

**European Environment Agency
European Topic Centre on Biological Diversity**



**European Common Database on Nationally
Designated Areas - ECDDA-National**

Report on technical validation analysis of National Database

Switzerland

version. 2 - September 2007

1 Introduction

This report shows results of EEA automated validation procedures run on the national CDDA data after the initial merge into the European dataset (ECDDA)

Report is divided in two main parts. Main statistics chapter shows overall summary of content of data tables. Data analysis contains results of individual validation procedures and has three sections, one for each data table. At the beginning of each of the section is a summary showing the most important findings for each field of the respective table. It shows also order number of individual test where more detailed information about the finding can be found. Findings which are pointing to some gap, error or discrepancy are highlighted.

You can navigate through the report by bookmarks you can see on the left side of this PDF document

Tip:

Use the table summary as a starting point. Here you can quickly see what is wrong with your national database (highlighted comments). Then use the bookmarks to jump directly on the detailed test result and check it.

Each result is marked according its relevance to data quality and correction urgency. There are 3 types of marks:

- i** Result is informative. It doesn't require any necessary or immediate action to improve data quality.
- ?** Data contained or quantified in the result may or may not require some actions with respect to their quality. More detailed information in the description of the result will help to decide which data are erroneous.
- !** Result contains or quantifies erroneous data which have to be corrected. The error usually violates some of the logical rules related to particular data.
- i ? !** Marks have green color if no records were detected in the test. As they wouldn't have much sense, detailed descriptions of such tests are also not displayed.

Tip:

At first you should put focus on red ! results. Second important are violet ? results where some of fields in table are highlighted with red color. Blue i results are just for information. And green marked results need no action on your part.

At the beginning of each result the number of detected records is shown and if it is possible and useful the percentage of total number of records is also shown. The validation result itself can be presented in few different ways.

1. Tabular result contains most information. Some fields in the table may be highlighted. What the highlighting means is explained in the legend above the table.
2. Condensed list is shown for results where the amount of detected records is so large that the detailed tabular presentation would not be practical. Some of the condensed lists are accompanied with short summary of main facts and findings.
3. A summary alone is provided in the few cases where the amount of records detected by a test is so huge that not even the condensed list would be useful (i.e. more than 3,000 cases).

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i 3 Main statistics

This test is comparing record numbers per table as coming from dataset prepared to be updated at national level and updated dataset delivered by country.

Records marked to be deleted are not counted into that comparison!

Legend - highlightings of result table fields

Number of records in new dataset  Decrease

 Increase

 value No record

Number of data tables: 3

Table	Number of records in	
	old dataset	new dataset
designations	24	24
sites	3127	3127
sitehabitats	0	0

3.1 Field completeness

This test is comparing field completeness (counting not empty cells in tables) per table as coming from dataset prepared to be updated at national level and updated dataset delivered by country.


General formatting note:

Records marked to be deleted are not counted into that comparison.

Legend - highlightings of result table fields


Records filled in new  Decrease

 Increase

 value No value in mandatory fields

Completeness in new  Decrease

 Increase

 value Impossible to calculate (dividing by 0). Table contains no records!

i 3.1.1 Designations table

Number of columns: 16

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
ISO3	24	24	100.00	100.00
DESIG_ABBR	24	24	100.00	100.00
Category	22	22	91.67	91.67
ODESIGNATE	24	24	100.00	100.00
DESIGNATE	23	23	95.83	95.83
Title_French	22	22	91.67	91.67
CDDA_sites	22	22	91.67	91.67
Law	14	11	58.33	45.83
Lawreference	14	11	58.33	45.83
Agency	15	12	62.50	50.00
Number	12	12	50.00	50.00

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
Total_Area	12	12	50.00	50.00
Data_Source	10	10	41.67	41.67
Reference_date	10	10	41.67	41.67
Remark	9	9	37.50	37.50
Remark_Source	9	9	37.50	37.50

i 3.1.2 Sites table

Number of columns: 18

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
SITE_CODE	3127	3127	100.00	100.00
SITE_CODE_NAT	3088	3088	98.75	98.75
ISO3	3127	3127	100.00	100.00
DESIG_ABBR	3127	3127	100.00	100.00
AREANAME	3127	3127	100.00	100.00
SIZE	3044	3044	97.35	97.35
IUCNCAT	3127	3127	100.00	100.00
NUTS	3127	3127	100.00	100.00
YEAR	3102	3102	99.20	99.20
ALTITUDE_MIN	5	5	0.16	0.16
ALTITUDE_MAX	4	4	0.13	0.13
LAT	2135	2135	68.28	68.28
LON	2135	2135	68.28	68.28
EIONET_CHNG_DATE	0	0	0.00	0.00
EIONET_CHNG_TYPE	0	0	0.00	0.00
EIONET_EDITED_BY	0	0	0.00	0.00
EIONET_INSTITUTE	0	0	0.00	0.00
NOTES	0	0	0.00	0.00

i 3.1.3 Sitehabitats table

Number of columns: 3

Field	records filled in old	records filled in new	completeness (%) in old	completeness (%) in new
SITE_CODE	0	0	N/A	N/A
EUNIS_Hab	0	0	N/A	N/A
Cover	0	0	N/A	N/A

4 Analysis of data

4.1 Designations table

Following tests are performed with full designation table as it was updated at national level and meaning of tests is to validate data at technical point of view as well as give basic statistics.

Records marked to be deleted are also included in the test results. They are written in gray italic font to recognize them.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3898

Summary of the test results

Following table shows overall comments for individual fields of the table. It is a summary aggregated from detailed results.

Designations marked to be deleted are not counted in the summary with exceptions of fields where such records are subjects of the test.

Comments in bold font shows errors or other discrepancies in data.

Column "Detailed test" shows numeric code of particular test where the information shown in table was extracted from. You may check that test result if more details are required.

Field	Comment	Detailed test
ISO3	Filled correctly	4.1.06
DESIG_ABBR	No new designations	4.1.01
	No designations marked to be deleted.	4.1.03
	All designations have designation code	4.1.07
Category	All designations have "Category" code	4.1.11
ODESIGNATE	Filled correctly	4.1.15
DESIGNATE	1 designation (CH11) has missing English name!	4.1.15
Title_French	2 designations have missing French name	
CDDA_sites	4 designations are marked not creating sites ("Total_Area_reference" is missing for all of them). Explanantion in "Remark" is missing for all of them! Check whether it is not an error!	4.1.17
Law	10 designations have missing "Law"!	4.1.18
Lawreference	11 designations have missing "Lawreference"!	4.1.18
Agency	10 designations have missing "Agency"!	4.1.19
Number, Total_Area	Filled correctly	4.1.20
Number_reference	10 designations have "Number_reference" filled.	4.1.23
Total_Area_reference	10 designations have "Total_Area_reference" filled.	4.1.23
Data_Source	10 designations have "Data_Source" filled.	4.1.23
Reference_date	10 designations have "Reference_date" filled.	4.1.23
Remark	9 designations have "Remark" filled. Check also other field comments whether some explanations are not missing here.	4.1.24
Remark_Source	9 designations have "Remark_Source" filled.	4.1.24
To_be_deleted	No designation marked to be deleted	4.1.03

i 4.1.01 New designations

Number of new records in the designations table: **0**

! 4.1.02 Designations deleted without marking them to be deleted

Number of detected records: **0**

? 4.1.03 Designations marked to be deleted

Number of detected records: **0**

i 4.1.04 Comparison of number of sites and total area of individual designations between old and new datasets

That test is comparing number and total area of sites as it is coming from sites table as well as from boundary files of previous and current update of data and is presenting result per designation.

Legend - highlightings of result table fields

- Number of sites in new dataset
 - Decrease
 - Increase
- Number of sites in GIS
 - Some sites from new dataset are missing in boundary data
- Total area in new dataset
 - Decrease
 - Increase
- Total area in GIS
 - Difference between total site size in new dataset and boundary data is greater than 5%

Number of detected records: **24**

ISO3	DESIG ABBR	Number of sites in			Total area (ha) in		
		old dataset	new dataset	GIS	old dataset	new dataset	GIS
CHE	CH00	0	0	0	0	0	
CHE	CH01	1	1	0	17032.75	17032.75	
CHE	CH02	546	546	0	4928.16	4928.16	
CHE	CH03	282	282	0	22554.88	22554.88	
CHE	CH04	1164	1164	0	19190.82	19190.82	
CHE	CH05	773	773	0	11681.88	11681.88	
CHE	CH06	0	0	0	0	0	
CHE	CH07	89	89	0	625372.36	625372.36	
CHE	CH08	162	162	0	780580	780580	
CHE	CH09	28	28	0	19045.02	19045.02	
CHE	CH10	41	41	0	150920.7	150920.7	
CHE	CH11	2	2	0	56482.12	56482.12	
CHE	CH21	0	0	0	0	0	
CHE	CH22	0	0	0	0	0	
CHE	CH23	0	0	0	0	0	
CHE	CH24	0	0	0	0	0	
CHE	CH31	0	0	0	0	0	

ISO3	DESIG ABBR	Number of sites in			Total area (ha) in		
		old dataset	new dataset	GIS	old dataset	new dataset	GIS
CHE	CH32	0	0	0	0	0	
CHE	CH33	0	0	0	0	0	
CHE	CH34	0	0	0	0	0	
CHE	CH51	0	0	0	0	0	
CHE	CH52	2	2	0	64	64	
CHE	CH90	37	37	0	95368	95368	
CHE	CH99	0	0	0	0	0	
		3127	3127	0	1803220.69	1803220.69	

? 4.1.05 Designations not present in "SITES" table

That test is listing designations that do not have any site data reported in sites table. It shows designations having "CDDA_Sites" field marked both "Yes" and "No". Also "Remark" field entry is given to check if there is any reason explained especially for those marked "Yes" (they will create sites, but the data are just not there for some reason).

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21601

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=26791

Legend - highlightings of result table fields

Remark Explanation is missing why designations marked as creating sites, do not have any sites in Sites table!

Number of detected records: **12**

ISO3	DESIG ABBR	Category	ODESIGNATE	DESIGNATE	CDDA sites	Remark
CHE	CH00		Kein Schutzstatus	No Protection Status	False	
CHE	CH06	A	Inventar der Trockenwiesen und - weiden	Dry Grasslands	True	
CHE	CH21	A	Kantonale Naturschutzgebiete	Cantonal Nature Reserves	True	
CHE	CH22	A	Kommunale Naturschutzgebiete	Communal Nature Reserves	True	
CHE	CH23	A	Bewirtschaftungsverträge	Contracts of Management	True	
CHE	CH24	A	Kantonale Jagdbanngebiete	Cantonal Hunting Reserves	True	
CHE	CH31	B	Grundwasserschutzzonen	Groundwater Protected Areas	True	
CHE	CH32	B	Ufervegetation	Waterside Vegetation	False	
CHE	CH33	B	Heckenschutz	Protection of Hedges	False	
CHE	CH34	C	Private Naturschutzgebiete	Private Nature Reserves	True	
CHE	CH51	B	Geoparks	Geoparks	True	
CHE	CH99		Andere	Others	False	

! 4.1.06 Designations where ISO3 is empty

Number of detected records: **0**

! 4.1.07 Designations where "DESIG_ABBR" is empty

Number of detected records: **0**

! 4.1.08 Designations where "DESIG_ABBR" do not follow official naming convention

Number of detected records: 0

! 4.1.09 Designations where "DESIG_ABBR" is duplicated

Number of detected records: 0

i 4.1.10 Designations where "Category" has been changed

Number of detected records: 0

! 4.1.11 Designations where "Category" is empty (numeric part of "DESIG_ABBR" is different then "00" and "99")

Number of detected records: 0

! 4.1.12 Designations where "Category" is not present in official list ("DESIG_CATEGORIES" table)

Number of detected records: 0

i 4.1.13 Designations where "DESIGNATE" has been changed

Number of detected records: 0

! 4.1.14 Designations where "DESIGNATE" is empty

If English version of designation name is not there, but national name is there it should be explained in Remark field why. If both are missing it will be treated as error, because it will affect indicator production.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=22081

Legend - highlightings of result table fields

DESIGNATE Missing value (error)

Number of detected records: 1

ISO3	DESIG ABBR	Category	ODESIGNATE	DESIGNATE	Number of sites
CHE	CH11	A	Biosphärenreservate		2
					2

! 4.1.15 Designations where "ODESIGNATE" is empty

Number of detected records: 0

i 4.1.16 Designations where "CDDA_sites" has been changed

Number of detected records: 0

? 4.1.17 Designations where "CDDA_sites" is False (No)

When "CDDA_sites" entry is "No", user can be sure there will not be any site with that designation in sites table, if there is it is actually an error. Also it would be very relevant if explanation why that designation is not creating any sites would be entered into "Remark" field.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18922

Legend - highlightings of result table fields

- Total Area reference Missing value (designations which are not creating sites should have this value filled)
- Remark Explanation is missing! Check also records not highlighted whether the reason is properly explained!
- Number of Sites Designation marked not creating sites should not have any valid site in Sites table!

Number of detected records: 4

ISO3	DESIG ABBR	Category	DESIGNATE	CDDA sites	Total Area reference	Remark	Number of sites
CHE	CH00		No Protection Status	False			0
CHE	CH32	B	Waterside Vegetation	False			0
CHE	CH33	B	Protection of Hedges	False			0
CHE	CH99		Others	False			0
							0

! 4.1.18 Designations where "Law" or "Lawreference" is empty ("Category is else then "C")

"Law" and "Lawreference" entries are very needed to ensure legal background of designation and to allow any kind of juridical comparison of national designations in Europe, therefore it is very important that those fields are filled and also direct to articles in law as well as web links to the law when it is available.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20660

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18584

Legend - highlightings of result table fields

- Law Missing value (error)
- Lawreference Missing value (error)

Number of detected records: 11

ISO3	DESIG ABBR	Category	DESIGNATE	Law	Lawreference	Number of sites
CHE	CH01	A	Swiss National Park	Bundesgesetz über den Schweiz...		1
CHE	CH06	A	Dry Grasslands			0
CHE	CH11	A				2
CHE	CH21	A	Cantonal Nature Reserves			0
CHE	CH22	A	Communal Nature Reserves			0
CHE	CH23	A	Contracts of Management			0
CHE	CH24	A	Cantonal Hunting Reserves			0
CHE	CH33	B	Protection of Hedges			0
CHE	CH51	B	Geoparks			0
CHE	CH52	A	Forest Reserves			2

ISO3	DESIG ABBR	Category	DESIGNATE	Law	Lawreference	Number of sites
CHE	CH90	A	Nature Reserve			37
						42

! 4.1.19 Designations where "Agency" is empty

"Agency" field should contain highest authority that is responsible of particular designation and also very important is that there are added contacts of that authority, preferably also web link if it is there.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=24147

Legend - highlightings of result table fields

Agency Missing value (error)

Number of detected records: 10

ISO3	DESIG ABBR	Category	ODESIGNATE	DESIGNATE	Agency	Number of sites
CHE	CH06	A	Inventar der Trockenwiesen und -weiden	Dry Grasslands		0
CHE	CH21	A	Kantonale Naturschutzgebiete	Cantonal Nature Reserves		0
CHE	CH22	A	Kommunale Naturschutzgebiete	Communal Nature Reserves		0
CHE	CH23	A	Bewirtschaftungsverträge	Contracts of Management		0
CHE	CH24	A	Kantonale Jagdbannggebiete	Cantonal Hunting Reserves		0
CHE	CH33	B	Heckenschutz	Protection of Hedges		0
CHE	CH34	C	Private Naturschutzgebiete	Private Nature Reserves		0
CHE	CH51	B	Geoparks	Geoparks		0
CHE	CH52	A	Waldreservate	Forest Reserves		2
CHE	CH90	A	Naturschutzgebiete	Nature Reserve		37
						39

! 4.1.20 Designations where "Number" or "Total_Area" have been changed

Number of detected records: 0

? 4.1.21 Designations where "Number_reference" has been changed

Number of detected records: 0

? 4.1.22 Designations where "Total_Area_reference" has been changed

Number of detected records: 0

? 4.1.23 Designations where "Number_reference", "Total_Area_reference", "Date_Source" or "Reference_date" is not empty

These fields should be filled only when any official national data different of CDDA update is published in between two CDDA update deliveries.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28595





http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29521

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=19566

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21868

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=21868

Legend - highlightings of result table fields

Data Source		Missing value, error!
		Value is not required (both Number reference and Total Area reference are empty). Check whether it is not an error!
Reference date		Missing value, error!
		Value is not required (Number reference, Total Area and Data Source are empty). Check whether it is not an error!

Number of detected records: **10**

ISO3	DESIG ABBR	Number reference	Total Area reference	Data Source	Reference date	Number of sites
CHE	CH01	1	17032.75	BUWAL	19.6.2000	1
CHE	CH02	549	1524.45	BUWAL	1.5.2003	546
CHE	CH03	282	22617.65	BUWAL	1.12.2003	282
CHE	CH04	1163	19189.11	BUWAL	1.5.2004	1164
CHE	CH05	689	11672.97	BUWAL	1.12.2004	773
CHE	CH07	89	87372.8	BUWAL	1.5.2004	89
CHE	CH08	162	708704.29	BUWAL	1.4.1998	162
CHE	CH09	28	18919.82	BUWAL	1.5.2001	28
CHE	CH10	41	1500920.9	BUWAL	18.2.2004	41
CHE	CH11	2	56472.924	BUWAL	21.9.2001	2
						3088

i 4.1.24 Designations where "Remark" or "Remark_source" is not empty



Those two fields should always be filled together, so if there is any remark to be entered related to any field entry or gap of that particular record, please fill both Remark and Remark_source field. To latter put person and/or institution name who made remark. Users of data will seek for remarks when some field entries of record are missing or when some basic entries have changed. Remark can also be used to point the reason why for example site data of designation is missing in sites table.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20963

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23302

Legend - highlightings of result table fields

Remark Source		Missing value, error!
		Value is not required (Remark is empty). Check whether it is not an error!

Number of detected records: **9**

ISO3	DESIG ABBR	Category	DESIGNATE	Remark	Remark Source	Number of sites
CHE	CH01	A	Swiss National Park	Update surface	BUWAL	1
CHE	CH02	A	Raised and Transitional Bogs of National Importance	Reference relate to the last update of the ordonnance	BUWAL	546

CDDA - Report on analysis of National Database - Switzerland

ISO3	DESIG ABBR	Category	DESIGNATE	Remark	Remark Source	Number of sites
CHE	CH03	A	Floodplains of National Importance	Reference relate to the last update of the ordonnance	BUWAL	282
CHE	CH04	A	Fenlands of National Importance	Reference relate to the last update of the ordonnance	BUWAL	1164
CHE	CH05	A	Amphibian Breeding Sites of National Importance	Reference relate to the last update of the ordonnance	BUWAL	773
CHE	CH07	A	Mire Landscapes of National Importance	Reference relate to the last update of the ordonnance	BUWAL	89
CHE	CH08	A	Landscapes and Natural Monuments of National Importance	Reference relate to the last update of the ordonnance	BUWAL	162
CHE	CH09	A	Reserves for Waterbirds and Migrants of International and National Importance	Reference relate to the last update of the ordonnance	BUWAL	28
CHE	CH10	A	Federal Hunting Reserves	Reference relate to the last update of the ordonnance	BUWAL	41
						3086

4.2 Sites table

Following tests are performed with full sites table as it was updated at national level and meaning of tests is to validate data at technical point of view as well as give basic statistics.

Records marked to be deleted are also included in the test results. They are written in gray italic font to recognize them.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3530

Summary of the test results

Following table shows overall comments for individual fields of the table. It is a summary aggregated from detailed results.

Sites marked to be deleted are not counted in the summary with exceptions of fields where such records are subjects of the test.

Comments in bold font shows errors or other discrepancies in data.

Column "Detailed test" shows numeric code of particular test where the information shown in table was extracted from. You may check that test result if more details are required.

Field	Comment	Detailed test
SITE_CODE	No new sites	4.2.01
	No sites marked to be deleted	4.2.03
SITE_CODE_NAT	39 sites have missing national site code!	4.2.06
	427 national site codes are duplicated (1068 sites have these codes totaly)!	4.2.07
ISO3	Filled correctly	4.2.08
DESIG_ABBR	All sites have designation code	4.2.10
AREANAME	All sites have area name	4.2.13
	237 area names are duplicated (515 sites have these names totaly).	4.2.14
SIZE	83 sites have missing size!	4.2.16
IUCNCAT	All sites have IUCN category	4.2.19
	2 sites have IUCN categories (2 different categories) which are not present in official list!	4.2.20
NUTS	All sites have NUTS codes	4.2.21
YEAR	25 sites have missing year!	4.2.23
ALTITUDEs	3123 sites have missing at least one of altitudes!	4.2.25
LAT, LON	992 sites have missing coordinates!	4.2.29
	10 sites have coordinates outside of reference geographic area of the country!	4.2.30
	328 pairs of coordinates are duplicated (720 sites have these coordinates totaly).	4.2.31
To_be_deleted	No sites marked to be deleted	4.2.33
EIONET fields	No values were changed in old sites	4.2.34
NOTES	No site has "NOTES" filled.	4.2.32

i 4.2.01 New sites

Number of new records in the sites table: **0**

! 4.2.02 Sites deleted without marking them to be deleted

Number of detected records: **0**

? 4.2.03 Sites marked to be deleted

Number of detected records: **0**

! 4.2.04 Sites where "SITE_CODE" is duplicated

Number of detected records: **0**

i 4.2.05 Sites where "SITE_CODE_NAT" was changed

Number of detected records: **0**

! 4.2.06 Number of sites by designation where "SITE_CODE_NAT" is empty

It is very important that either SITE_CODE field or SITE_CODE_NAT field is NOT empty, because they both are relational key fields and it is not possible to perform any analysis with designated sites lists when at least one of those codes are not there.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29062

Legend - highlightings of result table fields

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: **2**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
CH52	Forest Reserves	2	100	64	0	0	0
CH90	Nature Reserve	37	100	95368	0	0	0
		39	1.25	95432	0	0	0

! 4.2.07 Sites where "SITE_CODE_NAT" is duplicated

SITE_CODE and SITE_CODE_NAT are relational key fields. If SITE_CODE is missing and SITE_CODE_NAT is duplicated it is impossible to relate tables properly and perform database analysis, therefore duplication of SITE_CODE_NAT is taken as an error.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=29062

Number of detected records: **1068**

Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):

list of duplicated SITE_CODE_NATs [number of duplications]
1 [6x], 10 [4x], 100 [3x], 1001 [2x], 1004 [2x], 1005 [2x], 1006 [2x], 1008 [2x], 101 [3x], 1010 [2x], 1011 [2x], 1013 [2x], 1017 [2x], 102 [3x], 1020 [2x], 103 [2x], 104 [3x], 1046 [2x], 105 [4x], 1057 [2x], 106 [3x], 107 [2x], 108 [3x], 109 [4x], 11 [5x], 110 [4x], 1101 [2x], 1102 [2x], 1104 [2x], 1105 [2x], 111 [3x], 1110 [2x], 1118 [2x], 112 [4x], 113 [3x], 114 [3x], 1147 [2x], 115 [4x], 116 [2x], 1161 [2x], 117 [2x], 118 [4x], 119 [4x], 12 [4x], 120 [3x], 1203 [2x], 1206 [2x], 121 [3x], 122 [3x], 1221 [2x], 123 [3x], 1231 [2x], 1238 [2x], 124 [3x], 1246 [2x], 1247 [2x], 125 [3x], 1254 [2x], 1258 [2x], 127 [2x], 128 [2x], 129 [2x], 13 [4x], 130 [2x], 1301 [2x], 1302 [3x], 1303 [2x], 1306 [2x], 1307 [2x], 1309 [2x], 131 [2x], 1310 [3x], 1312 [2x], 1314 [2x], 1315 [2x], 1316 [2x], 1318 [2x], 132 [3x], 1320 [2x], 133 [2x], 134 [2x], 1348 [2x], 135 [2x], 138 [2x], 139 [2x], 14 [4x], 140 [2x], 1401 [2x], 1402 [2x], 1404 [2x], 1405 [3x], 141 [2x], 142 [2x], 144 [2x], 145 [3x], 146 [2x], 147 [2x], 148 [2x], 149 [3x], 15 [3x], 150 [2x], 151 [2x], 1511 [2x], 1515 [2x], 154 [2x], 155 [2x], 1551 [2x], 156 [3x], 157 [2x], 158 [3x], 16 [4x], 160 [2x], 1606 [2x], 1608 [2x], 161 [3x], 162 [3x], 163 [3x], 164 [3x], 166 [3x], 167 [3x], 168 [3x], 169 [3x], 17 [2x], 170 [3x], 1704 [2x], 171 [3x], 1715 [2x], 172 [2x], 174 [3x], 175 [2x], 176 [2x], 177 [2x], 178 [2x], 179 [2x], 18 [4x], 180 [2x], 1801 [2x], 1807 [2x], 1808 [2x], 1809 [2x], 181 [2x], 1813 [2x], 183 [2x], 185 [3x], 187 [2x], 188 [2x], 189 [3x], 19 [5x], 190 [3x], 1901 [2x], 1903 [2x], 1909 [2x], 1911 [2x], 1913 [2x], 1919 [2x], 193 [2x], 194 [2x], 195 [3x], 196 [2x], 198 [3x], 2 [6x], 20 [3x], 200 [2x], 201 [2x], 202 [2x], 203 [2x], 204 [3x], 205 [3x], 206 [2x], 207 [2x], 208 [2x], 209 [2x], 21 [3x], 210 [2x], 211 [3x], 212 [2x], 213 [2x], 214 [2x], 215 [2x], 216 [3x], 217 [4x], 218 [3x], 219 [3x], 22 [3x], 220 [2x], 221 [2x], 222 [3x], 223 [2x], 224 [2x], 225 [2x], 226 [3x], 227 [4x], 228 [2x], 229 [3x], 23 [2x], 232 [2x], 233 [2x], 235 [3x], 236 [2x], 237 [2x], 238 [2x], 24 [3x], 245 [2x], 247 [2x], 25 [3x], 251 [2x], 252 [2x], 26 [3x], 260 [2x], 263 [2x], 264 [2x], 265 [3x], 267 [2x], 268 [2x], 269 [2x], 27 [5x], 275 [2x], 28 [3x], 280 [4x], 281 [2x], 286 [2x], 289 [2x], 29 [4x], 290 [2x], 296 [2x], 297 [2x], 3 [5x], 30 [3x], 301 [2x], 302 [2x], 303 [2x], 304 [2x], 305 [2x], 306 [2x], 307 [2x], 309 [2x], 31 [4x], 310 [2x], 311 [2x], 313 [2x], 314 [3x], 315 [4x], 316 [2x], 319 [3x], 32 [4x], 320 [3x], 322 [4x], 323 [3x], 324 [3x], 325 [3x], 326 [4x], 327 [2x], 328 [2x], 33 [4x], 331 [2x], 335 [2x], 336 [3x], 337 [2x], 338 [2x], 339 [3x], 34 [4x], 340 [2x], 341 [2x], 342 [3x], 343 [2x], 345 [2x], 35 [4x], 351 [3x], 354 [2x], 355 [2x], 356 [2x], 357 [4x], 358 [2x], 359 [3x], 36 [4x], 360 [2x], 361 [3x], 362 [2x], 364 [3x], 365 [2x], 367 [2x], 369 [3x], 37 [5x], 371 [2x], 373 [2x], 374 [2x], 38 [4x], 386 [2x], 39 [4x], 393 [2x], 394 [2x], 396 [2x], 4 [5x], 40 [3x], 400 [2x], 402 [2x], 406 [2x], 408 [2x], 41 [2x], 414 [2x], 416 [2x], 419 [2x], 420 [2x], 421 [3x], 426 [2x], 427 [2x], 43 [2x], 430 [2x], 431 [2x], 432 [2x], 434 [2x], 435 [2x], 438 [2x], 44 [2x], 45 [3x], 453 [2x], 456 [2x], 46 [3x], 461 [2x], 462 [2x], 467 [2x], 47 [3x], 470 [2x], 471 [2x], 474 [2x], 48 [3x], 483 [2x], 488 [2x], 49 [3x], 491 [2x], 5 [6x], 50 [2x], 501 [2x], 502 [2x], 503 [2x], 504 [2x], 505 [2x], 506 [2x], 507 [2x], 508 [2x], 51 [3x], 511 [2x], 52 [3x], 522 [2x], 523 [2x], 524 [2x], 526 [2x], 53 [3x], 531 [2x], 532 [2x], 536 [2x], 537 [2x], 540 [2x], 545 [2x], 546 [2x], 55 [4x], 550 [2x], 551 [2x], 553 [2x], 555 [2x], 556 [2x], 559 [2x], 56 [3x], 560 [2x], 563 [2x], 568 [2x], 57 [2x], 570 [2x], 572 [2x], 579 [2x], 58 [3x], 580 [2x], 583 [2x], 584 [2x], 585 [2x], 59 [3x], 593 [2x], 597 [2x], 6 [6x], 60 [2x], 600 [2x], 603 [2x], 607 [2x], 608 [2x], 61 [2x], 62 [3x], 64 [2x], 65 [3x], 66 [3x], 68 [3x], 69 [3x], 7 [6x], 70 [3x], 700 [2x], 701 [2x], 71 [3x], 72 [2x], 73 [2x], 74 [2x], 75 [3x], 76 [3x], 77 [3x], 78 [3x], 79 [2x], 8 [5x], 80 [3x], 81 [2x], 83 [3x], 86 [3x], 87 [3x], 88 [4x], 9 [6x], 91 [3x], 92 [3x], 93 [2x], 931 [2x], 933 [2x], 936 [2x], 938 [2x], 939 [2x], 94 [3x], 95 [2x], 96 [2x], 97 [3x], 98 [3x], 99 [3x], TG93 [2x]

! 4.2.08 Sites where "ISO3" is empty or incorrect

Number of detected records: 0

? 4.2.09 Sites where "DESIG_ABBR" was changed

Number of detected records: 0

! 4.2.10 Sites where "DESIG_ABBR" is empty

Number of detected records: 0

! 4.2.11 Number of sites by designation where "DESIG_ABBR" is not present in "DESIGNATIONS" table

Number of detected designations: 0

i 4.2.12 Sites where "AREANAME" was changed

Number of detected records: 0

? 4.2.13 Number of sites by designation where "AREANAME" is empty

Number of detected designations: 0

i 4.2.14 Sites where "AREANAME" is duplicated

Although the site name is not really a key field result of that test is given to be checked at national level if it corresponds to national database and also still suggestion is to give site names at national level such way that they also can be unique if it is possible of course, it will also help any kind of statistical analysis also at national level.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28137

Number of detected records: **515**

Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):

list of duplicated AREANMES [number of duplications]
Ägelsee [3x], Aletschwald [3x], Alp Flix [3x], Alp Nadels [2x], Alpe di Sceng [2x], Alpe Zaria [2x], Altenrhein [2x], Altschenchopf [2x], Altstofel [2x], Baldeggersee [2x], Barchetsee [3x], Bätzimatt [2x], Binntal [2x], Blimmoos [2x], Boggenberg [2x], Bolla di Loderio [2x], Bolle di Magadino [2x], Bolle di Piana Selva [2x], Boniger See [2x], Bosch de San Remo [2x], Breitmoos 1 [2x], Breitmoos 2 [2x], Breitried 1 [2x], Breitried 2 [2x], Buffalora [2x], Cadagno di fuori [2x], Canale Demanio [2x], Chapfensee [2x], Chatzensee [2x], Chli Trogen [2x], Chrutzelenmoos [2x], Chuchifang [2x], Ciossa Antognini [3x], Clavadeler Berg [2x], Col des Mosses [2x], Creux du Croue [3x], Creux du Van et Gorges de L'Areuse [2x], Delta della Maggia [2x], Dos le Cras [2x], Düdingermoos [2x], Eggweid auf dem Ricken [2x], Entenmoos [2x], Espel [2x], Etang de la Gruère [2x], Feldbach [2x], Feldmoos 1 [2x], Feldmoos 2 [2x], Filfalle [2x], Fischbacher Moos [3x], Forenmoos [2x], Frauenwinkel [2x], Friessen [2x], Frodalaria [2x], Fuchseren [2x], Fulensee [3x], Fulried am Stelzerberg [2x], Furenwald [2x], Garichti [2x], Gerenstock [2x], Gippinger Grien [2x], Giriz [2x], Girsch [2x], Gola di Lago [3x], Goldach [2x], Gontenmoos [5x], Grand Bataillard [2x], Gräppelen [2x], Grèves du lac [8x], Grimsel [2x], Grindelmoos [2x], Gros Mont [2x], Gross Lucht [2x], Gross Moos im Schwendital [2x], Grosse Scheidegg [2x], Gurisee [3x], Gürmschmoos [2x], Hagimoos [2x], Hagleren [3x], Hänsiried [2x], Harzisboden [2x], Hessenmoos [2x], Hilferenpass [2x], Hinterbergried [2x], Hinterschluhen [2x], Hobacher [2x], Hofguetmoor [2x], Hohgant [2x], Horneggwald [2x], Hudelmoos [4x], Huebermoos [2x], Im Fang [2x], In Erlen [2x], Inner und Usser Schnabel [2x], Juchmoos [2x], La Mosse d'en Bas [2x], La Thomasette [2x], Lac de Champex [2x], Lac de Lussy [3x], Lac de Tanay [2x], Lag digl Oberst [2x], Lagh Doss [2x], Lai Nair [2x], Lai Neir [2x], Langenmoos [2x], Längriet [2x], Lauenensee [4x], Lej da Staz [2x], Lengenschwand [2x], Les Embreux [2x], Les Eplatures-Temple [2x], Les Esserts [2x], Les Goudebas [2x], Les Grangettes [4x], Les Gurlen [2x], Les Mosses de la Rogivue [2x], Les Pontins [3x], Les Royes [3x], Les Tenasses [2x], Luegiboden [2x], Madiis [2x], Malcantone [2x], Marchmettlen [2x], Mettilimoos [2x], Mettlenmoos [2x], Mettmenhasler See [2x], Moor bei Lombachalp [2x], Moore am Schwyberg [2x], Moore auf Betelberg [2x], Moore auf dem Rickenpass [2x], Moore bei Steig und Scharlegg [2x], Moore hinder der Egg [2x], Moos [2x], Moosanger [2x], Moosweiher [2x], Moulin de Vert [2x], Munzenriet [2x], Naserina [2x], Ober Bad [2x], Ober Lauenberg [2x], Ober Sewen [2x], Obermattboden [2x], Ogna da Pardia [2x], Oltigenmatt [2x], Ostergau [2x], Pfaffenmoos [2x], Pfäffikersee [2x], Pian di Alne [2x], Pian Segna [2x], Pian Segno [2x], Plain de Saigne [2x], Platten [2x], Plaun da Foppas [2x], Plaun Segnas Sut [3x], Pointe à la Bise [2x], Pontet [2x], Potersalp [3x], Poutafontana [2x], Pra Coltello [2x], Pre Murin [2x], Prés de Villette [2x], Prodriet [2x], Reussdelta [2x], Riedboden bei Zischlig [2x], Riedereren [2x], Rischi [2x], Roblosen [2x], Rohrmoos [2x], Rongg [3x], Rorholz [2x], Rormettlen [2x], Rottenschwiler Moos [2x], Rüssmatten [2x], Rütermoos [2x], Sachsler Seefeld [2x], Sagnes de la Burtigniere [2x], Salomonstempel [2x], Schachen [2x], Schalenberg [2x], Scheidegg im Choltal [2x], Schindellegi [2x], Schluchhole [2x], Schnäggenmatten [2x], Schoren Schachen [2x], Schorengrindel [2x], Schwand [3x], Schwantenu [3x], Schwarzsee [2x], Schwendi Kaltbad [2x], Schwendiseen [2x], Sèche de Gimel [2x], Seeliboden im Choltal [2x], Seematten [2x], Seewadel [3x], Seeweidsee [2x], Sibeneichen [2x], Son Roc [2x], Spittelmatte [3x], Spitzmäder [2x], Station Wengernalp [2x], Stausee Niederried [2x], Steinbachried [2x], Stille Reuss [2x], Stillert [2x], Talweiher [2x], Tamangur [2x], Teilenboden [2x], Tgiern Grond [2x], Tote Reuss [2x], Totmoos [2x], Trogenwald [2x], Tubenmoos [2x], Tuetenseeli [3x], Unter Hüttenbüel [2x], Unter Sewen [2x], Unter Wasserfallen [2x], Untere Fischeren [2x], Unteres Schlierental [2x], Urnerboden [2x], Usserberg [2x], Val de Bagnes [2x], Val Frisal [2x], Vallée du Doubs [2x], Vallon de l'Allondon [2x], Vanil Noir [2x], Vers le Maix Rochat [2x], Vordere Wartegg [2x], Wachseldornmoos [2x], Wagliseichnubel [2x], Wauwilermoos [2x], Weissenau [4x], Wengli [2x], Wildert [2x], Wissenbach [2x], Witi [4x], Wollwisli [2x], Zettenalp [2x], Zigermoos [2x]

i 4.2.15 Sites where "SIZE" was changed

Number of detected records: **0**

! 4.2.16 Number of sites by designation where "SIZE" is empty

Missing entries at SIZE field are affecting indicator production, because on a basis of size field designated area is counted per country. If site is very small or point object SIZE entry can be 0.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20262

Legend - highlightings of result table fields

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: **1**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
CH05	Amphibian Breeding Sites of National Importance	83	10.74	0	0	0	0
		83	2.65	0	0	0	0

! 4.2.17 Sites where "SIZE" is significantly different from respective GIS boundary area or where it is greater than ISO3 country reference size.

Number of detected records: 0

i 4.2.18 Sites where "IUCNCAT" was changed

Number of detected records: 0

! 4.2.19 Number of sites by designation where "IUCNCAT" is empty

Number of detected designations: 0

! 4.2.20 Number of sites by IUCN category where "IUCNCAT" is not present in official list ("IUCNCATEGORIES" table)

Please use always IUCN categories from look-up table "IUCNCATEGORIES", otherwise they are treated as errors, as they affect indicator production as total protected area per IUCN category.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=22805

http://dd.eionet.europa.eu/dstable.jsp?mode=view&table_id=3346

Legend - highlightings of result table fields

IUCNCAT IUCN category code is not present in official list (error)

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: 2

IUCNCAT	Valid sites			Sites to be deleted		
	number	%	size	number	%	size
I	1	0.03	17033	0	0	0
IV/V	1	0.03	39449.2	0	0	0
	2	0.06	56482.2	0	0	0

i 4.2.21 Number of sites by designation where "NUTS" is empty

Number of detected designations: 0

? 4.2.22 Sites where "YEAR" was changed

Number of detected records: 0

! 4.2.23 Number of sites by designation where "YEAR" is empty

It is important for indicator production (designated area in Europe and per country per year) that all site entries have entry for establishment year, if entry is missing it is an error, if for any reason it is not possible to give year of establishment, please give remark at NOTES field.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=17090

Legend - highlightings of result table fields

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: **2**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
CH52	Forest Reserves	1	50	0	0	0	0
CH90	Nature Reserve	24	64.86	93908	0	0	0
		25	0.8	93908	0	0	0

! 4.2.24 Sites where "YEAR" is less than 1872 or greater than 2007

Number of detected records: **0**

! 4.2.25 Number of sites by designations where at least one of altitudes is empty

It is important for statistical purposes that altitude value of site is there.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18809

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23453

Legend - highlightings of result table fields

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: **11**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
CH02	Raised and Transitional Bogs of National Importance	546	100	4928.2	0	0	0
CH03	Floodplains of National Importance	282	100	22554.9	0	0	0
CH04	Fenlands of National Importance	1164	100	19190.8	0	0	0
CH05	Amphibian Breeding Sites of National Importance	773	100	11681.9	0	0	0
CH07	Mire Landscapes of National Importance	89	100	625372.4	0	0	0
CH08	Landscapes and Natural Monuments of National Importance	162	100	780580	0	0	0
CH09	Reserves for Waterbirds and Migrants of International and National Importance	28	100	19045	0	0	0
CH10	Federal Hunting Reserves	41	100	150920.7	0	0	0
CH11		2	100	56482.1	0	0	0
CH52	Forest Reserves	2	100	64	0	0	0
CH90	Nature Reserve	34	91.89	53128	0	0	0
		3123	99.87	1743948	0	0	0

! 4.2.26 Sites where "ALTITUDE_MIN" is higher than "ALTITUDE_MAX"

Maximum altitude can not be higher of minimum, it refers to error.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=18809

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=23453

Legend - highlightings of result table fields

ALTITUDE Incorrect values (error)

Number of detected records: **1 (0.03 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	ALTITUDE	
						MIN	MAX
6210		CHE	CH90	Fanel Bay and Le Chablais	870	430	
					870		

? 4.2.27 Sites where at least one of altitudes is out of reference elevation range of the country

Number of detected records: **0**

? 4.2.28 Sites where coordinates were changed

Number of detected records: **0**

! 4.2.29 Number of sites by designations where at least one of coordinates is empty

If both or at least one of coordinates is missing and also digital boundaries of those sites are not available or are delivered without SITE_CODE, those records can not be used in reports of designated areas where over-European or global level maps are important.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28825

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20550

Legend - highlightings of result table fields

Valid sites number Number of sites where detected error should be corrected

Number of detected designations: **9**

DESIG ABBR	DESIGNATE	Valid sites			Sites to be deleted		
		number	%	size	number	%	size
CH02	Raised and Transitional Bogs of National Importance	37	6.78	29.9	0	0	0
CH03	Floodplains of National Importance	120	42.55	11147	0	0	0
CH04	Fenlands of National Importance	16	1.37	515.1	0	0	0
CH05	Amphibian Breeding Sites of National Importance	773	100	11681.9	0	0	0
CH08	Landscapes and Natural Monuments of National Importance	2	1.23	620	0	0	0
CH09	Reserves for Waterbirds and Migrants of International and National Importance	17	60.71	6498.5	0	0	0
CH11		2	100	56482.1	0	0	0
CH52	Forest Reserves	2	100	64	0	0	0
CH90	Nature Reserve	23	62.16	4529	0	0	0
		992	31.72	91567.5	0	0	0

! 4.2.30 Sites where coordinates are outside of reference geographic area of the country

That test is checking if coordinates delivered are really falling to national geographic area of country they come from. If not result is there to be checked and if needed to be corrected at national level. Reference GIS source is of small scale (1:1000000) therefore the test doesn't need to be utterly accurate.

Result was also transformed to KML file which can be downloaded from the same location as this report. KML is a file format used to display geographic data in an Earth browser, such as Google Earth. You may use this file and browser to check the result more conveniently.

GIS source for country geographic area is Vmap0 World Dataset, available at the following URL:

http://www.mapability.com/index1.html?http&&www.mapability.com/info/vmap0_index.html

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28825

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20550

Legend - highlightings of result table fields

LAT, LON Coordinates outside country. Check whether it is a real error or it caused just because of slight differences in used GIS data sources.

LAT value Coordinate is out of possible range (-90 to +90)

LON value Coordinate is out of possible range (-180 to +180)

Number of detected records: **10 (0.32 %)**

SITE CODE	SITE CODE NAT	ISO3	DESIG ABBR	AREANAME	SIZE	LAT	LON
31009	1805	CHE	CH08	Monte Caslano	113	45.96	8.87972
31017	1813	CHE	CH08	Denti della Vecchia	2115	46.06	9.03
148580	4	CHE	CH03	Seldenhalde	9.7	47.77	8.48
148740	112	CHE	CH03	Vallon de la Laire	26.5	46.14	5.97972
148741	218	CHE	CH03	Vers Vaux	15.9	46.12972	5.95
148748	229	CHE	CH03	Madonna del Piano	15.1	45.97972	8.83972
149258	86	CHE	CH02	Gouille Verte	3	46.00333	6.98972
149368	2269	CHE	CH04	Palü Granda	6.1	46.28972	10
149411	2501	CHE	CH04	Pra Coltello	1.3	45.82972	8.98972
149412	2500	CHE	CH04	Lischetto Fossée Seseglio	1.3	45.82	8.98972
					2306.9		

i 4.2.31 Sites where coordinates are duplicated

Site coordinate duplication could refer to an error if designation of sites is same. Please check results and if needed make corrections.

Data Dictionary reference/s:

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=28825

http://dd.eionet.europa.eu/data_element.jsp?mode=view&delem_id=20550

Number of detected records: **720**

Tabular result is too long to display (> 50 records). Here is condensed list ("To be deleted" sites are excluded):

list of duplicated coordinates [SITE_CODEs of sites with the same coordinates]

LAT 45.85 LON 8.95 [149409,149410], LAT 46.03 LON 7.10972 [149405,149259], LAT 46.1 LON 8.96 [149257,149402], LAT 46.1297 LON 8.96 [149398,149501], LAT 46.15 LON 8.78972 [149397,148739], LAT 46.1597 LON 8.87 [31006,149391], LAT 46.1597 LON 8.92 [149389,149500,148738], LAT 46.1697 LON 8.73972 [31010,149386,149387], LAT 46.1697 LON 8.97 [149384,148736], LAT 46.18 LON 6.01972 [148735,30935], LAT 46.18 LON 8.63972 [149382,149255], LAT 46.2 LON 7.51 [149380,146803], LAT 46.25 LON 7.83972 [149371,149373,149254], LAT 46.33 LON 8.97 [149362,149363], LAT 46.36 LON 9.05 [149249,149357], LAT 46.3897 LON 10.1097 [149245,149346], LAT 46.3897 LON 6.87972 [149340,30977], LAT 46.3897 LON 6.91 [149343,149338,149347], LAT 46.3897 LON 7.33 [149337,149243], LAT 46.4 LON 7.09 [149242,149334], LAT 46.4 LON 7.12972 [149326,149239], LAT 46.4 LON 7.33 [149494,148712], LAT 46.41 LON 7.1 [149237,149238], LAT 46.41 LON 7.41 [149314,149320], LAT 46.4197 LON 7.1 [149308,149312,149236], LAT

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46.43 LON 7.1 [149233,149291], LAT 46.43 LON 7.38972 [149297,149492], LAT 46.43 LON 7.4 [149300,149234], LAT 46.43 LON 7.41 [149235,149293,149298], LAT 46.43 LON 9.65 [149292,149491], LAT 46.45 LON 7.5 [149277,149229], LAT 46.45 LON 9.19 [149280,146805], LAT 46.45 LON 9.2 [149285,149230], LAT 46.46 LON 8.78972 [149228,149276], LAT 46.46 LON 8.88972 [149274,149275], LAT 46.4697 LON 8.77972 [149270,149224], LAT 46.48 LON 6.25972 [149267,149268], LAT 46.48 LON 7.67 [149266,149220], LAT 46.4897 LON 6.12 [149215,149489,168999], LAT 46.4897 LON 9.87 [169000,149216,149214], LAT 46.5 LON 7.46 [149487,168992], LAT 46.5 LON 9.87 [168996,168991,149488,149213], LAT 46.51 LON 8.75 [149485,168987], LAT 46.5197 LON 8.87 [168981,149205,148697], LAT 46.5197 LON 8.87972 [168983,168980], LAT 46.5197 LON 9.63972 [168972,149201], LAT 46.5197 LON 9.65 [168973,168978], LAT 46.5197 LON 9.87972 [168974,149202], LAT 46.53 LON 8.82972 [149200,166445,149482], LAT 46.53 LON 8.83972 [149197,168968], LAT 46.53 LON 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8.21972 [168897,149153], LAT 46.6397 LON 6.25972 [149152,168893], LAT 46.6397 LON 7.01306 [168888,149151], LAT 46.6397 LON 8.67 [31018,168892], LAT 46.65 LON 6.28972 [168881,168884,149146], LAT 46.65 LON 7 [149471,168883], LAT 46.65 LON 8.48972 [168885,149472,149149], LAT 46.66 LON 7.15 [149143,149145], LAT 46.67 LON 7.82 [30983,148673,168867], LAT 46.67 LON 8.82972 [168872,149140], LAT 46.6797 LON 7.26972 [149139,168862], LAT 46.71 LON 8.14 [168856,149129,149467], LAT 46.71 LON 8.97972 [149466,149131,168855], LAT 46.72 LON 7.81 [168841,168847,149123], LAT 46.72 LON 7.87 [149126,30984,168850], LAT 46.7297 LON 7.36972 [168825,149116,149117], LAT 46.7297 LON 7.56 [149464,168826], LAT 46.7297 LON 7.83972 [168835,149119,149122], LAT 46.7297 LON 8.38972 [149115,168823], LAT 46.7297 LON 9.01306 [168829,149118], LAT 46.7397 LON 7.45 [149109,149112,168811], LAT 46.7397 LON 7.88972 [168815,168820], LAT 46.7397 LON 8.23 [168810,149107], LAT 46.75 LON 7.43972 [149102,168797], LAT 46.75 LON 7.77 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8.67972 [168344,168350,168352], LAT 47.14 LON 8.73972 [168347,148887], LAT 47.15 LON 8.53972 [148880,168335], LAT 47.15 LON 8.65 [168338,148881], LAT 47.15 LON 8.67972 [148882,168341], LAT 47.15 LON 8.71 [168339,168336,148878], LAT 47.1597 LON 8.6 [148874,168329], LAT 47.1597 LON 8.73972 [168332,148875], LAT 47.1697 LON 6.95 [148867,168318], LAT 47.1697 LON 8.6 [168324,148873], LAT 47.1697 LON 9.19 [148866,168314,168320], LAT 47.18 LON 9.16972 [149429,148865], LAT 47.18 LON 9.33 [148860,168305], LAT 47.18 LON 9.35 [168307,148861], LAT 47.18 LON 9.38972 [148863,168311], LAT 47.19 LON 8.62 [168294,148856], LAT 47.19 LON 8.62972 [148857,168297], LAT 47.19 LON 9.18 [168299,148858], LAT 47.19 LON 9.19 [148855,168295], LAT 47.2 LON 8.57972 [168291,148852], LAT 47.2 LON 8.76 [168284,168286], LAT 47.2 LON 9.35 [168292,148851], LAT 47.2097 LON 8.41972 [148609,166718], LAT 47.2097 LON 8.48 [166709,148843], LAT 47.2097 LON 8.62 [148846,149426], LAT 47.2097 LON 8.78972 [166708,30961], LAT 47.2097 LON 8.97972 [30972,166705], LAT 47.2097 LON 9.33972 [166713,148844], LAT 47.2197 LON 8.6 [148839,166693], LAT 47.23 LON 7.10972 [166687,148834], LAT 47.23 LON 8.4 [166679,149422], LAT 47.23 LON 8.5 [166683,166689,148833], LAT 47.23 LON 8.51972 [148832,166684], LAT 47.23 LON 8.91 [166690,166692], LAT 47.23 LON 9.15 [166691,148836], LAT 47.23 LON 9.23 [148835,166686], LAT 47.24 LON 7.05 [166664,149423,148825], LAT 47.24 LON 7.06 [30917,166670], LAT 47.24 LON 8.41 [166668,166663], LAT 47.24 LON 8.43 [166675,148828], LAT 47.24 LON 8.6 [148829,166677,166672], LAT 47.25 LON 7.03 [166656,148821], LAT 47.25 LON 8.4 [30945,148607,166651], LAT 47.25 LON 8.73972 [166648,148814], LAT 47.25 LON 8.82 [148813,166644], LAT 47.25 LON 8.82972 [166653,148820], LAT 47.25 LON 9.28972 [148822,148816], LAT 47.25 LON 9.51 [166650,166659], LAT 47.2597 LON 7.00333 [166643,148812], LAT 47.2597 LON 8.76 [30973,149419], LAT 47.2597 LON 9.01306 [166635,148809], LAT 47.2597 LON 9.03 [148804,166628,166641], LAT 47.2597 LON 9.19 [166633,148808], LAT 47.2597 LON 9.21972 [148807,166638], LAT 47.2597 LON 9.3 [166621,148805], LAT 47.2697 LON 8.38972 [166612,166605], LAT 47.2697 LON 8.77972 [166606,166617], LAT 47.2697 LON 9.15972 [166607,148798], LAT 47.2697 LON 9.16972 [166620,149417], LAT 47.2697 LON 9.19 [166619,148801], LAT 47.2697 LON 9.33972 [148797,31044], LAT 47.28 LON 8.38972 [166602,166596], LAT 47.28 LON 8.46 [166598,148795], LAT 47.28 LON 9.23 [148792,166599], LAT 47.2897 LON 8.38 [166587,166592], LAT 47.2897 LON 8.82 [30957,148783], LAT 47.2897 LON 9.25 [148786,148787,148788,166585], LAT 47.2897 LON 9.36 [166584,148785], LAT 47.3 LON 8.78972 [148778,166575], LAT 47.3 LON 8.81 [166572,149416], LAT 47.3 LON 9.21972 [166581,148782], LAT 47.3 LON 9.24 [148775,166578], LAT 47.3 LON 9.25 [166574,148780], LAT 47.3 LON 9.28972 [148781,166580], LAT 47.3 LON 9.33972 [166576,148777], LAT 47.31 LON 8.36972 [148606,166564,166568], LAT 47.31 LON 8.38 [166569,166565], LAT 47.33 LON 9.36 [166555,148765], LAT 47.3397 LON 9.46972 [148763,166548], LAT 47.35 LON 8.78972 [149414,148761], LAT 47.35 LON 8.83972 [166543,166544,166545], LAT 47.35 LON 9.48 [166539,166541], LAT 47.3697 LON 8.31972 [166527,148601], LAT 47.3697 LON 9.48972 [148756,166526], LAT 47.4 LON 8.83972 [166512,166517], LAT 47.41 LON 8.61 [166509,148752], LAT 47.43 LON 8.48 [148773,166503,166506], LAT 47.43 LON 8.48972 [166502,148750,30963], LAT 47.4697 LON 8.48972 [148771,166483], LAT 47.4897 LON 9.55 [166476,148591], LAT 47.5 LON 8.48 [166474,149413], LAT 47.5197 LON 9.28972 [166471,148770], LAT 47.56 LON 8.73972 [148769,166464], LAT 47.6 LON 8.21972 [81076,148582], LAT 47.66 LON 8.67972 [30974,166451]

i 4.2.32 Number of sites by designation where "NOTES" is not empty

Number of detected designations: **0**

! 4.2.33 Sites marked to be deleted but where "NOTES" is empty

Number of detected records: **0**

? 4.2.34 Edited records and analysis of EIONET fields

Number of detected records: **0**

4.3 Sitehabitats table

Table contains no records!