



EU/CoE Joint Programme Emerald Network of Nature Protection Sites, Phase II (DCI-ENV/2012/289-173)

Quality check of the 2013 Emerald Sites database delivery by Ukraine

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INTRODUCTION

The current report presents the result of the quality analysis/quality check of the Emerald database submitted by Ukraine for 2013, through the EIONET Common Data Repository.

The analysis is the result of a detailed analysis performed by the three scientific and technical experts working on the project and is presented as follows: (1) analysis of the technical completeness of the database, (2) analysis of the completeness of the spatial data and (3) and an analysis of the overall scientific soundness of the database.

The information provided here should be thoroughly considered and every comment included by the experts should be carefully analysed and relevant action undertaken. In addition, it is suggested that the questions asked in Chapter 3 are used by the country for running a self-assessment/internal check of the Network proposed so far.

It should be noted that the analysis presented below is not a result of a complete feature by feature analysis, which will be the purpose of the biogeographical evaluation of the country site proposals, to be initiated in 2015.

The results of the qa/qc report will also be debated at the Emerald technical meeting organised in each of the project target countries and any eventual questions by the national Emerald team members will be clarified there.

1. DESCRIPTIVE DATA: TECHNICAL COMPLETENESS

1.1. Table BIOTOP:

Number of records:

A sites	B sites	C sites	Total
0	0	151	151

Field Name	Description	Comment
TYPE	Site type	OK
SITECODE	Site Code	OK
DATE	Compilation Date	OK
UPDATE	Update date	OK
DATE_PROP	Date site proposed as eligible as ASCI	OK
DATE_CON	Date confirmed as ASCI	N/A
RESPONDENT	Respondent	OK
MANAGER	Site Manager	OK
SITE_NAME	Site Name	OK
AREA	Area in ha	OK (is it so that all decimal values were put to integer, compared to last year ?)
LENGTH	Site length in kilometres	OK
LON_EW	Longitude East/West	OK
LAT_NS	Latitude North/South	OK
LON_DEG	Longitude Degrees	OK

Field Name	Description	Comment
LON_MIN	Longitude Minutes	
LON_SEC	Longitude Seconds	
LAT_DEG	Latitude Degrees	
LAT_MIN	Latitude Minutes	
LAT_SEC	Latitude Seconds	
ALT_MEAN	Altitude Mean	OK
ALT_MIN	Altitude Minimum	OK
ALT_MAX	Altitude Maximum	OK
ANATOL	Biogeographic region/Anatolian	N/A
ARCTIC	Biogeographic region/Arctic	N/A
ALPINE	Biogeographic region/Alpine	OK, 6 sites with no biogeoregion indicated (6, 54, 74, 97, 152, 153)
ATLANTIC	Biogeographic region/Atlantic	N/A
CONTINENT	Biogeographic region/Continental	OK
MACARONES	Biogeographic region/Macaronesian	N/A
MEDITERR	Biogeographic region/Mediterranean	N/A
BOREAL	Biogeographic region/Boreal	N/A
PANNONIC	Biogeographic region/Pannonian	OK
PONTIC	Biogeographic region/Black Sea	N/A
STEPPIC	Biogeographic region/Steppic	OK
QUALITY	Description Site Quality	OK
VULNAR	Description Site Vulnerability	OK
DESIGN	Description Site Designation	OK
OWNER	Description Site Ownership	OK
DOCUM	Description Site Documentation	OK
CHARACT	Description Site Character	OK
MANAGPL	Description Site Management Plan	OK
PHOTOS	Aerial photographs availability	OK
MAPSINCL	Maps Included	OK

1.2. Table AMPREP: Amphibian and reptiles

Number of records: 345

Number of species: 11

Field Name	Description	Comment
SITECODE	Site Code	OK
ANNEX_II	Resolution 6 species Y/N	N/A
SPECNUM	Species Number	OK
SPECNAME	Species Name	Species names not exactly according to look-up, leading to very difficult analysis; please strictly follow the names as indicated in the look-up tables
RESIDENT	Resident population	OK

Field Name	Description	Comment
BREEDING	Breeding population	OK
WINTER	Wintering population	OK
STAGING	Staging population	OK
POPULATION	Site Assessment: Population	OK
CONSERVE	Site Assessment: Conservation	OK
ISOLATION	Site Assessment: Isolation	OK
GLOBAL	Site Assessment: Global	OK

1.3. Table BIRD: Birds

Number of records: 9947

Number of species: 277 (including non-res. 6 species)

Field Name	Description	Comment															
SITECODE	Site Code	OK															
ANNEX_II	Resolution 6 species Y/N	N/A															
SPECNUM	Species Number	OK															
SPECNAME	Species Name	<p>Species names not always exactly as in look-up table: e.g.:</p> <ul style="list-style-type: none"> - “Aquila chrysaetos” - “Aythya nyroca 2” - Species names with “blank” space in front or at the end: space should be removed: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>SPECNUM</th> <th>SPECNAME</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>A196</td> <td>Chlidonias hybridus</td> <td>19</td> </tr> <tr> <td>A098</td> <td>Falco columbarius</td> <td>3</td> </tr> <tr> <td>A177</td> <td>Larus minutus</td> <td>29</td> </tr> <tr> <td>A087</td> <td>Buteo lagopus</td> <td>4</td> </tr> </tbody> </table>	SPECNUM	SPECNAME	Count	A196	Chlidonias hybridus	19	A098	Falco columbarius	3	A177	Larus minutus	29	A087	Buteo lagopus	4
SPECNUM	SPECNAME	Count															
A196	Chlidonias hybridus	19															
A098	Falco columbarius	3															
A177	Larus minutus	29															
A087	Buteo lagopus	4															
RESIDENT	Resident population	OK, but 4398 records with “1” in Resident population: what does it signify ?															
BREEDING	Breeding population																
WINTER	Wintering population																
STAGING	Staging population																
POPULATION	Site Assessment: Population	OK															
CONSERVE	Site Assessment: Conservation	OK															
ISOLATION	Site Assessment: Isolation	OK															
GLOBAL	Site Assessment: Global	OK															

1.4. Table FISHES: Fishes

Number of records: 880

Number of species: 24

Field Name	Description	Comments
SITECODE	Site Code	OK

ANNEX_II	Resolution 6 species Y/N	N/A
SPECNUM	Species Number	OK
SPECNAME	Species Name	Species names not always exactly as in look-up table: e.g.: Alosa pontica , Alosa pontica), Alosa pontica (Alosa kess-leri pontica), Alosa pontica (Alosa kessleri pontica), Alosa pontica (Alosa kessleri pontica, Alosa immaculata), Alosa pontica (Alosa kessleri pontica, Alosa imma-culata)
RESIDENT	Resident population	OK
BREEDING	Breeding population	
WINTER	Wintering population	
STAGING	Staging population	
POPULATION	Site Assessment: Population	OK
CONSERVE	Site Assessment: Conservation	OK
ISOLATION	Site Assessment: Isolation	OK
GLOBAL	Site Assessment: Global	OK

1.5. Table INVERT: Invertebrates

Number of records: 1047

Number of species: 46

Field Name	Description	Comment
SITECODE	Site Code	OK
ANNEX_II	Resolution 6 species Y/N	N/A
SPECNUM	Species Number	OK
SPECNAME	Species Name	Species names not always exactly as in look-up table: e.g.: Unio crassus, Unio crassus (Philipsson in Retzius, 1788)
RESIDENT	Resident population	OK
BREEDING	Breeding population	
WINTER	Wintering population	
STAGING	Staging population	
POPULATION	Site Assessment: Population	OK
CONSERVE	Site Assessment: Conservation	OK
ISOLATION	Site Assessment: Isolation	OK
GLOBAL	Site Assessment: Global	OK

1.6. Table MAMMAL: Mammals

Number of records: 418

Number of species: 22

Field Name	Description	Comment
SITECODE	Site Code	OK
ANNEX_II	Resolution 6 species Y/N	N/A
SPECNUM	Species Number	OK
SPECNAME	Species Name	Species names not always exactly as in look-up table: e.g.: Spermophilus citellus, Spermophilus citellus (Citellus citellus)
RESIDENT	Resident population	Mostly qualitative data; for mammals it should be possible to indicate at least some quantitative information
BREEDING	Breeding population	
WINTER	Wintering population	
STAGING	Staging population	
POPULATION	Site Assessment: Population	OK
CONSERVE	Site Assessment: Conservation	
ISOLATION	Site Assessment: Isolation	
GLOBAL	Site Assessment: Global	

1.7. Table PLANT: Plants

Number of records: 285

Number of species: 50

Field Name	Description	Comments
SITECODE	Site Code	OK
ANNEX_II	Resolution 6 species Y/N	N/A
SPECNUM	Species Number	OK
SPECNAME	Species Name	Species names not always exactly as in look-up table: e.g.: Marsilea quadrifolia L., Marsilea quadrifolia Thesium ebracteatum Hayne, Thesium ebracteatum Etc
RESIDENT	Resident population	OK
POPULATION	Site Assessment: Population	OK
CONSERVE	Site Assessment: Conservation	OK
ISOLATION	Site Assessment: Isolation	OK
GLOBAL	Site Assessment: Global	OK

1.8. Table SPEC: Other important species

Number of records: 5337

Field Name	Description	Comments																						
SITECODE	Site Code	OK																						
TAXGROUP	Taxonomic group	OK																						
SPECNAME	Species Name	Some species belong to Res. 6 and should be removed from this table: <table border="1"> <thead> <tr> <th>Species</th> <th>count</th> </tr> </thead> <tbody> <tr> <td>Bison bonasus</td> <td>1</td> </tr> <tr> <td>Campanula serrata</td> <td>1</td> </tr> <tr> <td>Carabus hungaricus</td> <td>1</td> </tr> <tr> <td>Eudontomyzon mariae</td> <td>61</td> </tr> <tr> <td>Gymnocephalus baloni</td> <td>26</td> </tr> <tr> <td>Pelecus cultratus</td> <td>34</td> </tr> <tr> <td>Syringa josikaea</td> <td>1</td> </tr> <tr> <td>Triturus vulgaris ampelensis</td> <td>1</td> </tr> <tr> <td>Umbra krameri</td> <td>5</td> </tr> <tr> <td>Zingel zingel</td> <td>12</td> </tr> </tbody> </table>	Species	count	Bison bonasus	1	Campanula serrata	1	Carabus hungaricus	1	Eudontomyzon mariae	61	Gymnocephalus baloni	26	Pelecus cultratus	34	Syringa josikaea	1	Triturus vulgaris ampelensis	1	Umbra krameri	5	Zingel zingel	12
Species	count																							
Bison bonasus	1																							
Campanula serrata	1																							
Carabus hungaricus	1																							
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Pelecus cultratus	34																							
Syringa josikaea	1																							
Triturus vulgaris ampelensis	1																							
Umbra krameri	5																							
Zingel zingel	12																							
POPULATION	Site Assessment: Population	OK																						
MOTIVATION	Motivation for inclusion	1 record with non standard motivation code “Ñ”																						

1.9. Table ACTVTY: Impact and human activity in and around site

Field Name	Description	Comments
SITECODE	Site Code	OK
ACT_CODE	Activity code	OK
IN_OUT	In site / Out site	OK
INTENSITY	Intensity code	OK
COVER	% cover by activity	OK
INFLUENCE	Influence on site	OK

1.10. Table HABIT1: Resolution 4 (1996) Habitat Types

Number of records: 1848 (all according to Res. 4)

Number of habitats: 87

Field Name	Description	Comments
SITECODE	Site Code	OK
HBCDAX	Habitat Code of Resolution 4	OK
COVER	% cover by habitat	OK, but decimal percentages will be needed for phase II, especially in case of very low %
REPRESENT	Site Assessment: Representativity	OK
REL_SURF	Site Assessment: Relative Surface	OK
CONSERVE	Site Assessment: Conservation	
GLOBAL	Site Assessment: Global	

1.11. Table HABIT1A: Other important Habitat Types

Number of records : 172

Field Name	Description	Comments
SITECODE	Site Code	OK
HBCDAX	Habitat Code	OK
COVER	% cover by habitat	OK

1.12. Table HABIT2: General Habitat Types

Field Name	Description	Comments
SITECODE	Site Code	OK
HABCODE	General habitat code	Invalid codes N1, N2, N3, N4, N5, N6, N7, N8, N9 should be changed to N01, N02, N03 etc N09
COVER	% cover by general habitat type	OK

1.13. Table REGCODE: Regions

Number of records: 168

Field Name	Description	Comments
SITECODE	Site Code	OK
REC_CODE	Region Code	OK
COVER	% cover by region	OK

1.14. Table DESIGC: Site designation codes

Number of records: 157

Field Name	Description	Comments
SITECODE	Site Code	OK
DESICODE	Designation Code	OK
COVER	% cover by designation	OK

1.15. Table DESIGR: Relation to designated sites

Number of records: 189

Field Name	Description	Comments															
SITECODE	Site Code	OK															
DESICODE	Designation Code	1 records are empty for other fields: <table border="1"> <thead> <tr> <th>SITECODE</th> <th>DESICODE</th> <th>DES_SITE</th> </tr> </thead> <tbody> <tr> <td>UA0000003</td> <td>IN00</td> <td></td> </tr> <tr> <td>UA0000017</td> <td>UA06</td> <td></td> </tr> <tr> <td>UA0000091</td> <td>UA00</td> <td></td> </tr> <tr> <td>UA000009</td> <td>IN00</td> <td></td> </tr> </tbody> </table>	SITECODE	DESICODE	DES_SITE	UA0000003	IN00		UA0000017	UA06		UA0000091	UA00		UA000009	IN00	
SITECODE	DESICODE	DES_SITE															
UA0000003	IN00																
UA0000017	UA06																
UA0000091	UA00																
UA000009	IN00																

		3		
		UA000009	IN00	
		3		
		UA000010	UA00	
		9		
		UA000013	UA05	
		8		
DES_SITE	Name of designated site	OK		
OVERLAP	Overlap type	OK		
OVERLAP_P	% overlap Emerald/Designated site	OK		

1.16. Table CORINE: Relation to CORINE Biotopes sites

Field Name	Description	Comments
SITECODE	Site Code	N/A
CORINE	Corine Biotopes code	N/A
OVERLAP	Overlap type	N/A
OVERLAP_P	% overlap Biotope/Designated site	N/A

1.17. Table SITREL: Relation to other EMERALD Sites

Number of records: 3

Field Name	Description	Comments
SITECODE	Site Code	OK
OTHERTYPE	Type of related EMERALD site	OK
OTHERSITE	Site Code related EMERALD site	OK

1.18. Table MAP: Map information

Number of records: 44

Field Name	Description	Comments
SITECODE	Site Code	OK
MAP_NO	Map number	OK
SCALE	Map Scale	OK
PROJECTION	Map Projection	OK
DETAILS	Digitized boundaries details	OK

1.19. Table PHOTO: Aerial photographs and slides

Field is removed in new SDF; no need to indicate information

Field Name	Description	Comments
SITECODE	Site Code	
TYPE	Aerial photograph or slide	
REFNUM	Aerial photo reference	
LOCATION	Photo/Slide location	

DESCRIPT	Photo/Slide description	
DATE	Photo/Slide date	
AUTHOR	Slide Author/Copyright	

1.20. Table HISTRY: History information

No need to indicate information

Field Name	Description	Comments
SITECODE	Site Code	
KEYWORD	History keyword	
DESCRIPT	Description of change	
DATE	Change date	

1.21. Table RESP: Respondent

Field Name	Description	Comments
RESPOND	Respondent information	OK

2. SPATIAL DATA: COMPLETENESS AND ACCORDANCE WITH DESCRIPTIVE DATA

The purpose of this check is to ensure integrity of tabular and spatial datasets and to correct possible errors before preparations for the bio-geographical seminar.

2.1. Check geographical integrity (scale, projection). General observations.

Description
Analysed spatial dataset: Site-boundaries-UA-201312.MAP, downloaded from http://cdr.eionet.europa.eu/ua/coltlvbca/coltlvbla/envuuzoca (Envelope of 2013). Coordinate system: undefined.
Analysed tabular database: CNTRYUA-MSAccess2003.mdb, downloaded from http://cdr.eionet.europa.eu/ua/coltlvbca/coltlvbla/envuuzoca (Envelope of 2013).

Number of sites in spatial dataset: 159

Map: distribution of sites that are included in tabular database



Remarks:

The spatial data set have more entries than the tabular database (please see in QAQC 1.2.)

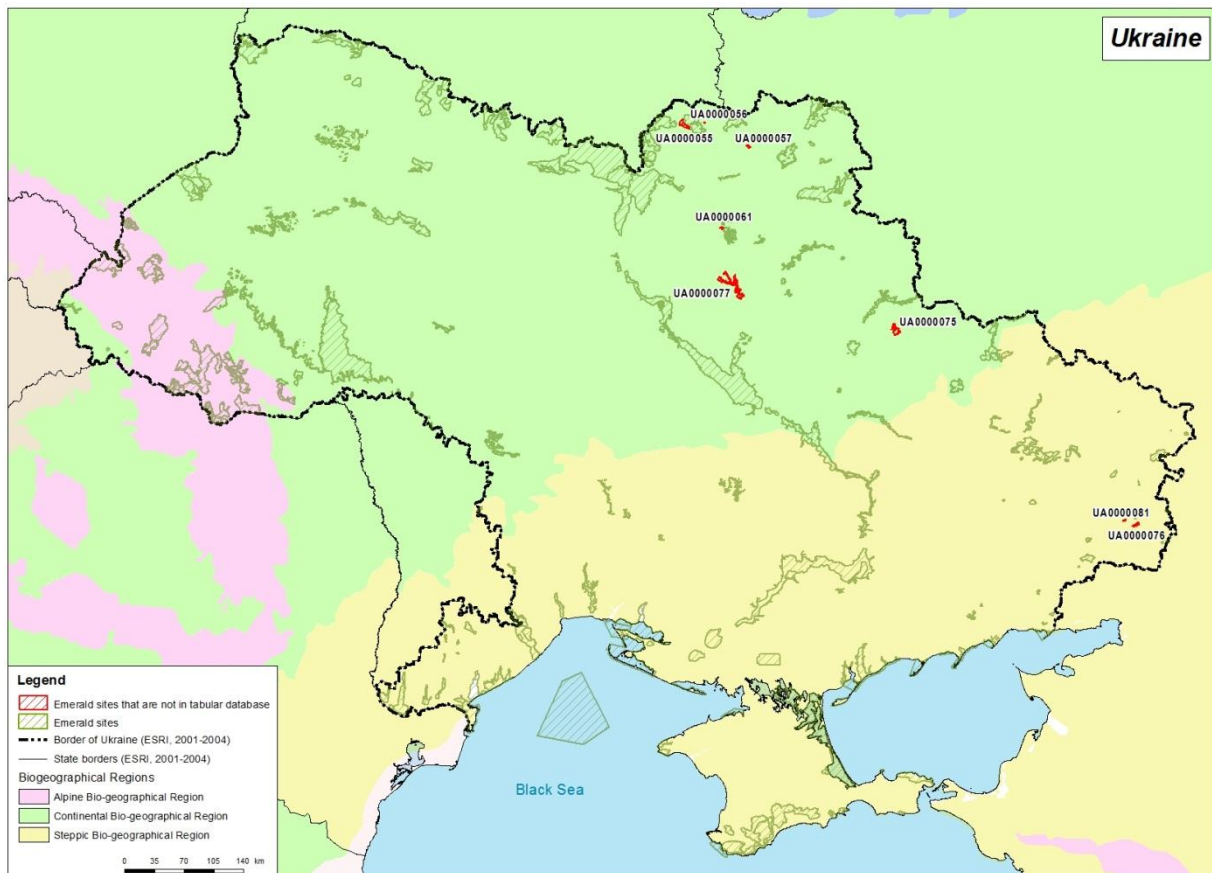
Please delete the needless records of the spatial data set or supplement the tabular database.

2.2. Check compatibility and completeness between tabular data site-code and site-code indicated in the GIS-layers

Sites not in tabular database

Sitecode	Site name
UA0000055	Zamhlai zakaznyk
UA0000056	Myklashevshchyna zakaznyk
UA0000057	Bretskyi zakaznyk
UA0000061	Zhevak zakaznyk
UA0000075	Slobozhanskyi NNP
UA0000076	Elba zakaznyk
UA0000077	Pyriatynskyi NNP
UA0000081	Lisne Zakaznyk

Map: distribution of sites that are not included in tabular database:



Sitecodes not in spatial database, submitted in 2013

Sitecode	Notes
-	All SITE CODES that are in tabular database are found in spatial dataset

Remarks:

Please delete the needless records of the spatial data set or supplement the tabular database.

2.3. Are all centroids within polygons of respective sites?

Sitecodes where this is not the case

Sitecode	Longitude	Latitude	Notes
UA0000005	E 34 03 55	N 44 56 22	More or less in the middle of the multi part site, but ~20 km outside the border of the inland part and ~100 km outside the border of the marine part
UA0000006	E 24 07 50	N 48 08 58	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000012	E 31 28 40	N 49 48 15	More or less in the middle of the multi part site, but ~7 km outside the nearest border
UA0000019	E 37 53 17	N 47 53 09	More or less in the middle of the multi part site, but ~40 km outside the nearest border
UA0000020	E 39 18 59	N 48 49 34	More or less in the middle of the multi part site, but ~8 km outside the nearest border
UA0000023	E 26 41 42	N 51 32 44	More or less in the middle of the multi part site, but ~9 km outside the nearest border
UA0000040	E 31 10 50	N 47 51 19	More or less in the middle of the multi part site, but ~3 km outside the nearest border
UA0000042	E 35 00 01	N 50 20 57	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000051	E 33 32 47	N 50 43 29	~3 km outside the site's border
UA0000065	E 37 38 38	N 47 01 11	More or less in the middle of the multi part site, but ~7 km outside the nearest border
UA0000073	E 37 00 55	N 49 13 01	More or less in the middle of the multi part site, but ~3 km outside the nearest border
UA0000085	E 25 54 28	N 48 17 13	More or less in the middle of the multi part site, but ~3 km outside the nearest border
UA0000090	E 29 06 47	N 51 18 25	More or less in the middle of the multi part site, but ~6 km outside the nearest border
UA0000093	E 35 04 15	N 48 17 42	~6 km outside the site's border
UA0000106	E 34 25 29	N 47 25 02	~9 km outside the site's border
UA0000112	E 25 45 55	N 50 54 30	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000122	E 25 38 26	N 48 46 10	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000127	E 34 07 55	N 44 41 56	~2 km outside the site's border
UA0000128	E 34 34 26	N 44 53 59	~2 km outside the site's border
UA0000130	E 32 35 02	N 45 23 44	More or less in the middle of the multi part site, but ~2.5 km outside the nearest border
UA0000134	E 35 05 51	N 49 06 34	~3 km outside the site's border
UA0000136	E 33 00 54	N 48 11 13	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000142	E 28 42 48	N 45 25 17	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000149	E 27 57 18	N 48 22 31	More or less in the middle of the multi part site, but ~2 km outside the nearest border
UA0000158	E 29 07 24	N 46 09 41	More or less in the middle of the multi part site, but ~2 km outside the nearest border

2.4. Check tabular site surface area in comparison with polygon area and indicate departures

Sitecode	Area: spatial	Area: tabular	Difference, ha	Difference, %
UA0000001	19940	20097	-157	-1
UA0000002	5308	5351	-43	-1
UA0000003	2061	2086	-25	-1
UA0000004	3770	3770	0	0
UA0000005	44033	44175	-142	0
UA0000006	57662	58121	-459	-1
UA0000007	238	239	-1	0
UA0000008	2840	2855,2	-15	-1
UA0000009	1581	1587	-6	0
UA0000010	9494	9543	-49	-1
UA0000011	260064	261455	-1391	-1
UA0000012	8663	8675	-12	0
UA0000013	35265	35785	-520	-1
UA0000014	49996	50364	-368	-1
UA0000015	1677	1677	0	0
UA0000016	33394	33406	-12	0
UA0000017	109390	109390	0	0
UA0000018	50127	50130	-3	0
UA0000019	3344	3349	-5	0
UA0000020	5389	5396	-7	0
UA0000021	14446	14475	-29	0
UA0000022	448	449	-1	0
UA0000023	42069	42481	-412	-1
UA0000024	2930	2966	-36	-1
UA0000025	48277	49035	-758	-2
UA0000026	39972	40345	-373	-1
UA0000027	51964	52009	-45	0
UA0000028	11147	11216	-69	-1
UA0000029	43311	43331	-20	0
UA0000030	7043	7130	-87	-1
UA0000031	16222	16264	-42	0
UA0000032	39325	39815	-490	-1
UA0000033	39041	39310	-269	-1
UA0000034	14731	14731	0	0
UA0000035	14509	14637	-128	-1

Sitecode	Area: spatial	Area: tabular	Difference, ha	Difference, %
UA0000036	9621	9639	-18	0
UA0000037	16745	16749	-4	0
UA0000038	31097	31143	-46	0
UA0000039	21344	21348	-4	0
UA0000040	6145	6147	-2	0
UA0000041	6037	6099	-62	-1
UA0000042	23460	23453	7	0
UA0000043	4369	4543	-174	-4
UA0000044	38672	39178	-506	-1
UA0000045	9439	9481	-42	0
UA0000046	48806	49012	-206	0
UA0000047	102368	102745	-377	0
UA0000048	58218	58308	-90	0
UA0000049	2909	2913	-4	0
UA0000050	882	883	-1	0
UA0000051	16897	16915	-18	0
UA0000052	2911	2917	-6	0
UA0000053	1485	1488	-3	0
UA0000054	1526	1531	-5	0
UA0000055	4413	-	-	-
UA0000056	119	-	-	-
UA0000057	200	-	-	-
UA0000058	515	516	-1	0
UA0000059	1706	1707	-1	0
UA0000060	1870	1874	-4	0
UA0000061	314	-	-	-
UA0000062	70793	70979	-186	0
UA0000063	7418	7432	-14	0
UA0000064	2903	2906	-3	0
UA0000065	22130	22176	-46	0
UA0000066	250	250	0	0
UA0000067	290	290	0	0
UA0000068	13924	13943	-19	0
UA0000069	8383	8388	-5	0
UA0000070	30	30	0	1
UA0000071	5011	5011	0	0
UA0000072	23187	23188	-1	0

Sitecode	Area: spatial	Area: tabular	Difference, ha	Difference, %
UA0000073	4997	4998	-1	0
UA0000074	3535	3535	0	0
UA0000075	5251	-	-	-
UA0000076	757	-	-	-
UA0000077	11990	-	-	-
UA0000078	485	486	-1	0
UA0000079	116	117	-1	-1
UA0000080	97	97	0	0
UA0000081	270	-	-	-
UA0000082	18703	18716	-13	0
UA0000083	11962	11964	-2	0
UA0000084	26933	27086	-153	-1
UA0000085	21361	21476	-115	-1
UA0000086	5319	5318	1	0
UA0000087	5098	5099	-1	0
UA0000088	2535	2535	0	0
UA0000089	20151	20186	-35	0
UA0000090	71022	71440	-418	-1
UA0000091	33360	33607	-247	-1
UA0000092	77812	77907	-95	0
UA0000093	29204	29206	-2	0
UA0000094	54378	54575	-197	0
UA0000095	18245	18320	-75	0
UA0000096	208363	209404	-1041	0
UA0000097	35226	35224	2	0
UA0000098	1116	1117	-1	0
UA0000099	19722	19792	-70	0
UA0000100	2242	2244	-2	0
UA0000101	17174	17312	-138	-1
UA0000102	5405	5450	-45	-1
UA0000103	29245	29535	-290	-1
UA0000104	10054	10056	-2	0
UA0000105	27014	27013	1	0
UA0000106	200883	200919	-36	0
UA0000107	46258	46263	-5	0
UA0000108	10018	10020	-2	0
UA0000109	70470	70471	-1	0

Sitecode	Area: spatial	Area: tabular	Difference, ha	Difference, %
UA0000110	211434	211565	-131	0
UA0000111	50020	50114	-94	0
UA0000112	42579	43023	-444	-1
UA0000113	5310	5374	-64	-1
UA0000114	19531	19674	-143	-1
UA0000115	12028	12103	-75	-1
UA0000116	21212	21397	-185	-1
UA0000117	24544	24721	-177	-1
UA0000118	19190	19427	-237	-1
UA0000119	8463	8574	-111	-1
UA0000120	16895	17058	-163	-1
UA0000121	73193	74258	-1065	-1
UA0000122	10792	10863	-71	-1
UA0000123	29288	29500	-212	-1
UA0000124	16840	16949	-109	-1
UA0000125	19565	19681	-116	-1
UA0000126	6910	6921	-11	0
UA0000127	43168	43246	-78	0
UA0000128	64688	64815	-127	0
UA0000129	24965	25037	-72	0
UA0000130	10919	10923	-4	0
UA0000131	136811	137010	-199	0
UA0000132	26793	26841	-48	0
UA0000133	27196	27308	-112	0
UA0000134	13734	13733	1	0
UA0000135	41607	41608	-1	0
UA0000136	8153	8154	-1	0
UA0000137	6164	6166	-2	0
UA0000138	21874	21877	-3	0
UA0000139	403801	403794	7	0
UA0000140	27739	27741	-2	0
UA0000141	38597	38602	-5	0
UA0000142	52658	52673	-15	0
UA0000143	8432	8433	-1	0
UA0000144	29476	29612	-136	0
UA0000145	15886	15940	-54	0
UA0000146	21038	21131	-93	0

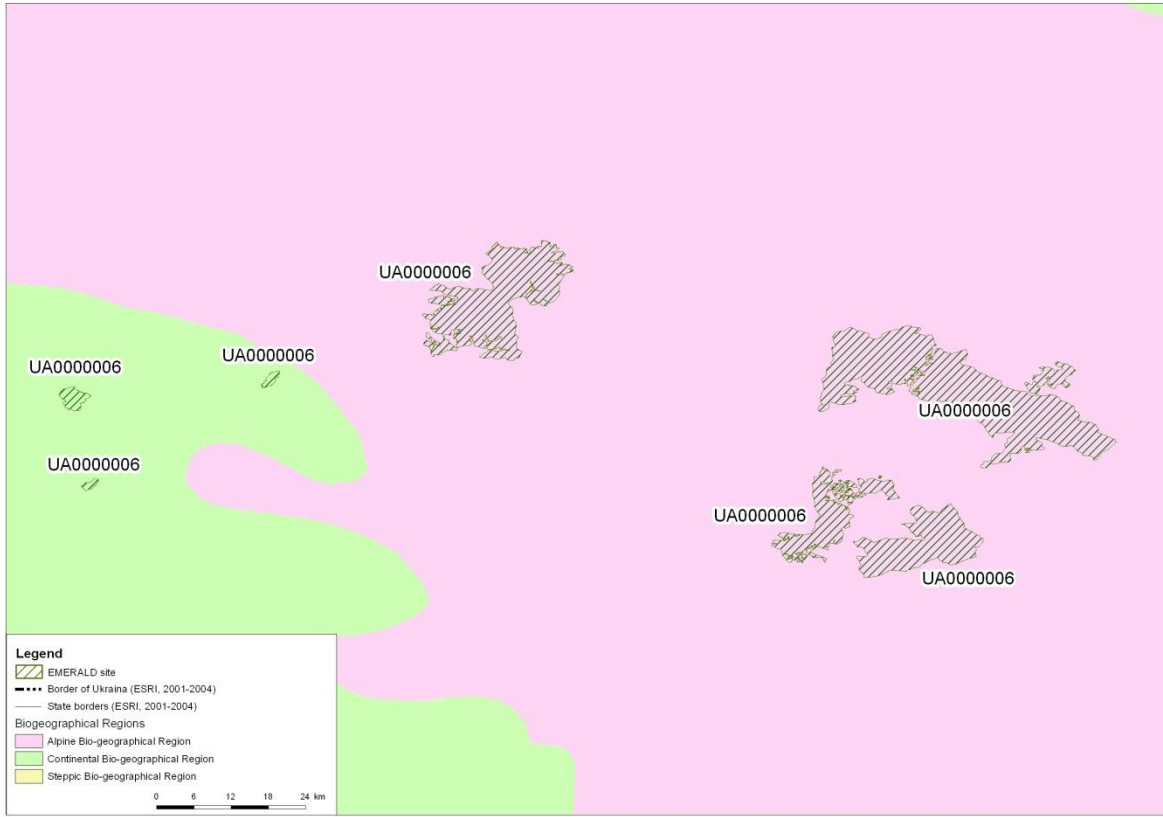
Sitecode	Area: spatial	Area: tabular	Difference, ha	Difference, %
UA0000147	1993	1995	-2	0
UA0000148	11236	11254	-18	0
UA0000149	3727	3739	-12	0
UA0000150	18438	18463	-25	0
UA0000151	18951	18953	-2	0
UA0000152	1091	1093	-2	0
UA0000153	5626	5649	-23	0
UA0000154	1674	1675	-1	0
UA0000155	3686	2953	733	20
UA0000156	665	666	-1	0
UA0000157	1896	1899	-3	0
UA0000158	4713	4715	-2	0
UA0000159	6902	6963	-61	-1

2.5. Sites location in the bio-geographical region, according to the spatial datasets

This is only for your information. Please see recommendations in QAQC Chapter 3.

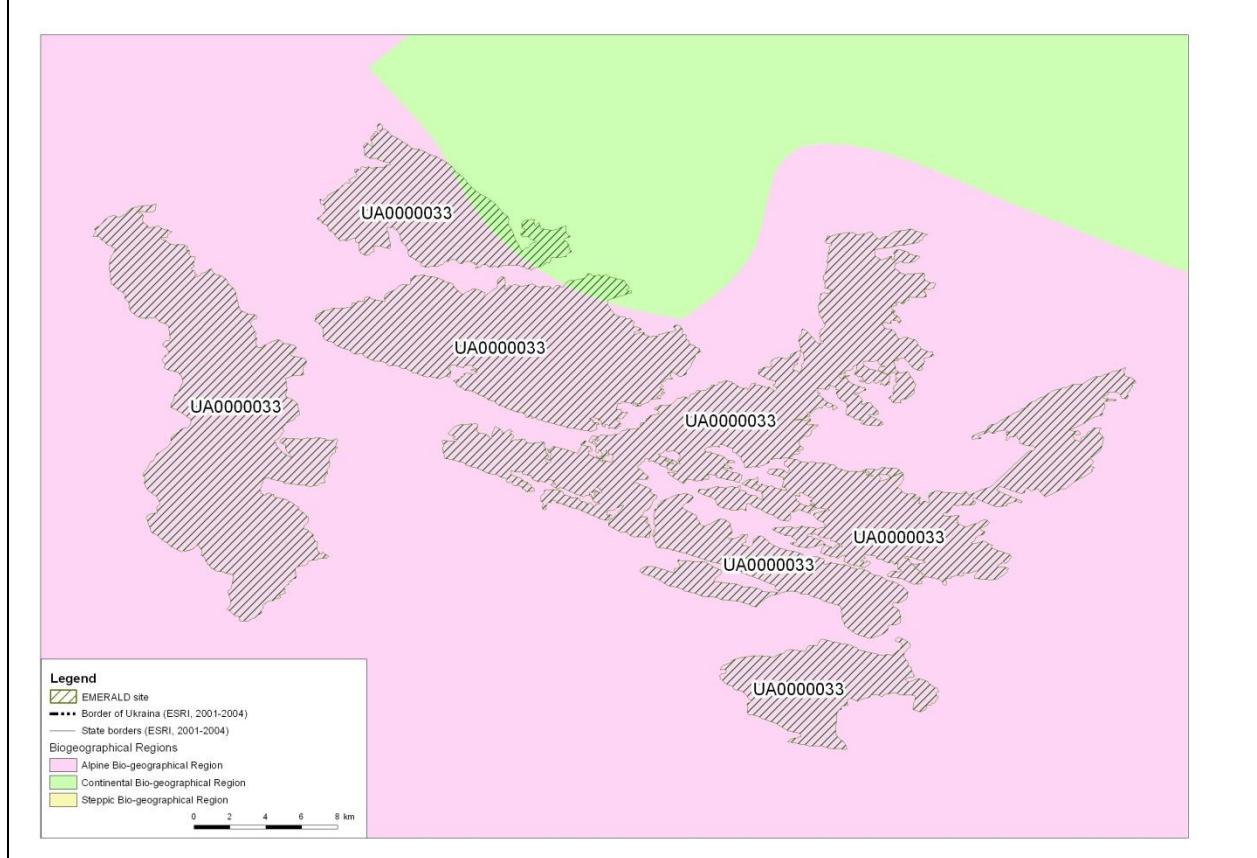
Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000001	NO	YES	NO	-
UA0000002	YES	NO	NO	-
UA0000003	NO	YES	NO	-
UA0000004	NO	NO	YES	-
UA0000005	NO	NO	YES	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000006	YES	YES	NO	-



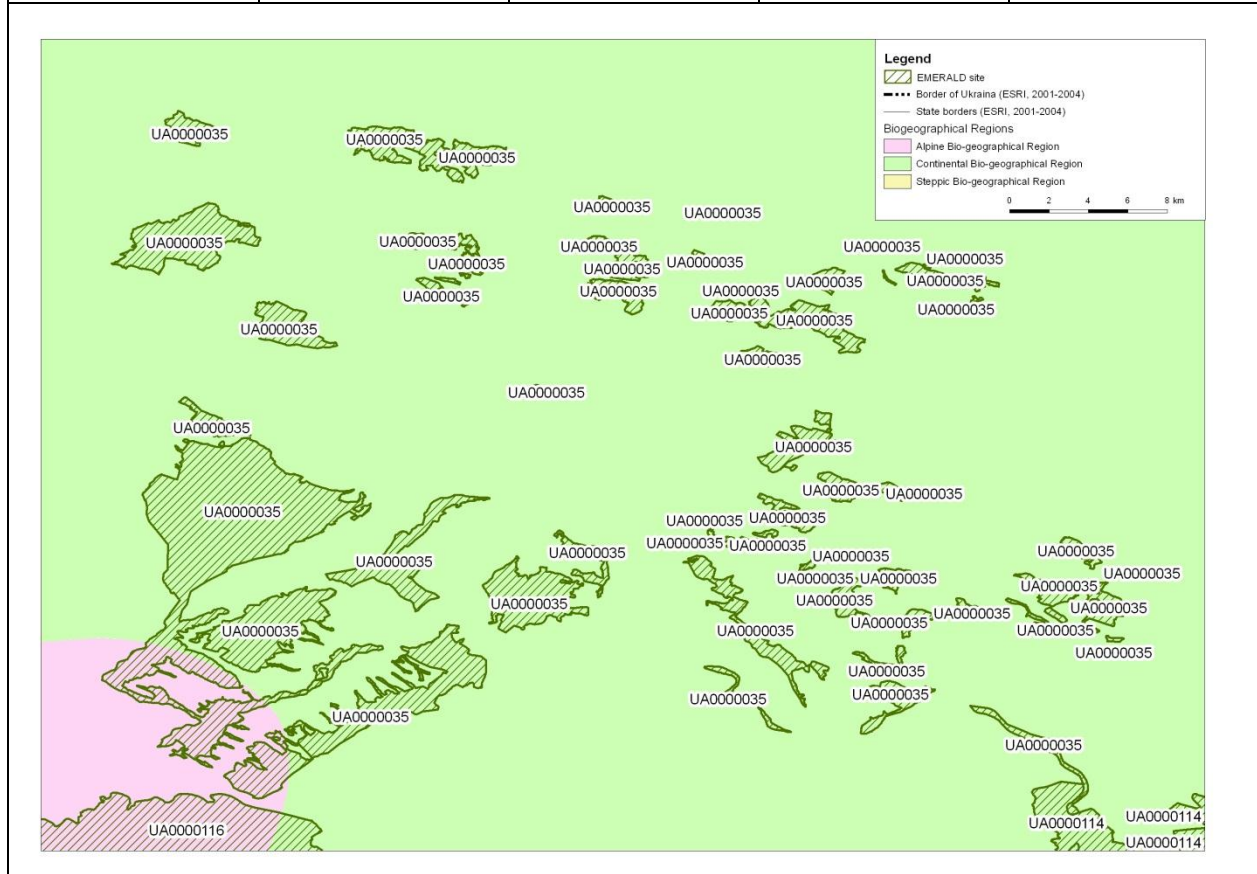
UA0000007	NO	NO	YES	-
UA0000008	NO	NO	YES	-
UA0000009	NO	NO	YES	-
UA0000010	NO	YES	NO	-
UA0000011	NO	YES	NO	-
UA0000012	NO	YES	NO	-
UA0000013	YES	NO	NO	-
UA0000014	YES	NO	NO	-
UA0000015	NO	NO	YES	-
UA0000016	NO	NO	YES	-
UA0000017	NO	NO	YES	-
UA0000018	NO	NO	YES	-
UA0000019	NO	NO	YES	-
UA0000020	NO	NO	YES	-
UA0000021	NO	NO	YES	-
UA0000022	NO	NO	YES	-
UA0000023	NO	YES	NO	-
UA0000024	NO	YES	NO	-
UA0000025	NO	YES	NO	-
UA0000026	YES	NO	NO	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000027	NO	NO	YES	-
UA0000028	YES	NO	NO	-
UA0000029	NO	NO	YES	-
UA0000030	NO	YES	NO	-
UA0000031	NO	YES	NO	-
UA0000032	YES	NO	NO	-
UA0000033	YES	NO	NO	-



UA0000034	NO	YES	NO	-
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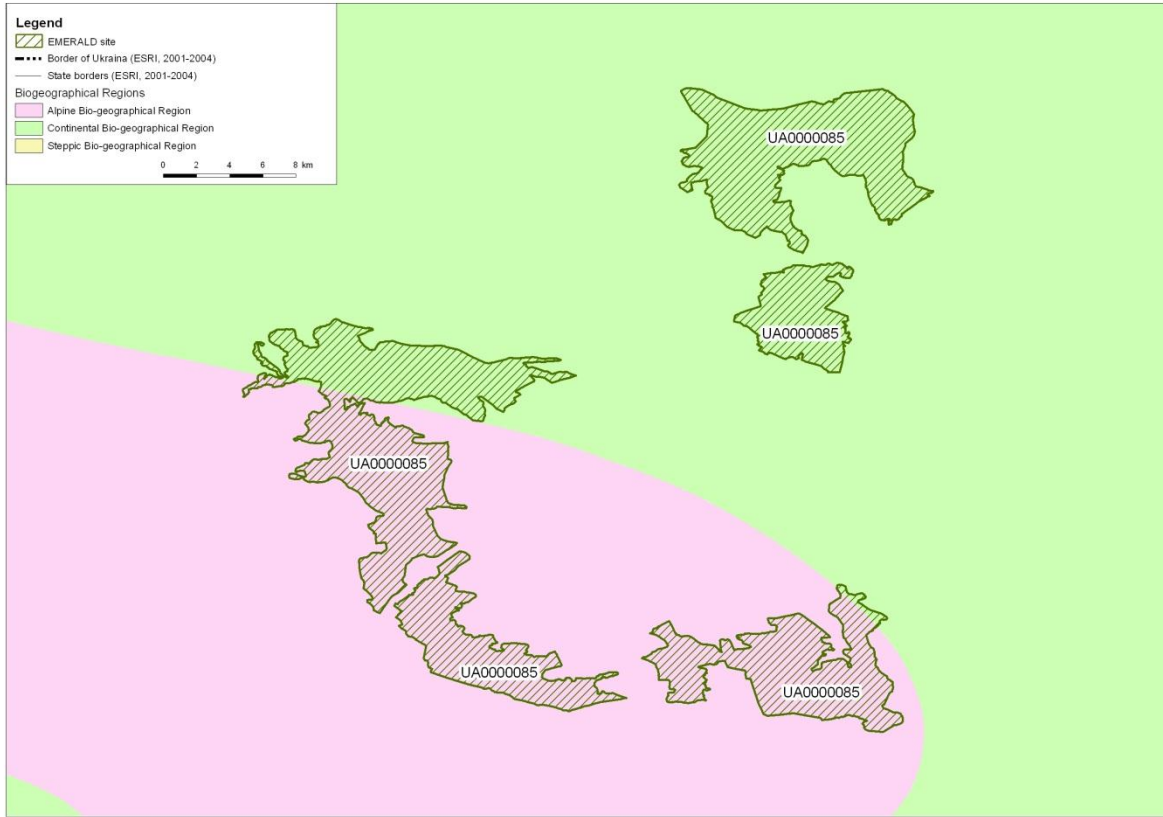
Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000035	YES	YES	NO	-



UA0000036	NO	YES	NO	-
UA0000037	NO	NO	YES	-
UA0000038	NO	YES	NO	-
UA0000039	NO	NO	YES	-
UA0000040	NO	NO	YES	-
UA0000041	YES	NO	NO	-
UA0000042	NO	YES	NO	-
UA0000043	NO	YES	NO	-
UA0000044	NO	YES	NO	-
UA0000045	NO	YES	NO	-
UA0000046	NO	YES	NO	-
UA0000047	NO	YES	NO	-
UA0000048	NO	YES	NO	-
UA0000049	NO	YES	NO	-
UA0000050	NO	YES	NO	-
UA0000051	NO	YES	NO	-
UA0000052	NO	YES	NO	-
UA0000053	NO	YES	NO	-
UA0000054	NO	YES	NO	-
UA0000055	NO	YES	NO	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000056	NO	YES	NO	-
UA0000057	NO	YES	NO	-
UA0000058	NO	YES	NO	-
UA0000059	NO	YES	NO	-
UA0000060	NO	YES	NO	-
UA0000061	NO	YES	NO	-
UA0000062	NO	YES	NO	-
UA0000063	NO	NO	YES	-
UA0000064	NO	NO	YES	-
UA0000065	NO	NO	YES	-
UA0000066	NO	NO	YES	-
UA0000067	NO	NO	YES	-
UA0000068	NO	NO	YES	-
UA0000069	NO	NO	YES	-
UA0000070	NO	NO	YES	-
UA0000071	NO	NO	YES	-
UA0000072	NO	YES	NO	-
UA0000073	NO	NO	YES	-
UA0000074	NO	NO	YES	-
UA0000075	NO	YES	NO	-
UA0000076	NO	NO	YES	-
UA0000077	NO	YES	NO	-
UA0000078	NO	NO	YES	-
UA0000079	NO	NO	YES	-
UA0000080	NO	NO	YES	-
UA0000081	NO	NO	YES	-
UA0000082	NO	YES	NO	-
UA0000083	NO	YES	NO	-
UA0000084	YES	NO	NO	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000085	YES	YES	NO	-



UA0000086	NO	YES	NO	-
UA0000087	NO	YES	NO	-
UA0000088	NO	YES	NO	-
UA0000089	NO	YES	NO	-
UA0000090	NO	YES	NO	-
UA0000091	NO	YES	NO	-
UA0000092	NO	NO	YES	-
UA0000093	NO	NO	YES	-
UA0000094	NO	YES	NO	-
UA0000095	NO	YES	NO	-
UA0000096	NO	YES	NO	-
UA0000097	NO	NO	YES	-
UA0000098	NO	YES	NO	-
UA0000099	NO	YES	NO	-
UA0000100	NO	YES	NO	-
UA0000101	NO	YES	NO	-
UA0000102	NO	YES	NO	-
UA0000103	NO	YES	NO	-
UA0000104	NO	NO	YES	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000105	NO	YES	YES	-

Legend

- EMERALD site
- Border of Ukraina (ESRI, 2001-2004)
- State borders (ESRI, 2001-2004)

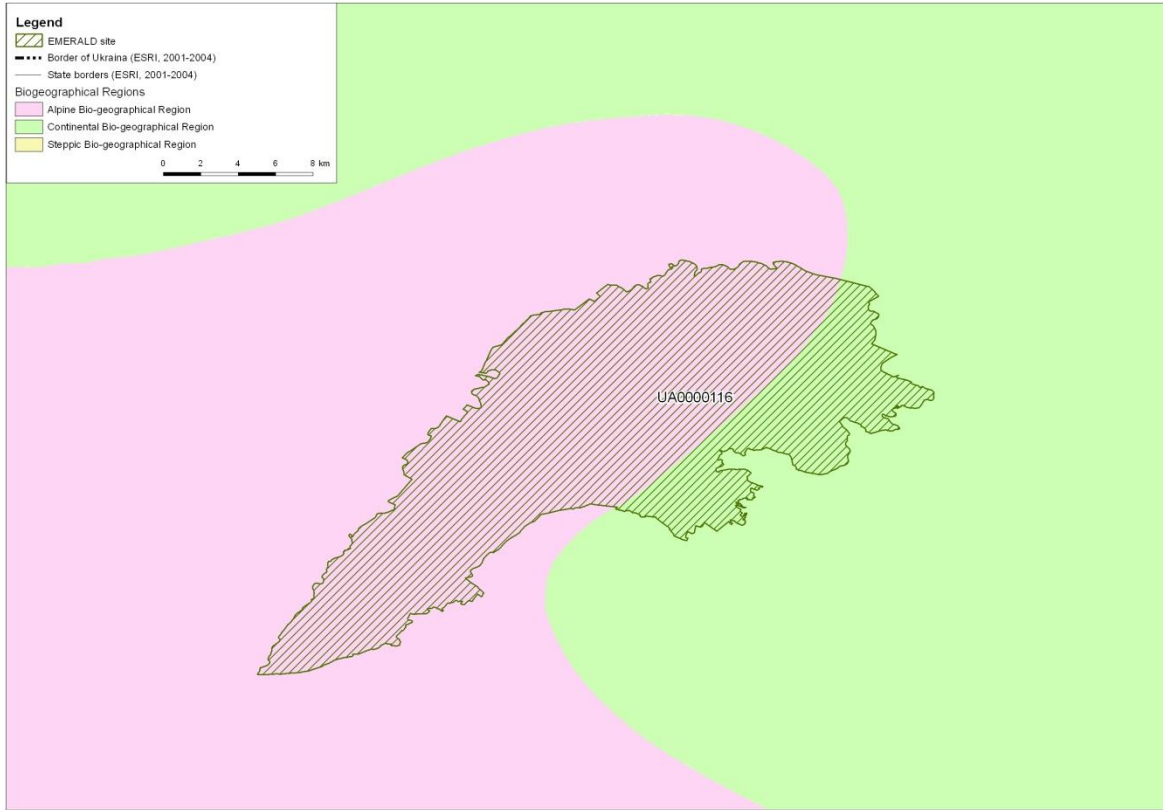
Biogeographical Regions

- Alpine Bio-geographical Region
- Continental Bio-geographical Region
- Steppic Bio-geographical Region

0 2 4 6 8 km

UA0000106	NO	NO	YES	-
UA0000107	NO	NO	YES	-
UA0000108	NO	NO	YES	-
UA0000109	NO	NO	YES	-
UA0000110	NO	YES	NO	-
UA0000111	NO	YES	NO	-
UA0000112	NO	YES	NO	-
UA0000113	NO	YES	NO	-
UA0000114	NO	YES	NO	-
UA0000115	YES	NO	NO	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000116	YES	YES	NO	-

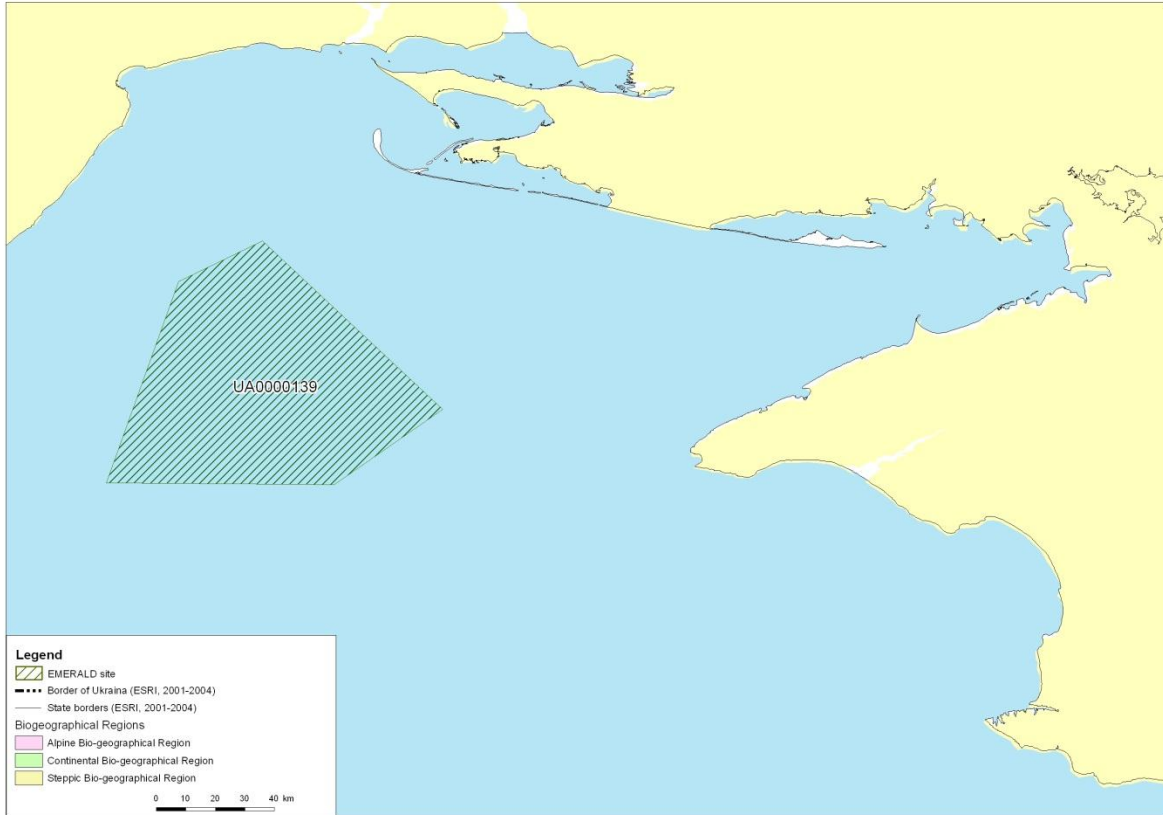


UA0000117	YES	NO	NO	-
UA0000118	YES	NO	NO	-
UA0000119	YES	NO	NO	-
UA0000120	NO	YES	NO	-
UA0000121	NO	YES	NO	-
UA0000122	NO	YES	NO	-
UA0000123	NO	YES	NO	-
UA0000124	NO	YES	NO	-
UA0000125	YES	NO	NO	-
UA0000126	NO	NO	YES	-
UA0000127	NO	NO	YES	-
UA0000128	NO	NO	YES	-
UA0000129	NO	NO	YES	-
UA0000130	NO	NO	YES	-
UA0000131	NO	NO	YES	-
UA0000132	NO	NO	YES	-
UA0000133	NO	YES	NO	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000134	NO	YES	YES	-
UA0000135	NO	YES	YES	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000136	NO	NO	YES	-
UA0000137	NO	NO	YES	-
UA0000138	NO	NO	YES	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000139	NO	NO	YES	Marine site, located in the Black Sea



UA0000140	NO	NO	YES	-
UA0000141	NO	NO	YES	-
UA0000142	NO	NO	YES	-
UA0000143	NO	NO	YES	-
UA0000144	NO	YES	NO	-
UA0000145	NO	YES	NO	-
UA0000146	NO	YES	NO	-
UA0000147	NO	YES	NO	-
UA0000148	NO	NO	YES	-
UA0000149	NO	YES	NO	-
UA0000150	NO	NO	YES	-
UA0000151	NO	NO	YES	-
UA0000152	NO	NO	YES	-
UA0000153	NO	YES	NO	-
UA0000154	NO	NO	YES	-
UA0000155	NO	NO	YES	-
UA0000156	NO	NO	YES	-
UA0000157	NO	NO	YES	-
UA0000158	NO	NO	YES	-

Sitecode	ALPINE	CONTINENTAL	STEPPIC	Notes
UA0000159	NO	YES	NO	-

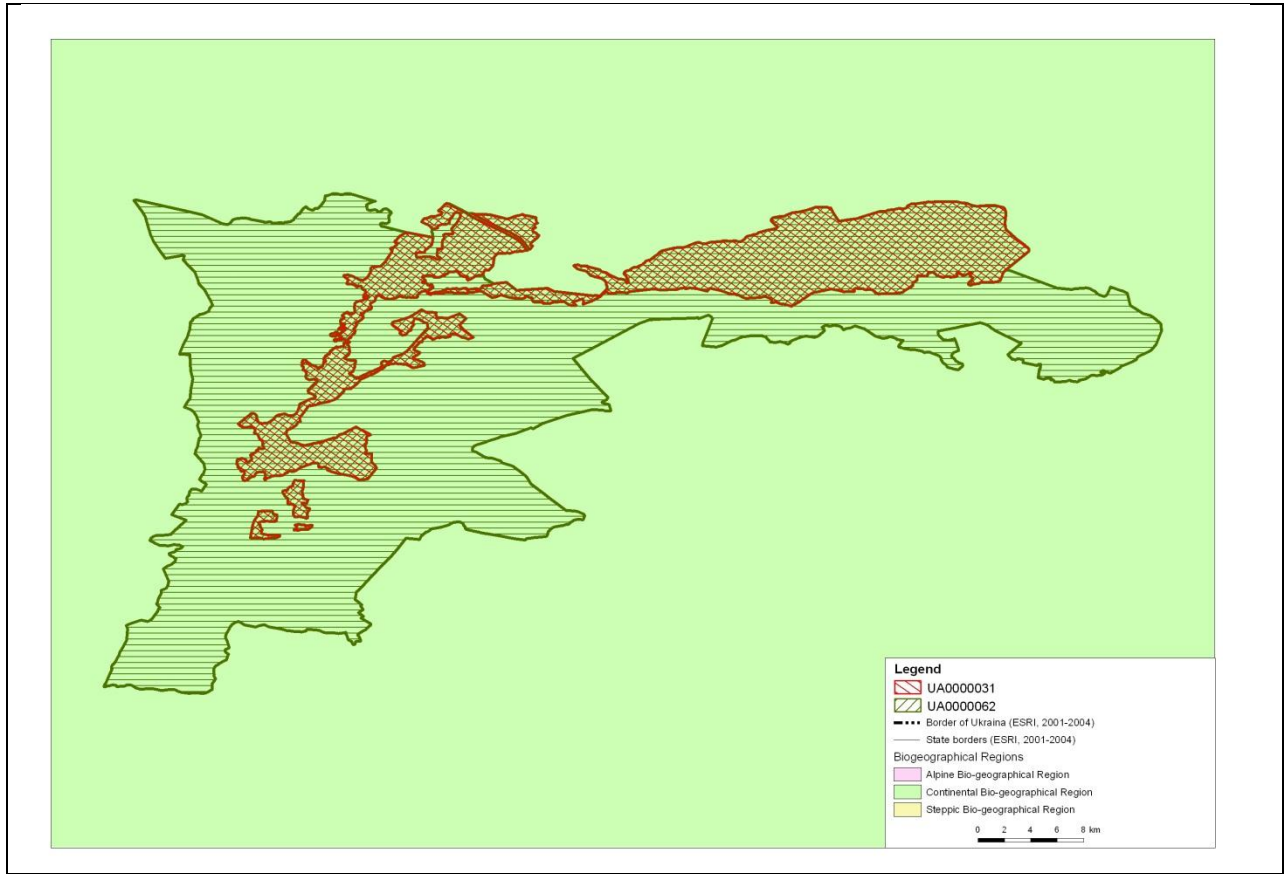
2.6. Are there any obvious errors with site's location within the state boundaries?

As far as it can be judged from the available spatial data, all sites are located within the state's boundaries

2.7. Other important observations

Sites that spatially overlap:

Sitecode 1	Sitecode 2	Sitecode 3
UA0000121	UA0000030	UA0000003
UA0000031	UA0000062	-



3. DESCRIPTIVE DATA: SCIENTIFIC COMPLETENESS AND SOUNDNESS

The aim of this check is to ensure scientific quality of the data and to minimize the need to correct/complete these issues during the preparations for bio-geographical seminars. Please correct the issues indicated below. 'OK' means that no action is required.

3.1. Problems with indication of bio-geographic regions?

No regions indicated for following sites; please correct

SITECODE	SITE_NAME	ALP	CON	PAN	STE
UA0000006	Karpatskyi BR	0	0	0	0
UA0000054	Makoshynskiy zakaznyk	0	0	0	0
UA0000074	Dvorichanskyi NNP	0	0	0	0
UA0000097	Biloberezhzhia Sviatoslava NNP	0	0	0	0
UA0000152	Gora Bielaia	0	0	0	0
UA0000153	Zgarskyi	0	0	0	0

Please check region indications marked in pink. According to our analysis they seem to be wrong in tabular database and should be corrected according to spatial data (please see also spatial analysis chapter of QA/QC report).

SITECODE	Spatial			Tabular		
	ALP	CON	STE	ALP	CON	STE
UA0000006	YES	YES	NO	NO	NO	NO
UA0000019	NO	NO	YES	NO	YES	YES
UA0000032	YES	NO	NO	NO	NO	NO
UA0000033	YES	NO	NO	NO	YES	NO
UA0000035	YES	YES	NO	NO	YES	NO
UA0000041	YES	NO	NO	NO	NO	NO
UA0000054	NO	YES	NO	NO	NO	NO
UA0000071	NO	NO	YES	NO	YES	NO
UA0000073	NO	NO	YES	NO	YES	NO
UA0000085	YES	YES	NO	YES	NO	NO
UA0000097	NO	NO	YES	NO	NO	NO
UA0000098	NO	YES	NO	NO	NO	YES
UA0000105	NO	YES	YES	NO	NO	YES
UA0000113	NO	YES	NO	NO	NO	YES
UA0000116	YES	YES	NO	NO	YES	NO
UA0000126	NO	NO	YES	YES	NO	NO
UA0000134	NO	YES	YES	NO	NO	YES
UA0000135	NO	YES	YES	NO	NO	YES
UA0000153	NO	YES	NO	NO	NO	NO
UA0000155	NO	NO	YES	NO	YES	NO
UA0000159	NO	YES	NO	NO	NO	YES

3.2. Is habitat cover filled at least for a majority of sites? Are records logical, i.e. do not exceed 100% (for the old SDF). Are there 0% values?

Account of possible problems in 'habit1' table:

SITE_CODE	Description
-	OK, yes, for all. No decimals used – very many '1' records, which would give a very robust habitat area estimates for large sites. Relative cover in most cases is C, which could be a case in a large country. No D's.
UA0000055	Site in 'habit1' table, but not in 'biotop' table
UA0000056	Site in 'habit1' table, but not in 'biotop' table
UA0000057	Site in 'habit1' table, but not in 'biotop' table
UA0000061	Site in 'habit1' table, but not in 'biotop' table
UA0000075	Site in 'habit1' table, but not in 'biotop' table
UA0000076	Site in 'habit1' table, but not in 'biotop' table
UA0000077	Site in 'habit1' table, but not in 'biotop' table
UA0000081	Site in 'habit1' table, but not in 'biotop' table

3.3. Are site assessments complete at least for a majority of sites, i.e. at least POPULATION for species? Are there any obvious problems with the use of categories (ABCD)?

Account of possible problems

Table	Remarks
amprep	OK. Population assessments seem reasonable. [Res. 6 species only]
bird	OK. Population assessments and quantitative data given nearly for all records. Numbers presented as < or > 'value'. Would it be possible to correct it to min-max assessments? [Also non-Res. 6 species]
fish	OK. Population assessments seem reasonable. [Res. 6 species only]
invert	OK. A high proportion of all invertebrate records are 'D' [Res. 6 species only].
mammal	OK. Population assessments seem reasonable. [Res. 6 species only]
plant	OK. Most population assessments are 'B'. [Res. 6 species only]

3.4. Are there double-records for species/site?

Account of possible problems

Table	Remarks
amprep	OK. No duplicates
bird	OK. No duplicates
fish	OK. No duplicates
invert	OK. No duplicates
mammal	OK. No duplicates
plant	OK. No duplicates

3.5. Are there double-records for habitats/site?

Account of possible problems

Table	Remarks
Habit1	Site UA0000047 has two identical habitat C1.225 records. Please delete one of them.

3.6. Are numeric data available for POPULATION, at least for birds and mammals?

Account of possible problems

Remarks
Very good numeric data for birds and plants (!)

3.7. Are there any obvious gaps in representation of all features of Resolutions 4 and 6 in the database (according to the Reference List)?

Account of possible problems

Group	Code	Description
Habitats	-	OK. No gaps – all habitats from the Reference List have at least one site.
Non-avian species	1910	Pteromys volans. No site (really in UA?)
	2612	Microtus tatricus. No site
	2613	Spalax graecus. No site
	2633	Mustela eversmanii. No site

	2635	Vormela peregusna. No site
	2647	Bison bonasus. No site
	4408	No such code. Check Reference List.
Birds	-	OK. No gaps – all species from the Reference List have at least one site.

3.8. Are there unrealistic POPULATION SIZE x SITE AREA relationships or use of species status categories?

Account of possible problems

SITE_CODE	Species name	Description
-	Many bird species, but check also other groups	There is '1' in the 'Resident' field, including also for many true migratory species, which is clearly wrong. This is confusing; please correct.
-	Many bird species, but check also other groups	The field 'Staging' in birds and other migratory species is used only for species that are congregatory – i.e. in some places and seasons they occur in high concentrations (e.g. ducks, swans, geese, waders, seabirds). The database, however, includes such records also for passerines and other groups, which don't make much sense (e.g. in case of Parus major). Option: delete?

3.9. Are there obvious or substantial gaps in site distribution?



Account of possible problems

Description
Few gaps in central CON and STE parts, as well as in central Crimea

3.10. Are species names used correctly (obvious errors)?

Account of possible problems

Species name	Description
Callimorpha quadripunctaria	Name misspelt in site: UA0000098, UA0000113.
Ophiogomphus cecilia	Name misspelt in site: UA0000133.
Stephanopachys substriatus	Name misspelt in site: UA0000101.
-	Many species names contain brackets. For example a bird Xenus cinereus (A167) has 3 ways of recording name: Xenus cinereus, Xenus cinereus

	<p>(Tringa cinereus) and Xenus cinereus (Tringa cinereus) 2.</p> <p>Apparently in some cases scientific name is supported with a local name, e.g. Triturus cristatus – òðèòíí ãðáá³í÷àñòèé.</p> <p>Clean scientific name, as in Res. 6, is preferred in all cases! Please correct.</p>
-	<p>Many species names appear to be with extra spaces (e.g., ‘Glaucidium passerinum_’ or ‘_Glaucidium passerinum’, thus they appear in double when searched for. This could cause errors if a species is searched by name. Please correct this if possible.</p>

3.11. Are species and habitat codes used correctly (obvious errors)?

Account of possible problems

Feature code	Description
-	No obvious problems at this stage of evaluation

3.12. Does each site have at least one feature of Res. 4 and/or Res.6?

Account of possible problems

SITE_CODE	Description
-	OK. Yes, all sites in ‘biotop’ table (151) have at least one Res. 4 and/or 6 feature.

3.13. Other useful observations?

Account of possible problems

Description
None.