

EUNIS habitat type B1.7, predicted distribution of habitat suitability - version 1, Jan. 2015

The modelled suitability for the EUNIS habitat type is an indication of where conditions are favourable for the habitat type based on sample plot data (Braun-Blanquet database) and the Maxent software package. The modelled suitability map may be used as a proxy for the geographical distribution of the habitat type. Note however that it is not representing the actual distribution of the habitat type.

Simple

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Point of contact	Organisation name	Individual name	Electronic mail address Role
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	European Environment Agency		info@eea.eur info@eea.europa.eu Custodian

Point of contact

No information provided.

Maintenance and update frequency	Unknown
EEA topics	<ul style="list-style-type: none"> Biodiversity
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Habitats and biotopes
GEMET	<ul style="list-style-type: none"> forest natural area terrestrial ecosystem coastal environment forest biodiversity
Keywords	
Keywords	

Place	<ul style="list-style-type: none">• Europe
Use limitation	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Grid
Distance	1 km
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none">• Biota

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Begin date	1940-01-01
End date	2011-12-31
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • AAIGrid ()

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>The database compiled for the Braun-Blanquet project is a compilation of various national and regional vegetation databases. The maintenance of these databases is in principle in the hands of the custodians. However, before uploading the databases into Braun-Blanquet database a quality check is performed by Alterra and Masaryk University. If possible, detected errors are corrected and reported back to the data provider. For the modelling of the habitat suitability map the Maxent software is used (http://www.cs.princeton.edu/~schapire/maxent/). The grid values in the map represent the probability (ranging from 0-1) that the cell is suitable for the habitat.</p> <p>The grid file represents the habitat suitability of the EUNIS type. For the modelling the widely used software Maxent for maximum entropy modelling of species' geographic distributions was used. Maxent is a general-purpose machine-learning method with a simple and precise mathematical formulation, and has a number of aspects that make it well-suited for species distribution modelling when only presence (occurrence) data but not absence data are available (Philips et al. 2006). Because EUNIS habitats have a particular species composition, they are assumed to respond to specific ecological requirements, allowing us to generate correlative estimates of geographic distributions. Modelling habitats that have been floristically defined is a well-known procedure for ecological modelling at local scales, and a promising technique to be applied also at the continental level.</p> <p>The Maxent method considers presence data (known observations of a given entity) and the so-called background data. Background data comprise a set of points used to describe the environmental variation of the study area according to the available environmental layers. It is assumed that these layers represent well the most important ecological gradients on a European scale. As layers the following environmental parameters have been used: Potential Evapotranspiration, Topsoil pH, Solar radiation, Temperature Seasonality (standard deviation *100), Mean Temperature of Wettest Quarter, Annual Precipitation, Precipitation Seasonality (Coefficient of Variation), Precipitation of Warmest Quarter & Distance to water (rivers, lakes, sea).</p> <p>Statistical output of the model:</p> <p>#Training samples: 128</p> <p>Regularized training gain: 3.0309</p> <p>Unregularized training gain: 3.4058</p> <p>Iterations: 500</p>
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Training AUC: 0.987

#Test samples: 14

Test gain: 3.5723

Test AUC: 0.9904

AUC Standard Deviation: 0.0028

#Background points: 10128

bio_12_ets2_ras contribution: 1.018

bio_15_ets2_ras contribution: 8.5057

bio_18_ets2_ras contribution: 1.2786

bio_4_ets2_ras contribution: 39.5222

bio_8_ets2_ras contribution: 15.8472

dist2water1km contribution: 0.947

pet_he_yr contribution: 0.9996

soil_ph contribution: 0.3234

solar_1km contribution: 31.5583

bio_12_ets2_ras permutation importance: 1.1557

bio_15_ets2_ras permutation importance: 4.112

bio_18_ets2_ras permutation importance: 1.6354

bio_4_ets2_ras permutation importance: 68.7488

bio_8_ets2_ras permutation importance: 5.0543

dist2water1km permutation importance: 0.3743

pet_he_yr permutation importance: 0.7581

soil_ph permutation importance: 0.1484

solar_1km permutation importance: 18.0129

Entropy: 6.2021

Prevalence (average of logistic output over background sites): 0.0223

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0036

Fixed cumulative value 1 area: 0.2741

Fixed cumulative value 1 training omission: 0

Fixed cumulative value 1 test omission: 0

Fixed cumulative value 1 binomial probability: 1.35E-08

Fixed cumulative value 5 cumulative threshold: 5

Fixed cumulative value 5 logistic threshold: 0.031

Fixed cumulative value 5 area: 0.1037

Fixed cumulative value 5 training omission: 0.0078

Fixed cumulative value 5 test omission: 0

Fixed cumulative value 5 binomial probability: 1.66E-14

Fixed cumulative value 10 cumulative threshold: 10

Fixed cumulative value 10 logistic threshold: 0.0831

Fixed cumulative value 10 area: 0.0581

Fixed cumulative value 10 training omission: 0.0469

Fixed cumulative value 10 test omission: 0

Fixed cumulative value 10 binomial probability: 4.94E-18

Minimum training presence cumulative threshold: 4.3626

Minimum training presence logistic threshold: 0.0265

Minimum training presence area: 0.1142

Minimum training presence training omission: 0

Minimum training presence test omission: 0

Minimum training presence binomial probability: 6.45E-14

10 percentile training presence cumulative threshold: 15.4845

10 percentile training presence logistic threshold: 0.1588

10 percentile training presence area: 0.0374

10 percentile training presence training omission: 0.0938

10 percentile training presence test omission: 0.0714

10 percentile training presence binomial probability: 3.81E-18

Equal training sensitivity and specificity cumulative threshold: 12.0954

Equal training sensitivity and specificity logistic threshold: 0.1082

Equal training sensitivity and specificity area: 0.0483

Equal training sensitivity and specificity training omission: 0.0469

Equal training sensitivity and specificity test omission: 0

Equal training sensitivity and specificity binomial probability: 3.74E-19

Maximum training sensitivity plus specificity cumulative threshold: 12.0954

Maximum training sensitivity plus specificity logistic threshold: 0.1082

Maximum training sensitivity plus specificity area: 0.0483

Maximum training sensitivity plus specificity training omission: 0.0469

Maximum training sensitivity plus specificity test omission: 0

Maximum training sensitivity plus specificity binomial probability: 3.74E-19

Equal test sensitivity and specificity cumulative threshold: 15.2977

Equal test sensitivity and specificity logistic threshold: 0.1539

Equal test sensitivity and specificity area: 0.0379

Equal test sensitivity and specificity training omission: 0.0859

Equal test sensitivity and specificity test omission: 0.0714

Equal test sensitivity and specificity binomial probability: 4.52E-18

Maximum test sensitivity plus specificity cumulative threshold: 15.2927

Maximum test sensitivity plus specificity logistic threshold: 0.1537

Maximum test sensitivity plus specificity area: 0.0379

Maximum test sensitivity plus specificity training omission: 0.0859

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 1.27E-20

Balance training omission, predicted area and threshold value cumulative threshold: 3.4843

Balance training omission, predicted area and threshold value logistic threshold: 0.0191

Balance training omission, predicted area and threshold value area: 0.1328

Balance training omission, predicted area and threshold value training omission: 0

Balance training omission, predicted area and threshold value test omission: 0

Balance training omission, predicted area and threshold value binomial probability: 5.31E-13

Equate entropy of thresholded and original distributions cumulative threshold: 12.022

Equate entropy of thresholded and original distributions logistic threshold: 0.1074

Equate entropy of thresholded and original distributions area: 0.0487

Equate entropy of thresholded and original distributions training omission: 0.0469

Equate entropy of thresholded and original distributions test omission: 0

Equate entropy of thresholded and original distributions binomial probability: 4.19E-19

Source

- [EUNIS habitat type B1.7 distribution based on vegetation plot data - version 1, Jan. 2015](#)

Metadata

File identifier	ac3b92e7-94e5-4016-897c-818c8be0abf6 XML		
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Overviews



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