European Topic Centre on Biological Diversity
A Topic Centre of The European Environment Agency

HABITATS DIRECTIVE ARTICLE 17 REPORT (2001 – 2006)

Article 17 database- description

This paper is part of the web-based Article 17 Technical Report (2001-2006)
http://biodiversity.eionet.europa.eu/article17
compiled by the European Topic Centre on Biological Diversity for the European Commission (DG Environment)

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ETC/BD, Paris, 2008

Article 17 database- description

The database contains information on the habitat types and species listed in the Annexes of the Habitats Directive collected in the framework of the Article 17 reporting. The data were primarily collected from the Member States. Subsequently, in order to produce the EU25 biogeographical assessment, they were aggregated to provide the single habitat type or species record per biogeographical region in EU25. The data are organised at two levels: the Member State level and the EU25 level. The data at the EU 25 level were created by ETC/BD based on the data submitted by Member States. The data at the Member State level were regularised in order to facilitate aggregation.

The database contains 1 habitat and 1 species table with the information at the EU 25 level. The information at the Member State level is organised in 2 main tables, one for each habitats and species, and in several associated tables. The structure of the database is presented in the diagram bellow.

TABLES

List of the tables:

Habitats

*Table:'data_habitats_EU_assessment' (*main habitat table at the EU25 biogeographical level)

Table: 'data_habitats_MS_assessment (main habitat table at Member State level)

Table: 'data_habitat_reasons_for_range_trend'

Table: 'data_habitat_reasons_for_area_trend'

Table: data_habitats_MS_pressures

Table: data_habitats_MS_threats

Table: data_typical_species_for_habitats

Species

*Table: data_species_EU_assessment (*main species table at the EU25 biogeographical level

Table: data_species_MS_assessment (main habitat table at Member State level

Table: data_species_reasons_for_range_trend

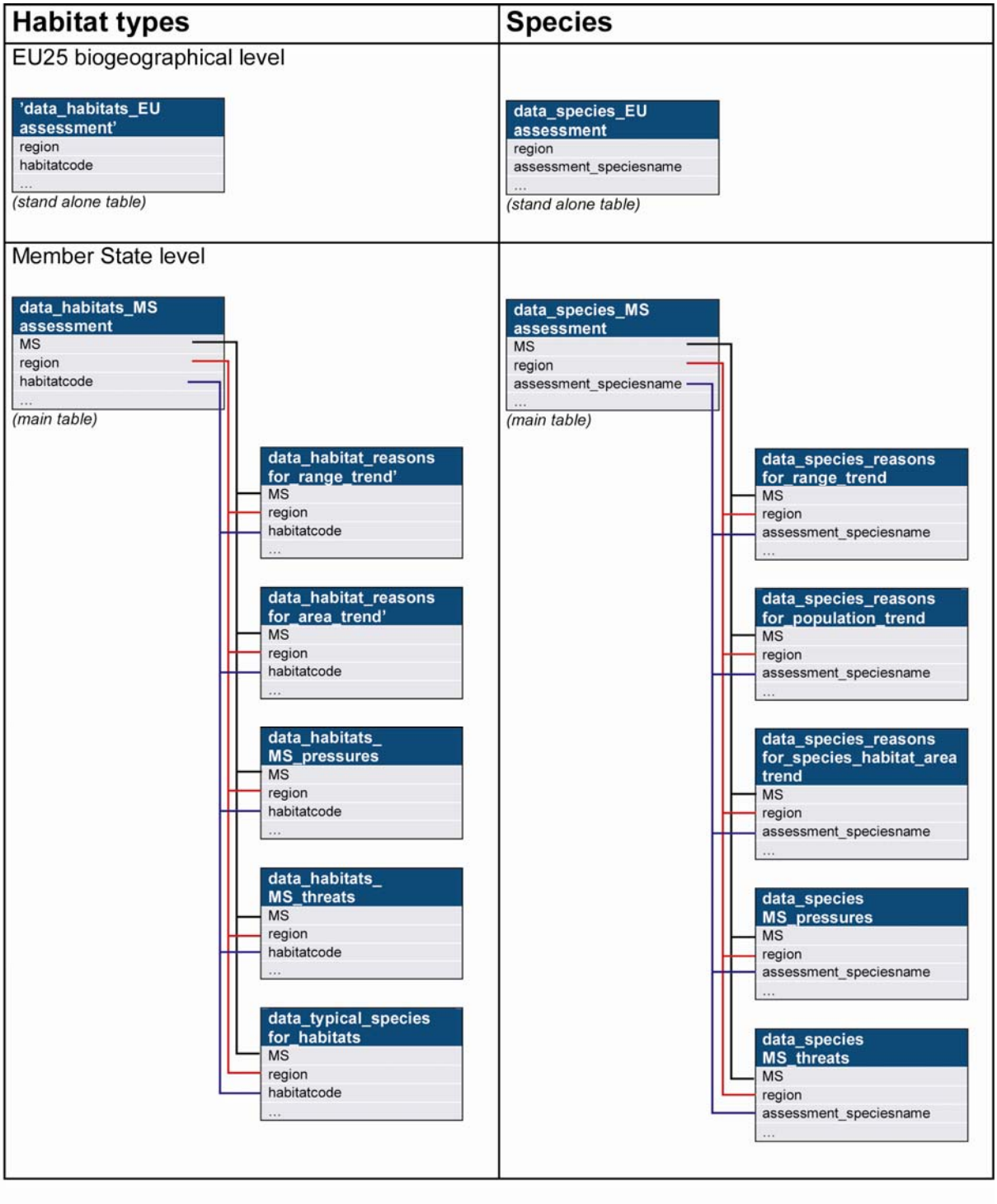
Table: data_species_reasons_for_population_trend

Table: data_species_reasons_for_species_habitat_area_trend

Table: data_species_MS_pressures

Table: data_species_MS_threats

Database structure: Database contains information for both habitat types and species at both Member State and EU 25 level.



Description of the tables

Note: More details about the Article 17 reporting format can be found in the 'Article 17 Explanatory Notes & Guidelines'.

Table:'data_habitats_EU_assessment'

Table description: main habitat table including information on the range, surface area of the habitat and the assessments of the conservation status at the EU25 biogeographical level

Name	Type	Sized	Description
MS	Text	4	Default value EU.
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
habitatcode	Text	50	Code of the habitat type as in the Habitat Directive Annex I
range_surface_area	Text	23	Surface area of the range in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
range_trend	Text	3	Trend of the range
			Values are from 'dic_trends'
range_yearly_magnitude	Text	23	Average yearly increase or decrease of the range
complementary_favourable_range	Text	23	Favourable reference range in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
coverage_surface_area	Text	23	Area covered by habitat type in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
coverage_trend	Text	3	Trend of the habitat area
			Values are from 'dic_trends'
coverage_yearly_magnitude	Text	23	Average yearly increase or decrease of the area covered by the habitat
complementary_favourable_area	Text	23	Favourable reference area in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
method_range	Text	3	Code of the method used to assess the range at the biogeographical level.
			Values are from 'dic_assessments_method'
conclusion_range	Text	2	Conclusion - range.
			Values are from 'dic_assessments_conclusions'
method_area	Text	3	Code of the method used to assess the area of the habitat type at the biogeographical level.
			Values are from 'dic_assessments_method'
conclusion_area	Text	2	conclusion - area of the habitat type.
			Values are from 'dic_assessments_conclusions'
method_structure	Text	3	Code of the method used to assess the structures and functions at the biogeographical level.
			Values are from 'dic_assessments_method'.
conclusion_structure	Text	2	conclusion - structures and functions
			Values are from 'dic_assessments_conclusions'
method_future	Text	3	Code of the method used to assess the future prospects

Name	Type	Sized	Description
			Values are from 'dic_assessments_method'
conclusion_future	Text	2	conclusion - future prospects.3
			Values are from 'dic_assessments_conclusions'
method_assessment	Text	3	Code of the method used to calculate the overall assessment.
			Values are from 'dic_assessments_method'
conclusion_assessment	Text	2	Overall assessment.
			Values are from 'dic_assessments_conclusions'

Table: data_habitats_MS_assessment

Table description: main habitat table including information on the range, surface area of the habitat and assessments of the conservation status at the Member State level.

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
habitatcode	Text	4	Code of the habitat type as in the Habitat Directive Annex I
range_surface_area	Double	8	Surface area of the range in km^2.
percentage_range_surface_area	Double	8	Percentage of the total area of the range in the biogeographical region in EU 25.
range_trend	Text	1	Trend of the range
			Values are from 'dic_trends'
range_yearly_magnitude	Double	8	Average yearly increase or decrease of the range
complementary_favourable_range_q	Text	2	Favourable reference range –qualifier.
			Values are from 'dic_qualifers'
complementary_favourable_range	Double	8	Favourable reference range in km^2.
coverage_surface_area	Double	8	Area covered by habitat type in km^2.
percentage_coverage_surface_area	Double	8	Percentage of the total area of the habitat in the biogeographical region in EU 25.
coverage_trend	Text	1	Trend of the habitat area
			Values are from 'dic_trends'
coverage_yearly_magnitude	Double	8	Average yearly increase or decrease of the area covered by the habitat
complementary_favourable_area_q	Text	2	Favourable reference area –qualifier.
			Values are from 'dic_qualifers'
complementary_favourable_area	Double	8	Favourable reference area covered by habitat in km^2.
conclusion_range	Text	3	Conclusion - range.
			Values are from 'dic_assessments_conclusions'.
conclusion_area	Text	3	conclusion - area of the habitat type.
			Values are from 'dic_assessments_conclusions'
conclusion_structure	Text	3	conclusion - structures and functions

Name	Type	Size	Description
			Values are from 'dic_assessments_conclusions'
conclusion_future	Text	3	conclusion - future prospects Values are from 'dic_assessments_conclusions'
conclusion_assessment	Text	3	Overall assessment.
			Values are from 'dic_assessments_conclusions'.
range_quality	Text	13	Quality of the data on range
			Values are from 'dic_quality' followed by the date or period of determination of range.
area coverage_quality	Text	13	Quality of the data on area covered by habitat
			Values are from 'dic_quality' followed by the date or period of determination of area covered by habitat.
complementary_other_information	Memo	-	complementary information in as reported by Member State
complementary_other_information_english	Memo	-	complementary information automated English translation.
range_grid_area	Double	8	area of the generalised range calculated from GIS
percentage_range_grid_area	Double	8	percentage of the generalised GIS area of the range in the biogeographical region in EU25.
distribution_grid_area	Double	8	area of the generalised distribution calculated from GIS
percentage_distribution_grid_area	Double	8	percentage of the generalised GIS area of the distribution in the biogeographical region in EU25.
published_data_sources	Memo	-	published data sources
typical_species_assessment	Memo	-	assessment of the typical species of the habitat type
coverage_justification	Memo	-	justification for the use of the different thresholds for trends in the evaluation matrix

Table: 'data_habitat_reasons_for_range_trend'

Table description: reasons for the reported trend of the habitat range. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
habitatcode	Text	4	code of the habitat type as in the Habitat Directive Annex I
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
reasoncode	Text	20	Code for the reason of the trend
			Values are from 'dic_reasons'

Table: 'data_habitat_reasons_for_area_trend'

Table description: reasons for the reported trend of the habitat surface area. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
habitatcode	Text	4	Habitat Directive Annex I code of the habitat type
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
reasoncode	Text	20	Code for the reason of the trend
			Values are from 'dic_reasons'

Table: data_habitats_MS_pressures

Table description: the activities that are considered as pressures to the habitat. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
habitatcode	Text	4	Code of the habitat type as in the Habitat Directive Annex I
pressure	Text	3	Code of the pressure
			Values are from 'dic_threats_and_pressures'

Table: data_habitats_MS_threats

Table description: the activities that are considered as future threats to the habitat. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
habitatcode	Text	4	Code of the habitat type as in the Habitat Directive Annex I
threats	Text	3	Code of the threat
			Values are from 'dic_threats_and_pressures'

Table: data_typical_species_for_habitats

Table description: typical species of the habitat types. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	255	Member State code
region	Text	255	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
habitatcode	Text	4	Code of the habitat type as in the Habitat Directive Annex I
speciesname	Text	255	species name as reported by the Member State
speciesauthor	Text	255	author of the species (if available)

Table: data_species_EU_assessment

Table description: main species table including information on the range, population, habitat of the species and the assessments of the conservation status at the EU25 biogeographical level

Name	Type	Size	Description
MS	Text	4	Default value EU25
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
assessment_speciesname	Text	60	Species name
range_surface_area	Text	23	Surface area of the range in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
range_trend	Text	3	Trend of the range
			Values are from 'dic_trends'
range_yearly_magnitude	Text	23	Average yearly increase or decrease of the range
complementary_favourable_range	Text	23	Favourable reference range in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
population_size	Text	23	Size of the population. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
population_size_unit	Text	6	Units used to estimate the population size.
			Values are from 'dic_population_number'
population_trend	Text	3	Trend of the population size.
			Values are from 'dic_trends'
population_yearly_magnitude	Text	23	Average yearly increase or decrease of the population size
complementary_favourable_population	Text	23	Favourable reference population. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
habitat_surface_area	Text	23	Surface area of the habitat for the species in the in km^2. It

Name	Type	Size	Description
			can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
habitat_trend	Text	3	Trend of the area of habitat of species.
			Values are from 'dic_trends'
complementary_suitable_habitat	Text	23	Area of the suitable habitat for the species in km^2. It can be a number or a number with a qualifier.
			Values are from 'dic_qualifers'
method_range	Text	3	Code of the method used to assess the range.
			Values are from 'dic_assessments_method'
conclusion_range	Text	2	Conclusion - range.
			Values are from 'dic_assessments_conclusions'
'method_population	Text	3	Code of the method used to assess the population of the species at the biogeographical level.
			Values are from 'dic_assessments_method'
conclusion_population	Text	2	Conclusion - population.
			Values are from 'dic_assessments_conclusions'
method_habitat	Text	3	Code of the method used to assess the habitat of the species at the biogeographical level.
			Values are from 'dic_assessments_method'
conclusion_habitat	Text	2	Conclusion - habitat.
			Values are from 'dic_assessments_conclusions'
method_future	Text	3	Code of the method used to assess the future prospects Values are from 'dic_assessments_method'
conclusion_future	Text	2	conclusion - future prospects.3
			Values are from 'dic_assessments_conclusions'
method_assessment	Text	3	Code of the method used to calculate the overall assessment.
			Values are from 'dic_assessments_method'
conclusion_assessment	Text	2	Overall assessment.
			Values are from 'dic_assessments_conclusions'

Table: data_species_MS_assessment

Table description: main species table including information on the range, population, habitat of the species and the assessments of the conservation status at the Member State level

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
ms_speciesname	Text	50	Species name repotted by Member States
n2000_species_code	Long Integer	4	Species code.
			Values are from 'dic_hd_species_annexII_IV_V'
assessment_speciesname	Text	60	Species name

Name	Type	Size	Description
range_surface_area	Double	8	Surface area of the range in km^2.
percentage_range_surface_area	Double	8	Percentage of the total area of the range in the biogeographical region in EU 25.
range_trend	Text	1	Trend of the range Values are from 'dic_trends'
range_yearly_magnitude	Double	8	Average yearly increase or decrease of the range
complementary_favourable_range_q	Text	2	Favourable reference range –qualifier. Values are from 'dic_qualifers'
complementary_favourable_range	Double	8	Favourable reference range in km^2.
population_minimum_size	Double	8	Minimum estimate of the population size. If none was provided, than the field was filled with the value from 'population_maximum_size'
percentage_population_minimum_size	Double	8	Percentage of the total population size (based on the Minimum estimate) in the biogeographical region in EU 25.
population_maximum_size	Double	8	Maximum estimate of the population size. If none was provided, than the field was filled with the value from 'population_maximum_size'
percentage_population_maximum_size	Double	8	Percentage of the total population size (based on the Maximum estimate) in the biogeographical region in EU 25.
filled_population	Text	3	Indication how the population size data were treated during aggregation. Values:'MIN' indicates that only the maximum population was provided and the minimum population was filled with the value from maximum. 'MAX' indicates that only the minimum population was provided and the maximum population was filled with the value from minimum. Null- no treatement.
population_size_unit	Text	6	Units used to estimate the population size. Values are from 'dic_population_number'
different_population_units	Long Integer	4	has value '1' if different population units were reported by different
percentage_population_mean_size	Double	8	Percentage of the total population size (based on the average population size) in the biogeographical region in EU 25.
population_trend	Text	1	Trend of the population Values are from 'dic_trends'
population_yearly_magnitude	Double	8	Average yearly increase or decrease of the population size
complementary_favourable_population_q	Text	2	Favourable reference population size- qualifier
complementary_favourable_population	Double	8	Favourable reference population size in same units as the population size.
habitat_surface_area	Double	8	Surface area of the habitat for the species in the in km^2.
percentage_habitat_surface_area	Double	8	Percentage of the total habitat area in the biogeographical region in EU 25.
habitat_trend	Text	1	Trend of the area of habitat of species. Values are from 'dic_trends'
complementary_suitable_habitat	Double	8	Area of the suitable habitat for the species in km^2.
future_prospects	Text	4	Future prospects for the species Values are from 'dic_prospects'
conclusion_range	Text	3	Conclusion - range.

Name	Type	Size	Description
			Values are from 'dic_assessments_conclusions'
conclusion_population	Text	3	Conclusion - population.
			Values are from 'dic_assessments_conclusions'
conclusion_habitat	Text	3	Conclusion - habitat.
			Values are from 'dic_assessments_conclusions'
conclusion_future	Text	3	Conclusion - future prospects.3
			Values are from 'dic_assessments_conclusions'
conclusion_assessment	Text	3	Overall assessment.
			Values are from 'dic_assessments_conclusions'
range_quality	Text	13	Quality of the data on range
			Values are from 'dic_quality' followed by the date or period of determination of range.
population_quality	Text	13	Quality of the data on population
			Values are from 'dic_quality' followed by the date or period of determination of range.
habitat_quality	Text	13	Quality of the data on habitat of the species
			Values are from 'dic_quality' followed by the date or period of determination of range.
complementary_other_information	Memo	-	complementary information in as reported by Member State
complementary_other_information_english	Memo	-	complementary information automated English translation.
range_grid_area	Double	8	area of the generalised range calculated from GIS
percentage_range_grid_area	Double	8	percentage of the generalised GIS area of the range in the biogeographical region in EU25.
distribution_grid_area	Double	8	area of the generalised distribution calculated from GIS
percentage_distribution_grid_area	Double	8	percentage of the generalised GIS area of the distribution in the biogeographical region in EU25.
published_data_sources	Memo	-	published data sources
habitats_for_the_species	Memo	-	Habitat of the species- types of the habitat

Table: data_species_reasons_for_range_trend

Table description: reasons for the reported trend of the species range. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
assessment_speciesname	Text	60	Species name
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
reasoncode	Text	20	Code for the reason of the trend
			Values are from 'dic_reasons'

Table: data_species_reasons_for_population_trend

Table description: reasons for the reported trend of the species population. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
assessment_speciesname	Text	60	Species name
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
reasoncode	Text	20	Code for the reason of the trend
			Values are from 'dic_reasons'

Table: data_species_reasons_for_species_habitat_area_trend

Table description: reasons for the reported trend of the habitat of the species. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
assessment_speciesname	Text	60	Species name
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
reasoncode	Text	20	Code for the reason of the trend
			Values are from 'dic_reasons'

Table: data_species_MS_pressures

Table description: the activities that are considered as pressure to the species populations. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
assessment_speciesname	Text	60	Species name
pressure	Text	3	Code of the pressure
			Values are from 'dic_threats_and_pressures'

Table: data_species_MS_threats

Table description: the activities that are considered as future threats to the species populations. The information was reported by Member States.

Name	Type	Size	Description
MS	Text	2	Member State code
region	Text	4	Code of the biogeographical or marine region
			Values are from 'dic_biogeographical_regions'
assessment_speciesname	Text	60	Species name
threats	Text	3	Code of the threat
			Values are from 'dic_threats_and_pressures'

DICTIONARIES

List of the dictionaries.

dic_assessments_conclusions

Description: codes for the assessments of the conservation status

dic_assessments_method

Description: codes for the methods of the assessment of conservation status

dic_biogeographical_regions

Description: codes for the biogeographical and marine regions

dic_country_codes

Description: codes for the Member States

dic_hd_habitats_annexI

Description: List of the Habitat Directive Annex I habitats

dic_hd_species_annexII_IV_V

Description: List of the Habitat Directive species.

dic_population_number

Description: codes for the units of the population size

dic_prospects

Description: codes for the future prospects

dic_quality

Description: codes for the data quality evaluation

dic_size_qualifiers

Description: codes for the qualifiers used to estimate favourable reference values.

dic_threats_and_pressures

Description: codes for threats and pressures

dic_trends

Description: codes for trends