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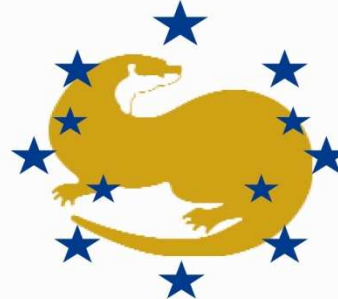
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EU/CoE Joint Programme Emerald Network Phase II

Kick-off meeting, Kiev, 24-26 April 2013



**Convention de Berne
Bern Convention**



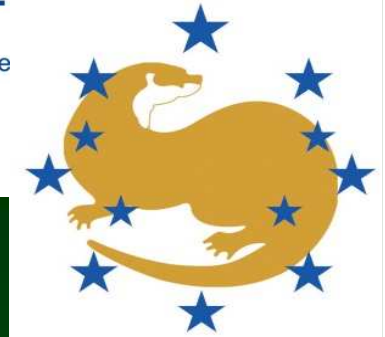
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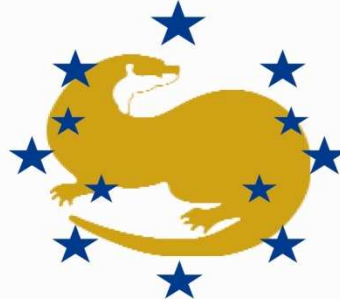
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NATURA2000 (EU) – Emerald (CoE) the largest harmonized network of Conservation Areas in the World with a very precise goal



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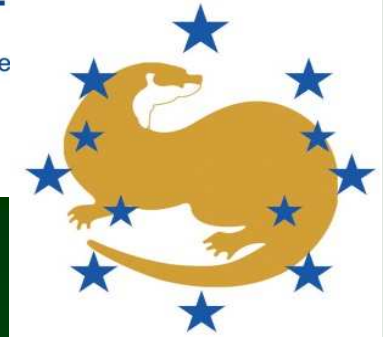
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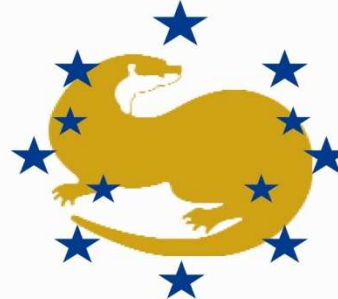
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Biodiversity Conservation in general
and more specifically
“Long Term Survival of the listed Species and
Habitats (favourable conservation status)”



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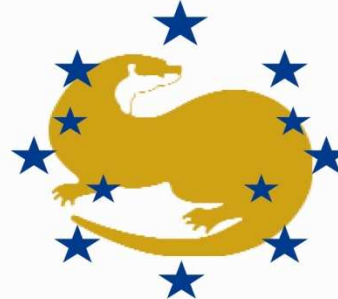
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QA/QC of 2011 Emerald Database with a view of implementing Phase II



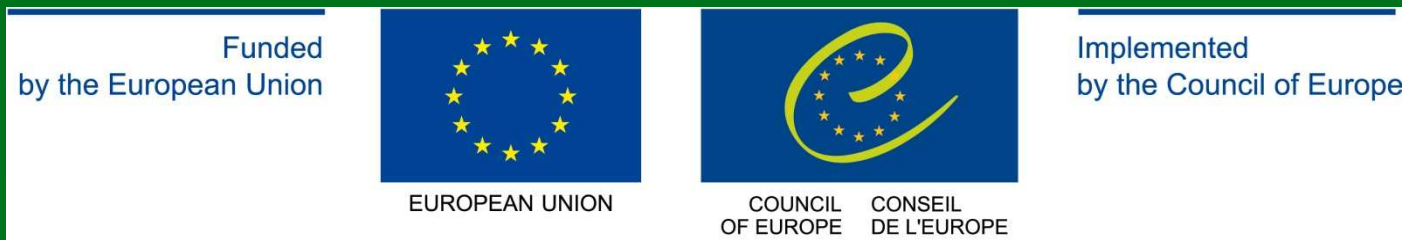
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Emerald Phase I in ENP region 2009-2011

- Sites: - data base: x % of potential sites
 - GIS boundary data for sites
- Species/habitats: population data at national level presence within Biogeo regions
- GIS distribution data for a selection of species and habitats



Final Results 2011

Site Statistics

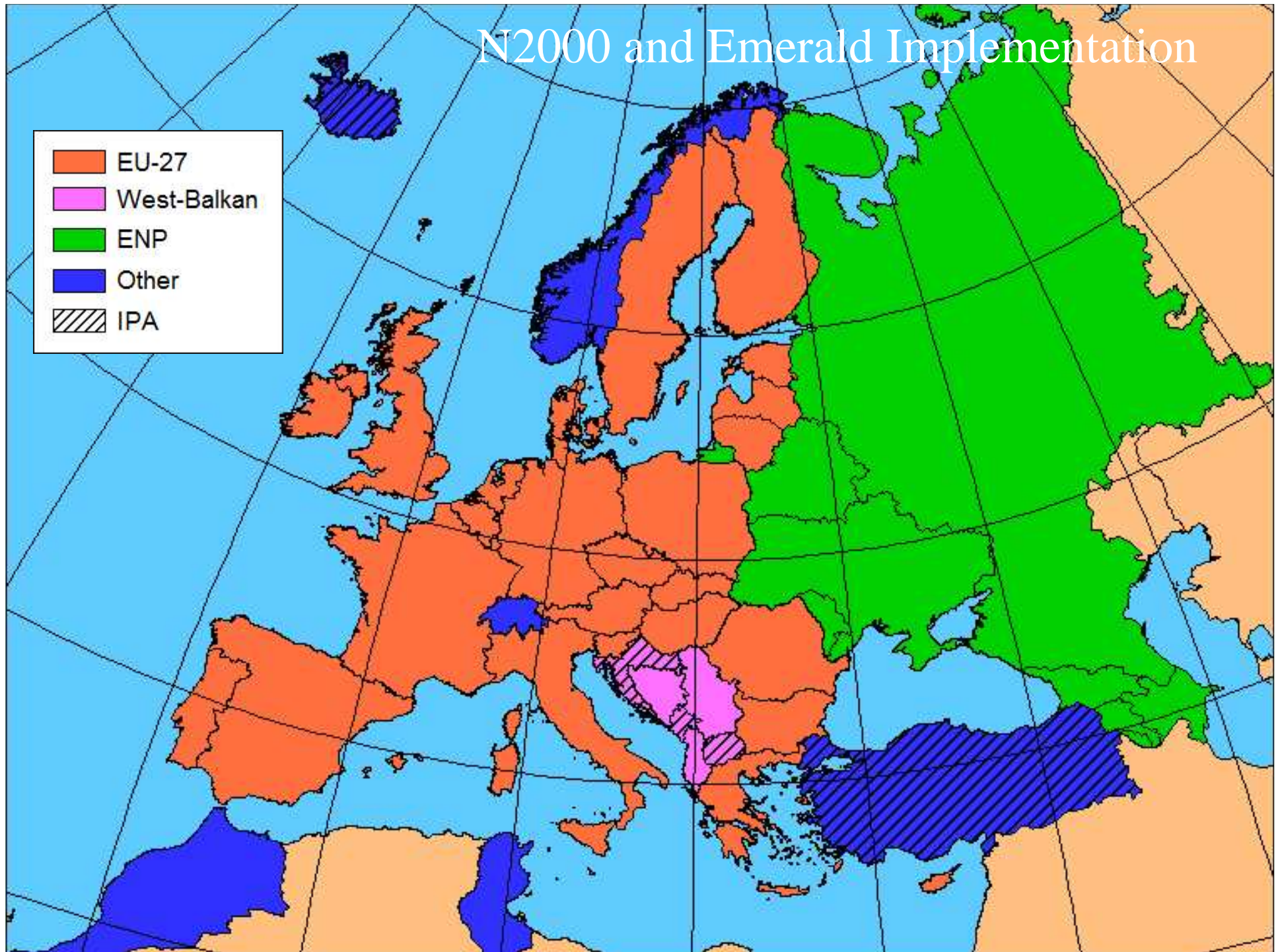
Number of sites and total area

Country	Number	Total AREA (ha)	% country coverage
Armenia	9	228 814,28	7,68
Azerbaijan	10	997 015,42	11,46
Belarus	12	912 241,00	4,39
Georgia	20	586 831,50	8,42
Moldova	17	414 230,00	12,24
Russia	740	28 269 014,30	7,13
Ukraine	151	4 329 081,61	7,20
Total:	959	35 737 228,11	7,15

The Emerald Network Coverage (2012)

Country	Number of sites	Total AREA (ha)	% country coverage
Albania¹	25	522 430,00	18,20
Armenia²	9	228 814,28	7,68
Azerbaijan²	10	992 515,42	11,46
Belarus²	12	912 241,00	4,39
Bosnia-Herzegovina¹	29	250 455,00	4,90
Croatia^{1,4}	957	2 666 762,00	38,70
FYR of Macedonia¹	35	754 383,00	29,30
Georgia²	20	586 831,50	8,42
Moldova²	17	414 230,00	12,24
Montenegro¹	32	240 077,00	17,10
Morocco³	11	572 820,00	1,28
Norway³	93	3 350 369,00	8,69
Russia²	740	28 225 414,30	7,13
Serbia¹	61	1 021 078,00	11,60
Switzerland³	37	64 216,00	1,55
Ukraine²	151	4 329 081,61	7,20

N2000 and Emerald Implementation



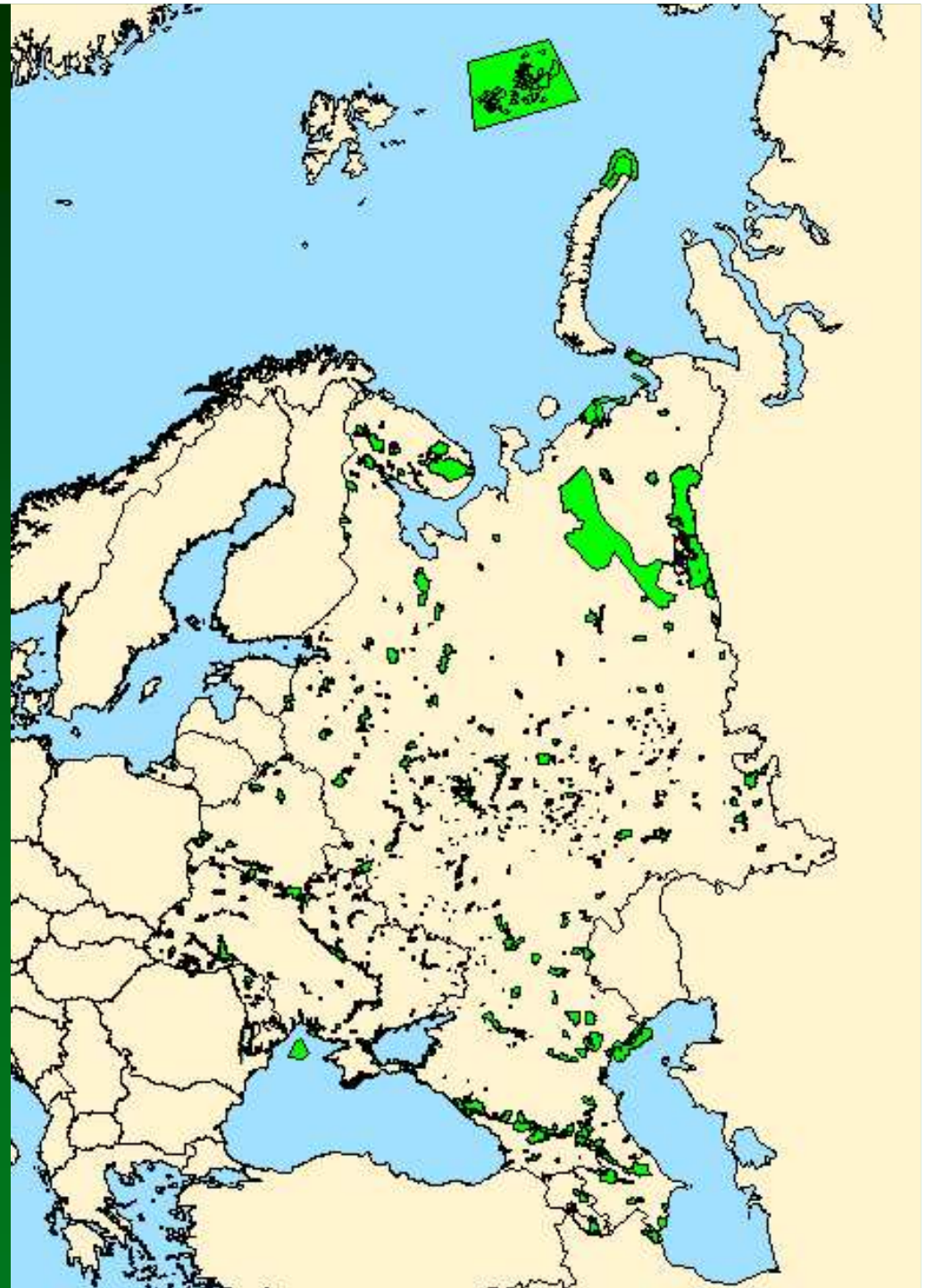
Results 2011

number of species and habitats / country

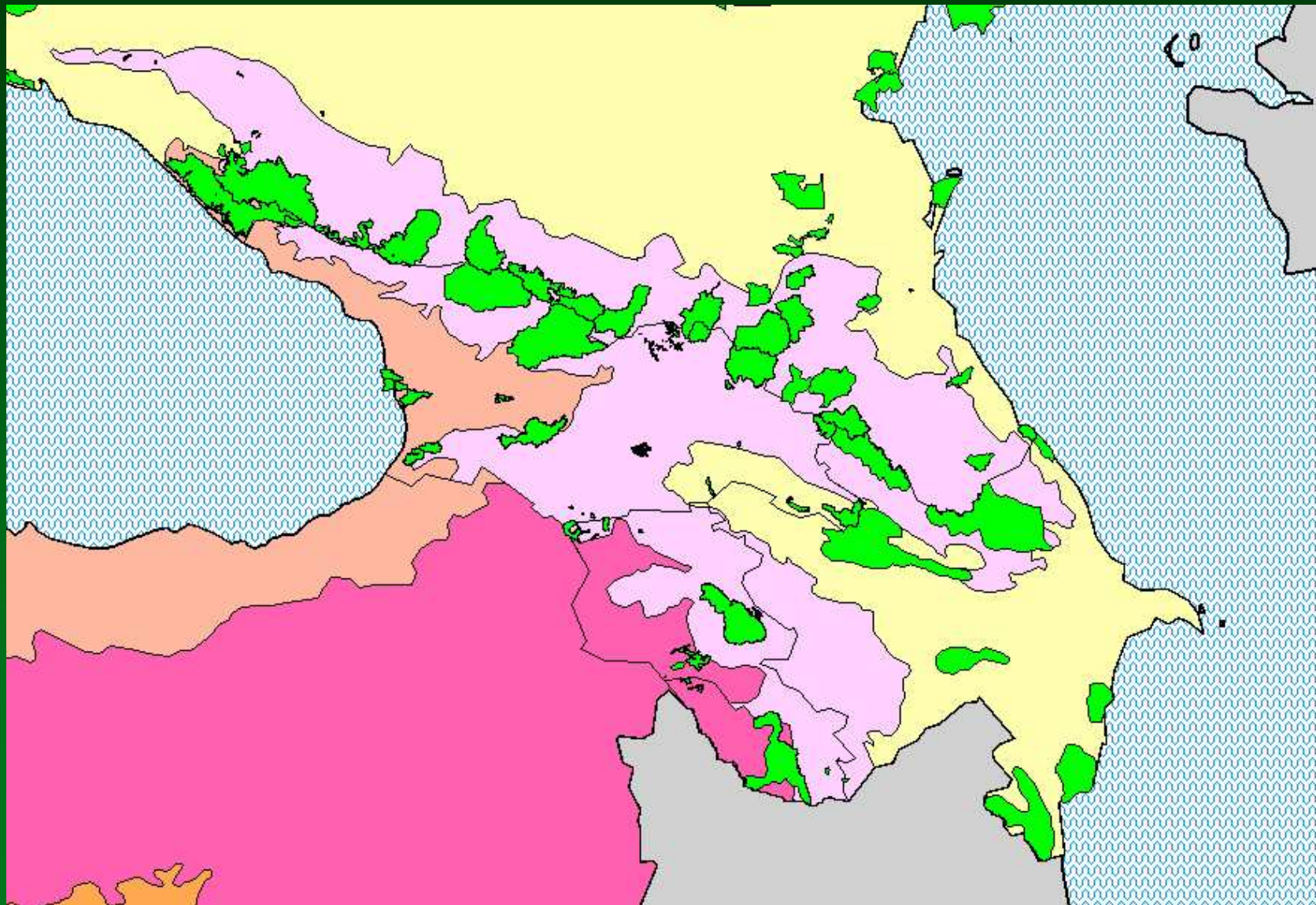
Total	Taxonomic group	AM	AZ	GE	BY	MD	RU	UA
683	Plants	7	10	12	19	10	90	49
29	Amphibians	1	1	1	2	3	3	4
208	Birds	118	119	112	73	51	146	110
79	Fish	5	8	2	12	3	19	17
138	Invertebrates	5	8	10	24	3	60	25
63	Mammals	15	17	18	12	10	35	23
30	Reptiles	4	5	5	1	3	6	4
	Species Total:	155	168	160	143	83	359	232
181	Habitats, Res. 4	10	18	16	32	19	93	98

* Total number of species or habitats within the annexes and resolutions

Site Boundaries (2011)



GIS site boundaries Caucasus



QA/QC – Why ?

- Crucial for the analysis i.f.o. phase II
- Strength of a data base is the strength of the weakest record
- Analysis will be done at a species by species and habitat by habitat level
- All the individual data records for each species and habitat are in need of high quality !
- Phase II: Geographical approach within each Biogeographical Region: GIS should be correct

QA/QC- summary

BIOTOP	
sitecode	correct form?
area	provided? as number?
location	provided? correct form?
biogeo. regions	provided?

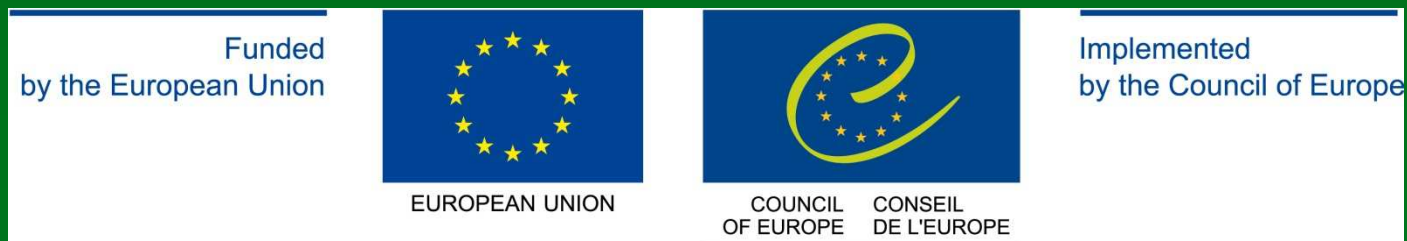
GIS	
shapefile	provided?
projection file	provided?
sitecode	provided? matching the DB?
biogeo. regions	matching the DB?

HABITAT1	
sitecode	matching the DB?
habitat code	correct?
coverage	provided? correct form?
evaluations	provided? correct form?

SPECIES	
sitecode	matching the DB?
species number	correct?
species name	correct?
	matching the species number?
population size	provided? correct form?
evaluations	provided? correct form?

QA/QC – Country Reports

- Report for each country to guide the teams through quality control of the Sites Database (2011)
- QA/QC Follow-up will be an important issue for the individual country workshops



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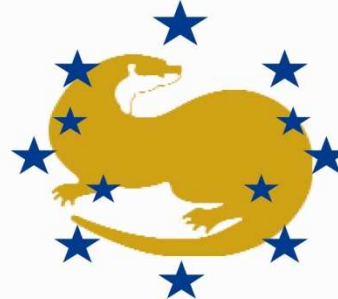
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Reference Database on Res. 6 species and Res. 4 Habitats

Overview and further needs
see « Reference201112-ENPI.mdb »



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Results 2011

number of species and habitats / country

Total	Taxonomic group	AM	AZ	GE	BY	MD	RU	UA
683	Plants	7	10	12	19	10	90	49
29	Amphibians	1	1	1	2	3	3	4
208	Birds	118	119	112	73	51	146	110
79	Fish	5	8	2	12	3	19	17
138	Invertebrates	5	8	10	24	3	60	25
63	Mammals	15	17	18	12	10	35	23
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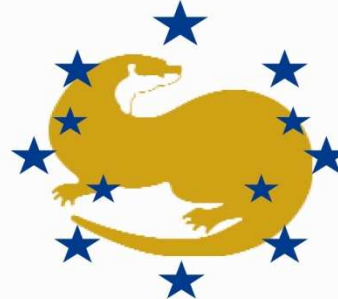
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Emerald Standard Data Form (SDF) and Software

From old to new, how to handle in 2013



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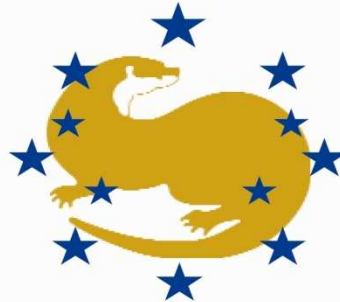
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Emerald Standard Data Form

Review and Adaptation with the revision
of the N2000 SDF (version 11 July 2011)

Deleted Fields
Modified Fields
Additional Fields

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Deleted Fields

- Relation with other Emerald Sites
- Altitude
- Administrative Region: % coverage
- Vulnerability and History memo fields
- Relation with CORINE Biotopes
- Slides and Aerial photographs
- Other important Habitat types (!)

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Modified Fields

- Respondent: more structure
- Biogeographical Region: % coverage added
- Species Res. 6: all species in one table, more structure for population data
- Other species: more structure for population data
- Threats, pressures and activities: new more logical structure, emphasising high pressures
- Ownership: more structure in categories
- Management body and plan: more structure

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Additional Fields

- National legal reference of ASCI designation
- Additional information on Marine Region(s)
- Habitats Res. 4: new sub-fields: “NP”, Caves, Data quality
- Species Res. 6: new sub-fields: “NP”, “S”, Data quality
- Other species: direct reference to appendix species, not listed in Res. 6
- Documentation: indication of link(s) to online resources
- Conservation measures: memo field

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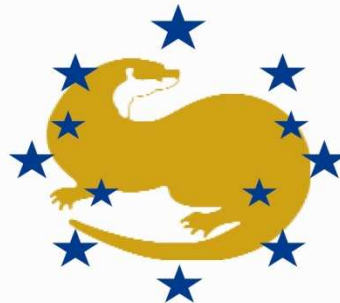


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Suggestions for 2013

- Deleted fields: do not spend time anymore and move “vulnerability text” to other field(s)
- Modified fields: get familiar with modifications but do not spend time as the database and the old software are not adapted
- Additional fields: get familiar and be prepared to deliver data in 2014

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Next steps

- Explanatory notes
- Coordinate with EU the use of the new software
- Create and use of the Emerald Reference portal
- Assist countries for data transfer (2014)

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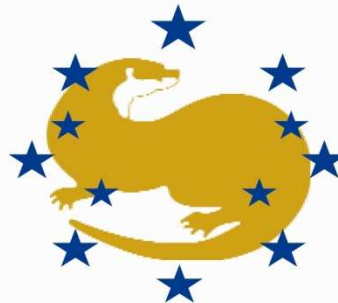


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Discussion

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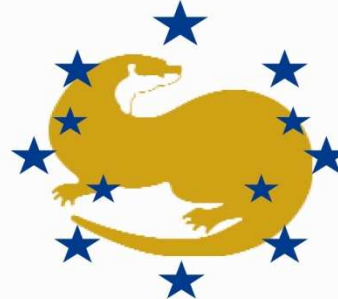
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GIS distribution data

Overview of achievements and requirements
see overview table in final summary report

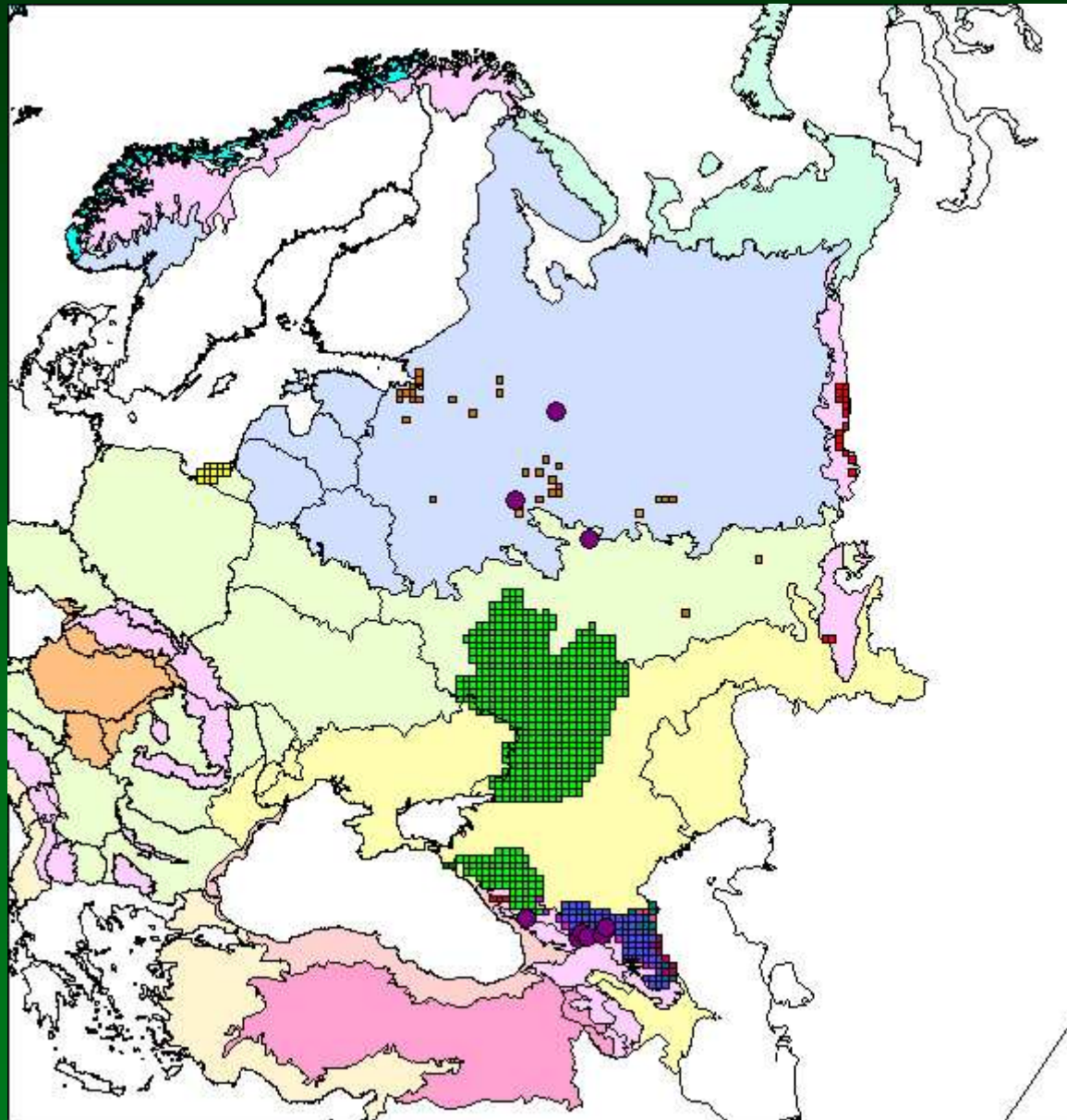


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Distribution Maps Russia



Sabanejewia_aurata by ID_AREAL

1 (6516)
2 (581)

Dunes by Id_areal

1 (7085)
3 (12)

Caves by Id_areal

1 (7077)
3 (20)

Hedgehog_heaths by Id_areal

1 (7071)
3 (26)

Barbus_capito by ID_AREAL

1 (7005)
2 (21)
3 (71)

Ligularia_sibirica by Id_areal

1 (7065)
2 (5)
3 (27)

juniperforests by Id_areal

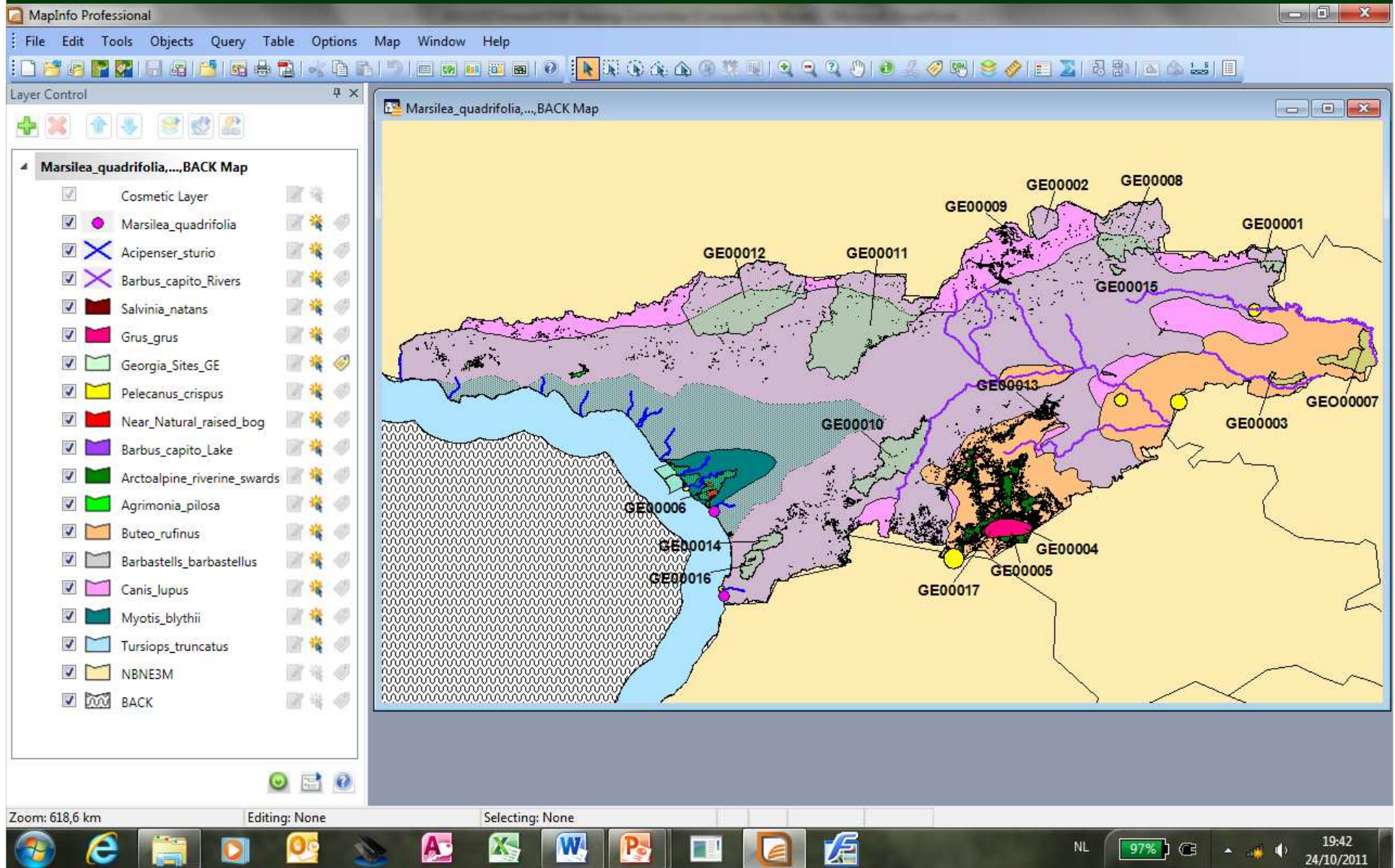
1 (7095)
3 (2)

Mauremys_caspica by Mauremis_c

1 (7086)
3 (3)
4 (8)

Bqemerv2010 by Arracd10

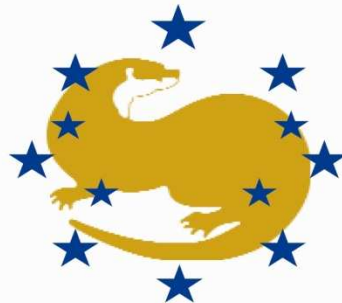
Distribution Maps Georgia



Next steps

- Discuss with the teams possible further work (new selection of species)
- Further development of integration into European Mapping Standards such as Art. 17 requirements (10x10 km ETRS grid)
- Discuss possibilities for automated recording of observations
e.g. www.observado.org

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Recent Rarities

Generated: 24-04-2013 9:22 next refresh: 24-04-2013 9:52

Date	#	species	Area
23-04-2013 14:40	1	Great Bustard - <i>Otis tarda</i>	Spain - Cáceres [ES]
23-04-2013	1	Spanish Imperial Eagle - <i>Aquila adalberti</i>	Spain - Coto Doñana [ES]
23-04-2013 16:06	2	Lesser Kestrel - <i>Falco naumanni</i>	Spain - Santa Marta de Magasca [ES]
23-04-2013 06:59	2	Grey Imperial Pigeon - <i>Ducula pickeringii</i>	Malaysia - Pulau Mantanani [MY]
22-04-2013 17:54	4	Christmas Frigatebird - <i>Fregata andrewsi</i>	Malaysia - Pulau Mantanani [MY]
22-04-2013 08:25	1	Audouin's Gull - <i>Ichthyaelus audouinii</i>	Turkey- Mersin [TR]
22-04-2013 16:28	2	Great Bustard - <i>Otis tarda</i>	Spain - Cáceres [ES]
22-04-2013 07:32	1	Grey Imperial Pigeon - <i>Ducula pickeringii</i>	Malaysia - Pulau Mantanani [MY]
22-04-2013	1	Barbary Falcon - <i>Falco pelegrinoides</i>	Morocco - Région de Merzouga (Erfoud) [MA]
21-04-2013 10:18	2	Christmas Frigatebird - <i>Fregata andrewsi</i>	Malaysia - Pulau Mantanani [MY]
21-04-2013	1	Red-crowned Crane - <i>Grus japonensis</i>	China [CN]
21-04-2013	1	Bridled Quail-Dove - <i>Geotrygon mystacea</i>	Guadeloupe [GP]
21-04-2013 11:19	2	Grey Imperial Pigeon - <i>Ducula pickeringii</i>	Malaysia - Pulau Mantanani [MY]

Today

185 Observations
 0 New users
 155 Number of Species
 68 Photos
 0 Sounds



This site

Europa click on the map to goto a country





- Birds
- Mammals
- Reptiles and Amphibians
- Butterflies
- <select>

Generated: wo 24 apr 2013 09:47:36 CEST next refresh: 10:47:36

Recent Rarities

Date	species	Area
2013-04-17	Greater Spotted Eagle - <i>Aquila clanga</i>	Ukraine - Khmel'nyts'kyi

1 results

or search the system yourself

News

Older news

Today

57 Observations

Additional attention to : Ranking

My Observations

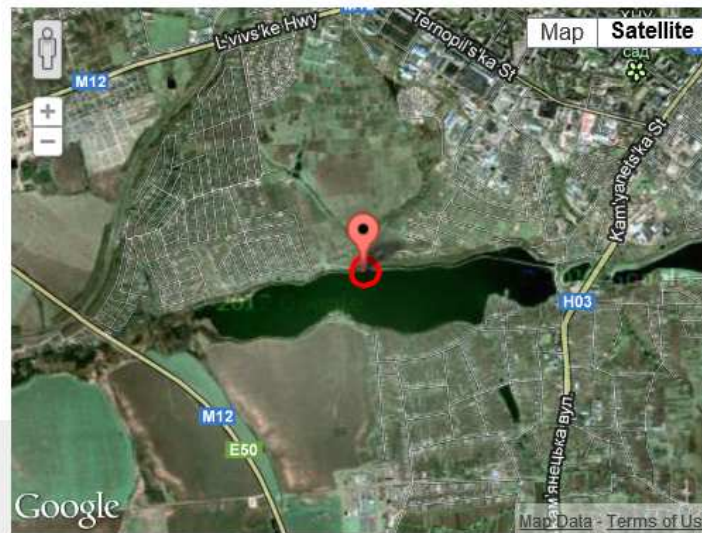




Greater Spotted Eagle - *Aquila clanga* Pallas, 1811

Family: Hawks and Eagles (Accipitridae) Status: native, Species: Rare

date 17-04-2013 17:30
protocol casual record
meaning of number unknown
number 1 unknown flying north-east
escape no
identification certain
area Ukraine - Khmel'nyts'kyi [UA]
Ukraine - Khmel'nyts'kyi
observer Ignaas Robbe
status not investigated
accuracy 100 m



Contact

- email Observer
- Report a (possible) incorrect identification

Validation

- Validation parameters

Social networks

Tweet < 0

Recent Rarities

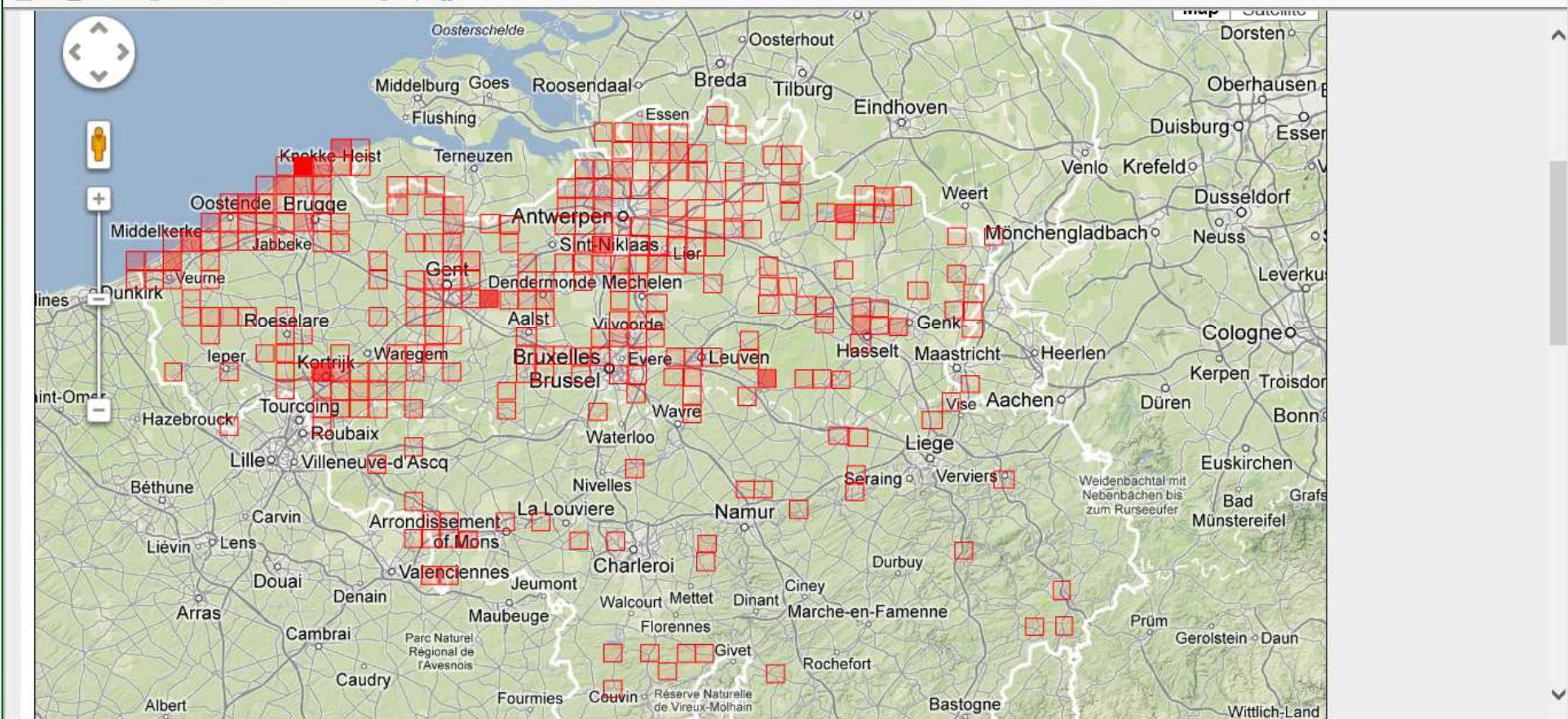
Generated: 24-04-2013 9:54 next refresh: 24-04-2013 10:24

Date	#	species	Area
24-04-2013	1	Eurasian Hoopoe - <i>Upupa epops</i>	Zennegat [AN]
23-04-2013 18:50	1	Common Rosefinch - <i>Carpodacus erythrinus</i>	Lesve [NA]
23-04-2013	1	Black-headed Wagtail - <i>Motacilla flava feldegg</i>	Vierves-sur-Viroin [NA]
23-04-2013 20:34	1	Black-crowned Night Heron - <i>Nycticorax nycticorax</i>	Zammelsbroek - Netevallei Oosterlo [AN]
23-04-2013 16:00	4	Purple Heron - <i>Ardea purpurea</i>	Oost-Vlaanderen, West-Vlaanderen
23-04-2013 10:40	3	Red-crested Pochard - <i>Netta rufina</i>	Limburg, Oost-Vlaanderen
23-04-2013 17:05	6	Red Kite - <i>Milvus milvus</i>	Antwerpen, Limburg, Oost-Vlaanderen
23-04-2013	1	Montagu's Harrier - <i>Circus pygargus</i>	Zoutleeuw - Het Vinne [VB]
23-04-2013 06:00	1	Black Grouse - <i>Lyrurus tetrix</i>	[obscured]
23-04-2013	1	Common Crane - <i>Grus grus</i>	Marais d'Harchies - Prairies et roselière B [HA]
23-04-2013 20:05	1	Tawny Pipit - <i>Anthus campestris</i>	Groot Schietveld [AN]
23-04-2013 20:40	16	Savi's Warbler - <i>Locustella luscinioides</i>	Oost-Vlaanderen, Vlaams-Brabant, West-Vlaanderen
23-04-2013	1	Eurasian Oystercatcher - <i>Haematopus ostralegus</i>	Glabais [BW]
23-04-2013	1	Middle Spotted Woodpecker - <i>Dendrocopos medius</i>	Zevergem - Kasteelpark Welden [OV]

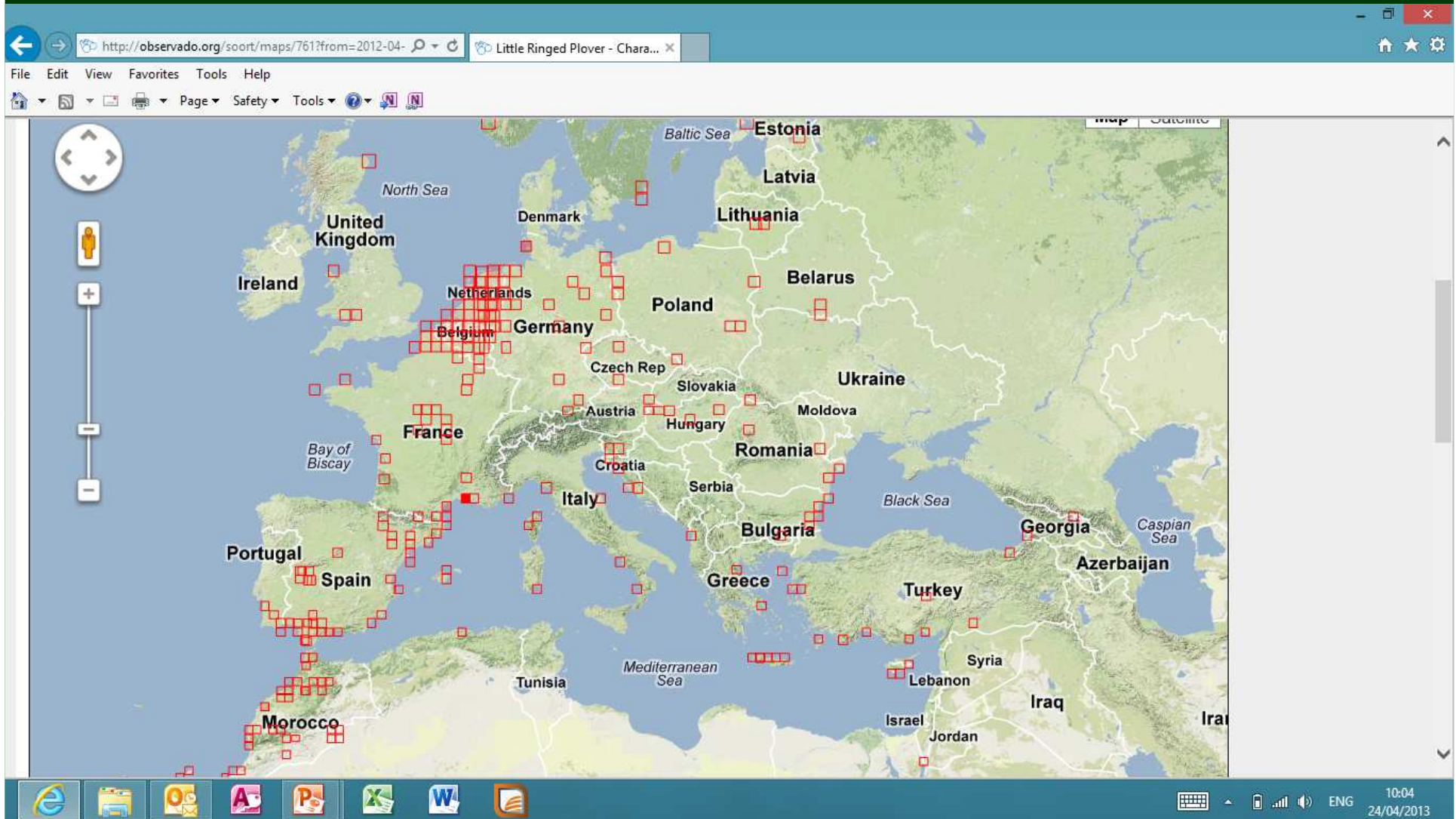
Today

578 Observations
 2 New users
 207 Number of Species
 43 Photos
 3 Sounds





Little Ringed Plover - *Charadrius dubius*



05-05-2012	12:00	1	unknown	washed ashore	Portuguese Man of War - <i>Physalia physalis</i>	Portugal- São Miguel (37.822,-25.53)	PT						<input type="checkbox"/>	
01-09-2010	10:00	1	flowering	present	<i>Gentiana septemfida</i>	Georgia - Kazbegi (42.663,44.599)	GE						<input type="checkbox"/>	
20-05-2010	13:45	1	adult	present	Greek Tortoise - <i>Testudo graeca</i>	Azerbaijan - Shirvan NP (39.7155,49.3202)	AZ						<input type="checkbox"/>	
20-05-2010	12:58	6	unknown	present	Goitered Gazelle - <i>Gazella subgutturosa</i>	Azerbaijan - Shirvan NP (39.699,49.2047)	AZ						<input type="checkbox"/>	
20-05-2010	12:45	1	adult	present	Eurasian Marsh Frog - <i>Pelophylax ridibundus</i>	Azerbaijan - Shirvan NP (39.6798,49.1862)	AZ						<input type="checkbox"/>	
20-05-2010	11:45	1	imago	present	<i>Arctia villica</i>	Azerbaijan - Salyan (39.7517,49.1436)	AZ						<input type="checkbox"/>	
24-02-2010		1	vegetative	present	Mistletoe - <i>Viscum album</i>	Moldova- Orhei (47.3343,28.6547)	MD						<input type="checkbox"/>	
21-08-2009		1	unknown	tracks	Elk - <i>Alces alces</i>	Russia - Pitkyarantkiy (60.8064,32.8175)	RU						<input type="checkbox"/>	
21-08-		1	adult	present	Northern Viper -	Russia - Pitkyarantkiy	RU						<input type="checkbox"/>	

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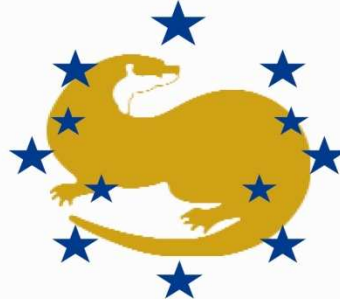
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Questions and answers



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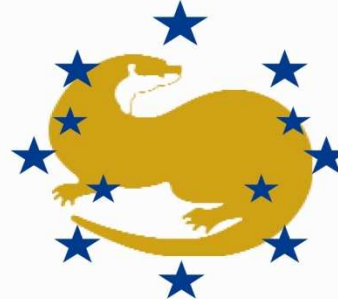
“Other” Species and Habitats

Towards updating the Bern Convention
Res. 6 and Res. 4

see summary note and database



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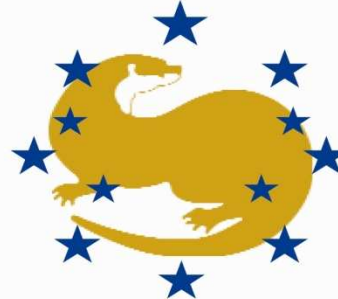
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Possible Reporting Formats and requirements under the Emerald Network



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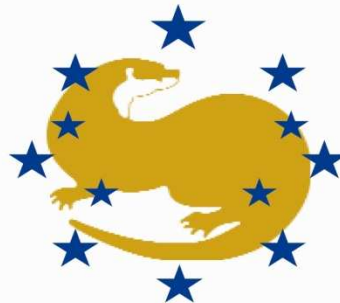


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Reporting under Emerald

- Emerald Calendar 2020: Development of guidelines on management, monitoring and reporting tools in line with N2000 tools
- Resolution 8 (2012) last paragraph:
“GoEPAEN will prepare a reporting format to be used for the purpose of this reporting”

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Reporting under NATURA2000

- Mainly governed by Art. 17 (HD) and Art 12 of the (BD):
“Every six years” “shall include in particular information concerning conservation measures impact on conservation status of habitats annex I and species annex II”

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Reporting under NATURA2000

	Reporting period	National reports (EU synthesis report)	Main focus
1.	1994 – 2000	June 2001 (2004)	Progress in legal transposition and implementation of the directive; progress in establishing the Natura 2000 network, administrative aspects.
2.	2001 – 2006	June 2007 (2009)	First assessment of conservation status based on best available data for each species and each habitat type.
3.	2007 – 2012	June 2013 (2015)	Renewed assessment of conservation status, based on established monitoring system. Assessment of the effectiveness of the Natura 2000 network.

<http://bd.eionet.europa.eu/article17>

The screenshot shows a web browser window displaying the EIONET website. The address bar shows the URL <http://bd.eionet.europa.eu/article17>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains various icons for navigation and utility. The website header features the EIONET logo and the text "European Topic Centre on Biological Diversity". A navigation menu includes SERVICES, REPORTNET, TOOLS, and TOPICS (ETCS). The main content area is titled "Online report on Article 17 of the Habitats Directive: conservation status of habitats & species of Community interest (2001-2006)". The page includes a "Links" section with "Home" and "CIRCA" links, a calendar for September 2012, a "Table of Contents" with three items, and a "Biodiversity news from" section with a logo for the European Commission. The browser's taskbar at the bottom shows various application icons and the system tray with the date 17/09/2012 and time 12:51.

EEA | EnviroWindows

Login | Search Search this site

EIONET

European Topic Centre on Biological Diversity

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: [Eionet](#) » [Biodiversity](#) » Online report on Article ...

Links

- » [Home](#)
- » [CIRCA](#)

«September 2012»

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Biodiversity news from
Science for Environment Policy
European Commission

Online report on Article 17 of the Habitats Directive: conservation status of habitats & species of Community interest (2001-2006)

All Member States are requested by the [Habitats Directive \(1992\)](#) to monitor habitat types and species considered to be of Community interest. Article 17 of the Directive requires that every 6 years Member States prepare reports to be sent to the European Commission on the implementation of the Directive. The Article 17 report for the period **2001-2006** for the first time includes assessments on the **conservation status of the habitat types and species** of Community interest.

The European Commission adopted the **Composite report** on Article 17 on July 13th 2009. You can find the composite report [here](#). For more information on the composite report visit the Habitat Directive portion of the Commissions [website](#).

These pages give access to assessments of conservation status of habitats and species of community interest, together with information on methodologies and other background information.

Table of Contents

- [1. Overview of the Article 17 reporting](#)
- [2. Data quality and completeness](#)
- [3. Biogeographical assessments from the Member States](#)

NL 100% 12:51 17/09/2012

We need to understand the possible differences
between reporting on the development and the
effectiveness of the Sites Network

AND

Reporting on the Conservation Status of each
species and habitat

Art. 17 reference portal

http://bd.eionet.europa.eu/article17/reference_portal

European Topic Centre on Biological Diversity

SERVICES REPORTNET TOOLS TOPICS (ETCS)

You are here: Eionet» Biodiversity» Online report on Article ...» reference_portal

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Biodiversity news from
Science for Environment Policy
European Commission

Reference Portal for Article 17 of the Habitats Directive

This reference portal contains all reference documents (e.g. the coding of species), technical support material (e.g. reporting guidelines) needed to fill the reporting format under Article 17 of the Habitats Directive and to ensure a consistency by all Member States

Documentation

1) Reporting format for the period 2007-2012

The Article 17 Reporting format is available [here](#)

Maintained by: DG Environment, European Environment Agency (EEA), last updated: 13.05.2011

2) Explanatory Notes & Guidelines for the period 2007-2012

The Explanatory notes and guidelines for Article 17 are available [here](#)

Maintained by: DG Environment, European Environment Agency (EEA), last updated: 11.07.2011

3) Guidelines for submitting Article 17 data

These are under preparation but will be available well in advance of the date for submission of data.

Maintained by: DG Environment, European Environment Agency (EEA), last updated: 20.03.2012

Possible Options for 2018

- **Option 1:** Follow entirely the present Art. 17 and Art. 12 reporting guidelines and implement them by 2018
- **Option 2:** develop a reporting standard on the implementation of the Emerald Network (cfr. N2000 in 2004, mainly administrative issues)
- **Option 3:** select option 2, but in addition option 1 on a selection of species and/or habitats to be well prepared for the next reporting round, which might include a full reporting cycle.

Convention de Berne
Bern Convention

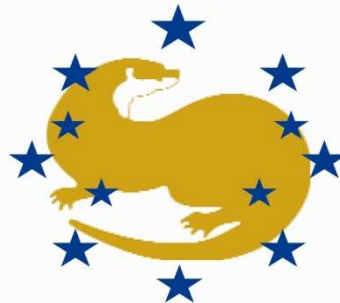


Réseau Émeraude
Emerald Network

Conclusions – Suggestions

- Principle discussion on different options ahead
- Option 3 would need some criteria for selecting the species and habitats for which full reporting would be developed
- Develop draft reporting content based on the option taken
- Closely coordinate with EU and EEA, with the goal of preparing a “common” reporting by 2018

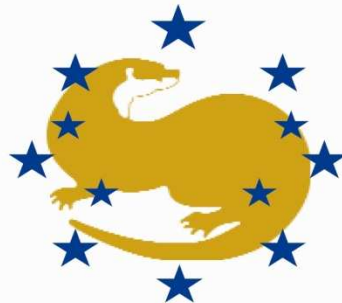
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Discussion

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