

## EUNIS habitat type F7.4b, 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: Poor prediction, should be restricted to Southern Europe.

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

### Simple

<b>Date (Publication)</b>	2016-07-01																	
<b>Date (Creation)</b>	2016-07-06																	
<b>Edition</b>	01																	
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<b>Point of contact</b>	<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><a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a></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	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Point of contact	European Environment Agency		sdi@eea.europa.eu		Custodian		
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### Point of contact

No information provided.

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

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<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Spatial representation type</b>	Grid
<b>Distance</b>	1 1 km
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"><li>• Biota</li></ul>

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<b>Begin date</b>	1940-01-01		
<b>End date</b>	2011-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	• GeoTIFF ( )		
<b>OnLine resource</b>	<b>Protocol</b>	<b>Linkage</b>	<b>Name</b>
	EEA:FILEPATH	<a href="https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_eunis-hab-f7-4b_p_1940-2011_v01_r00/F7-4b_ed1.tif">https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_eunis-hab-f7-4b_p_1940-2011_v01_r00/F7-4b_ed1.tif</a>	
	WWW:URL	<a href="https://sdi.eea.europa.eu/data/31493496-55b4-42f4-9380-0df684fc5a15">https://sdi.eea.europa.eu/data/31493496-55b4-42f4-9380-0df684fc5a15</a>	Direct download
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	<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 ( <a href="http://www.cs.princeton.edu/~schapire/maxent/">http://www.cs.princeton.edu/~schapire/maxent/</a> ). 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 &amp; Distance to water (rivers, lakes, sea).</p> <p>Statistical output of the model:</p> <p>#Training samples: 18</p> <p>Regularized training gain: 3.5645</p>
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Unregularized training gain: 4.4924

Iterations: 500

Training AUC: 0.9961

#Test samples: 2

Test gain: 5.6265

Test AUC: 0.9995

AUC Standard Deviation: 0.0003

#Background points: 5018

bio\_12\_etr2\_ras contribution: 1.9425

bio\_15\_etr2\_ras contribution: 0.6398

bio\_18\_etr2\_ras contribution: 11.3689

bio\_4\_etr2\_ras contribution: 13.3294

bio\_8\_etr2\_ras contribution: 0.5679

bld\_m\_sd1\_1km\_eu\_ll contribution: 0

cecsum\_m\_sd1\_1km\_eu\_ll contribution: 2.2802

clyppt\_m\_sd1\_1km\_eu\_ll contribution: 10.3818

crvol\_m\_sd1\_1km\_eu\_ll contribution: 19.27

dist2water1km contribution: 31.3163

orcdrc\_m\_sd1\_1km\_eu\_ll contribution: 2.2177

pet\_he\_yr contribution: 5.9573

phihox\_m\_sd1\_1km\_eu\_ll contribution: 0.2598

sltppt\_m\_sd1\_1km\_eu\_ll contribution: 0.2645

sndppt\_m\_sd1\_1km\_eu\_ll contribution: 0

solar\_1km contribution: 0.204

bio\_12\_etr2\_ras permutation importance: 1.9071

bio\_15\_etr2\_ras permutation importance: 0.0409

bio\_18\_etr2\_ras permutation importance: 34.9612

bio\_4\_etr2\_ras permutation importance: 8.4866

bio\_8\_etr2\_ras permutation importance: 1.3622

bld\_m\_sd1\_1km\_eu\_ll permutation importance: 0

cecsum\_m\_sd1\_1km\_eu\_ll permutation importance: 0.0477

clyppt\_m\_sd1\_1km\_eu\_ll permutation importance: 33.7216

crvol\_m\_sd1\_1km\_eu\_ll permutation importance: 1.8799

dist2water1km permutation importance: 0.7084

orcdrc\_m\_sd1\_1km\_eu\_ll permutation importance: 0

pet\_he\_yr permutation importance: 16.7348

phihox\_m\_sd1\_1km\_eu\_ll permutation importance: 0.0613

sltppt\_m\_sd1\_1km\_eu\_ll permutation importance: 0.0477

sndppt\_m\_sd1\_1km\_eu\_ll permutation importance: 0

solar\_1km permutation importance: 0.0409

Entropy: 4.9681

Prevalence (average of logistic output over background sites): 0.013

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0023  
Fixed cumulative value 1 area: 0.3025  
Fixed cumulative value 1 training omission: 0  
Fixed cumulative value 1 test omission: 0  
Fixed cumulative value 1 binomial probability: 9.15E-02  
Fixed cumulative value 5 cumulative threshold: 5  
Fixed cumulative value 5 logistic threshold: 0.015  
Fixed cumulative value 5 area: 0.1226  
Fixed cumulative value 5 training omission: 0  
Fixed cumulative value 5 test omission: 0  
Fixed cumulative value 5 binomial probability: 1.50E-02  
Fixed cumulative value 10 cumulative threshold: 10  
Fixed cumulative value 10 logistic threshold: 0.0364  
Fixed cumulative value 10 area: 0.0626  
Fixed cumulative value 10 training omission: 0  
Fixed cumulative value 10 test omission: 0  
Fixed cumulative value 10 binomial probability: 3.92E-03  
Minimum training presence cumulative threshold: 16.9189  
Minimum training presence logistic threshold: 0.0948  
Minimum training presence area: 0.0295  
Minimum training presence training omission: 0  
Minimum training presence test omission: 0  
Minimum training presence binomial probability: 8.70E-04  
10 percentile training presence cumulative threshold: 30.1029  
10 percentile training presence logistic threshold: 0.275  
10 percentile training presence area: 0.0096  
10 percentile training presence training omission: 0.0556  
10 percentile training presence test omission: 0  
10 percentile training presence binomial probability: 9.15E-05  
Equal training sensitivity and specificity cumulative threshold: 16.9918  
Equal training sensitivity and specificity logistic threshold: 0.0948  
Equal training sensitivity and specificity area: 0.0295  
Equal training sensitivity and specificity training omission: 0.0556  
Equal training sensitivity and specificity test omission: 0  
Equal training sensitivity and specificity binomial probability: 8.70E-04  
Maximum training sensitivity plus specificity cumulative threshold: 16.9189  
Maximum training sensitivity plus specificity logistic threshold: 0.0948  
Maximum training sensitivity plus specificity area: 0.0295  
Maximum training sensitivity plus specificity training omission: 0  
Maximum training sensitivity plus specificity test omission: 0  
Maximum training sensitivity plus specificity binomial probability: 8.70E-04  
Equal test sensitivity and specificity cumulative threshold: 80.3144

Equal test sensitivity and specificity logistic threshold: 0.8727

Equal test sensitivity and specificity area: 0.0008

Equal test sensitivity and specificity training omission: 0.7778

Equal test sensitivity and specificity test omission: 0

Equal test sensitivity and specificity binomial probability: 6.35E-07

Maximum test sensitivity plus specificity cumulative threshold: 80.3144

Maximum test sensitivity plus specificity logistic threshold: 0.8727

Maximum test sensitivity plus specificity area: 0.0008

Maximum test sensitivity plus specificity training omission: 0.7778

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 6.35E-07

Balance training omission, predicted area and threshold value cumulative threshold: 4.0242

Balance training omission, predicted area and threshold value logistic threshold: 0.0113

Balance training omission, predicted area and threshold value area: 0.1437

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: 2.06E-02

Equate entropy of thresholded and original distributions cumulative threshold: 17.3633

Equate entropy of thresholded and original distributions logistic threshold: 0.0972

Equate entropy of thresholded and original distributions area: 0.0285

Equate entropy of thresholded and original distributions training omission: 0.0556

Equate entropy of thresholded and original distributions test omission: 0

Equate entropy of thresholded and original distributions binomial probability: 8.12E-04

<b>Source</b>	•
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## Metadata

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<b>Character set</b>	UTF8		
<b>Hierarchy level</b>	Dataset		
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<b>Metadata standard name</b>	ISO 19115/19139		
<b>Metadata standard version</b>	1.0		
<b>Metadata author</b>	<b>Organisation name</b>	<b>Individual name</b>	<b>Electronic mail address</b> <b>Website Role</b>
	European Environment Agency		sdi@eea.europa.eu <b>Point of contact</b>

## Overviews



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