

EUNIS habitat type F6.2, predicted habitat suitability - version 1, June 2016

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.

Also note that predictions are less reliable due to data deficiency in the eastern part of Europe, and to a lesser extent to the Scandinavian countries.

Geographic restriction for plot observations: n/a

Remarks: Prediction in the Iberian Peninsula should be ignored.

Prediction in eastern part of Europe (Türkiye) uncertain due to lack of data for that area.

Simple

Date (Publication)	2016-07-01																	
Date (Creation)	2016-07-06																	
Edition	01																	
Citation identifier	eea_r_3035_1_km_eunis-hab-f6-2_p_1940-2011_v01_r00																	
Status	Obsolete																	
Point of contact	<table border="1"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>http://www.eea.europa.eu</td> <td>Point of contact</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td></td> <td>Custodian</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website	Role	European Environment Agency		sdi@eea.europa.eu	http://www.eea.europa.eu	Point of contact	European Environment Agency		sdi@eea.europa.eu		Custodian		
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Point of contact

No information provided.

Maintenance and update frequency	Unknown
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Habitats and biotopes
GEMET	<ul style="list-style-type: none"> natural area tundra terrestrial ecosystem heathland
Keywords	
Keywords	
Place	<ul style="list-style-type: none"> Europe
EEA topics	<ul style="list-style-type: none"> Biodiversity
Use limitation	

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Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Grid
Distance	1 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		
Coordinate reference system identifier	EPSG:3035		
Distribution format	• GeoTIFF ()		
OnLine resource	Protocol	Linkage	Name
	EEA:FILEPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_eunis-hab-f6-2_p_1940-2011_v01_r00/F6-2_ed1.tif	
	WWW:URL	https://sdi.eea.europa.eu/data/7ce9e3b5-478a-4c09-bda1-72f58ab9717c	Direct download
Hierarchy level	Dataset		

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 (Phillips 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: 51</p> <p>Regularized training gain: 3.5216</p>
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Unregularized training gain: 3.7985
Iterations: 500
Training AUC: 0.9923
#Test samples: 5
Test gain: 3.6835
Test AUC: 0.9916
AUC Standard Deviation: 0.0022
#Background points: 5051
bio_12_etr2_ras contribution: 39.9468
bio_15_etr2_ras contribution: 37.2821
bio_18_etr2_ras contribution: 2.5152
bio_4_etr2_ras contribution: 3.8421
bio_8_etr2_ras contribution: 0.0112
bld_m_sd1_1km_eu_ll contribution: 0
cecum_m_sd1_1km_eu_ll contribution: 0.0256
clyppt_m_sd1_1km_eu_ll contribution: 1.8396
crvol_m_sd1_1km_eu_ll contribution: 0.0504
dist2water1km contribution: 0.4519
orcdrc_m_sd1_1km_eu_ll contribution: 1.1781
pet_he_yr contribution: 0.633
phihox_m_sd1_1km_eu_ll contribution: 11.4396
sltppt_m_sd1_1km_eu_ll contribution: 0.0137
sndppt_m_sd1_1km_eu_ll contribution: 0.7661
solar_1km contribution: 0.0046
bio_12_etr2_ras permutation importance: 13.9163
bio_15_etr2_ras permutation importance: 34.4248
bio_18_etr2_ras permutation importance: 4.4589
bio_4_etr2_ras permutation importance: 41.2525
bio_8_etr2_ras permutation importance: 0.2427
bld_m_sd1_1km_eu_ll permutation importance: 0
cecum_m_sd1_1km_eu_ll permutation importance: 0.3296
clyppt_m_sd1_1km_eu_ll permutation importance: 0.2608
crvol_m_sd1_1km_eu_ll permutation importance: 0.0507
dist2water1km permutation importance: 0.2825
orcdrc_m_sd1_1km_eu_ll permutation importance: 0.5216
pet_he_yr permutation importance: 0.0326
phihox_m_sd1_1km_eu_ll permutation importance: 3.2744
sltppt_m_sd1_1km_eu_ll permutation importance: 0
sndppt_m_sd1_1km_eu_ll permutation importance: 0.8947
solar_1km permutation importance: 0.058
Entropy: 5.0038
Prevalence (average of logistic output over background sites): 0.0137
Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0039
Fixed cumulative value 1 area: 0.1192
Fixed cumulative value 1 training omission: 0
Fixed cumulative value 1 test omission: 0
Fixed cumulative value 1 binomial probability: 2.40E-05
Fixed cumulative value 5 cumulative threshold: 5
Fixed cumulative value 5 logistic threshold: 0.0506
Fixed cumulative value 5 area: 0.0453
Fixed cumulative value 5 training omission: 0
Fixed cumulative value 5 test omission: 0
Fixed cumulative value 5 binomial probability: 1.92E-07
Fixed cumulative value 10 cumulative threshold: 10
Fixed cumulative value 10 logistic threshold: 0.1175
Fixed cumulative value 10 area: 0.0279
Fixed cumulative value 10 training omission: 0.0196
Fixed cumulative value 10 test omission: 0
Fixed cumulative value 10 binomial probability: 1.69E-08
Minimum training presence cumulative threshold: 6.2126
Minimum training presence logistic threshold: 0.0662
Minimum training presence area: 0.0396
Minimum training presence training omission: 0
Minimum training presence test omission: 0
Minimum training presence binomial probability: 9.73E-08
10 percentile training presence cumulative threshold: 20.592
10 percentile training presence logistic threshold: 0.329
10 percentile training presence area: 0.015
10 percentile training presence training omission: 0.098
10 percentile training presence test omission: 0
10 percentile training presence binomial probability: 7.71E-10
Equal training sensitivity and specificity cumulative threshold: 11.3536
Equal training sensitivity and specificity logistic threshold: 0.1416
Equal training sensitivity and specificity area: 0.0253
Equal training sensitivity and specificity training omission: 0.0196
Equal training sensitivity and specificity test omission: 0
Equal training sensitivity and specificity binomial probability: 1.04E-08
Maximum training sensitivity plus specificity cumulative threshold: 6.2126
Maximum training sensitivity plus specificity logistic threshold: 0.0662
Maximum training sensitivity plus specificity area: 0.0396
Maximum training sensitivity plus specificity training omission: 0
Maximum training sensitivity plus specificity test omission: 0
Maximum training sensitivity plus specificity binomial probability: 9.73E-08
Equal test sensitivity and specificity cumulative threshold: 21.759

Equal test sensitivity and specificity logistic threshold: 0.3421

Equal test sensitivity and specificity area: 0.0143

Equal test sensitivity and specificity training omission: 0.1176

Equal test sensitivity and specificity test omission: 0

Equal test sensitivity and specificity binomial probability: 5.88E-10

Maximum test sensitivity plus specificity cumulative threshold: 21.759

Maximum test sensitivity plus specificity logistic threshold: 0.3421

Maximum test sensitivity plus specificity area: 0.0143

Maximum test sensitivity plus specificity training omission: 0.1176

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 5.88E-10

Balance training omission, predicted area and threshold value cumulative threshold: 1.9411

Balance training omission, predicted area and threshold value logistic threshold: 0.0115

Balance training omission, predicted area and threshold value area: 0.0772

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: 2.74E-06

Equate entropy of thresholded and original distributions cumulative threshold: 9.4317

Equate entropy of thresholded and original distributions logistic threshold: 0.112

Equate entropy of thresholded and original distributions area: 0.0293

Equate entropy of thresholded and original distributions training omission: 0.0196

Equate entropy of thresholded and original distributions test omission: 0

Equate entropy of thresholded and original distributions binomial probability: 2.16E-08

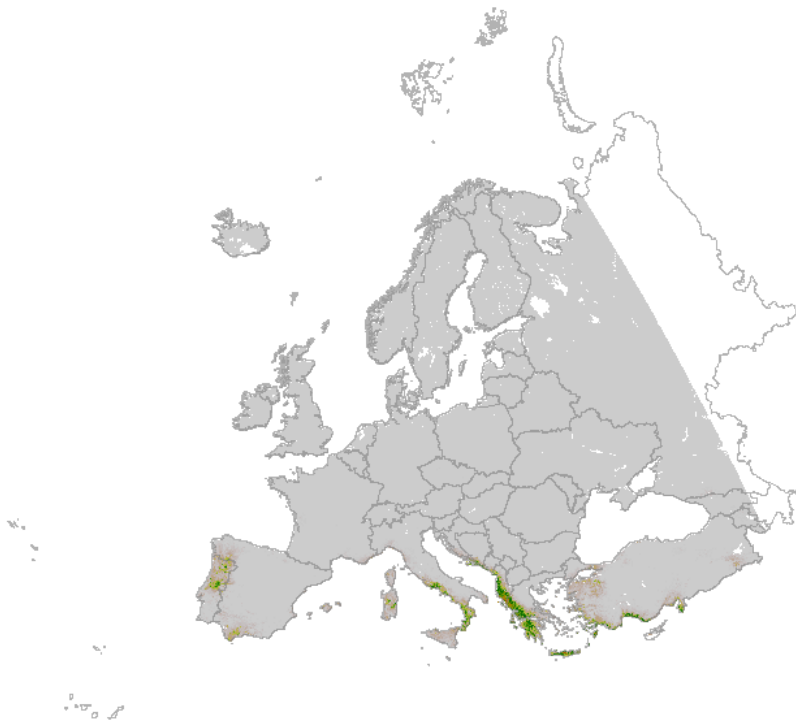
Source

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Metadata

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Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2022-01-31T13:45:18.679Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address Website Role
	European Environment Agency		sdi@eea.europa.eu Point of contact

Overviews



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