 3	-99.00
G	HR2000717	Krk - podno Vrbnika	-99.00
G	HR2000719	Krk - kod Vrbnika	-99.00
G	HR2000720	Cres - Merag	-99.00
G	HR2000721	Cres prema Tramuntani	6664.60
B	HR2000722	Jurici	-99.00
B	HR2000723	Brsec - Plomin	-99.00
B	HR2000724	Barbariga 1	-99.00
B	HR2000726	Uvala Luka - Istra	-99.00
B	HR2000727	Barbariga 2	-99.00
G	HR2000728	Biljsko groblje	-99.00
G	HR2000729	Kopacki rit - livade	-99.00
G	HR2000730	Bistrinci	-99.00
G	HR2000732	Zmajevac	-99.00
G	HR2000733	Dunav kod Batine	-99.00
G	HR2000734	Donji Miholjac	-99.00
G	HR2000735	Dalj	-99.00
G	HR2000736	Peļjesac - uvala Przina	-99.00
B	HR2000737	Bara kod Vrgorca	-99.00
B	HR2000738	Iznad Tučepa	-99.00
B	HR2000739	Okolica Podgore	-99.00
B	HR2000740	Igrane - ispod vrha Andrijas	-99.00
B	HR2000741	Uvala Vrulja kod Pisika	-99.00
B	HR2000742	Nova Sela	-99.00
B	HR2000745	Trsteno	-99.00
E	HR2000746	Izvor Butina	-99.00
B	HR2000747	Ponor Crni Vir	-99.00
G	HR2000753	Markov ponor	-99.00
G	HR2000754	Novacka pecina	-99.00
G	HR2000755	Hajdova hiza	-99.00
G	HR2000758	Prva Briziceva jama	-99.00
G	HR2000759	Vela spilja u Krugu	-99.00
B	HR2000763	Bedekoviceve grabe	-99.00
B	HR2000764	Grabe kod Pleskovca	3.05
B	HR2000765	Logozarec	-99.00
B	HR2000766	Krece 1	-99.00
B	HR2000767	Krece 2	-99.00
E	HR2000768	Krece 3	-99.00
B	HR2000769	Borovje 1	-99.00
B	HR2000770	Borovje 2	-99.00
B	HR2000771	Krc	-99.00
G	HR2000774	Otok Pag - Dubrava 2	-99.00
G	HR2000775	Otok Pag - Sv. Vid 2	-99.00
G	HR2000776	Sunger 1	-99.00
G	HR2000777	Sunger 2	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR2000778	Begovo razdolje 1	-99.00
G	HR2000779	Begovo razdolje 2	-99.00
E	HR2000780	Klinca sela	32.25
G	HR2000782	Ricice u Gorskom kotaru 2	-99.00
B	HR2000783	Mijet 1	-99.00
B	HR2000784	Mijet 2	-99.00
B	HR2000785	Mijet 3	-99.00
B	HR2000786	Mijet 4	-99.00
B	HR2000787	Mijet 5	-99.00
B	HR2000788	Uvala Makirina 1	-99.00
G	HR2000789	Uvala Makirina 2	-99.00
G	HR2000790	Pristeg	-99.00
G	HR2000795	Zuta Lokva	-99.00
G	HR2000796	Donja Dobra	-99.00
B	HR2000797	Bregana Pisarovinska	-99.00
B	HR2000798	Gustelnica - potok Recica	-99.00
B	HR2000799	Gornji Hrusevec - potok Kravarscica	-99.00
B	HR2000800	Donji Hrusevec - potok	-99.00
B	HR2000801	Vukomericke gorice - Zguric brdo	-99.00
E	HR2000803	Trenkovo - rijeka Velicanka	-99.00
B	HR2000804	Nova Sela 2	-99.00
B	HR2000805	Kavran	-99.00
B	HR2000806	Peroj	-99.00
G	HR2000807	Peļjesac - travnjaci	-99.00
G	HR2000808	Otok Korcula - travnjaci	-99.00
G	HR2000809	Otok Hvar - travnjaci	-99.00
B	HR2000813	Srd	-99.00
B	HR2000815	Satnica	-99.00
B	HR2000816	Globetka - livade	-99.00
B	HR2000817	Murscak - Turisce	-99.00
B	HR2000818	Plavisce	-99.00
B	HR2000825	Biokovo - Zivogosce (stijene povrh Makarske)	-99.00
B	HR2000832	Bid - Cerna	-99.00
B	HR2000833	Bid - Siskovci	-99.00
B	HR2000840	Macelj - Kal	-99.00
B	HR2000841	Macelj - Trubeljak	-99.00
G	HR2000843	Novigradska planina 1	-99.00
G	HR2000844	Novigradska planina 2	-99.00
G	HR2000845	Viroviticka Bilogora	-99.00
G	HR2000846	Grubisnopoljska Bilogora 1	-99.00
G	HR2000847	Grubisnopoljska Bilogora 2	-99.00
G	HR2000848	Suhopolje Kruškova	-99.00
G	HR2000853	Planinsko zalede Vinodola	1710.00
G	HR2000854	Pleteno iznad N. Vinodolskog	1184.50
G	HR2000856	Padine Velog vrha iznad Tomisine drage	13.37
G	HR2000857	Nadzak bilo	992.50
G	HR2000858	Stirovaca	238.00
G	HR2000859	Klepina duliba	249.25
G	HR2000860	Ramino korito	856.75
G	HR2000863	Veliki i Mali Kozjak	653.75
G	HR2000865	Roncevic dolac	295.25
G	HR2000866	Satorina	24.75
G	HR2000868	Velinac - Bacic kuk - Brizovac - Soline - Budakovo brdo	1074.00
G	HR2000871	Nacionalni park Paklenica	9506.50
G	HR2000874	Krupa	260.25
G	HR2000876	Crni vrh kod Vrhovina	356.75
G	HR2000878	Laudonov Gaj	46.00
E	HR2000879	Lapacko polje	2224.75
G	HR2000880	Tramuntana	6686.80
G	HR2000881	Podrucje Lubenica	259.25
G	HR2000883	Punta Kriza	1728.45
G	HR2000884	Slatine kod Osora na Cresu	141.75
G	HR2000888	Otok Susak	375.25
G	HR2000891	Jezero Njivice na Krku	85.00
G	HR2000892	Poluotok Sv. Marak - Skudeljini na Krku	34.25
G	HR2000893	Jezero Ponikve na Krku	141.50
G	HR2000897	Plavnik, Mali Plavnik i Kormati	877.41
G	HR2000898	Suma crnike na Grguru	322.75
G	HR2000905	Litice Rapost - Kamenjak na Rabu	-99.00
G	HR2000907	Suma Dundo na Rabu	1400.50
G	HR2000911	Kolansko blato - Blato Rogoza	177.75

TYPE	SITECODE	SITE_NAME	area
G	HR2000914	Ornitoloski rezervat Vransko jezero i Jasen	1050.25
E	HR2000917	Krcic	426.52
G	HR2000918	Nacionalni park Krka	10996.20
G	HR2000919	Cikola - kanjon	441.25
E	HR2000922	Svilaja	15681.50
G	HR2000923	Pasko polje	896.25
G	HR2000924	Suho polje	791.75
G	HR2000926	Hrvatacko polje	1625.00
G	HR2000927	Sinjsko polje	2657.75
G	HR2000929	Rijeka Cetina s kanjonom	1921.75
G	HR2000930	Vucevica	2838.50
K	HR2000931	Jadro	45.54
E	HR2000932	Prolosko blato	1024.25
E	HR2000933	Vrljika	183.25
B	HR2000934	Crveno jezero	12.75
B	HR2000935	Modro jezero	41.75
G	HR2000936	Ruda	107.50
G	HR2000937	Vidova gora	1999.50
G	HR2000939	Klupca	617.00
G	HR2000941	Svetac	420.25
G	HR2000942	Otok Vis	9079.16
G	HR2000943	Palagruza	31.50
B	HR2000944	Blatina kod Blata	21.00
G	HR2000945	Bacinska jezera	141.50
E	HR2000946	Snjeznica i Konavosko polje	10991.80
B	HR2000947	Gornji Majkovi - lokve	13.00
E	HR2000949	Ljuta	66.00
E	HR2000950	Slano - oleandri	113.75
B	HR2000951	Krotusa	138.38
G	HR2000952	Jugozapadni obronci Medvedaka i okolica jezera Kozjak	1088.30
G	HR2000953	Pliitvicka jezera - jezera	256.00
G	HR2000963	Suma u uvali Glavotok na Krku	-99.00
G	HR2000965	Suma crnike u uvali Valbiska na Krku	-99.00
G	HR2000974	Jasenak	417.73
E	HR2000977	Sunder	-99.00
G	HR2000981	Izvor Jablan	-99.00
G	HR2000986	Suma Liski zapadno od Cunskog	-99.00
G	HR2000987	Vele stine - Unije	-99.00
G	HR2000988	Male stine - Unije	-99.00
G	HR2000996	Kocje kod Zrnova na Korculi	-99.00
B	HR2001001	Cret Blatusa	41.75
G	HR2001002	Cepelovacke livade	244.34
G	HR2001003	Prikinuto brdo - nalaziste velebitske degenije	-99.00
K	HR2001004	Stari Gradac - Lendava	124.75
B	HR2001005	Starogradacki Marof	184.75
K	HR2001006	Zupanijski kanal (Gornje Barje - Zidina)	276.75
E	HR2001007	Orasac - kanjon	65.50
B	HR2001008	Blatina kraj Prozure	2.00
B	HR2001009	Blatina kraj Sobre (Mljet)	16.75
E	HR2001010	Paleoombra - Ombla	10466.83
B	HR2001011	Istarske toplice	35.50
G	HR2001012	Licko polje	56741.50
G	HR2001013	Gracacko polje	3489.25
B	HR2001015	Pregon	376.25
E	HR2001016	Kotli	335.50
B	HR2001017	Lipa	162.75
G	HR2001019	Prokljansko jezero	1317.50
E	HR2001021	Lun	2860.12
G	HR2001024	Otok Rab - Kamenjak	532.00
G	HR2001025	Matic poljana	122.50
G	HR2001028	Jasevice	52.25
E	HR2001030	Lekenik - Pescenica	330.00
E	HR2001031	Odra kod Jagodna	6.50
E	HR2001032	Sava - kod Zapresica	171.00
E	HR2001033	Savrscak - sljuncare	56.50
B	HR2001034	Mackovec - ribnjak	4.00
G	HR2001035	Otocic Zabodarski	5.00
G	HR2001036	Otocic V. Osir	7.25
E	HR2001038	Otok Pag I	119.25
G	HR2001039	Pag - od Velog blata do Povijane	149.50
G	HR2001040	Gacka	108.50

TYPE	SITECODE	SITE_NAME	area
G	HR2001041	Gomance	218.75
G	HR2001042	Lic polje	176.25
G	HR2001044	Batina - Dunavac	11.25
B	HR2001045	Trpinja	106.50
E	HR2001046	Matica-Vrgoracko polje	147.50
E	HR2001047	Bobara	8.00
G	HR2001048	Plitvicka jezera-Vreljske bare	125.75
G	HR2001049	Krbavica	426.25
E	HR2001050	Murter	1773.00
G	HR2001053	Corkova uvala	73.50
G	HR2001054	Otok Velika sestrica	6.75
E	HR2001055	Otocic Kosor kod Korcule	5.50
E	HR2001056	Otocic Veli Prznjak kod Korcule	21.00
E	HR2001057	Otocic Trstenik kod Korcule	28.75
E	HR2001058	Licka Pljesivica	38187.80
E	HR2001059	Pljesivica-Javornik-Tisov vrh	-99.00
E	HR2001060	Gola Pljesivica	-99.00
E	HR2001061	Velika Pljesivica - Drenovaca	113.00
E	HR2001066	Borovac	-99.00
E	HR2001067	Butiznica	405.50
E	HR2001068	Radiljevac	6.50
B	HR2001069	Kanjon Une	822.75
E	HR2001070	Sutla	552.91
G	HR2001072	Hrid Kamik	1.25
G	HR2001085	Ribnjak Grudnjak	1087.14
G	HR2001086	Breznicki ribnjak (Ribnjak Nasice)	1438.13
B	HR2001088	Mala Dubrava - Vucedol	-99.00
B	HR2001089	Debeljak - Haljevo	-99.00
G	HR2001090	Noskovacki vrbak - suma vrba i topola	-99.00
G	HR2001091	Predrijevacki vrbak	-99.00
G	HR2001092	Noskovacki vrbak - suma bijele vrbe	-99.00
G	HR2001093	Tanja 1	-99.00
G	HR2001094	Tanja 2	-99.00
G	HR2001095	Dunavac - Sarkanj	-99.00
G	HR2001096	Sarkanj	-99.00
G	HR2001097	Bisevo kopno	594.75
G	HR2001098	Otok Pag II	1523.50
G	HR2001100	Solta - Bocec	-99.00
G	HR2001101	Devcica tavani	-99.00
B	HR2001102	Bacina greda - Sarengrad	-99.00
B	HR2001103	Briza - Bapska	-99.00
E	HR2001104	Hagel - Sarengradska ada	1177.25
E	HR2001105	Skendra i Orlovnjak	534.75
E	HR2001108	Markovcak	-99.00
G	HR2001110	Vlaka	-99.00
B	HR2001112	Lesne padine uz Dunav kod Iloka	286.79
B	HR2001113	Kukuruzoviceva spilja	-99.00
B	HR2001115	Strahinjica	1276.00
K	HR2001116	Sava	10114.00
G	HR2001117	Livade na juznim padinama Papuka	1196.75
G	HR2001118	Park suma Jankovac	639.25
G	HR2001126	Rokina bezdana	-99.00
G	HR2001127	Markarova spilja	-99.00
G	HR2001128	Antic spilja	-99.00
B	HR2001133	Ponor Bregi	-99.00
B	HR2001135	Sipun spilja	-99.00
G	HR2001139	Okicnica - Sikare	27.75
K	HR2001140	Vidalin	1.25
B	HR2001143	Jama kod Komune	-99.00
B	HR2001144	Klariceva jama	-99.00
B	HR2001145	Izvor Veliki vrh	-99.00
G	HR2001146	Radota spilja	-99.00
G	HR2001147	Izvori iznad luke u Punta Kriza	-99.00
G	HR2001148	Dazdaland jama	-99.00
G	HR2001149	Velika jama	-99.00
G	HR2001150	Izvor Gerovice	-99.00
G	HR2001151	Skuljica	-99.00
G	HR2001152	Jamice Plogar	-99.00
G	HR2001153	Stupina jama	-99.00
G	HR2001154	Orlovac spilja	-99.00
G	HR2001156	Spilja pod Mackovom dragom	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR2001158	Izvor Kamacnik	-99.00
B	HR2001162	Pivnica jama	-99.00
G	HR2001163	Jama kod Sipkovca	-99.00
G	HR2001164	Majerovo vrelo	-99.00
B	HR2001172	Jama pod Debelom glavom	-99.00
G	HR2001173	Biba izvor	-99.00
E	HR2001174	Izvor Slunjciće	-99.00
B	HR2001175	Jopiceva spilja-Bent sustav	-99.00
B	HR2001176	Izvor Karisnice	-99.00
B	HR2001177	Ponor pod Kremenom	-99.00
B	HR2001178	Vugrinova spilja	-99.00
B	HR2001180	Panjkov ponor-Varicakova spilja sustav	-99.00
G	HR2001181	Izvor Bakovac	-99.00
B	HR2001184	Vratolom spilja	-99.00
G	HR2001188	Pecina	-99.00
B	HR2001190	Zidovske jame	-99.00
B	HR2001191	Cerjanska spilja	-99.00
B	HR2001192	Zdenec pri Ciglaru	-99.00
B	HR2001193	Spilja kod Susnjara	-99.00
E	HR2001194	Izvor Krke	-99.00
G	HR2001195	Spilja pod Spicom	-99.00
G	HR2001196	Rudelica spilja	-99.00
G	HR2001198	Izvor Veliki Rumin	-99.00
G	HR2001199	Jama na Ducacu	-99.00
G	HR2001200	Jama kod Matesic stana	-99.00
G	HR2001201	Izvor Grab	-99.00
G	HR2001202	Tunel Orlovac I	-99.00
G	HR2001203	Izvor spilja kod Jurjevica	-99.00
B	HR2001204	Jama Kornjatusa	-99.00
G	HR2001205	Jankicin guz spilja	-99.00
B	HR2001207	Pliškovićeve jama	-99.00
G	HR2001208	Modrica bunar spilja	-99.00
G	HR2001209	Jama na Korani	-99.00
G	HR2001210	Pavsica peca	-99.00
E	HR2001212	Bansko brdo	1740.20
E	HR2001213	Draskova spilja, otok Hvar	-99.00
E	HR2001214	Duboska Pazuha (kod Duboke), spilja - otok Hvar	-99.00
E	HR2001215	Boljunsko polje	2243.19
K	HR2001216	Ilova	805.06
G	HR2001217	Korenicko polje	0.70
G	HR2001218	Benkovac	1.85
B	HR2001219	Mazin	2.03
G	HR2001220	Injaticko-barnjanske livade	31.99
G	HR2001221	Rasenicke livade	116.09
G	HR2001222	Ivanovoselske livade	26.52
G	HR2001223	Rastovacke livade	23.07
G	HR2001224	Malodapcevacke livade	16.71
E	HR2001225	Mali Mihaljevec	48.89
G	HR2001226	Potok Kriz	85.06
G	HR2001227	Potok Gerovcica	84.00
E	HR2001228	Potok Dolje	5.25
E	HR2001229	Bocni kanal uz Vrljiku	8.48
K	HR2001230	Potok Stiper	23.51
K	HR2001231	Potok Velicanka	75.84
G	HR2001232	Potok Cabranka	66.84
E	HR2001233	Izvor Gradole	200.27
B	HR2001234	Borutski potok	10.00
B	HR2001235	Racice - Racicki potok	12.34
B	HR2001236	Kanjon Badnjevice	14.49
G	HR2001237	Vrlicko polje	815.78
B	HR2001238	Busotina za vodu, Rakonik	-99.00
B	HR2001239	Rudnik ugljena, Rasa	-99.00
G	HR2001240	Spilja kod zaseoka Zapolje	-99.00
G	HR2001241	Jama Golubinka II	-99.00
B	HR2001242	Izvor Vir	-99.00
K	HR2001243	Rijeka Cesma	139.60
G	HR2001244	Bunar kod Franjevacckog samostana u Hvaru	-99.00
G	HR2001245	Bunar na Hvaru	-99.00
B	HR2001246	Izvor u Medveji	-99.00
B	HR2001247	Ribnik izvor	-99.00
B	HR2001248	Izvor Duboka Ljuta	-99.00

TYPE	SITECODE	SITE_NAME	area
B	HR2001249	Izvor kod mlina u Zatonu malom	-99.00
G	HR2001250	Kosinac izvor	-99.00
B	HR2001251	Zuzino vrelo	-99.00
E	HR2001252	Vukovarski aerodrom	110.66
B	HR2001253	Postak	1412.88
G	HR2001254	Dolac Sekulica	25.67
G	HR2001255	Bulji	73.11
G	HR2001256	Medugorje - Struznica	418.08
G	HR2001257	Potok Mala Belica	21.94
G	HR2001258	Uvala Dinjska II	132.18
G	HR2001259	Uvala Vlasici - kopno	23.95
G	HR3000001	Limski kanal - more	670.00
E	HR3000002	Plomin - Moscenicka draga	166.75
K	HR3000003	Vrsarski otoci	896.50
G	HR3000004	Cres - rt Grota - Merag	316.75
K	HR3000005	Cres - rt Pernat - uvala Tiha	650.25
K	HR3000006	Otok Zeca	269.25
G	HR3000007	Cres - rt Suha - rt Meli	7282.25
B	HR3000008	Losinj - Vela i Mala draga	9.00
B	HR3000009	Losinj - uvala Sunfarni	11.25
B	HR3000010	Losinj - uvala Krivicica	10.75
B	HR3000011	Losinj - uvala Balvanida	11.50
B	HR3000012	Losinj - uvala Pijeska	8.00
B	HR3000013	Losinj - uvala Vinikova	3.00
K	HR3000014	Ilovik i Sv. Petar	419.00
G	HR3000015	V. i M. Srakane	266.75
G	HR3000016	Podmorje Plavnika i Kormata	543.00
G	HR3000017	Podmorje otoka Suska	356.00
G	HR3000018	Podmorje otoka Unije	978.25
E	HR3000019	Uvala Soline	53.00
G	HR3000020	Mala i vela luka na poluotoku Bosar, Krk	192.75
K	HR3000021	Podmorje otoka Prvic	681.00
K	HR3000022	Podmorje otoka Grgur i Goli	957.75
G	HR3000024	Supetarska draga na Rabu	427.00
G	HR3000025	Zaljev Kampor na Rabu	223.50
G	HR3000026	Dolfin i otoci	1094.50
G	HR3000027	Podmorje Trstenika	484.75
G	HR3000028	I. strana V. i M. Orjula	490.25
G	HR3000029	Obala između rta Silo i Vodotoc	486.25
E	HR3000030	Klenovica - Zrnovica	66.25
E	HR3000031	Sv. Juraj - otocic Lisac	49.57
E	HR3000032	Uvala Ivanca	18.75
E	HR3000033	Uvala Malin; uvala Duboka	155.00
E	HR3000034	Uvala Zavrtnica	19.50
E	HR3000035	Uvala Krivaca	35.75
E	HR3000036	Uvala Vrulja u Velebitskom kanalu	15.50
E	HR3000037	Uvala Jurisnica	22.75
E	HR3000038	Uvale Svetojanj V. i M.; uvala Lusk	41.50
G	HR3000039	Uvala Caska - od Metajne do rta Hanzina	904.00
G	HR3000040	Pag - od uvale Luka V. do rta Kristofor	362.25
G	HR3000041	Paska vrata	353.75
G	HR3000042	Kosljanski zaljev	221.73
G	HR3000043	Stara Povljana	164.25
G	HR3000044	Uvala Vlasici	58.50
G	HR3000045	Uvala Dinjska	229.50
G	HR3000046	Ljubacka vrata	62.25
K	HR3000047	Novigradsko i Karinsko more	3706.00
K	HR3000050	Vinjerac - Maslenicko zdrilo	358.25
B	HR3000051	Razanac M. i V.	133.75
G	HR3000052	Olib - podmorje	1975.75
G	HR3000053	Silba - podmorje	992.50
G	HR3000054	Premuda - vanjska strana	989.00
E	HR3000056	More oko otoka Grujica	65.25
G	HR3000058	Planik i Planicic	296.75
G	HR3000059	Otoci Skrda i Maun	603.00
G	HR3000060	More oko otoka Skarda	520.50
G	HR3000061	Plicine oko Maslinjaka; Vodenjaka, Kamenjaka	295.00
G	HR3000062	Plicine oko Tramerke	1286.50
G	HR3000063	Prolaz između Zapuntela i Ista	543.25
G	HR3000064	Brguljski zaljev - o. Molat	506.25
G	HR3000065	Bonaster - o. Molat	102.25

TYPE	SITECODE	SITE_NAME	area
K	HR3000066	Jl dio o. Molata	567.75
K	HR3000067	Luka Soliscica; Dugi Otok	940.75
E	HR3000068	Uvala Golubinka - rt Lopata	41.25
E	HR3000069	Uvala Sakarun	439.75
e	HR3000070	Z. obala Dugog otoka	620.75
E	HR3000071	Uvala Brbiscica	38.00
E	HR3000072	Uvala Zagracina	15.00
E	HR3000073	J rt o. Zverinac	118.50
E	HR3000074	Rivanjski kanal sa Sesticama	1105.25
E	HR3000075	Otok Jidula do rt Ovcjak; prolaz V. Zdrelac	281.75
E	HR3000076	Punta Parda	78.25
E	HR3000077	J dio o. Iza i o. Mrtonjak	290.75
E	HR3000078	Otok Tukoscak i o. Mrtonjak	46.50
E	HR3000079	Otok Karantunic	17.00
E	HR3000080	Uvala Sabusa	64.25
e	HR3000081	Roncic	7.75
e	HR3000082	V. i M. Skala	58.00
E	HR3000084	Uvala Sv. Ante	21.50
E	HR3000085	Otok Vrgada SI strana s o. Kozina	259.25
E	HR3000086	Uvala Makirina	93.75
B	HR3000088	Uvala Grebastica	363.25
B	HR3000089	Uvale oko rta Ploca	189.25
B	HR3000090	Uvala Stivancica	56.75
B	HR3000091	Uvala Tijasnica	53.25
B	HR3000092	Blitvenica	16.00
E	HR3000093	JZ strana Solte - I	438.75
E	HR3000094	JZ strana Solte - II	441.25
E	HR3000095	Pakleni otoci	2699.75
G	HR3000096	Jl strana o. Visa	1102.25
G	HR3000097	Otok Vis - podmorje	2960.25
G	HR3000098	Bisevo more	782.25
G	HR3000099	Brusnik i Svetac	1477.25
G	HR3000100	Otok Jabuka - podmorje	113.00
B	HR3000101	Arkandel	17.50
B	HR3000102	Kosmac M. i V.	7.25
B	HR3000103	Merara	4.00
B	HR3000104	Muljica V. more	3.25
B	HR3000105	Hrid Muljica more	1.50
B	HR3000106	Murvica	2.25
B	HR3000107	Otoci Orud i Macaknar	77.25
B	HR3000108	Fumija I - podmorje	155.50
B	HR3000109	Krknjasi	35.25
B	HR3000110	Fumija II - podmorje	117.00
B	HR3000111	Recetinovac	28.75
E	HR3000112	Mrduja	30.25
B	HR3000113	Podmorje otocica Mrduja	4.75
B	HR3000114	Otoci Lukavci	65.00
E	HR3000115	Pelegrin - podmorje	171.50
E	HR3000116	Kabel - podmorje	270.00
B	HR3000117	Otok Zecevo - podmorje	14.25
E	HR3000118	Glavica - podmorje	19.25
B	HR3000119	Otok Scedro-podmorje	222.75
E	HR3000120	Zlatni rat na Bracu - podmorje	25.25
G	HR3000121	Palagruza - podmorje I	405.00
G	HR3000122	Palagruza - podmorje II	90.00
B	HR3000123	Uvala Vrulja kod Makarske	29.50
B	HR3000124	Sveti Petar	5.58
B	HR3000125	Osejava	14.85
E	HR3000126	Usce Cetine	676.00
E	HR3000127	Brac - podmorje	723.25
B	HR3000128	U. Ramova; u. Krvavica	23.41
B	HR3000129	Uvala Klokun	34.01
B	HR3000130	Uvala V. Duba	5.96
B	HR3000131	Uvale Vira donja i Vira gornja	12.27
B	HR3000132	Uvala Dubravica	6.24
E	HR3000133	Crni rat - o. Brac	285.00
E	HR3000134	Uvala Lovrecina	8.25
E	HR3000135	Otok Hvar - od Uvale Dubovica do rta Nedjelja	105.50
E	HR3000136	Uvala Vlaska - Hvar	15.25
E	HR3000137	Uvala Bristova - Hvar	9.75
E	HR3000138	Uvala V. Pogorila - Hvar	4.18

TYPE	SITECODE	SITE_NAME	area
E	HR3000139	Uvala M. Pogorila - Hvar	6.19
E	HR3000140	Uvala M. Mosevcica - Hvar	2.88
E	HR3000141	Uvala V. Mosevcica - Hvar	3.99
E	HR3000142	Uvale Divlja mala i Divlja vela - Hvar	9.88
E	HR3000143	Uvale Kruseva, Pokrvenik i Zarace - Hvar	225.32
E	HR3000144	Uvala Smrska - Hvar	7.12
E	HR3000145	Uvala Medvidina - Hvar	11.19
E	HR3000146	Duboka uvala - Hvar	6.38
E	HR3000147	Kozja uvala - Hvar	8.25
E	HR3000148	Uvale Rasovatice i Zidigova - Hvar	27.68
E	HR3000149	Uvale Prapratna i Makarac - Hvar	22.57
E	HR3000150	Peljesac - od uvale Rasoka do rta Osicac	1012.25
E	HR3000151	Uvala V. Bezdija	9.62
E	HR3000152	Otok Proizd i Privala na Korculi	641.75
E	HR3000153	Otok Korcula - od uvale Poplat do Vrhovnjaka	1847.25
E	HR3000154	Pupnatska luka	14.50
E	HR3000155	Uvala Orlandusa	6.00
E	HR3000156	Pavja luka	9.50
E	HR3000157	Uvala Rasohatica	10.50
G	HR3000160	Laguna Parila	138.50
G	HR3000161	Cres-Losinj rezervat dupina	43999.50
E	HR3000162	Uvala Prijezba	174.00
B	HR3000163	Stonski kanal	567.00
B	HR3000164	Sveti Andrija - podmorje	29.00
E	HR3000165	Uvala Slano	130.50
E	HR3000166	Sjeverna obala od rta Pusta u uvali Sobra do rta Stoba kod uvale Okuklje s otocima i akvatorijem	259.25
E	HR3000168	Lokrum - I	17.75
E	HR3000169	Lokrum - II	31.25
E	HR3000170	Akvatorij uz Konavoske stijene	1388.50
G	HR3000171	Usce Krke	836.00
K	HR3000172	Obalna linija od luke Gonoturska do rta Vratnicki	8462.00
G	HR3000173	Medulinski zaljev	2189.50
G	HR3000174	Medulinski zaljev - laguna	68.50
G	HR3000175	Ljubacki zaljev	1094.00
G	HR3000176	Ninski zaljev	2318.50
B	HR3000177	Zmajevo oko	0.75
G	HR3000178	Cres - uvale	193.25
E	HR3000179	Lun - naselja posidonije	1217.00
E	HR3000180	Uvala Stara Novalja	179.00
E	HR3000181	Pag od rta Lun do uvale Pastura	154.25
G	HR3000184	Modra spilja	-99.00
G	HR3000194	Spilja u uvali Mededina	-99.00
G	HR3000196	Jama na Badiji	-99.00
G	HR3000197	Medova buza na Rabu	-99.00
G	HR3000198	Medvjeda pecina kod uvale Lucica (Losinj)	-99.00
G	HR3000200	Ziva voda spilja	-99.00
G	HR3000205	Medvidina pecina	-99.00
G	HR3000207	Spilja na o. Frasker	-99.00
E	HR3000208	Spilja kod iskog Mrtovnjaka	-99.00
G	HR3000215	Spilja na otoku Velikom Skoju	-99.00
B	HR3000216	Morska spilja Tovarjez	-99.00
G	HR3000217	Morska spilja III u Limskom kanalu	-99.00
G	HR3000218	Morska spilja I u Limskom kanalu	-99.00
G	HR3000219	Morska spilja II u Limskom kanalu	-99.00
G	HR3000220	Banjole I	-99.00
G	HR3000221	Banjole II	-99.00
G	HR3000222	Sv. Ivan na pucini - morska spilja	-99.00
B	HR3000223	Jama na Punta Korente	-99.00
G	HR3000224	Spilja u uvali Trstika	-99.00
B	HR3000225	Spilja u uvali Prisada	-99.00
B	HR3000226	Spilja na rtu Sveti Ivan	-99.00
E	HR3000227	Spilja kod Gomile	-99.00
B	HR3000228	Spilja u uvali Zagrob	-99.00
B	HR3000229	Grdanina spilja u Krnickoj Luci	-99.00
B	HR3000230	Morska spilja u uvali Voscice	-99.00
B	HR3000231	Crna punta I	-99.00
B	HR3000232	Crna punta II	-99.00
G	HR3000233	Pecina na otoku Zeca	-99.00
B	HR3000234	Spilja Svete Katarine	-99.00
B	HR3000235	Spilja kod Brseca	-99.00
E	HR3000236	Gacice	-99.00

TYPE	SITECODE	SITE_NAME	area
B	HR3000237	Cesara	-99.00
B	HR3000238	Vrulja Ika	-99.00
B	HR3000239	Vrulje u Icimima	-99.00
B	HR3000241	Kaverna u tunelu Pecine	-99.00
B	HR3000242	Jama iznad Martinscice	-99.00
G	HR3000243	Urinjska špilja	-99.00
G	HR3000244	Spilja na rtu Golubnjak 1	-99.00
G	HR3000245	Spilja na rtu Golubnjak 2	-99.00
G	HR3000246	Morska spilja na rtu Sveti Marak	-99.00
G	HR3000247	Spilja podno Kostrija	-99.00
G	HR3000248	Spilja u uvali Orgul	-99.00
G	HR3000249	Spilja kod rta Preskocica 1	-99.00
G	HR3000250	Spilja kod rta Preskocica 2	-99.00
G	HR3000251	Spilja kod rta Preskocica 3	-99.00
G	HR3000252	Spilja u Grotama 1	-99.00
G	HR3000253	Spilja u Grotama 2	-99.00
G	HR3000254	Spilja na rtu Rebica	-99.00
G	HR3000255	Spilja Jadranovo	-99.00
G	HR3000256	Jama na Puntii Ert	-99.00
B	HR3000257	Jama Vrtare Mala	-99.00
B	HR3000258	Zrnovnica	-99.00
G	HR3000259	Pliskavica	-99.00
G	HR3000260	Pijavica	-99.00
G	HR3000261	Pecina na rtu Frkanj	-99.00
G	HR3000262	Spilja na Punta Krizi	-99.00
G	HR3000263	Plave grote (Modra spilja)	-99.00
G	HR3000264	Spilja i prolaz (o. Srakane)	-99.00
G	HR3000266	Spilja na uvali Pecice	-99.00
G	HR3000267	Morska spilja na otoku Sestakovci	-99.00
G	HR3000268	Sepurina - bunar jama	-99.00
G	HR3000269	Spilja u uvali Tihovac	-99.00
G	HR3000270	Katedrala (morska spilja na o. Premuda)	-99.00
G	HR3000271	Jama Toranj I	-99.00
G	HR3000272	Jama Toranj II	-99.00
G	HR3000273	Jama na plicini kod Ista	-99.00
G	HR3000274	Spilja u Kozjoj dragi	-99.00
G	HR3000275	Jama (o. Galiola)	-99.00
G	HR3000276	Morska spilja u Velikoj dragi	-99.00
B	HR3000277	Morska spilja kod Knezevica	-99.00
B	HR3000278	Vrulja Modric	-99.00
B	HR3000279	Vrulja Plantaza	-99.00
V	HR3000280	Vrulja Zecica	-99.00
G	HR3000281	Jama u uvali Jamine	-99.00
G	HR3000282	Spilja u Ljubackom zaljevu	-99.00
G	HR3000283	Sibuljina 1	-99.00
G	HR3000284	Sibuljina 2	-99.00
G	HR3000285	Spilja u Tridrage	-99.00
G	HR3000286	Jama Vinjerac istok	-99.00
B	HR3000287	Spilja u Sepurinama	-99.00
G	HR3000288	Golubinka (kod Novigrada)	-99.00
B	HR3000289	Golubinka I (Dugi otok)	-99.00
B	HR3000290	Golubinka II (Dugi otok)	-99.00
B	HR3000291	Jezerce - spilja	-99.00
B	HR3000292	Prolaz Zala draga	-99.00
B	HR3000293	Prolaz Oko	-99.00
B	HR3000294	Mala plitka spilja	-99.00
B	HR3000295	Mala spilja pod okom	-99.00
E	HR3000296	Jama na Lavdari	-99.00
E	HR3000297	Morska spilja na Vrgadi	-99.00
E	HR3000305	Jama na Kurbi	-99.00
E	HR3000306	Spilja na Gustacu	-99.00
B	HR3000316	Vodena jama (o. Kukuljar)	-99.00
E	HR3000317	Jama Nozdarica	-99.00
E	HR3000318	Ivinjska jama	-99.00
B	HR3000319	Jama Gradina	-99.00
B	HR3000320	Jama pod Orljakom	-99.00
B	HR3000321	Mandalina spilja	-99.00
B	HR3000326	Morska spilja u Velikoj Kludi	-99.00
B	HR3000327	Morska spilja na Feralu	-99.00
G	HR3000328	Morska jama u uvali Travna	-99.00
B	HR3000329	Spilja u uvali Voluje	-99.00

TYPE	SITECODE	SITE_NAME	area
B	HR3000330	Bac I	-99.00
B	HR3000331	Bac II	-99.00
G	HR3000332	Spilja Poganica	-99.00
E	HR3000333	Jama kod Balkuna	-99.00
B	HR3000334	Jama kod Balkuna II	-99.00
G	HR3000335	Spilja Senjska	-99.00
G	HR3000336	Jama Stracinska	-99.00
G	HR3000337	Jama u uvali Tatinja	-99.00
G	HR3000338	Spilja u uvali Maslinova	-99.00
G	HR3000339	Potkop	-99.00
G	HR3000340	Batista jama (Bijaka)	-99.00
G	HR3000341	Jama u Osibovoj uvali	-99.00
G	HR3000342	Jama kod Povlja	-99.00
G	HR3000343	Jama u Podstraziscu	-99.00
G	HR3000344	Jama u uvali Lucice	-99.00
G	HR3000345	Jama kod Svetog Roka	-99.00
G	HR3000346	Zvirje spilja	-99.00
B	HR3000348	Spilja (Brela)	-99.00
B	HR3000349	Spilja Matijasevica	-99.00
B	HR3000350	Spilja u Viskovica Vali	-99.00
B	HR3000351	Uvala Drasnica	-99.00
G	HR3000352	Jama s vodom (kod Maslinice)	-99.00
G	HR3000353	Spilja u uvali Vela Grcka	-99.00
G	HR3000354	Kabal (morska špilja)	-99.00
G	HR3000355	Spilja kod Svete Nedilje	-99.00
B	HR3000356	Morska spilja kod Mostera	-99.00
G	HR3000357	Spilja u uvali Stiniva	-99.00
G	HR3000358	Spilja Petarcica	-99.00
G	HR3000359	Jama Golubinka	-99.00
E	HR3000360	Vodeni rat	-99.00
E	HR3000361	Spilja kod otocica Gojca	-99.00
G	HR3000362	Supurina jama	-99.00
G	HR3000363	Jama (o. Budikovac)	-99.00
G	HR3000364	Spilja na Kriznom ratu	-99.00
G	HR3000365	Spilja na Bilom ratu	-99.00
G	HR3000366	Morska spilja u uvali Duboka	-99.00
G	HR3000367	Ravnik - spilja 2	-99.00
G	HR3000368	Prolaz na rtu Nova posta - duboki	-99.00
G	HR3000369	Prolaz na rtu Nova posta - plitki	-99.00
G	HR3000370	Mala spilja	-99.00
B	HR3000371	Morska spilja na Svetom Andriji	-99.00
G	HR3000372	Zaklopatica	-99.00
G	HR3000373	Kljuc	-99.00
E	HR3000374	Zvirnovik	-99.00
E	HR3000375	Veliki Prznjak	-99.00
G	HR3000376	Jama Stracinsica	-99.00
G	HR3000377	Jama kod Dubokog doca	-99.00
G	HR3000378	Spilja ispod Velikog Gradca	-99.00
B	HR3000381	Jama Zaglavica	-99.00
E	HR3000387	Mrtvo more (spilja)	-99.00
E	HR3000388	Sumporna spilja u Mokosici	-99.00
B	HR3000389	Morska spilja kod Molunata 1	-99.00
B	HR3000390	Morska spilja kod Molunata 2	-99.00
B	HR3000391	Y-špilja	-99.00
G	HR3000392	Ponara ol medvida, Vis	-99.00
G	HR3000393	Fumor	-99.00
G	HR3000394	Medvidine Stupisce	-99.00
G	HR3000395	Zakamica	-99.00
G	HR3000396	Nova medvidina, Bisevo	-99.00
G	HR3000397	Spilja Corno ploca I	-99.00
G	HR3000398	Spilja Corno ploca II	-99.00
G	HR3000399	Puhera	-99.00
G	HR3000400	Slatina	-99.00
G	HR3000401	Tovorski bod	-99.00
G	HR3000402	Pod Fumor I	-99.00
G	HR3000403	Pod Fumor II	-99.00
G	HR3000404	Pod Fumor III	-99.00
G	HR3000405	Nova medvidina, Palagruza	-99.00
G	HR3000406	Storo vlaka	-99.00
G	HR3000408	Storo medvidina spilja na otoku M. Palagruza	-99.00
G	HR3000410	Ponara ol midvida, M.Palagruza	-99.00

TYPE	SITECODE	SITE_NAME	area
G	HR3000411	Puntin ol medvida	-99.00
B	HR3000413	Bocata jama ispod Maranovica na Mijetu	-99.00
B	HR3000414	Zmajevu uho	-99.00
G	HR3000415	Uvale Jaz; Soline i Sutinj na Krku	377.00
G	HR3000417	Zaljev Sv. Eufemije na Rabu	104.00
G	HR3000418	Jezero Mir	-99.00
E	HR3000419	J. Molat-Dugi-Kornat-Murter-Pasman-Ugljan-Rivanj-Sestrunj-Molat	66629.50
G	HR3000420	Uvala Dinjska - solana	-99.00
G	HR3000421	Solana Nin	0.25
G	HR3000423	Jabucka kotlina	30503.50
G	HR3000424	Jezero Mijet - Malo	24.25
G	HR3000425	Jezero Mijet - Veliko	148.00
E	HR3000426	Lastovski i Mijetski kanal	106419.00
G	HR3000427	Podmorje otocica Veli i Mali Cutin	18.50
B	HR3000430	Pantan	47.50
K	HR3000431	Akvatorij J od uvale Przina i S od uvale Bilin zal uz poluotok Raznjic	121.25
B	HR3000432	Usce Rase	43.75
E	HR3000433	Usce Mirne	283.75
G	HR3000435	Speleosustav Golubinka - Susnjara	-99.00
G	HR3000436	Uvala Vognjjsca - Unije	-99.00
B	HR3000437	Sedlo - podmorje	60.00
B	HR3000438	Kosmerka - Prokladnica - Vrtlac - Babuljak - podmorje	126.00
B	HR3000439	Uvale Tratinska i Balun	46.25
B	HR3000440	Zirje - Kabel	297.50
B	HR3000441	Kaprije	623.75
B	HR3000442	Kakanski kanal	695.00
B	HR3000443	Tetovisnjak - podmorje	514.75
B	HR3000444	Kukuljari	85.50
E	HR3000445	Murterski kanal	687.50
G	HR3000446	Medvjeda spilja II	-99.00
G	HR3000447	Markova jama	-99.00
E	HR3000449	Sumporaca velika	-99.00
B	HR3000450	Rijeka Zrnovnica	13.82
G	HR4000001	Nacionalni park Kornati	21575.50
G	HR4000002	Park prirode Telascica	7000.25
G	HR4000004	Velo i Malo blato	457.25
G	HR4000005	Privlaka - Ninski zaljev - Ljubacki zaljev	2015.50
G	HR4000006	Uvala Plemici	212.25
G	HR4000007	Badija i otoci oko Korcule	1064.00
G	HR4000008	Jabuka	2.50
G	HR4000009	Brusnik	4.50
E	HR4000010	Saplunara	130.00
E	HR4000012	Usce Neretve	948.25
E	HR4000013	Jezero Vlaska	80.00
K	HR4000015	Malostonski zaljev	15060.20
E	HR4000016	Konavoske stijene	377.75
E	HR4000017	Lokrum	70.75
G	HR4000018	Paske stijene Velebitskog Kanala (Rt Sv. Nikola - Rt Fortica - Rt Mrtva)	5294.00
K	HR4000019	Paske stijene Velebitskog Kanala (Rt Deda - Rt Kristofer)	3365.50
G	HR4000020	Paske stijene Velebitskog Kanala (Grad Novalja - Rt Lun)	1049.00
G	HR4000022	Otok Rab - obala izmedu rta Kalifront i rta Sv. Kristofor	-99.00
G	HR4000024	Juzna obala Solte	714.50
G	HR4000025	Silbanski grebeni	243.75
G	HR4000026	Poluotok Lopar na Rabu	1086.25
G	HR4000027	Laguna kod Povljane - Sega	15.09
I	HR5000013	Drava	106985.00
I	HR5000030	Biokovo	19765.99
G	HR5000032	Akvatorij zapadne Istre I	78438.10
C	ME0000000	Maglic, Volujak i Bioc	7252.64
B	ME0000001	Canyon of Mala Rijeka	3600.00
C	ME0000002	Durmitor mountain with Tara River Canyon	33895.00
C	ME0000003	Skadar Lake	37800.00
C	ME0000004	Velika Plaza with Solana Ulcinj	2839.46
C	ME0000005	Buljarica	302.00
B	ME0000006	Field Cemovsko polje	358.00
B	ME0000007	Bjelasica	5733.00
B	ME0000008	Kanjon Cijevne	6937.00
B	ME0000009	Kanjon Mrtvice	2903.00
B	ME000000A	Lovcen	6267.00
C	ME000000B	Tivatska solila	240.00
C	ME000000C	Sasko jezero, rijeka Bojana, Knete, Ada Bojana	7397.00

TYPE	SITECODE	SITE_NAME	area
B	ME00000D	Rumija	12237.00
B	ME00000E	Cave in Djalovica Ravine	191.00
C	ME00000F	Plavsko-Gusinjske Prokletije (+Bogicevica)	15758.00
C	ME00000H	Lim river	17148.00
C	ME00000I	Valley of Cehotina river	13356.00
C	ME00000J	Ljubisnja	4332.00
C	ME00000M	Golija i Ledenice	10276.00
B	ME00000N	Ostatak kanjona Pive ispod Hidroelektrane	1664.00
C	ME00000O	Visitor and Zeletin	13680.00
B	ME00000P	Komarnica	1473.00
B	ME00000Q	Kotorsko risanski bay	2778.00
C	ME00000R	Sinjavina (Babji zub i Gradiste)	5709.00
C	ME00000S	Orjen	15046.00
C	ME00000T	Pecin beach	15.00
C	ME00000U	Hajla	2266.00
A	ME00000V	Spas, Budva	352.00
C	ME00000X	Komovi	6135.00
B	ME00000Y	Katici, Donkova and Velja seka islands	439.00
B	ME00000Z	Platamuni	1698.00
C	MK000001	Galichica	22750.00
C	MK000002	Ezerani	2137.00
C	MK000003	Dojransko Ezero	2696.00
B	MK000004	Pelister	12500.00
C	MK000005	Demir Kapija	4250.00
A	MK000006	Tikvesh	11605.00
C	MK000007	Mavrovo	73088.00
C	MK000008	Shar Planina	46980.00
C	MK000009	Matka	5442.00
C	MK000010	Bogoslovec	4500.00
B	MK000011	Orlovo Brdo	1980.00
B	MK000012	Smolarski Vodopad	810.00
C	MK000013	Monospitovsko Blato	1082.00
C	MK000014	Belchishko Blato	1544.00
C	MK000015	Alshar	3133.00
C	MK000016	Markovi Kuli	3648.00
C	MK000017	Jakupica	76740.00
C	MK000018	Nidze	21320.00
C	MK000019	Kozuf	28250.00
C	MK000020	Jablanica	17980.00
C	MK000021	Belasica	16710.00
B	MK000022	Blato Negorski banji	625.00
C	MK000023	Babuna - Topolka	2941.00
C	MK000024	Ohridsko Ezero	24370.00
C	MK000025	Prespansko Ezero	19000.00
C	MK000026	Osogovski Planini	56630.00
B	MK000027	Churchulum (Bogdanci)	652.00
C	MK000028	Raechka klisura	26040.00
C	MK000029	German - Pchinja	63490.00
C	MK000030	Katlanovo-Taor	8160.00
A	MK000031	Klisura na Bregalnica	7170.00
C	MK000032	Mariovo	58660.00
C	MK000033	Maleshevski Planini	19140.00
A	MK000034	Gorna Pelagonija	67000.00
A	MK000035	Ovche Pole	41360.00
C	RS000001	GORNJE PODUNAVLJE	19.38
C	RS000002	KOPAONIK	31.39
C	RS000003	OBEDSKA BARA	9.86
C	RS000004	PROKLETIJE	155.40
C	RS000005	DELIBLATSKA PESCARA	35.84
C	RS000006	VLASINA	8.61
C	RS000007	FRUSKA GORA	25393.00
C	RS000008	SAR PLANINA	96987.86
C	RS000009	TARA	19175.00
C	RS000010	SLANO KOPOVO	976.45
C	RS000011	STARA PLANINA	142219.64
C	RS000012	DJERDAP	63608.45
C	RS000013	LUDASKO JEZERO	846.33
C	RS000014	ZASAVICA	670.99
C	RS000015	DOLINA PCINJE	2606.00
C	RS000016	SUBOTICKA PESCARA	5369.90
C	RS000017	VRSACKE PLANINE	4408.00

TYPE	SITECODE	SITE_NAME	area
C	RS0000018	SARGAN-MOKRA GORA	3678.23
C	RS0000019	SUVA PLANINA	21354.00
C	RS0000020	JELASNICKA KLISURA	115.73
C	RS0000021	KOVILJSKO-PETROVARADINSKI RIT	4840.61
C	RS0000022	PASNJACI VELIKE DROPLJE	979.44
C	RS0000023	SELEVENJSKE PUSTARE	677.04
C	RS0000024	STARI BEGEJ-CARSKA BARA	1676.00
C	RS0000025	KLISURA REKE UVAC	7543.00
C	RS0000026	KLISURA REKE MILESEVKE	1280.89
C	RS0000027	RTANJ	15.00
C	RS0000028	GRMIJA	1167.94
C	RS0000029	PALIC	712.90
C	RS0000030	GOLIJA	75183.00
C	RS0000031	SICEVACKA KLISURA	7746.00
C	RS0000032	MIRUSA	330.48
C	RS0000033	OVCARSKO-KABLARSKA KLISURA	2250.00
C	RS0000034	ZLATIBOR	32174.86
C	RS0000035	JERMA	7048.78
C	RS0000036	SUVOBOR	52037.00
C	RS0000037	PESTER	3865.40
C	RS0000038	KARADJORDJEVO	2955.33
C	RS0000039	KLISURA REKE TRESNJICE	595.38
B	RS0000040	VENERINA PADINA	0.27
C	RS0000041	FELJESANA	15.28
C	RS0000042	MUSTAFA	79.64
C	RS0000043	LAZAREV KANJON	1755.00
C	RS0000044	PROKOP	5.00
C	RS0000045	SALINACKI LUG	19.22
C	RS0000046	TESNE JARUGE	2.92
C	RS0000047	VINATOVACA	37.43
C	RS0000048	ZELENICJE	41.70
C	RS0000049	ZELENIKA	0.12
C	RS0000050	KLISURA OSANICKE REKE	30.44
C	RS0000051	MALA JASENOVA GLAVA	6.30
C	RS0000052	OZRENSKE LIVADE	838.14
C	RS0000053	TIKVARA	508.14
C	RS0000054	KLISURA REKE GRADAC	1268.07
C	RS0000055	KUCAJSKE PLANINE	103108.90
C	RS0000056	PANCEVACKE ADE	1141.13
C	RS0000057	ZAOVINE	5593.61
C	RS0000058	AVALA	489.13
C	RS0000059	KOSMAJ	3514.50
C	RS0000060	RADAN	46664.00
C	RS0000061	BUSOVATA	15.86

Annex II: Number of sites per Habitat of Resolution nr. 4 (for Croatia the habitat list corresponds to Annex I of the Habitats Directive)

Habitat code	Title	Sites
11.22	Sublittoral soft seabeds	3
11.24	Sublittoral rocky seabeds and kelp forests	4
11.25	Sublittoral organogenic concretions	3
11.26	Sublittoral cave communities	1
11.27	Soft sediment littoral communities	1
11.3	Sea-grass meadows	6
11.4	Brackish sea vascular vegetation	1
11.42	Marine spike-rush beds	1
1110	Sandbanks which are slightly covered by sea water all the time	34
1120	Posidonia beds (<i>Posidonion oceanicae</i>)	87
1130	Estuaries	7
1140	Mudflats and sandflats not covered by seawater at low tide	36
1150	Coastal lagoons	18
1160	Large shallow inlets and bays	37
1170	Reefs	88
12.7	Sea-caves	3
1210	Annual vegetation of drift lines	2
1240	Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.	15
13.2	Estuaries	2
1310	<i>Salicornia</i> and other annuals colonizing mud and sand	8
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	13
1420	Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)	18
15	Saltmarshes, salt steppes, salt scrubs	1
15.11	Glasswort swards	1
15.115	Continental glasswort swards	4
15.14	Central Eurasian crypsoid communities	2
15.4	Nemoral inland salt meadows	1
15.5	Mediterranean and thermo-Atlantic salt meadows	10
15.51	Mediterranean tall rush saltmarshes	2
15.55	Mediterranean coastal-saltmarsh grass swards	1
15.6	Mediterraneo-nemoral saltmarsh scrubs	4
15.611	Creeping glasswort mats	1
15.8	Mediterranean salt steppes	4
15.A	Continental salt steppes and saltmarshes	11
1530	Pannonic salt steppes and salt marshes	1
16.2	Dunes	9
21	Coastal lagoons	5
21.1	Sea-connected lagoons	1
2110	Embryonic shifting dunes	3
22	Standing freshwater	2
22.11	Lime-deficient oligotrophic waterbodies	2
22.31	Euro-Siberian perennial amphibious communities	6
22.321	Dwarf spike-rush communities	8
22.3232	Small galingale swards	7
22.3233	Wet ground dwarf herb communities	2
22.341	Short Mediterranean amphibious swards	2
22.3414	Mediterranean small galingale swards	1
22.3415	Mediterranean [<i>Fimbristylis</i>] swards	1
22.3419	Mediterranean dwarf [<i>Scirpus</i>] swards	1
22.341A	Mediterranean [<i>Eleocharis</i>] swards	1
22.351	Ponto-Pannonic riverbank dwarf sedge communities	5
22.412	Frogbit rafts	12
22.413	Water-soldier rafts	3
22.414	Bladderwort colonies	13

Habitat code	Title	Sites
22.415	[Salvinia] covers	11
22.416	[Aldrovanda] communities	3
22.4321	Water crowfoot communities	15
22.4323	Water violet beds	3
22.44	Chandalier algae submerged carpets	12
22.441	[Chara] carpets	1
22.442	[Nitella] carpets	1
23.1	Athalassic saline lakes	2
2340	Pannonic inland dunes	2
24	Running water	1
24.2	River gravels	11
31.1	European wet heaths	2
31.2	European dry heaths	3
31.4	Alpine and boreal heaths	2
31.46	[Bruckenthalia] heaths	11
31.8B1	Central European subcontinental thickets	5
31.8B21	Illyrio-Adriatic oriental hornbeam thickets	2
3130	Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of	19
3140	Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.	8
3150	Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation	20
3170	Mediterranean temporary ponds	1
3180	Turloughs	2
32.22	Tree-spurge formations	2
3230	Alpine rivers and their ligneous vegetation with Myricaria germanica	1
3260	Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion	13
3270	Rivers with muddy banks with Chenopodium rubri p.p. and Bidention p.p. vegetation	1
34	Steppes and dry calcareous grasslands	1
34.112	Houseleek communities	5
34.3	Dense perennial grasslands and middle European steppes	38
34.4	Thermophile forest fringes	1
34.5	Mediterranean xeric grasslands	7
34.53	East Mediterranean xeric grasslands	1
34.751	Lowland savory-chrysopogon dry grasslands	1
34.753	Viper's grass dry grasslands	1
34.9	Continental steppes	9
34.A	Sand steppes	3
35.11	Mat-grass swards	15
35.115	Illyrian mat-grass swards	1
35.7	Mediterraneo-montane mat-grass swards	8
37.13	Continental tall herb communities	7
37.2	Eutrophic humid grasslands	38
37.25	Transitional tall herb humid meadows	1
37.3	Oligotrophic humid grasslands	14
37.711	[Angelica archangelica] fluvial communities	8
37.713	Marsh mallow screens	3
37.714	Butterbur riverine communities	1
38.25	Continental meadows	28
4030	European dry heaths	7
4060	Alpine and Boreal heaths	3
4070	Bushes with Pinus mugo and Rhododendron hirsutum (Mugo-Rhododendretum hirsuti)	7
41.1	Beech forests	82
41.17	Southern medio-European beech forests	1
41.194	South-Dinaric beech forests	1
41.1C323	Illyrian [Acer obtusatum] beech forests	2
41.1C4	Illyrian subalpine beech forests	1
41.2	Oak-hornbeam forests	31

Habitat code	Title	Sites
41.2C	Southeastern European oak-hornbeam forests	1
41.4	Mixed ravine and slope forests	22
41.46	Southeastern European ravine forests	1
41.462	Moesian ravine and slope forests	1
41.463	Illyrian ravine forests	1
41.5	Acidophilous oak forests	12
41.7	Thermophilous and supra-Mediterranean oak woods	81
41.8	Mixed thermophilous forests	48
42.15	Southern Apennine fir forests	1
42.16	Moesian silver fir forests	4
42.17	Balkano-Pontic fir forests	10
42.21	Alpine and Carpathian subalpine spruce forests	2
42.243	Montenegrine spruce forests	10
42.244	Pelagonide spruce forests	2
42.245	Balkan Range spruce forests	7
42.27	Omorika spruce forests	4
42.41	Rusty alpenrose mountain pine forests	1
42.5C	Southeastern European Scots pine forests	3
42.5C42	Pelagonian Scots pine forests	1
42.61	Alpino-Apennine [<i>Pinus nigra</i>] forests	1
42.62	Western Balkanic black pine forests	26
42.621	Dinaro-Pelagonian [<i>Pinus nigra</i>] forests	1
42.66	Banat and Pallas' pine forests	3
42.7	High oro-Mediterranean pine forests	19
42.715	South Dinaric white-barked pine forests	1
42.83	Stone pine forests	2
42.849	Illyrian Aleppo pine forests	2
42.A	Western Palaeartic cypress, juniper and yew forests	4
44	Temperate riverine and swamp forests and brush	1
44.1	Riparian willow formations	57
44.11	Orogenous riverine brush	2
44.123	Balkan riverine willow scrub	1
44.1412	Eumediterranean white and crack willow galleries	1
44.2	Boreo-alpine riparian galleries	5
44.215	Montenegrine grey alder galleries	2
44.3	Middle European stream ash-alder woods	23
44.41	Great medio-European fluvial forests	3
44.43	Southeast European ash-oak-alder forests	17
44.4325	Montenegrine ash-oak-alder forests	2
44.5	Southern alder and birch galleries	6
44.513	Western Mediterranean alder and ash-alder galleries	1
44.6	Mediterraneo-Turanian riverine forests	1
44.7	Oriental plane and sweet gum woods	3
44.8	Southern riparian galleries and thickets	5
44.812	Chaste tree thickets	1
44.813	Mediterraneo-Macaronesian tamarisk thickets	1
44.914	Steppe swamp alder woods	6
44.A	Birch and conifer mire woods	1
45	Temperate broad-leaved evergreen forests	1
51.1	Near-natural raised bogs	1
5130	<i>Juniperus communis</i> formations on heaths or calcareous grasslands	2
52	Blanket bogs	3
5210	Arborescent matorral with <i>Juniperus</i> spp.	4
53	Water-fringe vegetation	1
53.3	Fen-sedge beds	2
5330	Thermo-Mediterranean and pre-steppe scrub	5
54.1	Spring mires	1

Habitat code	Title	Sites
54.12	Hard water spring mires	1
54.2	Rich fens	5
54.236	Dinaric carnation-tawny sedge fens	1
54.3	Arctoalpine riverine swards	3
54.426	Peri-Danubian black-white-star sedge fens	4
54.4262	Dinaric black-star sedge acidic fens	1
54.5	Transition mires	9
54.51	Slender-sedge swards	1
54.5321	Basicline sphagnum-bottle sedge quaking mires	1
54.54	Mud sedge swards	1
54.58	Sphagnum and cottonsedge rafts	1
61.3	Western Mediterranean and thermophilous screes	1
61.513	Illyrian drypis screes	1
61.52	Illyrian sub-Mediterranean screes	1
6110	Rupicolous calcareous or basophilic grasslands of the Alysso-Sedion albi	1
6170	Alpine and subalpine calcareous grasslands	8
62.1A21	Dinaric calcicolous chasmophyte communities	1
6210	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco Brometalia)	14
6220	Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea	15
6230	Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in	10
6240	Sub-continental steppic grasslands	5
6250	Pannonic loess steppic grasslands	3
62A0	Eastern sub-mediterranean dry grasslands (Scorzoneratalia villosae)	36
64	Inland dunes	3
6410	Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinia caeruleae)	20
6420	Mediterranean tall humid grasslands of the Molinio-Holoschoenion	3
6430	Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	11
6440	Alluvial meadows of river valleys of the Cnidion dubii	8
6450	Northern boreal alluvial meadows	2
65	Caves	21
6510	Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	14
6520	Mountain hay meadows	4
7130	Blanket bog (*active only)	1
7150	Depressions on peat substrates of the Rhynchosporion	4
7210	Calcareous fens with Cladium mariscus and species of the Caricion davallianae	1
7220	Petrifying springs with tufa formation (Cratoneurion)	3
7230	Alkaline fens	10
8120	Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)	5
8130	Western Mediterranean and thermophilous screes	17
8210	Calcareous rocky slopes with chasmophytic vegetation	40
8310	Caves not open to the public	237
8330	Submerged or partly submerged sea caves	185
9110	Luzulo-Fagetum beech forests	13
9130	Asperulo-Fagetum beech forests	10
9160	Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli	20
9180	Tilio-Acerion forest of slopes, screes and ravines	7
91E0	Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion)	23
91F0	Riparian mixed forest of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus	26
91G0	Pannonic woods with Quercus petraea and Carpinus betulus	1
91H0	Pannonian woods with Quercus pubescens	6
91I0	Euro-Siberian steppic woods with Quercus spp.	2
91K0	Illyrian Fagus sylvatica forests (Aremonia-Fagion)	42
91L0	Illyrian oak-hornbeam forests (Erythronio-carpinion)	11
91M0	Pannonian-Balkan turkey oak-sessile oak forests	8
91R0	Dinaric dolomite Scots pine forests (Genisto januensis-Pinetum)	7

Habitat code	Title	Sites
9260	Castanea sativa woods	7
92D0	Southern riparian galleries and thickets (Nerio-Tamaricetea and Securinegion tinctoriae)	2
93	Wooded steppe	3
9320	Olea and Ceratonia forests	8
9340	Quercus ilex and Quercus rotundifolia forests	18
9410	Acidophilous Picea forests of the montane to alpine levels (Vaccinio-Piceetea)	17
9530	(Sub-)Mediterranean pine forest with endemic black pines	10
9540	Mediterranean pine forests with endemic Mesogean pines	7

Annex III: number of sites for Amphibians and Reptiles (in alphabetical order)

species	Number of sites
Bombina bombina	22
Bombina variegata	134
Caretta caretta	11
Chelonia mydas	3
Elaphe longissima	2
Elaphe quatuorlineata	67
Elaphe situla	56
Emys orbicularis	106
Mauremys caspica	22
Proteus anguinus	22
Rana latastei	5
Salamandra salamandra aurorae	1
Testudo graeca	17
Testudo hermanni	117
Testudo marginata	1
Triturus carnifex	41
Triturus cristatus	48
Triturus dobrogicus	12
Triturus karelinii	16
Vipera ursinii	21

Annex IV: number of sites for birds (in alphabetical order)

SPECNAME	Number of Sites
Accipiter brevipes	30
Accipiter brevipes	7
Accipiter gentilis	5
Accipiter gentilis	8
Accipiter gentilis arrigonii	16
Accipiter nisus	6
Accipiter nisus	8
Accipiter nisus granti	19
Acrocephalus arundinaceus	2
Acrocephalus melanopogon	21
Acrocephalus palustris	2
Acrocephalus scirpaceus	2
Actitis hypoleucos	4
Aegolius funereus	13
Aegolius funereus	1
Aegypius monachus	4
Alauda arvensis	4
Alcedo atthis	79
Alcedo atthis	3
Alectoris graeca	4
Alectoris graeca	4
Alectoris graeca saxatilis	25
Anas acuta	3

SPECNAME	Number of Sites
Anas clypeata	3
Anas crecca	5
Anas penelope	4
Anas platyrhynchos	4
Anas querquedula	4
Anas strepera	4
Anser albifrons	2
Anser albifrons	1
Anser albifrons flavirostris	7
Anser anser	4
Anser fabalis	4
Anthus campestris	52
Anthus campestris	2
Anthus cervinus	3
Anthus pratensis	4
Anthus spinoletta	7
Anthus trivialis	2
Apus apus	7
Apus melba	9
Apus pallidus	4
Aquila chrysaetos	103
Aquila chrysaetos	6
Aquila clanga	9
Aquila heliaca	18
Aquila pomarina	28
Aquila pomarina	3
Ardea cinerea	3
Ardea purpurea	39
Ardea purpurea	12
Ardeola ralloides	37
Ardeola ralloides	14
Arenaria interpres	3
Asio flammeus	12
Asio flammeus	4
Asio otus	8
Athene noctua	5
Aythya ferina	6
Aythya fuligula	4
Aythya nyroca	39
Aythya nyroca	3
Bonasa bonasia	43
Botaurus stellaris	36
Botaurus stellaris	5
Branta ruficollis	3
Bubo bubo	98
Bubo bubo	6
Bucephala clangula	3
Burhinus oedicephalus	20
Burhinus oedicephalus	3
Buteo buteo	10
Buteo rufinus	43
Buteo rufinus	5
Calandrella brachydactyla	21
Calandrella brachydactyla	2
Calidris alba	3

SPECNAME	Number of Sites
Calidris alpina	5
Calidris canutus	3
Calidris ferruginea	3
Calidris minuta	2
Calonectris diomedea	13
Calonectris diomedea	3
Caprimulgus europaeus	95
Caprimulgus europaeus	5
Carduelis cannabina	3
Carduelis carduelis	8
Carduelis chloris	5
Carduelis spinus	7
Cercotrichas galactotes	1
Certhia brachydactyla	1
Cettia cetti	5
Charadrius alexandrinus	2
Charadrius dubius	4
Charadrius hiaticula	3
Chlidonias hybridus	30
Chlidonias hybridus	13
Chlidonias leucopterus	19
Chlidonias leucopterus	12
Chlidonias niger	26
Chlidonias niger	12
Ciconia ciconia	52
Ciconia ciconia	10
Ciconia nigra	43
Ciconia nigra	7
Cinclus cinclus	3
Circaetus gallicus	93
Circaetus gallicus	12
Circus aeruginosus	65
Circus aeruginosus	3
Circus cyaneus	30
Circus cyaneus	1
Circus macrourus	8
Circus macrourus	4
Circus pygargus	31
Circus pygargus	9
Cisticola juncidis	3
Clamator glandarius	1
Coccothraustes coccothraustes	6
Columba livia	10
Columba oenas	7
Columba palumbus	7
Coracias garrulus	24
Coracias garrulus	4
Corvus corax	11
Corvus corone	2
Corvus monedula	6
Coturnix coturnix	5
Crex crex	48
Crex crex	6
Cuculus canorus	4
Cygnus columbianus bewickii	2
Cygnus cygnus	3

SPECNAME	Number of Sites
Cygnus cygnus	1
Cygnus olor	4
Delichon urbica	11
Dendrocopos leucotos	56
Dendrocopos leucotos	1
Dendrocopos major	1
Dendrocopos medius	101
Dendrocopos medius	3
Dendrocopos minor	3
Dendrocopos syriacus	103
Dendrocopos syriacus	9
Dryocopus martius	82
Dryocopus martius	3
Egretta alba	52
Egretta alba	9
Egretta garzetta	51
Egretta garzetta	9
Emberiza cia	4
Emberiza cirrus	6
Emberiza citrinella	2
Emberiza hortulana	64
Emberiza hortulana	7
Emberiza melanocephala	10
Emberiza schoeniclus	1
Eremophila alpestris	1
Erithacus rubecula	4
Falco biarmicus	23
Falco biarmicus	7
Falco columbarius	18
Falco columbarius	2
Falco eleonorae	14
Falco eleonorae	4
Falco naumanni	28
Falco naumanni	14
Falco peregrinus	111
Falco peregrinus	8
Falco subbuteo	5
Falco tinnunculus	9
Falco vespertinus	23
Falco vespertinus	8
Ficedula albicollis	71
Ficedula albicollis	18
Ficedula parva	34
Ficedula semitorquata	2
Ficedula semitorquata	4
Fringilla coelebs	8
Fringilla montifringilla	4
Fulica atra	2
Galerida cristata	4
Gallinago gallinago	4
Gallinago media	1
Gallinago media	1
Gallinula chloropus	3
Garrulus glandarius	4
Gavia arctica	25
Gavia arctica	2

SPECNAME	Number of Sites
Gavia immer	3
Gavia immer	1
Gavia stellata	14
Gavia stellata	2
Gelochelidon nilotica	8
Gelochelidon nilotica	6
Glareola nordmanni	1
Glareola pratincola	10
Glareola pratincola	1
Glaucidium passerinum	5
Glaucidium passerinum	1
Grus grus	10
Grus grus	5
Gypaetus barbatus	3
Gyps fulvus	38
Gyps fulvus	6
Haematopus ostralegus	2
Haliaeetus albicilla	35
Hieraaetus fasciatus	19
Hieraaetus fasciatus	16
Hieraaetus pennatus	25
Hieraaetus pennatus	16
Himantopus himantopus	17
Himantopus himantopus	5
Hippolais icterina	3
Hippolais olivetorum	18
Hippolais olivetorum	4
Hippolais pallida	4
Hippolais polyglotta	1
Hirundo daurica	3
Hirundo rustica	7
Hydrobates pelagicus	7
Ixobrychus minutus	52
Ixobrychus minutus	3
Jynx torquilla	2
Lanius collurio	137
Lanius collurio	9
Lanius excubitor	4
Lanius minor	52
Lanius minor	4
Lanius nubicus	7
Lanius senator	19
Larus audouinii	6
Larus audouinii	1
Larus cachinnans	2
Larus canus	2
Larus genei	11
Larus genei	1
Larus melanocephalus	22
Larus melanocephalus	5
Larus minutus	2
Larus ridibundus	2
Limosa lapponica	2
Limosa lapponica	3
Limosa limosa	3
Loxia curvirostra	2

SPECNAME	Number of Sites
Lullula arborea	101
Lullula arborea	4
Luscinia megarhynchos	4
Luscinia svecica	7
Melanitta fusca	3
Melanocorypha calandra	24
Melanocorypha calandra	4
Mergus albellus	16
Mergus albellus	3
Mergus merganser	2
Mergus serrator	3
Merops apiaster	2
Miliaria calandra	3
Milvus migrans	21
Milvus migrans	15
Milvus milvus	8
Milvus milvus	14
Monticola saxatilis	7
Monticola solitarius	7
Montifringilla nivalis	5
Motacilla alba	10
Motacilla cinerea	3
Motacilla flava	6
Muscicapa striata	4
Neophron percnopterus	32
Neophron percnopterus	6
Nucifraga caryocatactes	1
Numenius arquata	2
Numenius phaeopus	1
Numenius tenuirostris	5
Nycticorax nycticorax	41
Nycticorax nycticorax	10
Oenanthe hispanica	21
Oenanthe oenanthe	10
Oriolus oriolus	6
Otis tarda	2
Otus scops	31
Oxyura leucocephala	3
Pandion haliaetus	12
Pandion haliaetus	11
Parus ater	3
Parus caeruleus	7
Parus cristatus	8
Parus lugubris	3
Parus major	9
Parus montanus	5
Parus palustris	4
Passer domesticus	9
Passer hispaniolensis	2
Passer montanus	4
Pelecanus crispus	13
Pelecanus crispus	6
Pelecanus onocrotalus	3
Perdix perdix	2
Perdix perdix	2
Perdix perdix hispaniensis	11

SPECNAME	Number of Sites
Perdix perdix italica	7
Pernis apivorus	104
Pernis apivorus	18
Phalacrocorax aristotelis	2
Phalacrocorax aristotelis	2
Phalacrocorax aristotelis desmarestii	11
Phalacrocorax carbo	2
Phalacrocorax pygmeus	30
Phalacrocorax pygmeus	4
Phasianus colchicus	3
Philomachus pugnax	9
Philomachus pugnax	7
Phoenicopterus ruber	8
Phoenicopterus ruber	3
Phoenicurus ochruros	7
Phoenicurus phoenicurus	18
Phylloscopus collybita	8
Phylloscopus sibilatrix	30
Phylloscopus trochiloides	1
Phylloscopus trochilus	2
Pica pica	8
Picoides tridactylus	13
Picoides tridactylus	1
Picus canus	67
Picus canus	10
Picus viridis	9
Platalea leucorodia	23
Platalea leucorodia	8
Plegadis falcinellus	15
Plegadis falcinellus	6
Pluvialis apricaria	8
Pluvialis apricaria	3
Pluvialis squatarola	3
Podiceps auritus	11
Podiceps cristatus	3
Podiceps nigricollis	4
Porzana parva	18
Porzana parva	6
Porzana porzana	21
Porzana porzana	7
Porzana pusilla	12
Porzana pusilla	2
Prunella collaris	8
Prunella modularis	6
Ptyonoprogne rupestris	2
Puffinus assimilis	1
Puffinus puffinus mauretanicus	1
Puffinus puffinus yelkouan	2
Puffinus yelkouan	2
Pyrrhocorax graculus	8
Pyrrhocorax pyrrhocorax	8
Pyrrhocorax pyrrhocorax	1
Pyrrhula pyrrhula	1
Rallus aquaticus	2
Recurvirostra avoetia	17
Recurvirostra avoetia	2

SPECNAME	Number of Sites
Regulus ignicapillus	6
Regulus regulus	6
Remiz pendulinus	1
Riparia riparia	1
Saxicola rubetra	9
Saxicola torquata	9
Scolopax rusticola	1
Serinus citrinella	1
Serinus serinus	4
Sitta europaea	7
Sitta neumayer	6
Stercorarius skua	2
Sterna albifrons	18
Sterna albifrons	8
Sterna caspia	6
Sterna caspia	6
Sterna hirundo	30
Sterna hirundo	7
Sterna sandvicensis	19
Sterna sandvicensis	4
Streptopelia decaocto	6
Streptopelia turtur	6
Strix aluco	8
Strix uralensis	11
Sturnus roseus	1
Sturnus vulgaris	10
Sylvia atricapilla	10
Sylvia borin	3
Sylvia cantillans	4
Sylvia communis	8
Sylvia curruca	5
Sylvia hortensis	3
Sylvia melanocephala	2
Sylvia nisoria	17
Sylvia nisoria	4
Tachybaptus ruficollis	1
Tadorna tadorna	2
Tetrao tetrix	1
Tetrao urogallus	19
Tetrao urogallus	8
Tetrax tetrax	4
Tetrax tetrax	2
Tichodroma muraria	2
Tringa erythropus	4
Tringa glareola	10
Tringa glareola	7
Tringa nebularia	4
Tringa ochropus	4
Tringa stagnatilis	3
Tringa totanus	3
Troglodytes troglodytes	10
Turdus iliacus	3
Turdus merula	20
Turdus philomelos	10
Turdus pilaris	1
Turdus torquatus	11

SPECNAME	Number of Sites
<i>Turdus viscivorus</i>	9
<i>Turnix sylvatica</i>	1
<i>Turnix sylvatica</i>	1
<i>Tyto alba</i>	2
<i>Upupa epops</i>	14
<i>Vanellus vanellus</i>	3

Annex V: number of sites for fishes (in alphabetical order)

SPECNAME	Number of Sites
<i>Acipenser naccarii</i>	4
<i>Acipenser sturio</i>	5
<i>Alburnus albidus</i>	14
<i>Alosa fallax</i>	5
<i>Aphanius fasciatus</i>	7
<i>Aphanius iberus</i>	3
<i>Aspius aspius</i>	16
<i>Barbus meridionalis</i>	62
<i>Barbus plebejus</i>	3
<i>Chalcalburnus chalcoides</i>	2
<i>Cobitis elongata</i>	4
<i>Cobitis taenia</i>	57
<i>Cottus gobio</i>	40
<i>Eudontomyzon mariae</i>	4
<i>Eudontomyzon spp.</i>	12
<i>Gobio albipinnatus</i>	8
<i>Gobio uranoscopus</i>	18
<i>Gymnocephalus baloni</i>	2
<i>Gymnocephalus schraetzer</i>	10
<i>Hucho hucho</i>	14
<i>Lampetra fluviatilis</i>	4
<i>Lampetra planeri</i>	2
<i>Lethenteron zanandreaei</i>	5
<i>Leuciscus souffia</i>	5
<i>Misgurnus fossilis</i>	28
<i>Padogobius panizzae</i>	2
<i>Pelecus cultratus</i>	5
<i>Petromyzon marinus</i>	9
<i>Phoxinellus spp.</i>	22
<i>Pomatoschistus canestrinii</i>	6
<i>Rhodeus sericeus amarus</i>	25
<i>Rutilus pigus</i>	13
<i>Rutilus rubilio</i>	6
<i>Sabanejewia aurata</i>	21
<i>Salmo marmoratus</i>	7
<i>Umbra krameri</i>	6
<i>Zingel streber</i>	11

Annex VI: number of sites for Invertebrates (in alphabetical order)

SPECNAME	Number of Sites
<i>Austropotamobius pallipes</i>	24
<i>Austropotamobius torrentium</i>	24
<i>Buprestis splendens</i>	10
<i>Callimorpha quadripunctaria</i>	14
<i>Cerambyx cerdo</i>	40
<i>Coenagrion ornatum</i>	7
<i>Coenonympha oedippus</i>	7
<i>Colias myrmidone</i>	3
<i>Congerius kusceri</i>	7
<i>Erebia medusa polaris</i>	2
<i>Eriogaster catax</i>	8
<i>Euphydryas aurinia</i>	34
<i>Euphydryas maturna</i>	17
<i>Hesperia comma catena</i>	2
<i>Leptidea morsei</i>	2
<i>Leptodirus hochenwarti</i>	16
<i>Leucorrhinia pectoralis</i>	6
<i>Lindenia tetraphylla</i>	17
<i>Lucanus cervus</i>	68
<i>Lycaena dispar</i>	61
<i>Maculinea nausithous</i>	10
<i>Maculinea teleius</i>	11
<i>Morimus funereus</i>	27
<i>Nymphalis vaualbum</i>	1
<i>Ophiogomphus cecilia</i>	4
<i>Osmoderma eremita</i>	24
<i>Rosalia alpina</i>	41
<i>Stephanopachys substriatus</i>	7
<i>Unio crassus</i>	6

Annex VII: number of sites for Mammals (in alphabetical order)

SPECNAME	Number of Sites
<i>Barbastella barbastellus</i>	13
<i>Canis lupus</i>	127
<i>Castor fiber</i>	15
<i>Lutra lutra</i>	110
<i>Lynx lynx</i>	43
<i>Miniopterus schreibersi</i>	78
<i>Monachus monachus</i>	2
<i>Myotis bechsteini</i>	18
<i>Myotis blythii</i>	83
<i>Myotis capaccinii</i>	69
<i>Myotis dasycneme</i>	5
<i>Myotis emarginatus</i>	34
<i>Myotis myotis</i>	89
<i>Phocoena phocoena</i>	2
<i>Rhinolophus blasii</i>	56
<i>Rhinolophus euryale</i>	87

SPECNAME	Number of Sites
Rhinolophus ferrumequinum	116
Rhinolophus hipposideros	89
Rhinolophus mehelyi	12
Rupicapra rupicapra	1
Rupicapra rupicapra balcanica	19
Spermophilus citellus	10
Tursiops truncatus	16
Ursus arctos	73

Annex VIII: number of sites for Plants
(in alphabetical order)

SPECNAME	Number of Sites
Adenophora lilifolia	2
Aldrovanda vesiculosa	4
Androsace mathildae	1
Angelica palustris	3
Apium repens	3
Aquilegia kitaibelii	9
Arabis scopoliana	2
Armoracia macrocarpa	1
Astragalus physocalyx	1
Buxbaumia viridis	3
Caldesia parnassifolia	1
Carex acuta	1
Cerastium dinaricum	2
Cypripedium calceolus	10
Dianthus serotinus	4
Dicranum viride	2
Drepanocladus vernicosus	3
Eleocharis carniolica	1
Eryngium alpinum	13
Fritillaria montana	6
Genista holopetala	2
Himantoglossum adriaticum	1
Himantoglossum caprinum	1
Ligularia sibirica	1
Lilium jankae	5
Mannia triandra	1
Marsilea quadrifolia	16
Moehringia tommasinii	1
Narcissus angustifolius	20
Pulsatilla grandis	7
Scilla litardierei	10
Serratula lycopifolia	3
Solenanthus albanicus	1
Tulipa hungarica	1

Annex IX: Emerald Sites Database Structure and detailed list of information fields per table in the Emerald database and section number from the Standard Data Form to which the field refers

Table structure for the ecological information in the Emerald sites database:

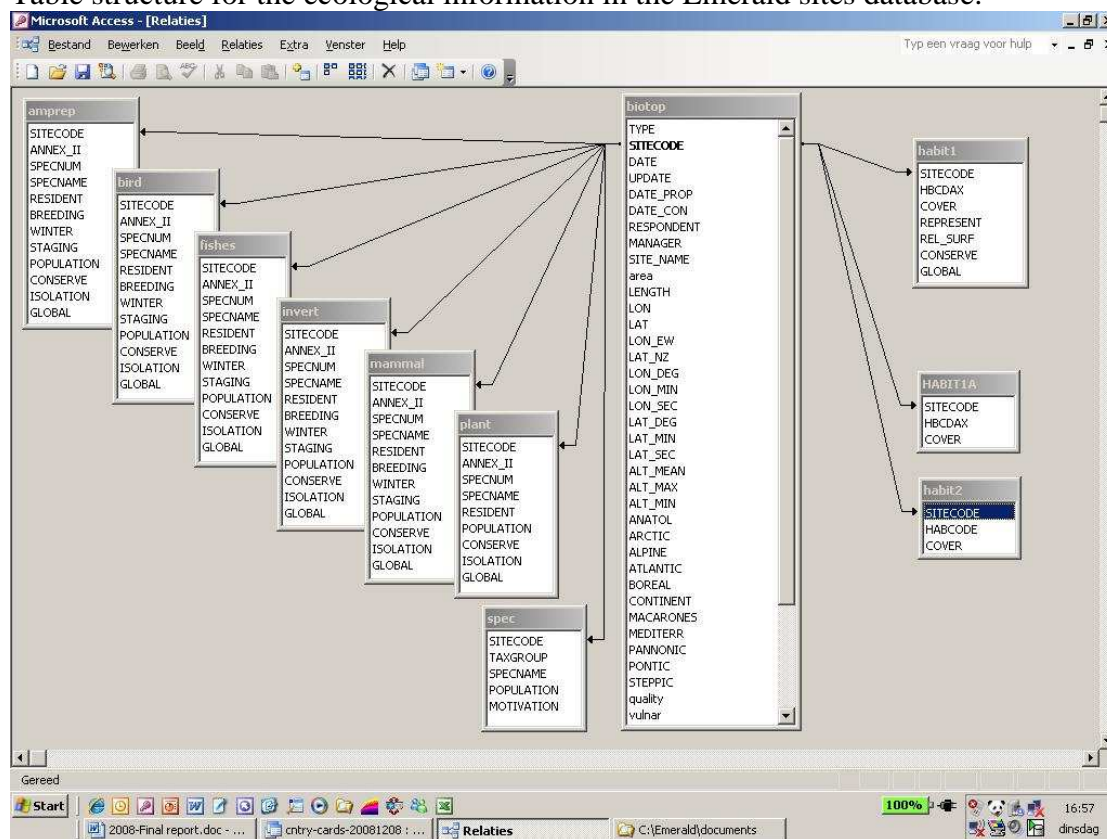


Table BIOTOP: Basic Site Data

Field Name	Description	Type	Size	SDF section number
TYPE	Site type	Text	1	1.1
SITECODE	Site Code	Text	9	1.2
DATE	Compilation Date	Text	6	1.3
UPDATE	Update date	Text	6	1.4
DATE_PROP	Date site proposed as eligible as ASCI	Text	6	1.8
DATE_CON	Date confirmed as ASCI	Text	6	1.8
RESPONDENT	Respondent	Text	240	1.6
MANAGER	Site Manager	Text	240	6.2
SITE_NAME	Site Name	Text	240	1.7
AREA	Area in ha	Number	8	2.2
LENGTH	Site length in meters	Number	8	2.3
LON_EW	Longitude East/West	Text	1	2.1
LAT_NZ	Latitude North/South	Text	1	2.1
LON_DEG	Longitude Degrees	Number (I)	2	2.1
LON_MIN	Longitude Minutes	Number (I)	2	2.1

Field Name	Description	Type	Size	SDF section number
LON_SEC	Longitude Seconds	Number (I)	2	2.1
LAT_DEG	Latitude Degrees	Number (I)	2	2.1
LAT_MIN	Latitude Minutes	Number (I)	2	2.1
LAT_SEC	Latitude Seconds	Number (I)	2	2.1
ALT_MEAN	Altitude Mean	Number (D)	8	2.4
ALT_MIN	Altitude Minimum	Number (D)	8	2.4
ALT_MAX	Altitude Maximum	Number (D)	8	2.4
ANATOL	Biogeographic region/Anatolian	Yes/No	1	2.6
ARCTIC	Biogeographic region/Arctic	Yes/No	1	2.6
ALPINE	Biogeographic region/Alpine	Yes/No	1	2.6
ATLANTIC	Biogeographic region/Atlantic	Yes/No	1	2.6
CONTINENT	Biogeographic region /Continental	Yes/No	1	2.6
MACARONES	Biogeographic region /Macaronesian	Yes/No	1	2.6
MEDITERR	Biogeographic region/Mediterranean	Yes/No	1	2.6
BOREAL	Biogeographic region /Boreal	Yes/No	1	2.6
PANNONIC	Biogeographic region /Pannonian	Yes/No	1	2.6
PONTIC	Biogeographic region /Black Sea	Yes/No	1	2.6
STEPPIC	Biogeographic region/Steppic	Yes/No	1	2.6
QUALITY	Description Site Quality	Memo	-	4.2
VULNAR	Description Site Vulnerability	Memo	-	4.3
DESIGN	Description Site Designation	Memo	-	4.4
OWNER	Description Site Ownership	Memo	-	4.5
DOCUM	Description Site Documentation	Memo	-	4.6
CHARACT	Description Site Character	Memo	-	4.1
MANAGPL	Description Site Management Plan	Memo	-	6.2
PHOTOS	Aerial photographs availability	Yes/No	1	7
MAPSINCL	Maps Included	Yes/No	1	7

Table AMPREP: Amphibian and reptiles

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	Always “yes”
SPECNUM	Species Number	Text	4	3.2.d
SPECNAME	Species Name	Text	60	3.2.d
RESIDENT	Resident population	Text	14	3.2.d
BREEDING	Breeding population	Text	14	3.2.d
WINTER	Wintering population	Text	14	3.2.d
STAGING	Staging population	Text	14	3.2.d
POPULATION	Site Assessment: Population	Text	1	3.2.d
CONSERVE	Site Assessment: Conservation	Text	1	3.2.d
ISOLATION	Site Assessment: Isolation	Text	1	3.2.d
GLOBAL	Site Assessment: Global	Text	1	3.2.d

Table BIRD: Birds

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	“No” if 3.2.b
SPECNUM	Species Number	Text	4	3.2.a or b
SPECNAME	Species Name	Text	60	3.2.a or b
RESIDENT	Resident population	Text	14	3.2.a or b
BREEDING	Breeding population	Text	14	3.2.a or b
WINTER	Wintering population	Text	14	3.2.a or b
STAGING	Staging population	Text	14	3.2.a or b
POPULATION	Site Assessment: Population	Text	1	3.2.a or b
CONSERVE	Site Assessment: Conservation	Text	1	3.2.a or b
ISOLATION	Site Assessment: Isolation	Text	1	3.2.a or b
GLOBAL	Site Assessment: Global	Text	1	3.2.a or b

Table FISHES: Fishes

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	Always “yes”
SPECNUM	Species Number	Text	4	3.2.e
SPECNAME	Species Name	Text	60	3.2.e
RESIDENT	Resident population	Text	14	3.2.e
BREEDING	Breeding population	Text	14	3.2.e
WINTER	Wintering population	Text	14	3.2.e
STAGING	Staging population	Text	14	3.2.e
POPULATION	Site Assessment: Population	Text	1	3.2.e
CONSERVE	Site Assessment: Conservation	Text	1	3.2.e
ISOLATION	Site Assessment: Isolation	Text	1	3.2.e
GLOBAL	Site Assessment: Global	Text	1	3.2.e

Table INVERT: Invertebrates

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	Always “yes”
SPECNUM	Species Number	Text	4	3.2.f
SPECNAME	Species Name	Text	60	3.2.f
RESIDENT	Resident population	Text	14	3.2.f
BREEDING	Breeding population	Text	14	3.2.f
WINTER	Wintering population	Text	14	3.2.f
STAGING	Staging population	Text	14	3.2.f
POPULATION	Site Assessment: Population	Text	1	3.2.f
CONSERVE	Site Assessment: Conservation	Text	1	3.2.f
ISOLATION	Site Assessment: Isolation	Text	1	3.2.f
GLOBAL	Site Assessment: Global	Text	1	3.2.f

Table MAMMAL: Mammals

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	Always “yes”
SPECNUM	Species Number	Text	4	3.2.c
SPECNAME	Species Name	Text	60	3.2.c
RESIDENT	Resident population	Text	14	3.2.c
BREEDING	Breeding population	Text	14	3.2.c
WINTER	Wintering population	Text	14	3.2.c
STAGING	Staging population	Text	14	3.2.c
POPULATION	Site Assessment: Population	Text	1	3.2.c
CONSERVE	Site Assessment: Conservation	Text	1	3.2.c
ISOLATION	Site Assessment: Isolation	Text	1	3.2.c
GLOBAL	Site Assessment: Global	Text	1	3.2.c

Table PLANT: Plants

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ANNEX_II	Resolution 6 species Y/N	Yes/No	1	Always “yes”
SPECNUM	Species Number	Text	4	3.2.g
SPECNAME	Species Name	Text	60	3.2.g
RESIDENT	Resident population	Text	14	3.2.g
POPULATION	Site Assessment: Population	Text	1	3.2.g
CONSERVE	Site Assessment: Conservation	Text	1	3.2.g
ISOLATION	Site Assessment: Isolation	Text	1	3.2.g
GLOBAL	Site Assessment: Global	Text	1	3.2.g

Table SPEC: Other important species

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
TAXGROUP	Taxonomic group	Text	1	3.3
SPECNAME	Species Name	Text	60	3.3
POPULATION	Site Assessment: Population	Text	1	3.3
MOTIVATION	Motivation for inclusion	Text	1	3.3

Table HABIT1: Resolution 4 (1996) Habitat Types

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
HBCDAX	Habitat Code of Resolution 6	Text	9	3.1.a
COVER	% cover by habitat	Number (D)	8	3.1.a
REPRESENT	Site Assessment: Representativity	Text	1	3.1.a
REL_SURF	Site Assessment: Relative Surface	Text	1	3.1.a
CONSERVE	Site Assessment: Conservation	Text	1	3.1.a
GLOBAL	Site Assessment: Global	Text	1	3.1.a

Table HABIT1A: Other important Habitat Types

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
HBCDAX	Habitat Code	Text	9	3.1.b
COVER	% cover by habitat	Number (D)	8	3.1.b

Table HABIT2: General Habitat Types

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
HABCODE	General habitat code	Text	3	4.1
COVER	% cover by general habitat type	Number (D)	8	4.1

Table ACTVTY: Impact and human activity in and around site

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
ACT_CODE	Activity code	Text	3	6.1
IN_OUT	In site / Out site	Text	1	6.1
INTENSITY	Intensity code	Text	1	6.1
COVER	% cover by activity	Number (D)	8	6.1
INFLUENCE	Influence on site	Text	1	6.1

Table REGCODE: Regions

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
REC_CODE	Region Code	Text	5	2.5
COVER	% cover by region	Number (D)	8	2.5

Table DESIGC: Site designation codes

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
DESICODE	Designation Code	Text	4	5.1
COVER	% cover by designation	Number (D)	8	5.1

Table DESIGR: Relation to designated sites

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
DESICODE	Designation Code	Text	4	5.2
DES_SITE	Name of designated site	Text	60	5.2
OVERLAP	Overlap type	Text	1	5.2
OVERLAP_P	% overlap Natura / Designated site	Number (D)	8	5.2

Table CORINE: Relation to CORINE Biotopes sites

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
CORINE	Corine Biotopes code	Text	9	5.3
OVERLAP	Overlap type	Text	1	5.3
OVERLAP_P	% overlap Biotope / Designated site	Number (D)	8	5.3

Table SITREL: Relation to other EMERALD Sites

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
OTHERTYPE	Type of related EMERALD site	Text	1	Not in SDF
OTHERSITE	Site Code related EMERALD site	Text	9	1.5

Table MAP: Map information

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
MAP_NO	Map number	Text	20	7
SCALE	Map Scale	Text	6	7
PROJECTION	Map Projection	Text	20	7
DETAILS	Digitised boundaries details	Memo	-	7

Table PHOTO: Aerial photographs and slides

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
TYPE	Aerial photograph or slide	Text	1	“P” or “S”
REFNUM	Aerial photo reference	Text	8	7 or 8
LOCATION	Photo/Slide location	Text	30	7 or 8
DESCRIPT	Photo/Slide description	Text	100	7 or 8
DATE	Photo/Slide date	Text	6	7 or 8
AUTHOR	Slide Author/Copyright	Text	30	7 or 8

Table HISTRY: History information

Field Name	Description	Type	Size	SDF section number
SITECODE	Site Code	Text	9	1.2
KEYWORD	History keyword	Text	20	Internal code
DESCRIPT	Description of change	Memo	-	4.7
DATE	Change date	Text	6	4.7

Table RESP: Respondent

Field Name	Description	Type	Size	SDF section number
RESPOND	Respondent information	Text	240	Standard value for 1.6

Annex X

Regional Meeting of Experts for the Development of the Emerald Network (CARDS programme) Ohrid, 10-11 July 2006

Summary Conclusions

- Interesting information was given by all countries on the progress and status of implementation of the project. The tables and map in annex illustrate the progress up to date.
- The collection of data is well underway for the sites data base
- There is still a lot of work to be done, especially for background data for species and habitats and GIS-data for sites
 - The interest of looking at transboundary sites between the 6 countries concerned was noted. Attention to this aspect will be given later in the project. In addition, participants noted that it would be interesting to have access to N2000 data from neighboring EU countries
- Concerning the N2000 evaluation process:
 - Very interesting introduction to this evaluation process was given
 - Agreement on the necessity of such a evaluation process for the implementation of the emerald network
 - Attention should be given to the fact that this process is very much resource demanding and time consuming; there is probably a need for looking for a simplification
 - Need for further explanation of this evaluation process in meetings, workshops,
 - Information was given on the fact that the evaluation of pSCI's is only based on scientific criteria. There are judgments of the European court of justice confirming this.. It was noted that appropriate consultation with general public and stakeholders can be useful
 - Interesting view points on the situation of military areas within N2000, which are not exempted for designation, if they qualify

- If there is a lack of capacity for building the data bases, ETC/BD and CoE experts can be asked for help within the framework of the CARDS project
- There is a high need for further inventory work and mapping of species and habitats. Participants noted that sufficient funds should be allocated towards this work in the future
- Agreement was given on the number of species and habitats for which distribution data will be collected:
 - Species: between 10 and 15
 - Habitats: around 5
- Agreement on trying to collect at least for the following species and habitats distribution on a common bases for the 6 countries:
 - *Canis lupus*
 - *Ursus arctos*
 - *Lutra lutra*
 - *Ciconia nigra*
 - *Alcedo atthis*
 - 37.2
 - 41.1
- It was agreed to deliver another interim data base for all aspects of the project by 30th September, to be able to show progress overviews during the expert group meeting in Strasbourg (9th October 2006)
- Participants congratulated the Macedonian authorities for organizing the meeting in the wonderful place, lake Ohrid

Annex XI

Short note on data changes for adaptation to the new ISO country code for Montenegro (ME)

When starting the Emerald pilot project in “Serbia-Montenegro” it was still one country with one ISO-country code (YU). Later on, “Montenegro” and “Serbia” received their own ISO-code: “RS” and “ME”. This note describes what was done for adapting the Emerald software and the Emerald sites data to be able to identify each country separately in the data base.

For Montenegro, the changes were made on the sites data base received on 20 december 2007, containing the data for 32 sites.

Emerald Sites Data Base

- Copy the sites data base “cntryyu.mdb” for Montenegro to “cntryrme.mdb”
- Change first two characters of the site code from “YU” to “ME” in each of the 20 data tables. As this site code is the key for the relational data base, care should be given each table is changed correctly.
- In addition to changing the first 2 characters, the next 6 characters “MONTEN” were also changed to “000000” at the same time.
- For the following tables only the sitecode needs to be changed from “YUMONTEN-“ to “ME000000-“: actvty, amprep, biotops, bird, corine, fishes, habit1, habit1A, habit2, histry, invert, mammal, map, photo, plant, Regcode, sitrel and spec. Some of those tables did not yet contained data.
- For “desigr” and “desig” not only the sitecode was changed but also the available designation codes “YU00” and “YU99” were changed to “ME00” and “ME99” (see below)

Changes to references tables of the software

- Designation codes for protected areas in Montenegro:

Up to now, no final decision was taken for the coding of the designation (protection) types of Montenegro. As a consequence, only the codes for “not protected, YU00” and “other protection, YU99” are present in the table “desigs-x” in the look-up table “codings.mdb” of the software. On the other hand, a code list is being developed in the framework of the European Common Data Base on Designated Areas (ECDDA), managed by EEA/ETCBD. In the near future a final decision should be taken to add those designation codes to the emerald software. The following table illustrates which designations are present in the ECDDA:

Category	DESIG_ABBR	ODESIGNATE
	ME00	No protection status
	ME01	Nacionalni Park or Narodni Park
	ME02	Regionalni Park Prirode, Krajinski Park, Regionalni Park
	ME03	Rezervat Prirode, Strogi, Naravni Reservat
	ME04	Spomenik Prirode, Naravni Spomenik

Category	DESIG_ABBR	ODESIGNATE
	ME05	Zasticeno Rekreativno Podrucje
	ME06	Ostala Zasticena Podrucja Prirode (OZPP) or Karakteristicni Pejzazi
	ME07	Memorijalni Spomenik
	ME08	Spomenik Oblikovane Prirode or Hortikulturni Spomenik
	ME09	Historical Sanctuary
	ME10	Landscape Park
	ME99	Other

As soon as a final decision will be taken, they can be added to the emerald code list for existing protection types in Montenegro.

- Adding “Montenegro” and “Serbia” to the list of countries in “utility.mdb”

The Emerald software is operating on an individual country bases. To be able to work with individual data bases for Montenegro and Serbia separately, two records need to be added to the table “country” in the look-up table “utility.mdb”

country					
CODE	ISO_CODE	NAME	ALTITUDE_L	ALTITUDE_U	BIOCODES
ME	ME	MONTENEGRO	-500	2522	17
RS	RS	SERBIA	-500	2656	261

The highest point for Montenegro was changed to 2522 m (to be checked)

The field “biocodes” contains a code number indicating which biogeographical regions occur in the country concerned. For Serbia this is 261 (Pannonic, Alpine and Continental). For Montenegro this is 17 (Alpine and Mediterranean). Only those regions will be clickable in the “location” window of the emerald software.

To be able to operate the Emerald software correctly, the following three files need to be copied to the \emerald\data directory:

- Cntryme.mdb
- Codings.mdb
- Utility.mdb

When starting the emerald software, in the menu “setup”, the country “Montenegro” should be selected. After this, the emerald software should work on the adapted data base “cntryme.mdb” for Montenegro

Good luck !!

Marc Roekaerts
16/01/2008

Annex XII

Short note on data changes for adaptation to the new ISO country code for Serbia (RS)

When starting the Emerald pilot project in “Serbia-Montenegro” it was still one country with one ISO-country code (YU). Later on, “Montenegro” and “Serbia” received their own ISO-code: “RS” and “ME”. This note describes what was done for adapting the Emerald software and the Emerald sites data to be able to identify each country separately in the data base.

For Serbia, the changes were made on the sites data base received on 4 december 2007, containing the data for 61 sites.

Emerald Sites Data Base

- Copy the sites data base “cntryyu.mdb” for Serbia to “cntryrs.mdb”
- Change first two characters of the site code from “YU” to “RS” in each of the 20 data tables. As this site code is the key for the relational data base, care should be given each table is changed correctly.
- For the following tables only the sitecode needs to be changed from “YU-----” to “RS-----”: actvty, amprep, biotops, bird, corine, fishes, habit1, habit1A, habit2, histry, invert, mammal, photo, plant, Regcode, sitrel and spec. Some of those tables did not yet contained data.
- For “desigc” and “desigr” not only the sitecode was changed but also the available designation codes “YU00” and “YU99” were changed to “RS00” and “RS99” (see below)
- The table “map” contains the data in relation to how the site is mapped. For the Serbian data, many relations with existing shape files and others were referenced in these fields. The names of those references contains also the ISO-code “YU”. Those references were NOT changed to “RS”. **They need to be reviewed by the country team according to their needs !.** (see window “Maps/Aerial Photographs/slides of sites” in the fields “Projection” and “Reference to availability of boundaries in digital form”).

Changes to references tables of the software

- Designation codes for protected areas in Serbia:

Up to now, no final decision was taken for the coding of the designation (protection) types of Serbia. As a consequence, only the codes for “not protected, YU00” and “other protection, YU99” are present in the table “desigs-x” in the look-up table “codings.mdb” of the software. On the other hand, a code list is being developed in the framework of the European Common Data Base on Designated Areas (ECDDA), managed by EEA/ETCBD. The opportunity was taken now to also add those designation codes to the emerald software. The following table illustrates which designations were added. They can now be used in the software:

desigs-x		
CATEGORY	DESICODE	DESCRIPT
	RS00	Bez zastite
A	RS01	Nacionalni park
A	RS02	Rezervat prirode
A	RS03	Spomenik prirode
A	RS04	Predeli izuzetnih odlika
A	RS05	Podrucje od kulturnog i istorijskog znacaja
A	RS06	Park prirode
A	RS07	Regionalni park prirode
	RS99	Ostalo

As soon as new designations are added to this code list for existing protection types in Serbia, they will need to be added to this look-up table.

- Adding “Montenegro” and “Serbia” to the list of countries in “utility.mdb”

The Emerald software is operating on an individual country bases. To be able to work with individual data bases for Montenegro and Serbia separately, two records need to be added to the table “country” in the look-up table “utility.mdb”

country					
CODE	ISO_CODE	NAME	ALTITUDE_L	ALTITUDE_U	BIOCODES
ME	ME	MONTENEGRO	-500	2522	17
RS	RS	SERBIA	-500	2656	261

The highest point for Montenegro was changed to 2522 m (to be checked)

The field “biocodes” contains a code number indicating which biogeographical regions occur in the country concerned. For Serbia this is 261 (Pannonic, Alpine and Continental). For Montenegro this is 17 (Alpine and Mediterranean). Only those regions will be clickable in the “location” window of the emerald software.

To be able to operate the Emerald software correctly, the following three files need to be copied to the \emerald\data directory:

- Cntryrs.mdb
- Codings.mdb
- Utility.mdb

When starting the emerald software, in the menu “setup”, the country “Serbia” should be selected. After this, the emerald software should work on the adapted Serbian data base “cntryrs.mdb”

Good luck !!
 Marc Roekaerts,
 10/12/2007

Annex XIII

Second Regional Meeting of Experts for the Development of the Emerald Network (CARDS programme) Zagreb, 1-2 October 2008

Summary Conclusions

- Representatives of the Emerald teams of 6 West-Balkan countries (AL, BA, HR, ME, MK and RS), met on 1 and 2 October 2008 in Zagreb together with the consultant of the Council of Europe and the representatives of the ETC/BD (European Environment Agency). See list of participants in annex.
- An overview of delivery obligations for 2008 was given. The tables and map in annex illustrate the progress up to date. It was also stressed, Emerald is more than a scientific program. It is leading to an officially adopted network of designated areas by the Standing Committee of the Bern Convention. Under the CARDS project, participating countries have also contractual obligations. As such, the Emerald process includes also a political commitment.
- Progress in data collection over the last year was mainly concentrating on the Emerald sites data base and the sites boundary layer, as shown through the presentation given by team members. As Croatia has made much progress through the approximation process towards EU (Natura2000), the results will be taken in to account for the finalization of Emerald project.
- The issue of including separate sub-sites within a larger area was discussed. There are no rules to be taken in to account for this type of inclusion. Expert judgment and an evaluation in relation to efficient site description, putting more emphasis on specific habitats (caves, small bogs etc ...), future site management, public awareness, fund raising, etc ... will have to be done.
- The interest of looking at trans-boundary sites between the 6 countries concerned was noted. In addition, participants repeated their interest in having access to N2000 data from the neighboring EU countries.
- Species population data and habitat extent on a country level is identified as the main gap. Moreover, it was agreed that this is the most difficult layer to collect. Future funds and work should be devoted to this important gap in necessary background data for the site selection and evaluation process.
- It was recognized that the reference list for each country concerning presence of species and habitats of the resolutions and annexes is of crucial value for the selection and evaluation of the proposed Emerald sites network. Vagrants and species, which are extinct since a certain time, can be left out of this reference list. Only species and habitats for which sites are to be selected should be mentioned. Reference lists will be revised accordingly before the final delivery of the data.

- Croatia informed the meeting on its proposal to amend the Biogeographical regions map by integrating the small Panonian border region with Hungary to Continental. This proposal is included in the approximation process to EU. The meeting accepted this change, as it is argued with sufficient scientific basis. Due to the scale of the map and its original purpose it is not recommended to do other smaller changes, as this would not influence the final result. After acceptance of the Croatian proposal in the approximation process, the Emerald map of Biogeographical Regions will be adapted accordingly.
- Site evaluation process:
 - The Ohrid meeting in 2006 stressed the importance of this evaluation process and the need for inside information and examples on a species and habitat level. The status of the data does not allow yet showing such examples for the whole of the West-Balkan Region. Such examples will be produced when final data have been delivered.
 - The representative of ETC/BD explained the process under the NATURA2000 network and showed a few examples from the evaluation of the N2000 sites in Bulgaria and Romania.
 - Participants repeated the necessity of such an evaluation process for the implementation of the emerald network.
 - Attention should be given to the fact that this process is very much resource demanding and time consuming; the participants stressed the need for future ongoing work for this evaluation process.
 - It was noted again that the evaluation of pSCI's is only based on scientific criteria. There are judgments of the European court of justice confirming this. Appropriate consultation with general public and stakeholders could be useful. Some countries have already started such consultation within the Emerald process in their country. The proposed N2000 sites network for Croatia is already online available for general consultation: www.natura2000.hr
- The representative of ETC/BD gave information on the status of the European Common Data Base on Designated Areas (ECDDA) within the West-Balkan countries. The link with the Emerald data base is through the list of designations types at national level to be used in common when describing the legal conservation status of a proposed Emerald site. Delivery procedures and obligations are different and mostly performed by other people within the country.
- Croatia informed the meeting on its proposals for amendments to the annexes of the Birds and Habitats Directives. The meeting was impressed by the degree of description and scientific basis for the suggested amendments. Noting the importance for the whole of the West-Balkan, the participants congratulated the Croatian team and would investigate the possibilities of officially endorsing the proposals. The participants also stressed again the need for amending the resolutions under the Bern Convention to accommodate for the specific biodiversity values in the Balkan.

- It was noted that the CARDS project is in its final phase and that the following delivery agenda should be strictly followed:
 - BA, HR and MK will deliver a new version of the sites data base and GIS boundary data layers by Friday 10 October, in order to allow analysis for the Emerald expert group meeting on 16 October
 - 10 November: final delivery of all data and report, including a revision of the presence of species and habitats within biogeographical regions and population filled according to the best available expert knowledge.
 - 26 November: report to the Standing Committee meeting
 - End of December: final delivery of report and data to the EEA by Council of Europe

- The participants thanked for the available funds under the CARDS project, which made it possible to elaborate the Emerald Network over the last years in the West-Balkan, but at the same time stressed that this can not be the final result and that much more still needs to be done, indicating the need for future funds for evaluating the network and additional inventory work to ensure the long-term survival of the species and the habitats of the resolutions and the annexes.

- Participants congratulated the Croatian authorities for the organization and hospitality during the meeting in Zagreb.

Marc Roekaerts
6/10/2008

Annex I

List of the national contacts responsible for the implementation of the CARDS/Emerald Programme

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