

EUNIS habitat type F6.6, 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: -

Simple

Date (Publication)	2016-07-01			
Date (Creation)	2016-07-06			
Edition	01			
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Status	Obsolete			
Point of contact	Organisation name	Individual name	Electronic mail address	Website Role
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	European Environment Agency		sdi@eea.europa.eu	Custodian

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	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 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-f6-6_p_1940-2011_v01_r00/F6-6_ed1.tif	
	WWW:URL	https://sdi.eea.europa.eu/data/abcf7088-9c1b-4fca-89a3-2ebe05bbf3b2	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: 162</p> <p>Regularized training gain: 2.8667</p>
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Unregularized training gain: 3.0438

Iterations: 500

Training AUC: 0.982

#Test samples: 18

Test gain: 3.048

Test AUC: 0.9828

AUC Standard Deviation: 0.004

#Background points: 5162

bio_12_etr2_ras contribution: 8.7275

bio_15_etr2_ras contribution: 4.2175

bio_18_etr2_ras contribution: 2.4728

bio_4_etr2_ras contribution: 35.5355

bio_8_etr2_ras contribution: 2.6417

bld_m_sd1_1km_eu_ll contribution: 5.5881

cecum_m_sd1_1km_eu_ll contribution: 2.1144

clyppt_m_sd1_1km_eu_ll contribution: 0.0665

crvol_m_sd1_1km_eu_ll contribution: 22.2539

dist2water1km contribution: 0.0067

orcdrc_m_sd1_1km_eu_ll contribution: 0.2616

pet_he_yr contribution: 3.5513

phi_hox_m_sd1_1km_eu_ll contribution: 3.9178

sltppt_m_sd1_1km_eu_ll contribution: 1.0109

sndppt_m_sd1_1km_eu_ll contribution: 0.0835

solar_1km contribution: 7.5503

bio_12_etr2_ras permutation importance: 2.2173

bio_15_etr2_ras permutation importance: 13.3874

bio_18_etr2_ras permutation importance: 5.4726

bio_4_etr2_ras permutation importance: 15.5297

bio_8_etr2_ras permutation importance: 0.7

bld_m_sd1_1km_eu_ll permutation importance: 0.0354

cecum_m_sd1_1km_eu_ll permutation importance: 2.5044

clyppt_m_sd1_1km_eu_ll permutation importance: 0.2545

crvol_m_sd1_1km_eu_ll permutation importance: 30.1078

dist2water1km permutation importance: 0.1881

orcdrc_m_sd1_1km_eu_ll permutation importance: 0.8852

pet_he_yr permutation importance: 16.9184

phi_hox_m_sd1_1km_eu_ll permutation importance: 5.1318

sltppt_m_sd1_1km_eu_ll permutation importance: 6.2122

sndppt_m_sd1_1km_eu_ll permutation importance: 0.1499

solar_1km permutation importance: 0.3054

Entropy: 5.6873

Prevalence (average of logistic output over background sites): 0.0269

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0086
Fixed cumulative value 1 area: 0.1548
Fixed cumulative value 1 training omission: 0
Fixed cumulative value 1 test omission: 0
Fixed cumulative value 1 binomial probability: 2.60E-15
Fixed cumulative value 5 cumulative threshold: 5
Fixed cumulative value 5 logistic threshold: 0.0677
Fixed cumulative value 5 area: 0.0633
Fixed cumulative value 5 training omission: 0.0123
Fixed cumulative value 5 test omission: 0.0556
Fixed cumulative value 5 binomial probability: 7.21E-20
Fixed cumulative value 10 cumulative threshold: 10
Fixed cumulative value 10 logistic threshold: 0.2047
Fixed cumulative value 10 area: 0.043
Fixed cumulative value 10 training omission: 0.0432
Fixed cumulative value 10 test omission: 0.1111
Fixed cumulative value 10 binomial probability: 1.93E-20
Minimum training presence cumulative threshold: 4.4174
Minimum training presence logistic threshold: 0.0556
Minimum training presence area: 0.0686
Minimum training presence training omission: 0
Minimum training presence test omission: 0
Minimum training presence binomial probability: 1.13E-21
10 percentile training presence cumulative threshold: 16.9724
10 percentile training presence logistic threshold: 0.369
10 percentile training presence area: 0.0329
10 percentile training presence training omission: 0.0988
10 percentile training presence test omission: 0.1111
10 percentile training presence binomial probability: 2.75E-22
Equal training sensitivity and specificity cumulative threshold: 9.937
Equal training sensitivity and specificity logistic threshold: 0.1992
Equal training sensitivity and specificity area: 0.0432
Equal training sensitivity and specificity training omission: 0.0432
Equal training sensitivity and specificity test omission: 0.1111
Equal training sensitivity and specificity binomial probability: 2.07E-20
Maximum training sensitivity plus specificity cumulative threshold: 4.4174
Maximum training sensitivity plus specificity logistic threshold: 0.0556
Maximum training sensitivity plus specificity area: 0.0686
Maximum training sensitivity plus specificity training omission: 0
Maximum training sensitivity plus specificity test omission: 0
Maximum training sensitivity plus specificity binomial probability: 1.13E-21
Equal test sensitivity and specificity cumulative threshold: 6.2586

Equal test sensitivity and specificity logistic threshold: 0.0975

Equal test sensitivity and specificity area: 0.0556

Equal test sensitivity and specificity training omission: 0.0309

Equal test sensitivity and specificity test omission: 0.0556

Equal test sensitivity and specificity binomial probability: 7.91E-21

Maximum test sensitivity plus specificity cumulative threshold: 4.9631

Maximum test sensitivity plus specificity logistic threshold: 0.0671

Maximum test sensitivity plus specificity area: 0.0637

Maximum test sensitivity plus specificity training omission: 0.0123

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 3.01E-22

Balance training omission, predicted area and threshold value cumulative threshold: 2.2794

Balance training omission, predicted area and threshold value logistic threshold: 0.0223

Balance training omission, predicted area and threshold value area: 0.104

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: 2.04E-18

Equate entropy of thresholded and original distributions cumulative threshold: 5.9729

Equate entropy of thresholded and original distributions logistic threshold: 0.0925

Equate entropy of thresholded and original distributions area: 0.0571

Equate entropy of thresholded and original distributions training omission: 0.0247

Equate entropy of thresholded and original distributions test omission: 0.0556

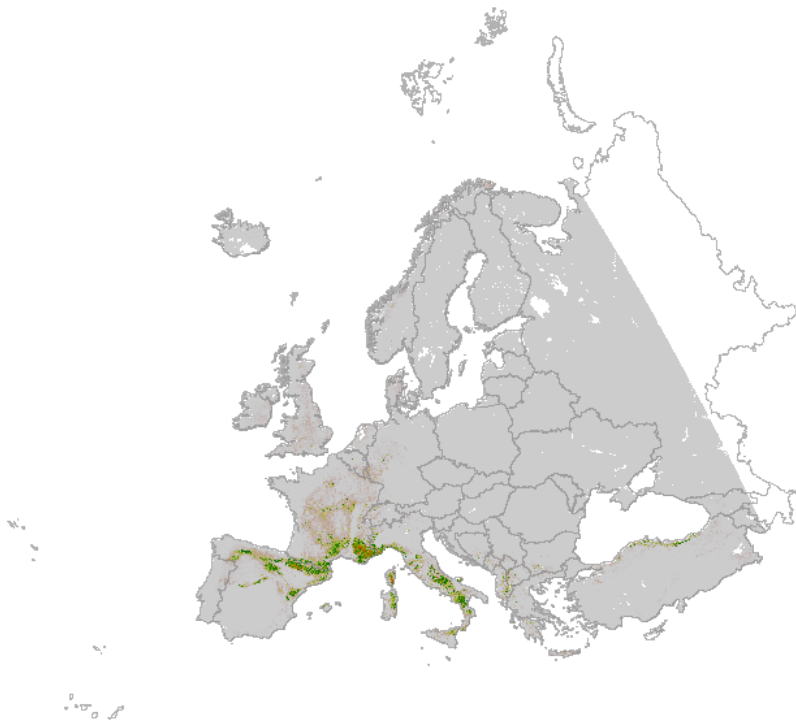
Equate entropy of thresholded and original distributions binomial probability: 1.26E-20

Source	•
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Metadata

File identifier	abcf7088-9c1b-4fca-89a3-2ebe05bbf3b2 XML								
Metadata language	English								
Character set	UTF8								
Hierarchy level	Dataset								
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Metadata standard name	ISO 19115/19139								
Metadata standard version	1.0								
Metadata author	<table border="0"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>Point of contact</td> </tr> </tbody> </table>	Organisation name	Individual name	Electronic mail address	Website Role	European Environment Agency		sdi@eea.europa.eu	Point of contact
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Overviews



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