

## EUNIS habitat type F6.7, 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

<b>Date (Publication)</b>	2016-07-01			
<b>Date (Creation)</b>	2016-07-06			
<b>Edition</b>	01			
<b>Citation identifier</b>	eea_r_3035_1_km_eunis-hab-f6-7_p_1940-2011_v01_r00			
<b>Status</b>	Obsolete			
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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>
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<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>	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 ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).

<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		
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<b>Distribution format</b>	• GeoTIFF ( )		
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	WWW:URL	<a href="https://sdi.eea.europa.eu/data/d85846cf-bd5b-4c9e-bd28-14ee1b2304fd">https://sdi.eea.europa.eu/data/d85846cf-bd5b-4c9e-bd28-14ee1b2304fd</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: 24</p> <p>Regularized training gain: 3.9274</p>
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Unregularized training gain: 4.4227

Iterations: 500

Training AUC: 0.9961

#Test samples: 2

Test gain: 4.3971

Test AUC: 0.9968

AUC Standard Deviation: 0.0006

#Background points: 5018

bio\_12\_etr2\_ras contribution: 3.5452

bio\_15\_etr2\_ras contribution: 1.9717

bio\_18\_etr2\_ras contribution: 0.0221

bio\_4\_etr2\_ras contribution: 1.3211

bio\_8\_etr2\_ras contribution: 0

bld\_m\_sd1\_1km\_eu\_ll contribution: 17.2713

cecum\_m\_sd1\_1km\_eu\_ll contribution: 0.3305

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

crvol\_m\_sd1\_1km\_eu\_ll contribution: 0.3214

dist2water1km contribution: 2.2883

orcdrc\_m\_sd1\_1km\_eu\_ll contribution: 36.0461

pet\_he\_yr contribution: 15.4644

sltppt\_m\_sd1\_1km\_eu\_ll contribution: 21.1382

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

solar\_1km contribution: 0.2797

bio\_12\_etr2\_ras permutation importance: 2.0027

bio\_15\_etr2\_ras permutation importance: 1.063

bio\_18\_etr2\_ras permutation importance: 0.7619

bio\_4\_etr2\_ras permutation importance: 2.3401

bio\_8\_etr2\_ras permutation importance: 0

bld\_m\_sd1\_1km\_eu\_ll permutation importance: 74.3025

cecum\_m\_sd1\_1km\_eu\_ll permutation importance: 1.4095

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

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

dist2water1km permutation importance: 0.3701

orcdrc\_m\_sd1\_1km\_eu\_ll permutation importance: 0.0834

pet\_he\_yr permutation importance: 2.9569

sltppt\_m\_sd1\_1km\_eu\_ll permutation importance: 13.2297

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

solar\_1km permutation importance: 1.4802

Training gain without bio\_12\_etr2\_ras: 3.8924

Training gain without bio\_15\_etr2\_ras: 3.8655

Training gain without bio\_18\_etr2\_ras: 3.9261

Training gain without bio\_4\_etr2\_ras: 3.8786

Training gain without bio\_8\_etr2\_ras: 3.9231

Training gain without bld\_m\_sd1\_1km\_eu\_ll: 3.7399

Training gain without cecsum\_m\_sd1\_1km\_eu\_ll: 3.9095

Training gain without clyppt\_m\_sd1\_1km\_eu\_ll: 3.9211

Training gain without crvol\_m\_sd1\_1km\_eu\_ll: 3.9231

Training gain without dist2water1km: 3.8775

Training gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 3.9247

Training gain without pet\_he\_yr: 3.89

Training gain without sltppt\_m\_sd1\_1km\_eu\_ll: 3.7867

Training gain without sndppt\_m\_sd1\_1km\_eu\_ll: 3.9221

Training gain without solar\_1km: 3.9035

Training gain with only bio\_12\_etr2\_ras: 1.3562

Training gain with only bio\_15\_etr2\_ras: 0.3848

Training gain with only bio\_18\_etr2\_ras: 1.3901

Training gain with only bio\_4\_etr2\_ras: 0.6484

Training gain with only bio\_8\_etr2\_ras: 0.2176

Training gain with only bld\_m\_sd1\_1km\_eu\_ll: 2.457

Training gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.8482

Training gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.7163

Training gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.6358

Training gain with only dist2water1km: 0.0506

Training gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 2.0218

Training gain with only pet\_he\_yr: 2.1376

Training gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 1.1601

Training gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 1.1125

Training gain with only solar\_1km: 0.2369

Test gain without bio\_12\_etr2\_ras: 4.4276

Test gain without bio\_15\_etr2\_ras: 4.2745

Test gain without bio\_18\_etr2\_ras: 4.3974

Test gain without bio\_4\_etr2\_ras: 4.3466

Test gain without bio\_8\_etr2\_ras: 4.3722

Test gain without bld\_m\_sd1\_1km\_eu\_ll: 4.1797

Test gain without cecsum\_m\_sd1\_1km\_eu\_ll: 4.3802

Test gain without clyppt\_m\_sd1\_1km\_eu\_ll: 4.4035

Test gain without crvol\_m\_sd1\_1km\_eu\_ll: 4.3838

Test gain without dist2water1km: 4.3739

Test gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 4.3681

Test gain without pet\_he\_yr: 4.257

Test gain without sltppt\_m\_sd1\_1km\_eu\_ll: 4.3537

Test gain without sndppt\_m\_sd1\_1km\_eu\_ll: 4.4064

Test gain without solar\_1km: 4.1663

Test gain with only bio\_12\_etr2\_ras: 0.7313

Test gain with only bio\_15\_etr2\_ras: 0.8871

Test gain with only bio\_18\_etr2\_ras: 1.9519  
Test gain with only bio\_4\_etr2\_ras: 1.3971  
Test gain with only bio\_8\_etr2\_ras: 0.4746  
Test gain with only bld\_m\_sd1\_1km\_eu\_ll: 2.9343  
Test gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.8253  
Test gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.7779  
Test gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.8564  
Test gain with only dist2water1km: 0.0174  
Test gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 1.5202  
Test gain with only pet\_he\_yr: 2.9046  
Test gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 1.219  
Test gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 1.0581  
Test gain with only solar\_1km: 0.78  
AUC without bio\_12\_etr2\_ras: 0.997  
AUC without bio\_15\_etr2\_ras: 0.996  
AUC without bio\_18\_etr2\_ras: 0.9969  
AUC without bio\_4\_etr2\_ras: 0.9961  
AUC without bio\_8\_etr2\_ras: 0.9968  
AUC without bld\_m\_sd1\_1km\_eu\_ll: 0.9955  
AUC without cecsum\_m\_sd1\_1km\_eu\_ll: 0.9962  
AUC without clyppt\_m\_sd1\_1km\_eu\_ll: 0.9968  
AUC without crvol\_m\_sd1\_1km\_eu\_ll: 0.9966  
AUC without dist2water1km: 0.9969  
AUC without orcdrc\_m\_sd1\_1km\_eu\_ll: 0.9967  
AUC without pet\_he\_yr: 0.996  
AUC without sltppt\_m\_sd1\_1km\_eu\_ll: 0.9968  
AUC without sndppt\_m\_sd1\_1km\_eu\_ll: 0.9968  
AUC without solar\_1km: 0.9958  
AUC with only bio\_12\_etr2\_ras: 0.8585  
AUC with only bio\_15\_etr2\_ras: 0.9605  
AUC with only bio\_18\_etr2\_ras: 0.9442  
AUC with only bio\_4\_etr2\_ras: 0.9575  
AUC with only bio\_8\_etr2\_ras: 0.8629  
AUC with only bld\_m\_sd1\_1km\_eu\_ll: 0.9833  
AUC with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.8353  
AUC with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.8117  
AUC with only crvol\_m\_sd1\_1km\_eu\_ll: 0.8384  
AUC with only dist2water1km: 0.5449  
AUC with only orcdrc\_m\_sd1\_1km\_eu\_ll: 0.9374  
AUC with only pet\_he\_yr: 0.9843  
AUC with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.8967  
AUC with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.8683  
AUC with only solar\_1km: 0.9298

Entropy: 4.5847

Prevalence (average of logistic output over background sites): 0.0091

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0054

Fixed cumulative value 1 area: 0.0793

Fixed cumulative value 1 training omission: 0

Fixed cumulative value 1 test omission: 0

Fixed cumulative value 1 binomial probability: 6.29E-03

Fixed cumulative value 5 cumulative threshold: 5

Fixed cumulative value 5 logistic threshold: 0.0448

Fixed cumulative value 5 area: 0.0323

Fixed cumulative value 5 training omission: 0

Fixed cumulative value 5 test omission: 0

Fixed cumulative value 5 binomial probability: 1.04E-03

Fixed cumulative value 10 cumulative threshold: 10

Fixed cumulative value 10 logistic threshold: 0.1038

Fixed cumulative value 10 area: 0.0193

Fixed cumulative value 10 training omission: 0

Fixed cumulative value 10 test omission: 0

Fixed cumulative value 10 binomial probability: 3.74E-04

Minimum training presence cumulative threshold: 16.1171

Minimum training presence logistic threshold: 0.2352

Minimum training presence area: 0.0128

Minimum training presence training omission: 0

Minimum training presence test omission: 0

Minimum training presence binomial probability: 1.63E-04

10 percentile training presence cumulative threshold: 25.4166

10 percentile training presence logistic threshold: 0.3692

10 percentile training presence area: 0.0088

10 percentile training presence training omission: 0.0833

10 percentile training presence test omission: 0

10 percentile training presence binomial probability: 7.69E-05

Equal training sensitivity and specificity cumulative threshold: 16.1171

Equal training sensitivity and specificity logistic threshold: 0.2352

Equal training sensitivity and specificity area: 0.0128

Equal training sensitivity and specificity training omission: 0

Equal training sensitivity and specificity test omission: 0

Equal training sensitivity and specificity binomial probability: 1.63E-04

Maximum training sensitivity plus specificity cumulative threshold: 16.1171

Maximum training sensitivity plus specificity logistic threshold: 0.2352

Maximum training sensitivity plus specificity area: 0.0128

Maximum training sensitivity plus specificity training omission: 0

Maximum training sensitivity plus specificity test omission: 0

Maximum training sensitivity plus specificity binomial probability: 1.63E-04

Equal test sensitivity and specificity cumulative threshold: 52.733

Equal test sensitivity and specificity logistic threshold: 0.5889

Equal test sensitivity and specificity area: 0.0034

Equal test sensitivity and specificity training omission: 0.375

Equal test sensitivity and specificity test omission: 0

Equal test sensitivity and specificity binomial probability: 1.15E-05

Maximum test sensitivity plus specificity cumulative threshold: 52.733

Maximum test sensitivity plus specificity logistic threshold: 0.5889

Maximum test sensitivity plus specificity area: 0.0034

Maximum test sensitivity plus specificity training omission: 0.375

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 1.15E-05

Balance training omission, predicted area and threshold value cumulative threshold: 1.3503

Balance training omission, predicted area and threshold value logistic threshold: 0.0078

Balance training omission, predicted area and threshold value area: 0.0686

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: 4.70E-03

Equate entropy of thresholded and original distributions cumulative threshold: 10.1085

Equate entropy of thresholded and original distributions logistic threshold: 0.1038

Equate entropy of thresholded and original distributions area: 0.0193

Equate entropy of thresholded and original distributions training omission: 0

Equate entropy of thresholded and original distributions test omission: 0

Equate entropy of thresholded and original distributions binomial probability: 3.74E-04

Source

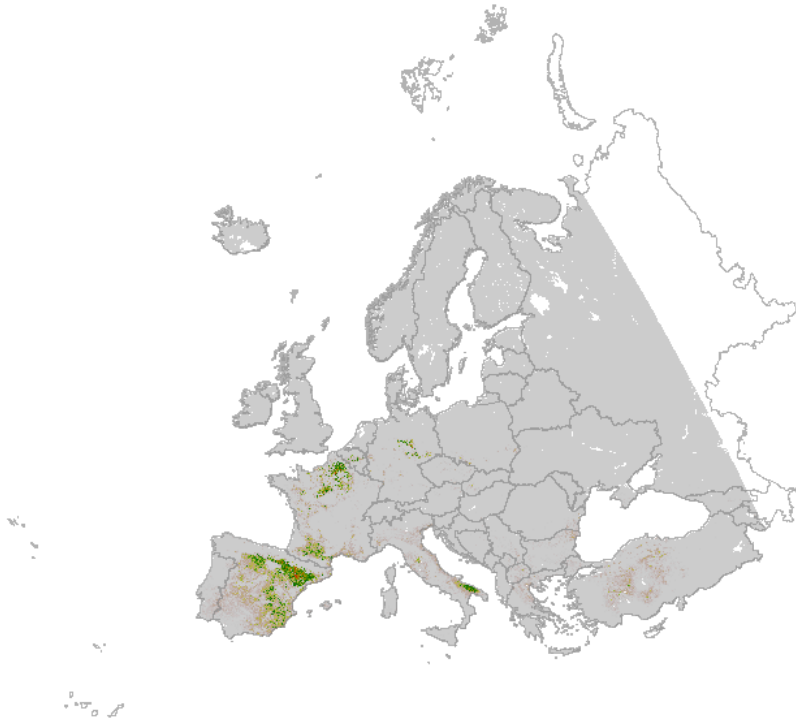
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## Overviews



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