## Explanation for possible generic checks:

CheckLUtable: this is a check against a look up table/vocabulary

CheckYESNO: check if the reported value is Yes/No

CheckDATAformat: the format should fit with the recommendations

* CheckDATAformat1: related to the date(1st the format is checked, then another check is applied to see if year1<year2)
* CheckDATAformat2: related to numerical field

CheckMandatory: related to the occurrence of the habitat (field presence in the checklist), occurrence <> 'PRE'

CheckMinMax: Min value should be < Max value

For the following group, checks are repeated between sections, and checks listed above are also used. For instance, CheckChange refers to CheckLUtable and CheckMandatory

CheckFavourable: serie of checks that are similar between sections (4. Range and 5. Area).

CheckChange: serie of checks that are similar between sections

CheckMethod: serie of checks

* CheckMethod1: including one CheckLUtable and one CheckMandatory
* CheckMethod2: one additional check specific for short term trend

PLEASE NOTE: some of these generic checks depend on a condition, is these cases, it is followed by +condition

example: CheckMandatory + condition

There are 4 levels of errors that can be triggered by the QA/QC in the tool and/or Reportnet. Please note that by default, all rules listed in this document should be applied to both the tool and Reportnet.

|  |  |
| --- | --- |
| **Error Level** | **Error description** |
| **BLOCKER** | a major error and data reported is blocked in Tool and/or Reportnet (see the field QA/QC in tool/CDR) and data is required to be redelivered |
| **WARNING** | a potential (or insignificant) error and data reported is not blocked |
| **INFO** | information message to further inform the MS reporter |
| **ERROR** | a major error but data reported is not blocked |

Make sure that the QA/QC should not be case sensitive (mainly for lu tables)

Indication for Boolean fields: YES/No used for Boolean fields, meaning true/false

# NATIONAL LEVEL

# Annex D - 1 General information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Hab.1.1 Member State | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Member State’ is present | Check if the reported value is in the vocabulary: countries  ✔Check passed  ✘Error in validation: message H500 | H500 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary countries](http://dd.eionet.europa.eu/vocabulary/art17_2018/countries/). |
|  | If ‘Member State’ **not** present | ✘Error in validation: message H501 | H501 | Mandatory information missing. | **BLOCKER** | Mandatory information missing. The country code should be provided. |
|  | Hab.1.2 Habitat code | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Habitat code’ is present | Check if the reported value is in the vocabulary: habitats  ✔Check passed  ✘Error in validation: message H502 | H502 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary habitats](http://dd.eionet.europa.eu/vocabulary/art17_2018/habitats/). |
|  | If ‘Habitat code’ **not** present | ✘Error in validation: message H503 | H503 | Mandatory information missing. | **BLOCKER** | Mandatory information missing. The habitat code should be provided. |

# Annex D - 2 Maps

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Hab.2.1 Year or period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Year or period’ is present | 1. Check if date has valid format: should be like YYYY or YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H504  2. If check passed, and reported period like YYYY-YYYY, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H505 | H504  H505 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect format, it must be YYYY or YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
| CheckMandatory + condition | If ‘Year or period’ **not** present | Check if occurrence <> 'PRE' in all regions of the reported checklist  ✔Check passed  ✘Error in validation: message H506 | H506 | Mandatory information missing. | **ERROR** | Mandatory information missing. Year or period should be provided.**-** |
|  | Hab.2.2 Distribution map | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | Hab.2.3 Distribution map Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod1 + condition | If ‘Distribution map Method used’ is present | Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H507 | H507 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/). |
| If ‘Distribution map Method used’ **not** present | Check if occurrence <> 'PRE' in all regions of the reported checklist  ✔Check passed  ✘Error in validation: message H508 | H508 | Mandatory information missing. | **ERROR** | Mandatory information missing. Method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | Hab.2.4 Additional maps | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# BIOGEOGRAPHICAL LEVEL

# Annex D - 3 Biogeographical and marine regions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.3.1 Biogeographical or marine region where the habitat occurs | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Biogeographical or marine region […]’ is present | Check if the reported value is in the vocabulary: bioGeoReg  ✔Check passed  ✘Error in validation: message H509 | H509 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary bioGeoReg](http://dd.eionet.europa.eu/vocabulary/art17_2018/bioGeoReg/). |
| CheckMandatory | If ‘Biogeographical or marine region […]’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H510 | H510 | Mandatory information missing. | **ERROR** | Mandatory information missing. Information on Biological or marine region is expected for mandatory report. |
|  | HabReg.3.2 Sources of information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 4 Range

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.4.1 Surface area | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area’ is present | Check the data type and Surface area > 0  ✔Check passed  ✘Error in validation: message H001 | H001 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals > 0 is permitted. |
| CheckMandatory | If ‘Surface area’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H002 | H002 | Mandatory information missing. | **ERROR** | Mandatory information missing. Surface area should be provided. |
|  | HabReg.4.2 Short-term trend Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Short-term trend Period’ is present | 1. Check if date has valid format: should be like YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H003  2. If check passed, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H004 | H003  H004 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2.**-** |
| CheckMandatory | If ‘Short-term trend Period’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H005 | H005 | Mandatory information missing. | **ERROR** | Mandatory information missing. Period should be provided. |
|  | HabReg.4.3 Short-term trend Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Short-term trend Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H006 | H006 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
| CheckMandatory | If ‘Short-term trend Direction’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H008 | H008 | Mandatory information missing. | **ERROR** | Mandatory information missing. Trend should be provided. In case the information to be reported in this section is not available use 'Unk - unknown'. |
|  | HabReg.4.4a Short-term trend Magnitude - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Short-term trend Magnitude - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H009 | H009 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.4.4b Short-term trend Magnitude - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Short-term trend Magnitude - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H010  2. If check passed, check if HabReg.4.4b ≥ HabReg.4.4a  ✔Check passed  ✘Error in validation: message H011 | H010  H011 | Incorrect data format.  4.4b Short-term trend Magnitude - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
|  | HabReg.4.5 Short-term trend Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 | If ‘Short-term trend Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H012  2. If check passed, and the reported value is 'AbsentData', check if HabReg.4.3 is in ('U','Unk')  ✔Check passed  ✘Error in validation: message H013 | H012  H013 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Inconsistent values provided in fields 4.3 Short-term trend Direction and 4.5 Short-term trend Method used. When the method is ‘AbsentData - Insufficient or no data available’, the trend cannot be defined. If you want to report a trend as stable, increasing or decreasing based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used |
| If ‘Short-term trend Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H014 | H014 | Mandatory information missing. | **ERROR** | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.4.6 Long-term trend Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Long-term trend Period’ is present | 1. Check if date has valid format: should be like YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H015  2. If check passed, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H016 | H015  H016 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
|  | HabReg.4.7 Long-term trend Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Long-term trend Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H017 | H017 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
|  | HabReg.4.8a Long-term trend Magnitude - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Long-term trend Magnitude - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H019 | H019 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.4.8b Long-term trend Magnitude - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Long-term trend Magnitude - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H020  2. If check passed, check if HabReg.4.8b ≥ HabReg.4.8a  ✔Check passed  ✘Error in validation: message H021 | H020  H021 | Incorrect data format.  4.8b Long-term trend Magnitude - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
|  | HabReg.4.9 Long-term trend Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Long-term trend Method used’ is present | Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H022 | H022 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/). |
|  | HabReg.4.10 a, b, c Favourable reference range  The following checks apply to a, b, c. Should appear at higher level (4.10). Only one error message is expected in this case in order to avoid any duplication. | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckFavourable  (except H024, H026 specific to this section) + condition | If at least one field of ‘Favourable reference range’ is present | Check if only one value is provided in HabReg.4.10a, b, c  ✔Check passed  ✘Error in validation: message H025 | H025 | Only one of 4.10a, b or c Favourable reference range should be filled in. | **ERROR** | If an operator is used, there is no need to insert a value. If the value is provided for range in km², no operator should be used. Moreover, the use of ‘x - unknown’ is not compatible with the use of value or operators. |
| If all fields of ‘Favourable reference range’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H027 | H027 | Mandatory information missing. | **ERROR** | Information on Favourable reference range should be provided (4.10a, b or c).  In case the information to be reported in this section is not available use 'x - unknown' in 4.10c, knowing the use of operators should help to reduce the use of ‘unknown’ to a minimum. |
| HabReg.4.10a Favourable reference range - km² | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference range - km²’ is present | 1. When habitatcode <> '7120', check the data type and Favourable reference range - In km² > 0  ✔Check passed  ✘Error in validation: message H024  2. If check passed, check if HabReg.4. 10a ≥ HabReg.4.1  ✔Check passed  ✘Error in validation: message H026 | H024  H026 | Incorrect data format.  Incoherent information. | **ERROR**  **WARNING** | Incorrect data format. Numeric field, only decimals > 0 permitted.  Incoherent information provided. The Favourable reference range is smaller than 4.1 Surface area. Check whether this is on purpose. |
| HabReg.4.10b Favourable reference range - operators | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference range - operators’ is present | Check if the reported value is in the vocabulary: favourableOperator and code <> 'lt'  ✔Check passed  ✘Error in validation: message H028 | H028 | Invalid code. | **ERROR** | Invalid code. Please check the [vocabulary favourableOperator](http://dd.eionet.europa.eu/vocabulary/art17_2018/favourableOperator/).  The value 'lt - less than' is not allowed in this section. |
| HabReg.4.10c Favourable reference range - unknown | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference range - unknown’ is present | Check if the reported value is 'x'  ✔Check passed  ✘Error in validation: message H031 | H031 | Invalid code. | **BLOCKER** | Invalid code. Only 'x - unknown' is allowed in this section. |
|  | HabReg.4.10d Favourable reference range - method | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | HabReg.4.11\_, a, b, c, d, e Change and reason for change in surface area of range | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | Note: In this section, the user has to select first a main reason (that has to be clearly identified), and then can add up to 3 other reasons listed in the look up table. However, he can also select 'nochange', meaning only one entry is allowed. | | | | | |
| CheckChange | If ‘Change and reason for change in surface area of range’ is present | 1. Check if the reported value(s) are in the vocabulary: reasonChange  ✔Check passed  ✘Error in validation: message H034  2. If check passed, check   * if one of the reported value = 'noChange',check that there is no reason for change provided (meaning there should not be an additional value)   ✔Check passed  ✘Error in validation: message H035   * if all the reported value <> 'noChange' AND value in ( 'genuine', 'knowledge', 'method'), check that either 'genuine' or 'knowledge' or 'method' is indicated as main reason   ✔Check passed  ✘Error in validation: message H036 | H034  H035  H036 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary reasonChange](http://dd.eionet.europa.eu/vocabulary/art17_2018/reasonChange/).  Incoherent information in this section. If 'noChange' is selected, there is no need to explain the nature of change.  Incoherent information in this section. Only one main reason is expected. |
| If ‘Change and reason for change in surface area of range’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H037 | H037 | Mandatory information missing. | **ERROR** | Mandatory information missing. Indicate if there is any change since the previous reporting period (2007–2012) in the range surface area reported. Report 'noChange' if the answer to the question: ‘Is there a change between reporting periods?’ is 'No'. Provide the nature of that change (more than one option can be chosen) if the answer is 'Yes'. |
|  | HabReg.4.12 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 5 Area covered by habitat

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.5.1 Year or Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Year or Period’ is present | 1. Check if date has valid format: should be like YYYY or YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H038  2. If check passed, and reported period like YYYY-YYYY, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H039 | H038  H039 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY or YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
| CheckMandatory | If ‘Year or Period’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H040 | H040 | Mandatory information missing. | **ERROR** | Mandatory information missing. The year or period should be provided. |
|  | HabReg.5.2a Surface area - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H041 | H041 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.5.2b Surface area - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H042  2. If check passed, check if HabReg.5.2b ≥ HabReg.5.2a  ✔Check passed  ✘Error in validation: message H043 | H042  H043 | Incorrect data format.  5.2b Surface area covered by the habitat - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals > 0 are permitted. |
| CheckMinMax |
|  | HabReg.5.2c Surface area - Best single value | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area - Best single value’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H044 | H044 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals > 0 are permitted. |
| CheckMandatory + condition | If ‘Surface area - Best single value’ **not** present | When HabReg.5.2a and HabReg.5.2b **not** present  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H045 | H045 | Mandatory information missing. | **ERROR** | Mandatory information missing. Surface area covered by the habitat should be provided as interval (5.2a, b) and/or single value (5.2c).  When only a minimum (or maximum) value of the surface area covered by the habitat is known (e.g. through expert opinion) this should be entered in the ‘Best single value’ field and NOT the ‘(a) Minimum’ or ‘(b) Maximum’ fields. |
|  | HabReg.5.3 Type of estimate | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable + condition | If ‘Type of estimate’ is present | 1. Check if the reported value is in the vocabulary: typeEstimate and code <> 'mean'  ✔Check passed  ✘Error in validation: message H046  2. If check passed, check if a value is present at least in one of these fields (HabReg.5.2a or HabReg.5.2b or HabReg.5.2c)  ✔Check passed  ✘Error in validation: message H047 | H046  H047 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary typeEstimate](http://dd.eionet.europa.eu/vocabulary/art17_2018/typeEstimate/).  The value 'mean - multi-year mean' is not allowed in this section.  Incoherent information provided. Type of estimate was provided although there is no entry for surface area covered by the habitat (5.2a,b,c). Check coherence between these two fields.  If both interval (5.2a ‘Minimum’ and 5.2b ‘Maximum’) and a single value (5.2c ‘Best single value’) are provided, field 5.3 ‘Type of estimate’ should correspond to the more accurate estimate. This should be noted in 5.15 ‘Additional information’. |
|  |
| CheckMandatory | If ‘Type of estimate’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H048 | H048 | Mandatory information missing. | **ERROR** | Mandatory information missing. The type of estimate for the surface area covered by the habitat should be provided. |
|  | HabReg.5.4 Surface area Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 (condition slightly different) | If ‘Surface area Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H049  2. If check passed, and the reported value is 'AbsentData', check if HabReg.5.3 **not** present  ✔Check passed  ✘Error in validation: message H050 | H049  H050 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Incoherent information provided. 5.3 Type of estimate should be empty when Surface area Method used is ‘AbsentData - Insufficient or no data available’.  When the method is assessed as ‘AbsentData - Insufficient or no data available’, the type of estimate used for the surface area covered by the habitat cannot be defined. If you want to report an estimate based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used. |
| If ‘Surface area Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H051 | H051 | Mandatory information missing. | **ERROR** | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.5.5 Short-term trend Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Short-term trend Period’ is present | 1. Check if date has valid format: should be like YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H052  2. If check passed, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H053 | H052  H053 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
| CheckMandatory | If ‘Short-term trend Period’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H054 | H054 | Mandatory information missing. | **ERROR** | Mandatory information missing. The period should be provided. |
|  | HabReg.5.6 Short-term trend Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Short-term trend Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H055 | H055 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
| CheckMandatory | If ‘Short-term trend Direction’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H057 | H057 | Mandatory information missing. | **ERROR** | Mandatory information missing. Trend should be provided. In case the information to be reported in this section is not available use 'Unk - unknown'. |
|  | HabReg.5.7a Short-term trend Magnitude - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Short-term trend Magnitude - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H058 | H058 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.5.7b Short-term trend Magnitude - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Short-term trend Magnitude - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H059  2. If check passed, check if HabReg.5.7b ≥ HabReg.5.7a  ✔Check passed  ✘Error in validation: message H060 | H059  H060 | Incorrect data format.  5.7b Short-term trend Magnitude - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
|  | HabReg.5.7c Short-term trend Magnitude - Confidence interval | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Short-term trend Magnitude - Confidence interval’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H061 | H061 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.5.8 Short-term trend Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 | If ‘Short-term trend Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H062  2. If check passed, and the reported value is 'AbsentData', check if HabReg.5.6 is in ('U','Unk')  ✔Check passed  ✘Error in validation: message H063 | H062  H063 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Inconsistent values provided in fields 5.6 Short-term trend Direction and 5.8 Short-term trend Method used. When the method is assessed as ‘AbsentData - Insufficient or no data available’, the trend cannot be defined. If you want to report a trend as stable, increasing or decreasing based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used |
| If ‘Short-term trend Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H064 | H064 | Mandatory information missing. | **ERROR** | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.5.9 Long-term trend Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Long-term trend Period’ is present | 1. Check if date has valid format: should be like YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H065  2. If check passed, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H066 | H065  H066 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
|  | HabReg.5.10 Long-term trend Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Long-term trend Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H067 | H067 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
|  | HabReg.5.11a Long-term trend Magnitude - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Long-term trend Magnitude - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H069 | H069 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.5.11b Long-term trend Magnitude - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Long-term trend Magnitude - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H070  2. If check passed, check if HabReg.5.11b ≥ HabReg.5.11a  ✔Check passed  ✘Error in validation: message H071 | H070  H071 | Incorrect data format.  5.11b Long-term trend Magnitude - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
|  | HabReg.5.11c Long-term trend Magnitude - Confidence interval | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Long-term trend Magnitude - Confidence interval’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H072 | H072 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.5.12 Long-term trend Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Long-term trend Method used’ is present | Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H073 | H073 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/). |
|  | HabReg.5.13 a, b, c Favourable reference area  The following checks apply to a, b, c. Should appear at higher level (5.13). Only one error message is expected in this case in order to avoid any duplication. | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckFavourable  (except H075, H077 specific to this section) + condition | If at least one field of ‘Favourable reference range’ is present | Check if only one value is provided in HabReg.5.13a, b, c  ✔Check passed  ✘Error in validation: message H076 | H076 | Only one of 5.13a, b or c Favourable reference area should be filled in. | **ERROR** | If an operator is used, there is no need to insert a value. If the value is provided for area in km², no operator should be used. Moreover, the use of 'x - unknown' is not compatible with the use of value or operators. |
| If all fields of ‘Favourable reference area’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H078 | H078 | Mandatory information missing. | **ERROR** | Information on Favourable reference area should be provided (5.13a, b or c).  In case the information to be reported in this section is not available use 'x - unknown' in 5.13c, knowing the use of operators should help to reduce the use of ‘unknown’ to a minimum. |
| HabReg.5.13a Favourable reference area - km² | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference area - km²’ is present | 1. When habitatcode <> '7120', check the data type and Favourable reference area - In km² > 0  ✔Check passed  ✘Error in validation: message H075  2. If check passed, check if HabReg.5. 13a ≥ HabReg.5.2b or HabReg.5. 13a ≥ HabReg.5.2c  ✔Check passed  ✘Error in validation: message H077 | H075  H077 | Incorrect data format.  Incoherent information. | **ERROR**  **WARNING** | Incorrect data format. Numeric field, only decimals > 0 is permitted.  Incoherent information provided. The Favourable reference area is smaller than 5.2 Surface area. Check whether this is on purpose. |
| HabReg.5.13b Favourable reference area - operators | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference area - operators’ is present | Check if the reported value is in the vocabulary: favourableOperator  ✔Check passed  ✘Error in validation: message H079 | H079 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary favourableOperator](http://dd.eionet.europa.eu/vocabulary/art17_2018/favourableOperator/).  The value 'lt - less than' is allowed in this section. |
| HabReg.5.13c Favourable reference area - unknown | | | | | |
| **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| If ‘Favourable reference area - unknown’ is present | Check if the reported value is 'x'  ✔Check passed  ✘Error in validation: message H082 | H082 | Invalid code. | **BLOCKER** | Invalid code. Only the symbol 'x - unknown' is allowed in this section. |
|  | HabReg.5.13d Favourable reference area - method | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | HabReg.5.14\_, a, b, c, d, e Change and reason for change in surface area of area covered by habitat | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | Note: In this section, the user has to select first a main reason (that has to be clearly identified), and then can add up to 3 other reasons listed in the look up table. However, he can also select 'nochange', meaning only one entry is allowed. | | | | | |
| CheckChange | If ‘Change and reason for change in surface area of area covered by habitat’ is present | 1. Check if the reported value(s) are in the vocabulary: reasonChange  ✔Check passed  ✘Error in validation: message H085  2. If check passed, check   * if one of the reported value = 'noChange', check that there is no reason for change provided (meaning there should not be an additional value)   ✔Check passed  ✘Error in validation: message H086   * if all the reported value <> 'noChange' AND value in ( 'genuine', 'knowledge', 'method'), check that either 'genuine' or 'knowledge' or 'method' is indicated as main reason   ✔Check passed  ✘Error in validation: message H087 | H085  H086  H087 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary reasonChange](http://dd.eionet.europa.eu/vocabulary/art17_2018/reasonChange/).  Incoherent information in this section. If 'noChange' is selected, there is no need to explain the nature of change.  Incoherent information in this section. Only one main reason is expected. |
| If ‘Change and reason for change in surface area of area covered by habitat’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H088 | H088 | Mandatory information missing. | **ERROR** | Mandatory information missing. Indicate if there is any change since the previous reporting period (2007–2012) in the area covered by habitat reported. Report 'noChange' if the answer to the question: ‘Is there a change between reporting periods?’ is 'No'. Provide the nature of that change (more than one option can be chosen) if the answer is 'Yes'. |
|  | HabReg.5.15 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 6 Structure and functions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.6.1a1 Condition of habitats - Area in good condition - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area in good condition - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H089 | H089 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMandatory | If ‘Area in good condition - Minimum’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H090 | H090 | Mandatory information missing. | **ERROR** | Mandatory information missing. The minimum area of habitat with ‘good’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.1a2 Condition of habitats - Area in good condition - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area in good condition - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H091  2. If check passed, check if HabReg.6.1a2 ≥ HabReg.6.1a1  ✔Check passed  ✘Error in validation: message H092 | H091  H092 | Incorrect data format.  6.1a2 Area in good condition - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
| CheckMandatory | If ‘Area in good condition - Maximum’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H093 | H093 | Mandatory information missing. | **ERROR** | Mandatory information missing. The maximum area of habitat with ‘good’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.1b1 Condition of habitats - Area in not-good condition - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area in not-good condition - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H094 | H094 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMandatory | If ‘Area in not-good condition - Minimum’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H095 | H095 | Mandatory information missing. | **ERROR** | Mandatory information missing. The minimum area of habitat with ‘not-good’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.1b2 Condition of habitats - Area in not-good condition - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area in not-good condition - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H096  2. If check passed, check if HabReg.6.1b2 ≥ HabReg.6.1b1  ✔Check passed  ✘Error in validation: message H097 | H096  H097 | Incorrect data format.  6.1b2 Area in not-good condition - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
| CheckMandatory | If ‘Area in not-good condition - Maximum’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H098 | H098 | Mandatory information missing. | **ERROR** | Mandatory information missing. The maximum area of habitat with ‘not-good’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.1c1 Condition of habitats - Area where condition is not known - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area where condition is not known - Minimum’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H099 | H099 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMandatory | If ‘Area where condition is not known - Minimum’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H100 | H100 | Mandatory information missing. | **ERROR** | Mandatory information missing. The minimum area of habitat with ‘unknown’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.1c2 Condition of habitats - Area where condition is not known - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Area where condition is not known - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H101  2. If check passed, check if HabReg.6.1c2 ≥ HabReg.6.1c1  ✔Check passed  ✘Error in validation: message H102 | H101  H102 | Incorrect data format.  6.1c2 Area where condition is not known - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
| CheckMandatory | If ‘Area where condition is not known’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H103 | H103 | Mandatory information missing. | **ERROR** | Mandatory information missing. The maximum area of habitat with ‘unknown’ condition should be provided. Report '0' when the surface is null.  The area is reported in km² and can be reported as a range (minimum and maximum); if a precise value is known this value should be reported for both the ‘minimum’ and ‘maximum’ fields. |
|  | HabReg.6.2 Condition of habitat Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Condition of habitat Method used’ is present | Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H104 | H104 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/). |
| CheckMandatory | If ‘Condition of habitat Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H105 | H105 | Mandatory information missing. | **ERROR** | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.6.3 Short-term trend of habitat area in good condition Period | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat1 | If ‘Short-term trend […] Period’ is present | 1. Check if date has valid format: should be like YYYY-YYYY.  ✔Check passed  ✘Error in validation: message H106  2. If check passed, check if YYYY1 ≤ YYYY2.  ✔Check passed  ✘Error in validation: message H107 | H106  H107 | Incorrect data format.  Incoherent information. | **ERROR**  **ERROR** | Incorrect data format, it must be YYYY-YYYY.  Incoherent information provided. Year1 should be ≤ than year2. |
| CheckMandatory | If ‘Short-term trend […] Period’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H108 | H108 | Mandatory information missing. | **ERROR** | Mandatory information missing. The period should be provided. |
|  | HabReg.6.4 Short-term trend of habitat area in good condition Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Short-term trend […] Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H109 | H109 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
| CheckMandatory | If ‘Short-term trend […] Direction’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H111 | H111 | Mandatory information missing. | **ERROR** | Mandatory information missing. The trend should be provided. In case the information to be reported in this section is not available use 'Unk - unknown'. |
|  | HabReg.6.5 Short-term trend of habitat area in good condition Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 | If ‘Short-term trend […] Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H112  2. If check passed, and the reported value is 'AbsentData', check if HabReg.6.4 is in ('U','Unk')  ✔Check passed  ✘Error in validation: message H113 | H112  H113 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Inconsistent values provided in fields 6.4 Short-term trend of habitat area in good condition Direction and 6.5 Short-term trend of habitat area in good condition Method used. When the method is assessed as ‘AbsentData - Insufficient or no data available’, the trend cannot be defined. If you want to report a trend as stable, increasing or decreasing based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used |
| If ‘Short-term trend […] Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H114 | H114 | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. | **ERROR** |  |
|  | HabReg.6.6 Typical species | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | HabReg.6.7 Typical species Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | HabReg.6.8 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 7 Main pressures and threats

The rules are similar to the ones showed in section 7 for habitats. Only the section numbering of the reporting format differs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.7.1a Characterisation of pressures/threats - pressurecode | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘pressurecode’ is present | 1. Check if the reported value is in the vocabulary: threats  ✔Check passed  ✘Error in validation: message H115  2. If check passed, when:   * HabReg.7.1c = 'p', check number of pressure ≤ 10   ✔Check passed  ✘Error in validation: message H116   * HabReg.7.1c = 't', check number of threats ≤ 10   ✔Check passed  ✘Error in validation: message H117   * HabReg.7.1c = 'p' AND HabReg.7.1b = 'H', check number of high pressures ≤ 5   ✔Check passed  ✘Error in validation: message H118   * HabReg.7.1c = 't' AND HabReg.7.1b = 'H', check number of high threats ≤ 5   ✔Check passed  ✘Error in validation: message H119  4. If check passed, when:   * HabReg.7.1c = 't', check if reported code <> ('Xu', 'Xxp')   ✔Check passed  ✘Error in validation: message H120   * HabReg.7.1c = 't' AND reported value is 'Xt', check that no other code is reported   ✔Check passed  ✘Error in validation: message H121   * HabReg.7.1c = 'p' AND reported value is 'Xp', check that no other code is reported   ✔Check passed  ✘Error in validation: message H122 | H115  H116  H117  H118  H119  H120  H121  H122 | Invalid code.  More entries than permitted.  More entries than permitted.  More entries than permitted.  More entries than permitted.  Incoherent information.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR**  **ERROR**  **ERROR**  **ERROR**  **WARNING**  **WARNING** | Invalid code. Please check the [vocabulary threats](http://dd.eionet.europa.eu/vocabulary/art17_2018/threats/).  More entries than permitted. Maximum of 10 pressures per biogeographical assessment.  More entries than permitted. Maximum of 10 threats per biogeographical assessment.  More entries than permitted. Maximum of 5 pressures with 'H - High importance' per biogeographical assessment.  More entries than permitted. Maximum of 5 threats with 'H - High importance' per biogeographical assessment.  Incoherent information in this section. Code 'Xu - Unknown pressure' or 'Xxp - No pressures ' should be reported as a pressure, not as a threat.  Incoherent information in this section. Code 'Xt - No information on threats' used but other threats listed.  Incoherent information in this section. Code 'Xp - No information on pressures' used but other pressures listed. |
|  |
| CheckMandatory + condition | If ‘pressurecode’ **not** present | When HabReg.7.1c **not** present  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H125  When HabReg.7.1c = 't', check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H126  When HabReg.7.1c = 'p', check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H127 | H125  H126  H127 | Mandatory information missing.  Mandatory information missing.  Mandatory information missing. | **ERROR**  **ERROR**  **ERROR** | Mandatory information missing. The list of pressures and/or threats should be provided. Report 'Xp - No information on pressures' and/or 'Xt - No information on threats' for missing information.  Mandatory information missing. The list of threats should be provided. Report 'Xt - No information on threats' for missing information.  Mandatory information missing. The list of pressures should be provided. Report 'Xp - No information on pressures' for missing information. |
| CheckMandatory + condition |
| CheckMandatory + condition |
|  | HabReg.7.1b Characterisation of pressures/threats - ranking | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘pressurecode’ is present | 1. Check if the reported value is in the vocabulary: ranking  ✔Check passed  ✘Error in validation: message H128  2. If check passed, check if HabReg.7.1a is present  ✔Check passed  ✘Error in validation: message H129 | H128  H129 | Invalid code.  Incoherent information. | **BLOCKER**  **ERROR** | Invalid code. Please check the [vocabulary ranking](http://dd.eionet.europa.eu/vocabulary/art17_2018/ranking/).  Incoherent information in this section. Ranking is provided although no code indicated for pressure and/or threat. |
|  |
|  | If ‘ranking’ **not** present | Check if HabReg.7.1a is null or in ('Xp', 'Xt', 'Xu', 'Xxp', 'Xxt')  ✔Check passed  ✘Error in validation: message H130 | H130 | Mandatory information missing. | **ERROR** | Mandatory information missing. This field cannot be empty unless the reported code is 'Xp', 'Xt', 'Xu', 'Xxp' or 'Xxt'. |
|  | HabReg.7.1c Characterisation of pressures/threats – pressure type | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | If ‘pressure type’ is present | 1. Check if the reported value is 'p' or 't'  ✔Check passed  ✘Error in validation: message H131  2. If check passed, check if HabReg.7.1a is present  ✔Check passed  ✘Error in validation: message H132 | H131  H132 | Invalid code.  Incoherent information. | **ERROR**  **ERROR** | Invalid code. Code should be 'p' = pressure or 't' = threat.  Incoherent information in this section. Type of pressure/threat is provided although no code indicated for pressure and/or threat. |
|  | If ‘pressure type’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H133 | H133 | Mandatory information missing. | **ERROR** | The type of pressure or threats should be systematically provided. Code should be 'p' = pressure or 't' = threat. |
|  | HabReg.7.2 Sources of information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |
|  | HabReg.7.3 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 8 Conservation measures

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.8.1a Are measures needed? | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckYESNO | If ‘Are measures needed? ’ is present | Check if the reported value is 'YES' or 'NO'  ✔Check passed  ✘Error in validation: message H134 | H134 | Invalid code. | **BLOCKER** | Invalid code. Code should be 'Yes' or 'No'. |
| CheckMandatory2 | If ‘Are measures needed? ’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H135 | H135 | Mandatory information missing. | **ERROR** | Mandatory information missing. Indicate whether measures are needed or not. |
|  | HabReg.8.1b If yes, indicate the status of measures: | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | If ‘If yes, indicate the status of measures? ’ is present | 1. Check if HabReg.8.1a like 'YES'  ✔Check passed  ✘Error in validation: message H136  2. Check if the reported value is in the vocabulary: measuresIdentified  ✔Check passed  ✘Error in validation: message H137 | H136  H137 | Incoherent information.  Invalid code. | **ERROR**  **BLOCKER** | Incoherent information in this section. Status of measures is not expected if no measures are needed.  Invalid code. Please check the [vocabulary measuresIdentified](http://dd.eionet.europa.eu/vocabulary/art17_2018/measuresIdentified). |
| CheckLUtable |
| CheckMandatory2 + condition | If ‘If yes, indicate the status of measures? ’ **not** present | When HabReg.8.1a like 'YES'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H138 | H138 | Mandatory information missing. | **ERROR** | Mandatory information missing. Status of measures should be provided if measures are needed. |
|  | HabReg.8.2 Main purpose of the measures taken | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | If ‘Main purpose of the measures taken’ is present | Check if HabReg.8.1b = 'taken'  ✔Check passed  ✘Error in validation: message H139  2. If check passed, check if the reported value is in the vocabulary: measuresPurposeHabitats  ✔Check passed  ✘Error in validation: message H140 | H139  H140 | Incoherent information.  Invalid code. | **WARNING**  **BLOCKER** | Incoherent information in this section. The main purpose of measures taken is not expected if no measures are identified and taken.  Invalid code. Please check the [vocabulary: measuresPurposeHabitats](http://dd.eionet.europa.eu/vocabulary/art17_2018/measuresPurposeHabitats/). |
| CheckLUtable |
| CheckMandatory2 + condition | If ‘Main purpose of the measures taken’ **not** present | When HabReg.8.1b = 'taken'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H141 | H141 | Incoherent information. | **ERROR** | Incoherent information in this section. The main purpose of measures taken is expected if measures are identified and taken. |
|  | HabReg.8.3 Location of the measures | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | If ‘Location of the measures’ is present | Check if HabReg.8.1b = 'taken'  ✔Check passed  ✘Error in validation: message H142  2. If check passed, check if the reported value is in the vocabulary: measuresLocation  ✔Check passed  ✘Error in validation: message H143 | H142  H143 | Incoherent information.  Invalid code. | **WARNING**  **BLOCKER** | Incoherent information in this section. Location of measures is not expected if no measures are identified and taken.  Invalid code. Please check the [vocabulary measuresLocation](http://dd.eionet.europa.eu/vocabulary/art17_2018/measuresLocation/). |
| CheckLUtable |
| CheckMandatory2 + condition | If ‘Location of the measures’ **not** present | When HabReg.8.1b = 'taken'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H144 | H144 | Incoherent information. | **ERROR** | Incoherent information in this section. The location of the measures is expected if measures are identified and taken |
|  | HabReg.8.4 Response to the measures | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | If ‘Response to the measures’ is present | 1. Check if HabReg.8.1a like 'YES'  ✔Check passed  ✘Error in validation: message H145  2. Check if the reported value is in the vocabulary: measuresResponse  ✔Check passed  ✘Error in validation: message H146 | H145  H146 | Incoherent information.  Invalid code. | **WARNING**  **BLOCKER** | Incoherent information in this section. Time frame of response to measures is not expected if no measures are needed.  Invalid code. Please check the [vocabulary measuresResponse](http://dd.eionet.europa.eu/vocabulary/art17_2018/measuresResponse/). |
| CheckLUtable |
| CheckMandatory2 + condition | If ‘Response to the measures’ **not** present | When HabReg.8.1a like 'YES'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H147 | H147 | Mandatory information missing. | **ERROR** | Mandatory information missing. The time frame of the response to measures should be provided if measures are needed. |
|  | HabReg.8.5 List of main conservation measures - measurecode | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘measurecode’ is present | 1. Check if the reported value is in the vocabulary: measures  ✔Check passed  ✘Error in validation: message H148  2. If check passed, check maximum of 10 codes are reported  ✔Check passed  ✘Error in validation: message H150 | H148  H150 | Invalid code.    More entries than permitted. | **BLOCKER**  **ERROR** | Invalid code. Please check the [vocabulary measures](http://dd.eionet.europa.eu/vocabulary/art17_2018/measures/).    More entries than permitted. Maximum of 10 measures per biogeographical assessment. |
|  |
| CheckMandatory2 + condition | If ‘measurecode’ **not** present | When HabReg.8.1a like 'YES'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H151 | H151 | Mandatory information missing. | **ERROR** | Mandatory information missing. The list of measures should be provided if measures are needed. |
|  | HabReg.8.6 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 9 Future prospects

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.9.1a Future prospects of parameters - Range | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Future prospects of parameters – Range’ is present | Check if the reported value is in the vocabulary: Prospects  ✔Check passed  ✘Error in validation: message H152 | H152 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary Prospects](http://dd.eionet.europa.eu/vocabulary/art17_2018/prospects/) |
| CheckMandatory | If ‘Future prospects of parameters – Range’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H153 | H153 | Mandatory information missing. | **ERROR** | Mandatory information missing. The future prospects of each of the three parameters should be provided. In case the information to be reported in this section is not available use 'unk - unknown'. |
|  | HabReg.9.1b Future prospects of parameters - Area | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Future prospects of parameters – Area’ is present | Check if the reported value is in the vocabulary: Prospects  ✔Check passed  ✘Error in validation: message H154 | H154 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary Prospects](http://dd.eionet.europa.eu/vocabulary/art17_2018/prospects/) |
| CheckMandatory | If ‘Future prospects of parameters – Area’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H155 | H155 | Mandatory information missing. | **ERROR** | Mandatory information missing. The future prospects of each of the three parameters should be provided. In case the information to be reported in this section is not available use 'unk - unknown'. |
|  | HabReg.9.1c Future prospects of parameters - Structure and functions | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Future prospects of parameters - Structure and functions’ is present | Check if the reported value is in the vocabulary: Prospects  ✔Check passed  ✘Error in validation: message H156 | H156 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary Prospects](http://dd.eionet.europa.eu/vocabulary/art17_2018/prospects/) |
| CheckMandatory | If ‘Future prospects of parameters - Structure and functions’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H157 | H157 | Mandatory information missing. | **ERROR** | Mandatory information missing. The future prospects of each of the three parameters should be provided. In case the information to be reported in this section is not available use 'unk - unknown'. |
|  | HabReg.9.2 Future prospects of parameters - Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 10 Conclusions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.10.1 Conclusions - Range | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Conclusions - Range’ is present | 1. Check if the reported value is in the vocabulary: assessments  ✔Check passed  ✘Error in validation: message H158  2. If check passed, when habitatcode <> '7120', check if:   * HabReg.10.1 like 'U2' when HabReg.4.10b like 'mmt'   ✔Check passed  ✘Error in validation: message H159   * HabReg.10.1 <> 'FV' when HabReg.4.3 like 'D'   ✔Check passed  ✘Error in validation: message H160 | H158  H159  H160 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary assessments](http://dd.eionet.europa.eu/vocabulary/art17_2018/assessments/).  Incoherent information in this section. The conclusion for Range should be 'U2 - Unfavourable - Bad' when range surface area is more than 10 % below favourable reference range (reported value in 4.10b is '>> - Much more than').  Incoherent information in this section. The conclusion for Range cannot be 'FV - Favourable' when the trend is decreasing (reported value in 4.3 is 'D - Decreasing'). |
|  |
| CheckMandatory | If ‘Conclusions - Range’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H161 | H161 | Mandatory information missing. | **ERROR** | Mandatory information missing. The conclusion for Range should be provided. |
|  | HabReg.10.2 Conclusions - Area | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Conclusions – Area’ is present | 1. Check if the reported value is in the vocabulary: assessments  ✔Check passed  ✘Error in validation: message H162  2. If check passed, when habitatcode <> '7120', check if:   * HabReg.10.2 like 'U2' when HabReg.5.13b like 'mmt'   ✔Check passed  ✘Error in validation: message H163   * HabReg.10.2 <> 'FV' when HabReg.5.6 like 'D'   ✔Check passed  ✘Error in validation: message H164 | H162  H163  H164 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary assessments](http://dd.eionet.europa.eu/vocabulary/art17_2018/assessments/).  Incoherent information in this section. Conclusion for Area should be 'U2 - Unfavourable - Bad' when area covered by habitat is more than 10 % below favourable reference area (reported value in 5.13b is '>> - Much more than').  Incoherent information in this section. The conclusion for Area cannot be 'FV - Favourable' when the trend is decreasing (reported value in 5.6 is 'D - Decreasing'). |
|  |
| CheckMandatory | If ‘Conclusions – Area’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H165 | H165 | Mandatory information missing. | **ERROR** | Mandatory information missing. The conclusion for Area should be provided. |
|  | HabReg.10.3 Conclusions - Specific structure and functions (incl. typical species) | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Conclusions - Specific structure and functions’ is present | Check if the reported value is in the vocabulary: assessments  ✔Check passed  ✘Error in validation: message H166 | H166 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary assessments](http://dd.eionet.europa.eu/vocabulary/art17_2018/assessments/). |
| CheckMandatory | If ‘Conclusions - Specific structure and functions’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H167 | H167 | Mandatory information missing. | **ERROR** | Mandatory information missing. The conclusion for Specific structure and functions should be provided. |
|  | HabReg.10.4 Conclusions - Future prospects | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Future prospects’ is present | 1. Check if the reported value is in the vocabulary: assessments  ✔Check passed  ✘Error in validation: message H168  2. If check passed, check if:   * Additionnal explanations of the rule in Annex1: HabReg.10.4 like 'FV' when HabReg.9.1a,b,c like 'good' or (HabReg.9.1a,b like 'good' and HabReg.9.1c like 'unk') or (HabReg.9.1a,c like 'good' and HabReg.9.1b like 'unk') or (HabReg.9.1b,c like 'good' and HabReg.9.1a like 'unk')   ✔Check passed  ✘Error in validation: message H169   * Additionnal explanations of the rule in Annex1: HabReg.10.4 like 'U2' when (HabReg.9.1a like 'bad' or HabReg.9.1b like 'bad' or HabReg.9.1c like 'bad')   ✔Check passed  ✘Error in validation: message H170   * Additionnal explanations of the rule in Annex1: HabReg.10.4 like 'XX' when HabReg.9.1a,b,c like 'unk' or (HabReg.9.1a,b like 'unk' and HabReg.9.1c <> 'bad') or (HabReg.9.1a,c like 'unk' and HabReg.9.1b <> 'bad') or (HabReg.9.1b,c like 'unk' and HabReg.9.1a <> 'bad')   ✔Check passed  ✘Error in validation: message H171 | H168  H169  H170  H171 | Invalid code.  Incoherent information.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary assessments](http://dd.eionet.europa.eu/vocabulary/art17_2018/assessments/).  Incoherent information in this section. Conclusion for Future prospects should be 'FV - Favourable' if all parameters (9.1a,b,c) have 'good' prospects, or prospects of one parameter is 'unk - unknown' and the other prospects are 'good'.  Incoherent information in this section. Conclusion for Future prospects should be 'U2 - Unfavourable - Bad' if one or more parameters (9.1a,b,c) have 'bad' prospects.  Incoherent information in this section. Conclusion for Future prospects should be 'XX - Unknown' if two or more parameters (9.1a,b,c) are 'unk - unknown' and no parameter with 'bad' prospects. |
|  |
| CheckMandatory | If ‘Future prospects’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H172 | H172 | Mandatory information missing. | **ERROR** | Mandatory information missing. The conclusion for Future prospects should be provided. |
|  | HabReg.10.5 Conclusions - Overall assessment of Conservation Status | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Overall assessment of Conservation Status’ is present | 1. Check if the reported value is in the vocabulary: assessments  ✔Check passed  ✘Error in validation: message H173  2. If check passed, check if:   * Additionnal explanations of the rule in Annex2: HabReg.10.5 like 'FV' when (HabReg.10.1 like 'FV' and HabReg.10.2 like 'FV' and HabReg.10.3 like 'FV' and HabReg.10.4 like 'FV') or (HabReg.10.1 like 'FV' and HabReg.10.2 like 'FV' and HabReg.10.3 like 'FV' and HabReg.10.4 like 'XX') or (HabReg.10.1 like 'FV' and HabReg.10.2 like 'FV' and HabReg.10.3 like 'XX' and HabReg.10.4 like 'FV') or (HabReg.10.1 like 'FV' and HabReg.10.2 like 'XX' and HabReg.10.3 like 'FV' and HabReg.10.4 like 'FV') or (HabReg.10.1 like 'XX' and HabReg.10.2 like 'FV' and HabReg.10.3 like 'FV' and HabReg.10.4 like 'FV')   ✔Check passed  ✘Error in validation: message H174   * Additionnal explanations of the rule in Annex2: HabReg.10.5 like 'U2' when HabReg.10.1 like 'U2' or HabReg.10.2 like 'U2' or HabReg.10.3 like 'U2' or HabReg.10.4 like 'U2'   ✔Check passed  ✘Error in validation: message H175   * Additionnal explanations of the rule in Annex2: HabReg.10.5 like 'U1' when ((HabReg.10.1 like 'U1' or HabReg.10.2 like 'U1' or HabReg.10.3 like 'U1' or HabReg.10.4 like 'U1') and (HabReg.10.1 <> 'U2' and HabReg.10.2 <> 'U2' and HabReg.10.3 <> 'U2' and HabReg.10.4 <> 'U2'))   ✔Check passed  ✘Error in validation: message H176 | H173  H174  H175  H176 | Invalid code.  Incoherent information.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary assessments](http://dd.eionet.europa.eu/vocabulary/art17_2018/assessments/).  Incoherent information in this section. Overall assessment should be 'FV - Favourable' if all assessments of parameters (10.1 to 10.4) are 'FV - Favourable', or three are 'FV - Favourable' and one is 'XX - Unknown'.  Incoherent information in this section. Overall assessment should be 'U2 - Unfavourable - Bad' if at least one assessment of parameters (10.1 to 10.4) is 'U2 - Unfavourable - Bad'.  Incoherent information in this section. Overall assessment should be 'U1 - Unfavourable - Inadequate' if at least one assessment of parameters (10.1 to 10.4) is 'U1 - Unfavourable - Inadequate' and none is 'U2 - Unfavourable - Bad'. |
|  |
| CheckMandatory | If ‘Overall assessment of Conservation Status’ **not** present | 1. Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H177  2. If check passed, check if HabReg.10.1 and HabReg.10.2 and HabReg.10.3 and HabReg.10.4 **not** present  ✔Check passed  ✘Error in validation: message H178 | H177  H178 | Mandatory information missing.  Mandatory information missing. | **ERROR**  **ERROR** | Mandatory information missing. Conclusion for Overall assessment of Conservation Status should be provided.  Mandatory information missing. Conclusion for Overall assessment of Conservation Status should be provided as other conclusions are provided (10.1 to 10.4). |
|  |
|  | HabReg.10.6 Conclusions - Overall trend in Conservation Status | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Conclusions - Overall trend’ is present | 1. Check if the reported value is in the vocabulary: trendsConclusion  ✔Check passed  ✘Error in validation: message H179 | H179 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trendsConclusion](http://dd.eionet.europa.eu/vocabulary/art17_2018/trendsConclusion/). |
| CheckMandatory + condition | If ‘Conclusions - Overall trend’ **not** present | When HabReg.10.5 = 'XX'  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H181 | H181 | Mandatory information missing. | **ERROR** | Mandatory information missing. Overall trend in conservation status should be provided when 10.5 Conclusions - Overall assessment of Conservation Status is not 'XX - Unknown'. |
|  | HabReg.10.7aa, ab, ac, ad, ae, af Overall assessment of conservation status | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | Note: In this section, the user has to select first a main reason (that has to be clearly identified), and then can add up to 3 other reasons listed in the look up table. However, he can also select 'nochange', meaning only one entry is allowed. | | | | | |
| CheckChange | If ‘Overall assessment of conservation status’ is present | 1. Check if the reported value(s) are in the vocabulary: reasonChange  ✔Check passed  ✘Error in validation: message H182  2. If check passed, check   * if one of the reported value = 'noChange', check that there is no reason for change provided (meaning there should not be an additional value)   ✔Check passed  ✘Error in validation: message H183   * if all the reported value <> 'noChange' AND value in ( 'genuine', 'knowledge', 'method'), check that either 'genuine' or 'knowledge' or 'method' is indicated as main reason   ✔Check passed  ✘Error in validation: message H184 | H182  H183  H184 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary reasonChange](http://dd.eionet.europa.eu/vocabulary/art17_2018/reasonChange/).  Incoherent information in this section. If 'noChange' is selected, there is no need to explain the nature of change.  Incoherent information in this section. Only one main reason is expected. |
| If ‘Overall assessment of conservation status’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H185 | H185 | Mandatory information missing. | **ERROR** | Mandatory information missing. Indicate if there is any change since the previous reporting period (2007–2012) in conservation status. Report 'noChange' if the answer to the question: ‘Is there a change from the previous reporting round?’ is 'No, there is no difference'. Provide the nature of that change (more than one option can be chosen) if the answer is 'Yes'. |
|  | HabReg.10.7ba, bb, bc, bd, be, bf Overall trend in conservation status | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | Note: In this section, the user has to select first a main reason (that has to be clearly identified), and then can add up to 3 other reasons listed in the look up table. However, he can also select 'nochange', meaning only one entry is allowed. | | | | | |
| CheckChange | If ‘Overall assessment of conservation status’ is present | 1. Check if the reported value(s) are in the vocabulary: reasonChange  ✔Check passed  ✘Error in validation: message H186  2. If check passed, check   * if one of the reported value = 'noChange', check that there is no reason for change provided (meaning there should not be an additional value)   ✔Check passed  ✘Error in validation: message H187   * if all the reported value <> 'noChange' AND value in ( 'genuine', 'knowledge', 'method'), check that either 'genuine' or 'knowledge' or 'method' is indicated as main reason   ✔Check passed  ✘Error in validation: message H188 | H186  H187  H188 | Invalid code.  Incoherent information.  Incoherent information. | **BLOCKER**  **ERROR**  **ERROR** | Invalid code. Please check the [vocabulary reasonChange](http://dd.eionet.europa.eu/vocabulary/art17_2018/reasonChange/).  Incoherent information in this section. If 'noChange' is selected, there is no need to explain the nature of change.  Incoherent information in this section. Only one main reason is expected. |
| If ‘Overall trend in conservation status’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H189 | H189 | Mandatory information missing. | **ERROR** | Mandatory information missing. Indicate if there is any change since the previous reporting period (2007–2012) in trend in conservation status. Report 'noChange' if the answer to the question: ‘Is there a change from the previous reporting round?’ is 'No, there is no difference'. Provide the nature of that change (more than one option can be chosen) if the answer is 'Yes'. |
|  | HabReg.10.8 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 11 Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | HabReg.11.1a Surface area of the habitat type inside the pSCIs, SCIs and SACs network - Minimum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area inside the network - Minimum’ is present | Check the data type and ≥ 0  ✔Check passed  ✘Error in validation: message H190 | H190 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
|  | HabReg.11.1b Surface area of the habitat type inside the pSCIs, SCIs and SACs network - Maximum | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area inside the network - Maximum’ is present | 1. Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H191  2. If check passed, check if HabReg.11.1b ≥ HabReg.11.1a  ✔Check passed  ✘Error in validation: message H192 | H191  H192 | Incorrect data format.  11.1b Surface area within Natura 2000 network - max should be ≥ min. | **ERROR**  **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMinMax |
|  | HabReg.11.1c Surface area of the habitat type inside the pSCIs, SCIs and SACs network - Best single value | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckDATAformat2 | If ‘Surface area inside the network - Best single value’ is present | Check the data type and value ≥ 0  ✔Check passed  ✘Error in validation: message H193 | H193 | Incorrect data format. | **ERROR** | Incorrect data format. Numeric field, only decimals ≥ 0 are permitted. |
| CheckMandatory + condition | If ‘Surface area inside the network - Best single value’ **not** present | When HabReg.11.1a and HabReg.11.1b **not** present  Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H194 | H194 | Mandatory information missing. | **ERROR** | Mandatory information missing. Surface area of the habitat type within Natura 2000 network should be provided as an interval (11.1a, b) and/or a single value (11.1c).  When only a minimum (or maximum) value of the surface area of the habitat type within the network is known (e.g. through expert opinion) this should be entered in the ‘Best single value’ field and NOT the ‘(a) Minimum’ or ‘(b) Maximum’ fields. |
|  | HabReg.11.2 Type of estimate | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Type of estimate’ is present | 1. Check if the reported value is in the vocabulary: typeEstimate and code <> 'mean'  ✔Check passed  ✘Error in validation: message H195  2. If check passed, check if a value is present at least in one of these fields (HabReg.11.1a or HabReg.11.1b or HabReg.11.1c)  ✔Check passed  ✘Error in validation: message H196 | H195  H196 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary typeEstimate](http://dd.eionet.europa.eu/vocabulary/art17_2018/typeEstimate/).  The value 'mean - multi-year mean' is not allowed in this section.  Incoherent information provided. Type of estimate was provided although there is no entry for surface area within Natura 2000 network (11.1a,b,c). Check coherence between these two fields.  If both interval (11.1a ‘Minimum’ and 11.1b ‘Maximum’) and a single value (11.1c ‘Best single value’) are provided, field 11.2 ‘Type of estimate’ should correspond to the more accurate estimate. This should be noted in 11.6 ‘Additional information’. |
|  |
| CheckMandatory | If ‘Type of estimate’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H197 | H197 | Mandatory information missing. | **ERROR** | Mandatory information missing. The type of estimate for the surface area covered by the habitat should be provided. |
|  | HabReg.11.3 Surface area of the habitat type inside the network Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 (condition slightly different) | If ‘Surface area inside the network Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H198  2. If check passed, and the reported value is 'AbsentData', check if HabReg.11.2 **not** present  ✔Check passed  ✘Error in validation: message H199 | H198  H199 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Incoherent information provided. 11.2 Type of estimate should be empty when Surface area within Natura 2000 Method used is ‘AbsentData - Insufficient or no data available’.  When the method is assessed as ‘AbsentData - Insufficient or no data available’, the type of estimate used for the surface area inside the network cannot be defined. If you want to report an estimate based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used. |
| If ‘Surface area inside the network Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H200 | H200 | Mandatory information missing. | **ERROR** | Mandatory information missing. Method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.11.4 Short-term trend of habitat area in good condition within the network Direction | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckLUtable | If ‘Short-term trend Direction’ is present | Check if the reported value is in the vocabulary: trends  ✔Check passed  ✘Error in validation: message H201 | H201 | Invalid code. | **BLOCKER** | Invalid code. Please check the [vocabulary trends](http://dd.eionet.europa.eu/vocabulary/art17_2018/trends/). |
| CheckMandatory | If ‘Short-term trend Direction’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H202 | H202 | Mandatory information missing. | **ERROR** | Mandatory information missing. The trend should be provided. In case the information to be reported in this section is not available use 'Unk - unknown'. |
|  | HabReg.11.5 Short-term trend of habitat area in good condition within the network Method used | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
| CheckMethod2 | If ‘Short-term trend Method used’ is present | 1. Check if the reported value is in the vocabulary: methodsUsed  ✔Check passed  ✘Error in validation: message H203  2. If check passed, and the reported value is 'AbsentData', check if HabReg.11.4 is in ('U','Unk')  ✔Check passed  ✘Error in validation: message H204 | H203  H204 | Invalid code.  Incoherent information. | **BLOCKER**  **WARNING** | Invalid code. Please check the [vocabulary methodsUsed](http://dd.eionet.europa.eu/vocabulary/art17_2018/methodsUsed/).  Inconsistent values provided in fields 11.4 Short-term trend Direction and 11.5 Short-term trend Method used. When the method is assessed as ‘AbsentData - Insufficient or no data available’, the trend cannot be defined. If you want to report a trend as stable, increasing or decreasing based on a method using limited data, please select ‘estimateExpert - Based mainly on expert opinion with very limited data’ for the method used. |
| If ‘Short-term trend Method used’ **not** present | Check if occurrence <> 'PRE'  ✔Check passed  ✘Error in validation: message H205 | H205 | Mandatory information missing. | **ERROR** | Mandatory information missing. The method should be provided. In case the information to be reported in this section is not available use ‘AbsentData - Insufficient or no data available’. |
|  | HabReg.11.6 Additional information | | | | | |
|  | **Rule explanation** | | **Error code** | **Error message** | **Error class** | **Description for users** |
|  | No check | | | | | |

# Annex D - 12 Complementary information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HabReg.12.1 Justification of % thresholds for trends | | | | |
| **Rule explanation** | **Error code** | **Error message** | **Error class** | **Description for users** |
| No check | | | | |
| HabReg.12.2 Other relevant information | | | | |
| **Rule explanation** | **Error code** | **Error message** | **Error class** | **Description for users** |
| No check | | | | |

**Annex 1:** Combining the evaluation of the three parameters to give Future prospects for a habitat type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HabReg.9.1a** Future prospects of parameters - Range | **good** |  |  |  |
| **HabReg.9.1b** Future prospects of parameters - Area |  |  |  | **unknown** |
| **HabReg.9.1c** Future prospects of parameters - Structure and functions |  | **poor** |  |  |
| **HabReg.9.4** Conclusions - Future prospects | **Should be 'FV' when:**  All parameters have ‘good’ prospects OR prospects of one parameter ‘unknown’, the other prospects ‘good’ | **Should be 'U1' when:**  Other combination | **Should be 'U2' when:**  One or more parameters have ‘bad’ prospects | **Should be 'XX' when:**  Two or more ‘unknown’ and no parameter with ‘bad’ prospects |

The current example (evaluation of parameters indicated in blue) shows in the matrix, the conclusion for Future Prospects should be 'U1' as 1 parameter is 'good', 1 is 'unknown' and the last one is 'poor'. The rule to be applied is “Should be 'U1' when:Other combination”.

The matrix above can be also explained as follow:

HabReg.10.4should be **'FV'** when 3 values are reported as ‘Good’, or 2 values are reported as ‘Good’ and 1 as ‘Unknown’ in HabReg.9.1 a,b,c

Statement: HabReg.10.4 like ‘FV’ when HabReg.9.1a,b,c like "good" or (HabReg.9.1a,b like "good" and HabReg.9.1c like "unk") or (HabReg.9.1a,c like "good" and HabReg.9.1b like "unk") or (HabReg.9.1b,c like "good" and HabReg.9.1a like "unk")

HabReg.10.4should be **'U2'** when at least 1 reported value is ‘Bad’ in HabReg.9.1a,b,c

Statement: HabReg.10.4 like ‘U2’ when (HabReg.9.1a like "bad" or HabReg.9.1b like "bad" or HabReg.9.1c like "bad")

HabReg.10.4should be **'XX'** when all reported values are ‘Unknown’ or 2 reported values are ‘Unknown’ and the last one is **not** ‘Bad’ in HabReg.9.1a,b,c

Statement: HabReg.10.4 like ‘XX’ when HabReg.9.1a,b,c like "unk" or (HabReg.9.1a,b like "unk" and HabReg.9.1c <> "bad") or (HabReg.9.1a,c like "unk" and HabReg.9.1b <> "bad") or (HabReg.9.1b,c like "unk" and HabReg.9.1a <> "bad")

**Annex 2: Rules to assess the overall assessment of conservation status**

The overall conclusion (HabReg.10.5) results of the assessment of 4 other parameters (HabReg.10.1 to HabReg.10.4)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HabReg.10.1** Conclusions - Range | **FV** |  |  |  |
| **HabReg.10.2** Conclusions - Area |  | **U1** |  |  |
| **HabReg.10.3** Conclusions - Specific structure and functions (incl. typical species) |  |  | **U2** |  |
| **HabReg.10.4** Conclusions - Future prospects | **FV** |  |  |  |
| **HabReg.10.5** Conclusions - Overall assessment of Conservation Status | **Should be 'FV' when:**  All 'FV' OR  three 'FV' and one 'XX' | **Should be 'U1' when:**  One or more 'U1' but no 'U2' | **Should be 'U2' when:**  One or more 'U2' | **Should be 'XX' when:**  Two or more 'XX' combined with 'FV' OR all 'XX' |

The current example (conclusions indicated in blue) shows in the matrix, the overall assessment should be 'U2' as 2 parameters are 'FV' and 1 is 'U1', but there is 1 parameter assessed as 'U2'. The rule to be applied is “Should be 'U2' when: One or more 'U2'”.

The matrix above can be also explained as follow:

* HabReg.10.5 should be **'FV'** when the 4 parameters HabReg.10.1 to HabReg.10.4 are ‘FV’, or when 3 are ‘FV’ and 1 is ‘XX’.

Statement: HabReg.10.5 like ‘FV’ when (HabReg.10.1 like "FV" and HabReg.10.2 like "FV" and HabReg.10.3 like "FV" and HabReg.10.4 like "FV") or (HabReg.10.1 like "FV" and HabReg.10.2 like "FV" and HabReg.10.3 like "FV" and HabReg.10.4 like "XX") or (HabReg.10.1 like "FV" and HabReg.10.2 like "FV" and HabReg.10.3 like "XX" and HabReg.10.4 like "FV") or (HabReg.10.1 like "FV" and HabReg.10.2 like "XX" and HabReg.10.3 like "FV" and HabReg.10.4 like "FV") or (HabReg.10.1 like "XX" and HabReg.10.2 like "FV" and HabReg.10.3 like "FV" and HabReg.10.4 like "FV")

* HabReg.10.5 should be **'U2'** when at least 1 of the parameters HabReg.10.1 to HabReg.10.4 is ‘U2’

Statement: HabReg.10.5 like ‘U2’ when HabReg.10.1 like "U2" or HabReg.10.2 like "U2" or HabReg.10.3 like "U2" or HabReg.10.4 like "U2

* HabReg.10.5 should be **'U1'** when at least 1 of the parameters HabReg.10.1 to HabReg.10.4 is ‘U1’ and none of the others is ‘U2’

**Statement:** HabReg.10.5 like ‘U1’ when ((HabReg.10.1 like "U1" or HabReg.10.2 like "U1" or HabReg.10.3 like "U1" or HabReg.10.4 like "U1") and (HabReg.10.1 <> "U2" and HabReg.10.2 <> "U2" and HabReg.10.3 <> "U2" and HabReg.10.4 <> "U2"))