



Council of Europe
Conseil de l'Europe

Convention on the Conservation of European Wildlife and Natural Habitats

Ad-Hoc Restricted Group of Experts on Reporting on the Emerald Network

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Strasbourg
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Council of Europe
Conseil de l'Europe





Presentation Content

- ✓ **Results of all biogeographical evaluation Seminars**
- ✓ **Draft Reporting Format**
- ✓ **Selecting a subset of Species and Habitats for the first reporting exercise**



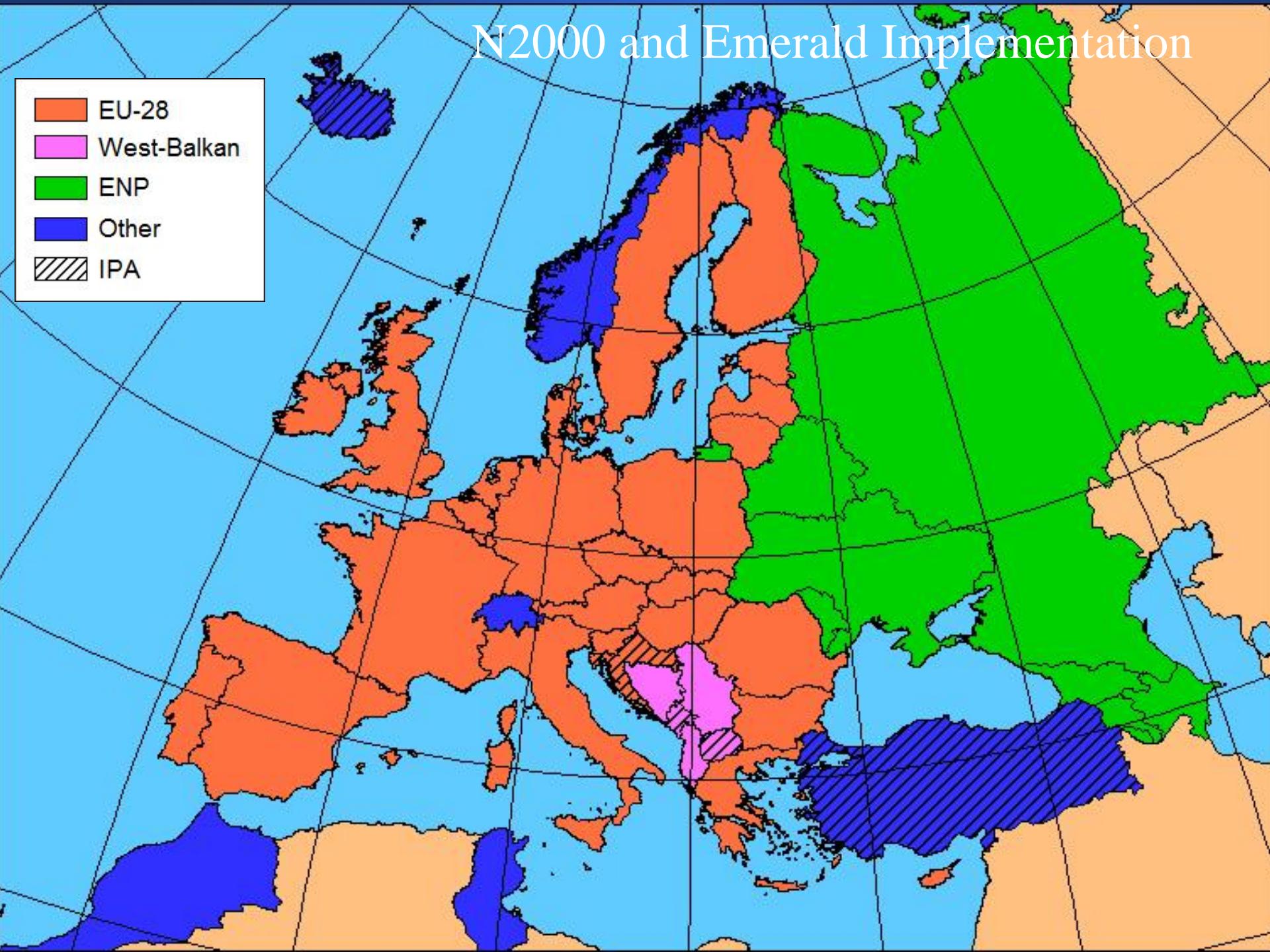


Results of all biogeographical evaluation Seminars

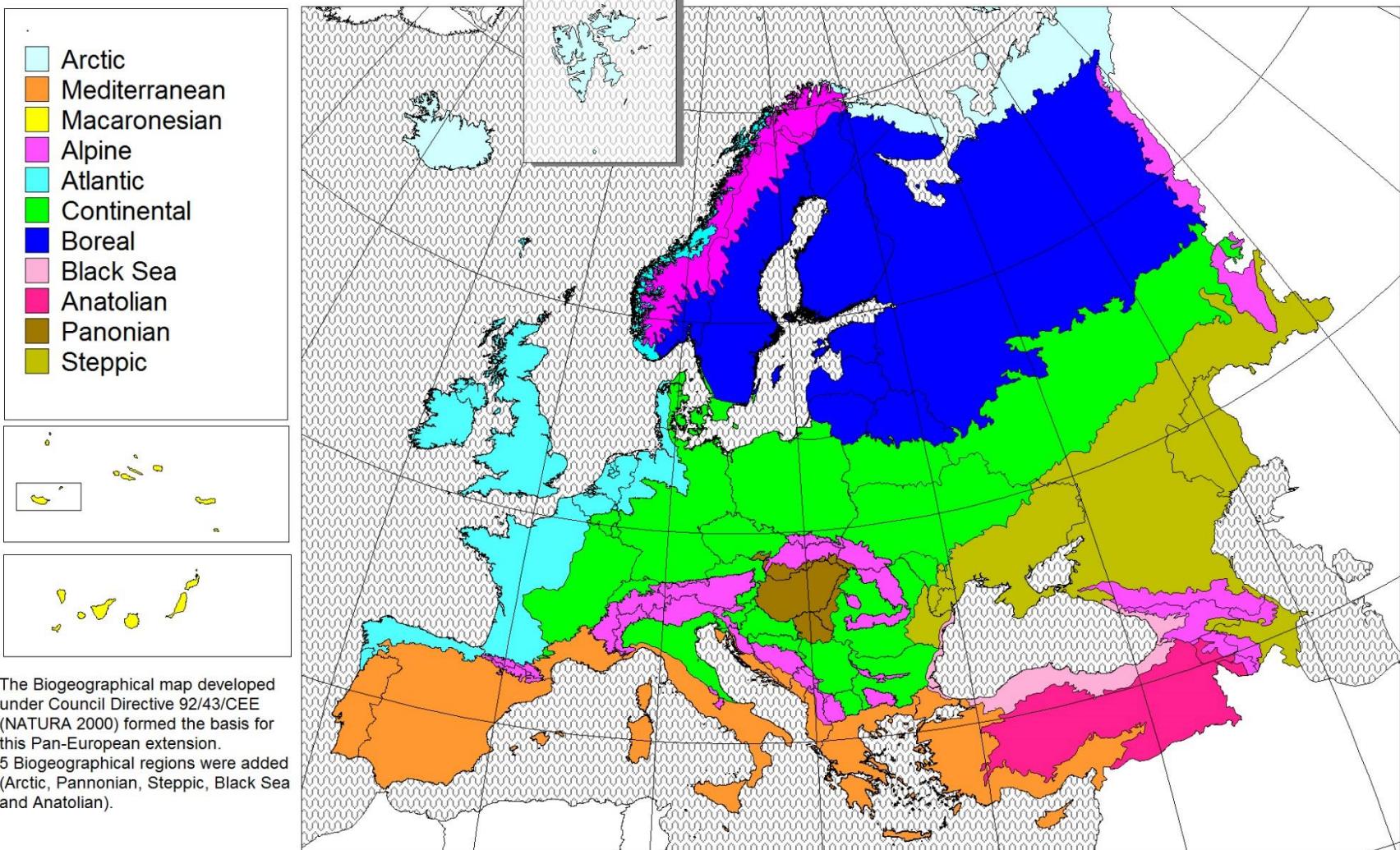
- ✓ **Consolidated version of countries
*Reference Lists***
- ✓ **Consolidated version of countries
*Conclusions Databases***



N2000 and Emerald Implementation

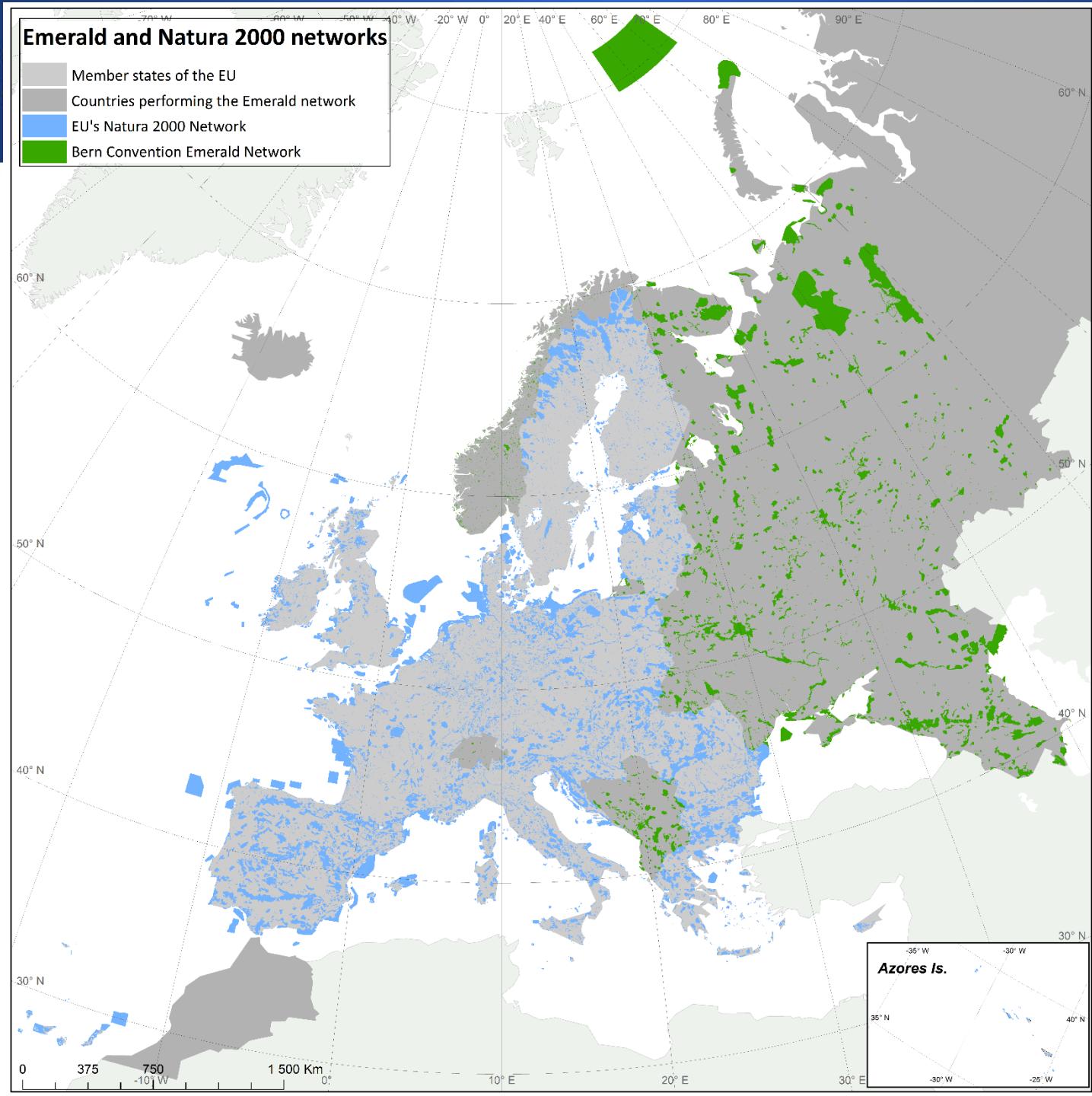


Emerald Network of Areas of Special Conservation Interest
Extention of the Biogeographical Regions map of NATURA 2000 to the European Continent
As endorsed by the Standing Committee of the Bern Convention 2010



Emerald and Natura 2000 networks

- Member states of the EU
- Countries performing the Emerald network
- EU's Natura 2000 Network
- Bern Convention Emerald Network





Emerald data overview 2016/02

Table name	AM	AZ	BY	GE	MD	RU	UA	Total 2015	Total 2014	Total 2011	Total 2010	Total 2009
Sites	21	16	119	49	36	1584	194	2019	1588	959	249	143
Amph./Rept.	28	46	79	104	68	344	439	1108	915	795	370	250
Birds	796	873	2171	809	426	8468	9525	23068	28171	16450	8770	5234
Fishes	29	43	186	29	6	443	830	1566	1330	1174	603	348
Habitats	204	43	1081	154	90	3751	2731	8054	4990	3849	1224	850
Invertebrates	34	26	126	276	51	663	1247	2423	1928	1254	670	357
Mammals	154	74	305	623	37	1293	664	3150	2501	1714	851	591
Plants	31	19	144	96	16	1442	417	2165	1716	1379	298	185



Emerald Network Evaluation Seminars

Year	Venue	Countries concerned	Biogeographical regions concerned	Species and Habitats covered
2011	Bar (Montenegro)	Albania, Bosnia and Herzegovina, Montenegro, Serbia, "the former Yugoslav republic of Macedonia	MED, ALP, CON, PAN	All
2012	Basel (Switzerland)	Switzerland	ALP, CON	All
2013	Trondheim (Norway)	Norway	ARC, ALP, ATL, BOR	All
2015	Tbilisi (Georgia)	Armenia, Azerbaijan, Georgia	STE, ALP-Caucasus, ANA	All (except birds)
2015	Petrozavodsk (the Russian Federation)	Belarus, Republic of Moldova, Russian Federation, Ukraine	ARC, BOR, ALP-Ural	All (except birds)
2015	Minsk (Belarus)	Belarus, Republic of Moldova, Russian Federation, Ukraine	n/a	Birds
2016	Chisinau (Republic of Moldova)	Belarus, Republic of Moldova, Russian Federation, Ukraine	CON, ALP-Car, PAN	All (except birds)
2016	Trondheim (Norway)	Norway	ARC, ALP, ATL, BOR	All (selection)
2016	Kiev (Ukraine)	Republic of Moldova, Russian Federation, Ukraine	STE, ALP-Caucasus, BLS	All (except birds)
2016	Tbilisi (Georgia)	Armenia, Azerbaijan, Georgia	n/a	Birds



Biogeographical Regions in Emerald Network country

Country code	Number of biogeographical regions
AL	2
AM	2
AZ	3
BA	3
BY	2
CH	2
GE	3
MD	2
ME	2
MK	2
NO	5
RS	3
RU	7
UA	4
TOTAL:	42



Coding of conclusions

Coding	Meaning	Action required
SUF	Sufficient	No further sites needed
IN MIN	Insufficient – minor	More sites required but habitat/species is present on sites already proposed for other habitats/species
IN MOD	Insufficient – moderate	One or a few additional sites (or maybe extension to sites) required.
IN MAJ	Insufficient- major	No sites proposed at present and a significant effort required
SR	Scientific Reserve	Further study required
CD	Correction of data	Data needs to be corrected / completed
Excl. Ref.	Exclude from Reference List	Habitat/Plant not or only very marginally occurring



QA/QC and data merging problems

- ✓ **Small differences in evaluation category codes over the seminars (first 2 seminars)**
- ✓ **Revision of Res. 4 and Res. 6**
- ✓ **Species listed at genus level in Res. 6 but evaluation at individual species level**
- ✓ **Last seminar did not yet happen; draft data merged with code “ND” (Not Discussed)**
- ✓ **West-Balkan seminar also with a number of species and habitats with code “ND”**



Revision of Res. 4 (2014): Balkan seminar Habitat codes at different level

CODE	Res4-2014	Res4-2014-title
C3.41	C3.4	Species-poor beds of low-growing water-fringing or amphibious vegetation
C3.421	C3.4	Species-poor beds of low-growing water-fringing or amphibious vegetation
C3.431	C3.4	Species-poor beds of low-growing water-fringing or amphibious vegetation
C3.511	C3.51	Euro-Siberian dwarf annual amphibious swards (but excluding C3.5131 Toad-rush swards)
C3.5132	C3.51	Euro-Siberian dwarf annual amphibious swards (but excluding C3.5131 Toad-rush swards)
C3.5133	C3.51	Euro-Siberian dwarf annual amphibious swards (but excluding C3.5131 Toad-rush swards)
E1.112	E1.11	Euro-Siberian rock debris swards
E2.25	E2.2	Low and medium altitude hay meadows
E5.4111	E5.4	Moist or wet tall-herb and fern fringes and meadows



Revision of Res. 4 (2014): Switzerland

CODE	HABITAT_TITLE	RES4-2014
C1.44	Charophyte submerged carpets in dystrophic waterbodies	C1.4
C3.41	Euro-Siberian perennial amphibious communities	C3.4
C3.511	Freshwater dwarf [Eleocharis] communities	C3.51
C3.5132	Swards of small [Cyperus] species	C3.51
C3.5133	Wet ground dwarf herb communities	C3.51
E1.112	[Sempervivum] or [Jovibarba] communities on rock debris	E1.11

Revision of Res. 4 (2014): Norway

CODE	title	RES4-2014
C3.41	Euro-Siberian perennial amphibious communities	C3.4
C3.511	Freshwater dwarf Eleocharis communities	C3.51



QA/QC and data merging problems

- ✓ **For the Reference List, all Habitat codes changed to Res. 4 version 2014**
- ✓ **For the Conclusions Database, no changes made as the comments may refer to specific issues related to the previous code**
- ✓ **For the Sites Database, no changes made; remains the responsibility of the Countries !**



Reference List: Results, BIRDS

	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
A001	X		ND			X	ND	X	X	X	X	SR REF	X	X
A002	X		ND		X	X	ND	X	X	X	X	SR REF	X	X
A003											X			
A007	X		ND	SR REF					X	SR REF	X		X	X
A010	X									SR REF				
A014												X		
A015												X		
A019		ND	ND					X		X			X	X
A020	X	ND	ND					X	X	X			X	X
A021	X	ND	ND	X	X	X		X	X	X		X	X	X
A022	X	ND	ND	X	X	X	ND	X	X	X		X	X	X
A023	X	ND	ND	X	X			X	X	X		X	X	X
A024	X	ND	ND	X				X	X	X		X	X	X
A026	X	ND	ND	X			ND	X	X	X		X	X	X



BIRDS: Number of species per country

country	Number of Res. 6 Species in Reference List
RU	137
AZ	122
UA	112
AM	108
AL	108
MK	103
RS	98
ME	98
BA	92
MD	80
BY	72
NO	56
GE	53
CH	49



BIRDS: Number of countries per species

CODE	Species	Number of countries
A246	<i>Lullula arborea</i>	14
A307	<i>Sylvia nisoria</i>	14
A338	<i>Lanius collurio</i>	14
A379	<i>Emberiza hortulana</i>	14
A022	<i>Ixobrychus minutus</i>	13
A068	<i>Mergus albellus</i>	13
A072	<i>Pernis apivorus</i>	13
A081	<i>Circus aeruginosus</i>	13
A082	<i>Circus cyaneus</i>	13



BIRDS: Number of species per country-count

Number of Species	Occuring in nr of countries
8	14
14	13
19	12
15	11
17	10
7	9
9	8
7	7
15	6
13	5
6	4
7	3
11	2
25	1



Reference List: Results, HABITATS

CODE	AL-ALP	AL-MED	AM-ALP	AM-ANA	AZ-ALP	AZ-ANA	AZ-STE	BA-ALP	BA-CON	BA-MED	BY-BOR	BY-CON	CH-ALP	CH-CON
C1.222	SR REF	X							X		X	X	X	X
C1.223									X		X	X		
C1.224	X	X	X					SR REF	X	SR REF	X	X	X	X
C1.225	SR REF	X	X		X	SR REF			X	SR REF		X		
C1.226	SR REF											X		
C1.2416							SR REF							
C1.25	SR REF	SR REF							SR REF		X	X	X	X
C1.32												X		
C1.33												X		
C1.3411	X	X						X	X	X	X	SR REF		X



Presence of HABITATS: number of biogeographical regions

CODE	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA	
C1.1	2	1	2	3	1	2	1		2	1	4	2	6	2	
C1.222	2				1	2	2		2	1	2		2	4	3
C1.223					1	2			2				2	4	3
C1.224	2	1		3	2	2	2	2	2	2		3	6	3	
C1.225	2	1	2	2	1		2	1		2		2	4	3	
C1.226	1				1			1		2		2	2	2	
C1.2416				1										1	
C1.25	2				1	2	2		1	2	2		2	5	4
C1.32						1			2					3	4
C1.33						1			2					3	4
C1.3411	2				3	2	1		1	2	2		3	4	3
C1.3413					2	1	2		1				2	3	3



Habitats: Number of countries per habitat

CODE	HABITAT_TITLE	CountOfcountry
E3.5	Moist or wet oligotrophic grassland	14
G1.A4	Ravine and slope woodland	14
D4.1	Rich fens, including eutrophic tall-herb fens and calcareous flushes and soaks	14
H1	Terrestrial underground caves, cave systems, passages and waterbodies	13
C1.1	Permanent oligotrophic lakes, ponds and pools	13
C3.4	Species-poor beds of low-growing water-fringing or amphibious vegetation	13
G1.11	Riverine Salix woodland	13



HABITATS: Number of habitats per country-count

Number of Habitats	CountOfcountry
3	14
9	13
4	12
3	11
9	10
6	9
7	8
10	7
5	6
14	5
18	4
9	3
41	2
31	1



43 Res. 4 HABITATS without any reference in any country

CODE	TITLE
B1.9	Machair
B3.24	Unvegetated Baltic rocky shores and cliffs
C1.24113	Transylvanian hot-spring lotus beds
D6.23	Interior Iberian salt pan meadows
E1.55	Eastern sub-Mediterranean dry grassland
E2.15	Macaronesian mesic grassland
E3.3	Sub-mediterranean humid meadows
E7.3	Dehesa
F2.32	Subalpine and oroboreal Salix brush
F2.336	Rhodope Potentilla fruticosa thickets
F2.41	Inner Alpine Pinus mugo scrub
F2.42	Outer Alpine Pinus mugo scrub
F2.43	Southwestern Pinus mugo scrub
F2.44	Apennine Pinus mugo scrub
F2.45	Hercynian Pinus mugo scrub
F3.12	Buxus sempervirens thickets
F3.21	Montane Cytisus purgans fields
F3.245	Eastern Mediterranean deciduous thickets



CONCLUSIONS DATABASE: BIRDS (11 countries)

CODE	AL	BA	BY	CH	MD	ME	MK	NO	RS	RU	UA
A001	SUF	EXCL REF	EXCL REF	X	IN MOD	SUF	IN MIN	IN MOD	SR Ref	IN MOD/SR	SUF/CD
A002	SUF	EXCL REF	IN MOD	X	IN MOD	SUF/CD	SUF	IN MOD	SR Ref	IN MIN/IN MOD	SUF/CD
A003	EXCL REF	EXCL REF		EXCL REF/CD		EXCL REF/CD	EXCL REF	IN MOD	EXCL REF		
A007	SUF	SR Ref	EXCL REF	EXCL REF		IN MIN	SR Ref	IN MOD	EXCL REF	IN MIN/IN MOD	SUF
A010	SR	EXCL REF				SR Ref	EXCL REF		EXCL REF		
A014								SUF/CD			
A015								SUF/CD			
A019	EXCL REF	EXCL REF			IN MIN	EXCL REF	SUF/CD		EXCL REF	IN MOD	SUF



CONCLUSIONS DATABASE: BIRDS (11 countries)

concl-fin	CountOfSPECIES_CODE
EXCL REF	209
EXCL REF/CD	9
IN MAJ	23
IN MIN	64
IN MIN/CD	23
IN MIN/IN MAJ	3
IN MIN/IN MOD	31
IN MIN/IN MOD/CD	17
IN MIN/MOD	1
IN MIN/SR	1
IN MOD	270
IN MOD/CD	65
IN MOD/IN MIN	2
IN MOD/SR	1
ND	207
R	1
SR	53
SR Ref	50
SR/CD	2
SUF	142
SUF/CD	41
SUF/SR	2
X	43



Total number of Species and Habitats present in at least 1 of the countries concerned

Taxonomic group	N° of species listed in Res No. 6 (1998)	N° of species from Res No. 6 (1998) present in 14 countries	N° in biogeographic regions
Amphibians	29	9	89
Fish	84	51	396
Invertebrates	136	75	738
Mammals	65	45	546
Reptiles	31	13	126
Plants (excl. 121 species for MAC)	563	140	581
Subtotal:	908	333	2476
Birds	207	173	173
Habitats (Res. 4 (1996))	212	169	1755
Total:	1327	675	4404



Questions ?





Third draft reporting format on Rec. No.16 (1989) and Res. No.5 (1998)

[T-PVS/PA(2016)6]

Presentation of the format



Third Draft Reporting format

- ✓ To take into account the latest developments under EU Directives Art. 17 and Art. 12 reporting format

- ✓ For Bern Convention: merging all reporting obligations in one format, including Birds



Third draft reporting format on Rec. No.16 (1989) and Res. No.5 (1998)

- **4 main parts (annex A, B, D and F)**
- **2 parts on definition of Conservation Status for species and habitats (annex C and E)**



Annex A – General reporting format

- 1. Main achievements**
- 2. General information sources**
- 3. Emerald Network – site designations**
- 4. Management measures**
- 5. Approval of plans and projects**
- 6. Coherence of the Emerald Network**
- 7. Birds: Research**
- 8. Birds: Non-native Bird species**





Annex B – Res. 6 Species

Annex D – Res. 4 Habitats

- 1. National level**
- 2. Biogeographical level**
- 3. Emerald Network – coverage**



National Level	
1. General Information	
1.1 Country	Use two digit code according to list in the Reference Portal
1.2 Species code and name	
1.2.1 Species code	Select code from species checklist in the Reference Portal
1.2.2 Species scientific name	Select name from species checklist in the Reference Portal
1.3 Alternative species scientific name Optional	Scientific name used at national level if different to 0.2.2
1.4 Common name Optional	In national language



2. Maps

Distribution of the species within the country concerned

2.1. Sensitive species	The information provided relates to a species (or subspecies) to be treated as 'sensitive' YES/NO <small>(see the definition of a sensitive species in the Explanatory Notes and Guidelines)</small>
2.2. Year or period	Year or period when distribution data was collected
2.3. Distribution map	Submit a map together with relevant metadata following the technical specifications in the Explanatory Notes and Guidelines. The standard for species distribution is 10x10km ETRS grid cells, projection (for West-Europe: ETRS LAEA 5210; for East- and Central Europe an adapted projection needs to be defined)
2.4. Method used	3 = Complete survey or a statistically robust estimate 2 = Based mainly on extrapolation from a limited amount of data 1 = Based mainly on expert opinion with very limited data 0 = Insufficient or no data available
2.5 Additional map Optional	Country can submit an additional map, deviating from standard submission map under 2.3. and/or a range map if they wish





Biogeographical Level

Complete for each biogeographical region or marine region concerned

3. Biogeographical and marine regions

3.1 Biogeographical region or marine region where the species occurs

Choose one of the following: Alpine (ALP), Arctic (ARC), Atlantic (ATL), Black Sea (BLS), Boreal (BOR), Continental (CON), Mediterranean (MED), Macaronesian (MAC), Pannonian (PAN), Steppic (STE), Marine Atlantic (MATL), Marine Mediterranean (MMED), Marine Black Sea (MBLS), Marine Caspian (MCAS), Marine Macaronesian (MMAC) and Marine Baltic Sea (MBAL), Marine Arctic (MARC)

3.2 Sources of Information

For data reported in the sections below provide relevant available bibliographic references and/or link to Internet site(s).



3. Emerald Network coverage & conservation measures *on biogeographical level*

3.1 Population

3.2 Conservation measures





General evaluation matrix (per biogeographical region within a country): Annex C and E

Parameter	Conservation Status			
	Favourable ('green')	Unfavourable - Inadequate ('amber')	Unfavourable - Bad ('red')	<i>Unknown (insufficient information to make an assessment)</i>
Range	Stable (loss and expansion in balance) or increasing <u>AND</u> not smaller than the 'favourable reference range'	Any other combination	Large decline: Equivalent to a loss of more than 1% per year within period specified by the country OR more than 10% below favourable reference range	<i>No or insufficient reliable information available</i>

Overall assessment of CS	All 'green' OR three 'green' and one 'unknown'	One or more 'amber' but no 'red'	One or more 'red'	Two or more 'unknown' combined with green or all "unknown"
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Third draft reporting format on Rec. No.16 (1989) and Res. No.5 (1998)

Questions

1. Discuss the format in general, followed by details
2. Discuss the possibility of making more fields optional for the first reporting round **OR** keep the form intact and keep the work load reasonable by carefully define the number of species and habitats selected for reporting.



Let's discuss !





Selecting a subset of Species and Habitats for the first reporting exercise (2013-2018)

Criteria as agreed in 2015

- ✓ the presence of the species and habitats in as many countries concerned as possible
- ✓ priority to be given to Red Listed species;
- ✓ species/habitats with declared unfavorable conservation status in the EU Natura 2000 Network
- ✓ In addition, a few species and habitats with limited distribution



Total number of Species and Habitats present in at least 1 of the countries concerned

Taxonomic group	N° of species listed in Res No. 6 (1998)	N° of species from Res No. 6 (1998) present in 14 countries	N° in biogeо regions
Amphibians	29	9	89
Fish	84	51	396
Invertebrates	136	75	738
Mammals	65	45	546
Reptiles	31	13	126
Plants (excl. 121 species for MAC)	563	140	581
Subtotal:	908	333	2476
Birds	207	173	173
Habitats (Res. 4 (1996))	212	169	1755
Total:	1327	675	4404



Quantifying the number of species and habitats to report on

	TOTAL	Animals	Birds	Plants	Habitats
Very Low	25	10	10	2	3
Low	50	20	20	5	5
Medium	75	26	35	7	7
High	100	30	50	10	10



Number of Species and Habitats according to consolidated Reference List

nr-countries	Animals	Birds	Plants	Habitats
14	2	8		3
13	9	14		9
12	5	19	1	4
11	8	15	1	3
10	6	17		9
9	4	7	3	6
8	4	9	2	7
7	8	7	2	10
6	16	15	3	5
5	21	13	8	14
4	23	6	3	18
3	19	7	16	9
2	26	11	38	41
1	42	25	63	31
selection:	38	50	20	"19+1



CODE	nr-countries	nr-biogeo	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
B1.6	6	10	1		1				1		1				5	1
C1.1	13	29	2	1	2	3	1	2	1		2	1	4	2	6	2
C1.224	12	30	2	1		3	2	2	2	2	2	2		3	6	3
C1.225	11	22	2	1	2	2	1		2	1		2		2	4	3
C3.4	13	32	1	2	2	3	2	2	3		2	2	3	2	5	3
C3.55	11	30	2	2	3		2	2	3		2	2		3	6	3
C3.62	11	25	2	2	1		2	2	1		2	2		2	6	3
D4.1	14	36	2	2	3	2	2	2	2	2	2	2	4	2	7	2
E1.2	13	33	2	2	2	3	2	2	2	2	2	2		3	5	4
E1.71	12	25		2	3	1	2	2	3		1	2	3	2	2	2
E3.4	13	34	1	2	3	3	2	2	2	2	2	2		3	6	4
E3.5	14	30	2	1	2	2	2	2	2	1	2	2	3	3	4	2
F9.1	12	32	2	2	3	2	2	2	1		2	2		3	7	4
G1.11	13	37	2	2	3	3	2	2	3	2	2	2		3	7	4
G1.12	12	25	1		1	1	1	2	2		1	2	4	2	6	2
G1.21	13	35	2		2	3	2	2	3	2	2	2	2	3	6	4
G1.6	13	29	2	1	2	3		2	2	1	2	2	2	3	3	4
G1.A1	13	34	2	1	3	3	2	2	2	2	3	2		3	5	4
G1.A4	14	35	2	1	2	3	2	2	2	1	3	2	3	3	6	3
H1	13	39	2	2	3	3		2	3	2	2	2	4	3	7	4
			34	27	43	43	31	36	42	20	37	37	32	50	109	61



CODE	SPECNAME	nr-countries	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
A001	<i>Gavia stellata</i>	11	X		ND			X	ND	X	X	X	X	REF	X	X
A002	<i>Gavia arctica</i>	12	X		ND		X	X	ND	X	X	X	X	REF	X	X
A021	<i>Botaurus stellaris</i>	12	X	ND	ND	X	X	X		X	X	X			X	X
A022	<i>Ixobrychus minutus</i>	13	X	ND	ND	X	X	X	ND	X	X	X			X	X
A023	<i>Nycticorax nycticorax</i>	11	X	ND	ND	X	X			X	X	X			X	X
A026	<i>Egretta garzetta</i>	11	X	ND	ND	X			ND	X	X	X			X	X
A029	<i>Ardea purpurea</i>	11	X	ND	ND	X		X		X	X	X			X	X
A030	<i>Ciconia nigra</i>	11	X	ND	ND	X	X			X	X	X			X	X
A031	<i>Ciconia ciconia</i>	12	X	ND	ND	X	X	X		X	REF	X			X	X
A060	<i>Aythya nyroca</i>	12	X	ND	ND	X	X	X		X	X	X			X	X
A320	<i>Ficedula parva</i>	12	ND	ND	ND	ND	X		ND	X	ND	ND			ND	X
A321	<i>Ficedula albicollis</i>	12	ND	ND	ND	X	X	ND	X	ND	ND				ND	X
A338	<i>Lanius collurio</i>	14	ND	ND	ND	ND	X	X	ND	X	ND	ND	X		ND	X
A339	<i>Lanius minor</i>	12	ND	ND	ND	ND	X		ND	X	ND	ND			ND	X
															
A403	<i>Buteo rufinus</i>	11	ND	ND	ND	ND			ND	X	ND	ND			ND	X
A429	<i>Dendrocopos syriacus</i>	11	ND	ND	ND	ND	X			X	ND	ND			ND	X
A511	<i>Falco cherrug</i>	11	ND	ND	ND	ND			ND	X	ND	ND			ND	X
	TOTAL reporting units:		54	51	56	54	49	34	31	54	53	55	28	56	56	56



CODE	PLANT	nr-countries	total nr-bioge	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
1393	Drepanocladus vernicosus	12	21	1	1	1	2	2	2	1	1	1	1	3	1	4	2
1428	Marsilea quadrifolia	11	19	1		1	3		2	1	1	2	2		2	1	3
1386	Buxbaumia viridis	9	12	1			1			1		1	1	3	1	1	2
1516	Aldrovanda vesiculosa	9	15	1				2		1	1	2	1		2	3	2
1902	Cypripedium calceolus	9	19				1	2	2		1	1		3	1	5	3
1381	Dicranum viride	8	15				1	2		1		1		3	2	3	2
1389	Meesia longiseta	8	15		1	1	3	2		1				2	4	1	
1528	Saxifraga hirculus	7	11		1	1		1	1					2	4	1	
1617	Angelica palustris	7	12	1				2				1	1		1	4	2
2098	Paeonia tenuifolia	6	13		1	3				2					1	4	2
2303	Narcissus angustifolius	6	11	2			2					2	1		2		2
4067	Echium russicum	6	12		2	3				1	1				3	2	
	Dracocephalum austriacum																
1689		5	7		2	1			1	2							1
1758	Ligularia sibirica	5	12		2	2				2						4	2
1832	Caldesia parnassifolia	5	5	1				1	1			1				1	
1903	Liparis loeselii	5	11					2	2					1		4	2
1939	Agrimonia pilosa	5	12					2		2	1					5	2
2292	Fritillaria montana	5	10				3					2	1		3		1
2333	Steveniella satyrioides	5	8		1	1				2						3	1
4093	Rhododendron luteum	5	8			1		1		2						3	1
	TOTAL reporting units:			7	11	15	15	19	11	20	5	14	8	17	16	56	34

TAX	CODE	SPECIES	nr-countries	nr-biogeo	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
A	1193	Bombina variegata	8	18	2			3		2		1	2	2		3		3
A	1166	Triturus cristatus	8	21	2				2	2		2		2	2	2	5	4
F	1134	Rhodeus sericeus amarus	13	27	2	1	1	3	2	2	1	2	1	2	2	4	4	
F	1130	Aspius aspius	12	23		2	1	1	2		2	2	1	1	1	2	4	4
F	1146	Sabanejewia aurata	11	22		2	1	1	1		2	2	1	2		3	3	4
F	1163	Cottus gobio	10	24				2	2	2		1	2	2	2	3	5	3
F	1149	Cobitis taenia	10	25	2			3	2	2		1	2	2		3	5	3
I	1014	Vertigo angustior	14	28	2	1	1	3	2	1	2	1	2	2	2	3	3	3
I	1083	Lucanus cervus	13	30	2		2	3	1	1	1	2	2	2	1	3	6	4
I	1016	Vertigo moulinsiana	13	24	2	1	1	3	2	2	1	1	2	2		3	3	1
I	1060	Lycaena dispar	13	35	2	2	3	3	2	1	3	2	2	2		3	6	4
I	1042	Leucorrhinia pectoralis	13	30	2	1		3	2	1	3	1	2	2	2	3	5	3
I	1088	Cerambyx cerdo	13	29	2	2	2	3	1	1	2	1	2	2		3	4	4
I	1078	Callimorpha quadripunctaria	12	31	2	2	2	3		1	3	2	2	2		3	5	4
I	1087	Rosalia alpina	11	28	2	1	3	3			2	1	2	2		3	5	4
I	1037	Ophiogomphus cecilia	10	24	2			3	2	1		1	2	2		3	5	3
I	1082	Graphoderus bilineatus	10	24	2			3	2	1			2	2	2	3	4	3
I	1084	Osmoderma eremita	10	23	2			3	2			2	2	2	1	3	4	2
I	1052	Hypodryas maturna	9	24	1			3	2			2	2	1		3	6	4
I	1065	Euphydryas aurinia	9	23	1			3	2	2			2	2		3	5	3
I	1032	Unio crassus	9	21	2			3	2			1	2	2		3	3	3
I	1089	Morimus funereus	8	16	2			3		1		2	2	2		3		1
M	1352	Canis lupus	14	39	2	2	3	3	2	2	3	1	2	2	4	3	7	3
M	1355	Lutra lutra	13	39	2	2	3	3	2		3	2	2	2	4	3	7	4
M	1361	Lynx lynx	13	33	1	2	3	2	2	2	3		2	1	4	3	6	2
M	1308	Barbastella barbastellus	12	24		1	2	2	2	1	3	2	1	1		2	3	4
M	1303	Rhinolophus hipposideros	12	29	2	2	3	3		1	3	2	2	2		2	3	4
M	1307																
M	1307	Myotis blythii	11	28	2	2	3	2			3	2	2	2		3	3	4
M	1310	Miniopterus schreibersi	10	25	2	2	3	3			3		2	2		3	3	2
M	1305	Rhinolophus euryale	9	17	2	2	1	3			2		2	2		2	1	
M	1324	Myotis myotis	8	18	2			3		1		2	2	2		3		3
R	1220	Emys orbicularis	13	33	2	1	2	3	2	1	3	2	2	2		3	6	4
R	1298	Vipera ursinii	11	21	2	2	3	2			1	2	2	1		1	3	2
R	1279	Elaphe quatuorlineata	11	20	2	2	3	2			1	2	2	2		1	2	1
		TOTAL reporting units:			62	40	52	98	45	32	59	50	68	63	29	101	148	115

Thank you for your attention



EMERALD SUMMIT