

## EUNIS habitat type F6.1b, 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: Predictions in the east Mediterranean area should be ignored.

### Simple

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No information provided.

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<b>EEA topics</b>	<ul style="list-style-type: none"> <li>Biodiversity</li> </ul>
<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>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/2c8227af-07fb-472f-ab49-593c611727be">https://sdi.eea.europa.eu/data/2c8227af-07fb-472f-ab49-593c611727be</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: 65</p> <p>Regularized training gain: 2.5296</p>
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Unregularized training gain: 2.8127  
Iterations: 500  
Training AUC: 0.9756  
#Test samples: 7  
Test gain: 1.6606  
Test AUC: 0.9415  
AUC Standard Deviation: 0.0193  
#Background points: 5047  
bio\_12\_etr2\_ras contribution: 0.8398  
bio\_15\_etr2\_ras contribution: 13.5536  
bio\_18\_etr2\_ras contribution: 49.1645  
bio\_4\_etr2\_ras contribution: 2.1301  
bio\_8\_etr2\_ras contribution: 2.3443  
bld\_m\_sd1\_1km\_eu\_ll contribution: 5.8124  
cecum\_m\_sd1\_1km\_eu\_ll contribution: 0.14  
clyppt\_m\_sd1\_1km\_eu\_ll contribution: 6.2395  
crvol\_m\_sd1\_1km\_eu\_ll contribution: 1.9674  
dist2water1km contribution: 0.0443  
orcdrc\_m\_sd1\_1km\_eu\_ll contribution: 0.076  
pet\_he\_yr contribution: 16.0585  
sltppt\_m\_sd1\_1km\_eu\_ll contribution: 0.3234  
sndppt\_m\_sd1\_1km\_eu\_ll contribution: 0.4292  
solar\_1km contribution: 0.8768  
bio\_12\_etr2\_ras permutation importance: 3.5449  
bio\_15\_etr2\_ras permutation importance: 5.8264  
bio\_18\_etr2\_ras permutation importance: 75.1605  
bio\_4\_etr2\_ras permutation importance: 3.813  
bio\_8\_etr2\_ras permutation importance: 0.5864  
bld\_m\_sd1\_1km\_eu\_ll permutation importance: 4.6429  
cecum\_m\_sd1\_1km\_eu\_ll permutation importance: 0.1711  
clyppt\_m\_sd1\_1km\_eu\_ll permutation importance: 2.6928  
crvol\_m\_sd1\_1km\_eu\_ll permutation importance: 1.5463  
dist2water1km permutation importance: 0.0366  
orcdrc\_m\_sd1\_1km\_eu\_ll permutation importance: 0.0151  
pet\_he\_yr permutation importance: 0.4666  
sltppt\_m\_sd1\_1km\_eu\_ll permutation importance: 0  
sndppt\_m\_sd1\_1km\_eu\_ll permutation importance: 0.5836  
solar\_1km permutation importance: 0.9138  
Training gain without bio\_12\_etr2\_ras: 2.4758  
Training gain without bio\_15\_etr2\_ras: 2.3924  
Training gain without bio\_18\_etr2\_ras: 2.4288  
Training gain without bio\_4\_etr2\_ras: 2.4848  
Training gain without bio\_8\_etr2\_ras: 2.5206

Training gain without bld\_m\_sd1\_1km\_eu\_ll: 2.4941  
Training gain without cecsum\_m\_sd1\_1km\_eu\_ll: 2.5224  
Training gain without clyppt\_m\_sd1\_1km\_eu\_ll: 2.4834  
Training gain without crvol\_m\_sd1\_1km\_eu\_ll: 2.491  
Training gain without dist2water1km: 2.5283  
Training gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 2.5274  
Training gain without pet\_he\_yr: 2.521  
Training gain without sltppt\_m\_sd1\_1km\_eu\_ll: 2.529  
Training gain without sndppt\_m\_sd1\_1km\_eu\_ll: 2.5081  
Training gain without solar\_1km: 2.5181  
Training gain with only bio\_12\_etr2\_ras: 0.5483  
Training gain with only bio\_15\_etr2\_ras: 0.8073  
Training gain with only bio\_18\_etr2\_ras: 1.7667  
Training gain with only bio\_4\_etr2\_ras: 0.1536  
Training gain with only bio\_8\_etr2\_ras: 0.283  
Training gain with only bld\_m\_sd1\_1km\_eu\_ll: 1.2828  
Training gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.4173  
Training gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.3192  
Training gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.2936  
Training gain with only dist2water1km: 0.0018  
Training gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 0.4465  
Training gain with only pet\_he\_yr: 1.5753  
Training gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.2119  
Training gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.2175  
Training gain with only solar\_1km: 0.1541  
Test gain without bio\_12\_etr2\_ras: 1.9191  
Test gain without bio\_15\_etr2\_ras: 1.5168  
Test gain without bio\_18\_etr2\_ras: 1.8359  
Test gain without bio\_4\_etr2\_ras: 1.6436  
Test gain without bio\_8\_etr2\_ras: 1.6716  
Test gain without bld\_m\_sd1\_1km\_eu\_ll: 1.8202  
Test gain without cecsum\_m\_sd1\_1km\_eu\_ll: 1.6544  
Test gain without clyppt\_m\_sd1\_1km\_eu\_ll: 1.7754  
Test gain without crvol\_m\_sd1\_1km\_eu\_ll: 1.6975  
Test gain without dist2water1km: 1.7033  
Test gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 1.7371  
Test gain without pet\_he\_yr: 1.6996  
Test gain without sltppt\_m\_sd1\_1km\_eu\_ll: 1.6819  
Test gain without sndppt\_m\_sd1\_1km\_eu\_ll: 1.7197  
Test gain without solar\_1km: 1.6934  
Test gain with only bio\_12\_etr2\_ras: 1.003  
Test gain with only bio\_15\_etr2\_ras: 0.7312

Test gain with only bio\_18\_etr2\_ras: 1.585  
Test gain with only bio\_4\_etr2\_ras: 0.2388  
Test gain with only bio\_8\_etr2\_ras: 0.4073  
Test gain with only bld\_m\_sd1\_1km\_eu\_ll: 1.4061  
Test gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.5818  
Test gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.1176  
Test gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.0725  
Test gain with only dist2water1km: -0.0004  
Test gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 0.5066  
Test gain with only pet\_he\_yr: 1.3987  
Test gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.0995  
Test gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.0082  
Test gain with only solar\_1km: 0.0367  
AUC without bio\_12\_etr2\_ras: 0.951  
AUC without bio\_15\_etr2\_ras: 0.9281  
AUC without bio\_18\_etr2\_ras: 0.9508  
AUC without bio\_4\_etr2\_ras: 0.9412  
AUC without bio\_8\_etr2\_ras: 0.9432  
AUC without bld\_m\_sd1\_1km\_eu\_ll: 0.9478  
AUC without cecsum\_m\_sd1\_1km\_eu\_ll: 0.9422  
AUC without clyppt\_m\_sd1\_1km\_eu\_ll: 0.9461  
AUC without crvol\_m\_sd1\_1km\_eu\_ll: 0.9411  
AUC without dist2water1km: 0.9441  
AUC without orcdrc\_m\_sd1\_1km\_eu\_ll: 0.9439  
AUC without pet\_he\_yr: 0.944  
AUC without sltppt\_m\_sd1\_1km\_eu\_ll: 0.9424  
AUC without sndppt\_m\_sd1\_1km\_eu\_ll: 0.9422  
AUC without solar\_1km: 0.9422  
AUC with only bio\_12\_etr2\_ras: 0.8955  
AUC with only bio\_15\_etr2\_ras: 0.832  
AUC with only bio\_18\_etr2\_ras: 0.9267  
AUC with only bio\_4\_etr2\_ras: 0.6579  
AUC with only bio\_8\_etr2\_ras: 0.8095  
AUC with only bld\_m\_sd1\_1km\_eu\_ll: 0.9176  
AUC with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.7989  
AUC with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.5891  
AUC with only crvol\_m\_sd1\_1km\_eu\_ll: 0.6288  
AUC with only dist2water1km: 0.4837  
AUC with only orcdrc\_m\_sd1\_1km\_eu\_ll: 0.7726  
AUC with only pet\_he\_yr: 0.9075  
AUC with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.557  
AUC with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.5491  
AUC with only solar\_1km: 0.5493

Entropy: 6.0094

Prevalence (average of logistic output over background sites): 0.0386

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.012

Fixed cumulative value 1 area: 0.2407

Fixed cumulative value 1 training omission: 0

Fixed cumulative value 1 test omission: 0

Fixed cumulative value 1 binomial probability: 4.69E-05

Fixed cumulative value 5 cumulative threshold: 5

Fixed cumulative value 5 logistic threshold: 0.0647

Fixed cumulative value 5 area: 0.1328

Fixed cumulative value 5 training omission: 0.0308

Fixed cumulative value 5 test omission: 0.1429

Fixed cumulative value 5 binomial probability: 3.39E-05

Fixed cumulative value 10 cumulative threshold: 10

Fixed cumulative value 10 logistic threshold: 0.1269

Fixed cumulative value 10 area: 0.0933

Fixed cumulative value 10 training omission: 0.0615

Fixed cumulative value 10 test omission: 0.2857

Fixed cumulative value 10 binomial probability: 1.27E-04

Minimum training presence cumulative threshold: 1.7247

Minimum training presence logistic threshold: 0.0194

Minimum training presence area: 0.2033

Minimum training presence training omission: 0

Minimum training presence test omission: 0

Minimum training presence binomial probability: 1.43E-05

10 percentile training presence cumulative threshold: 15.3937

10 percentile training presence logistic threshold: 0.1798

10 percentile training presence area: 0.0684

10 percentile training presence training omission: 0.0923

10 percentile training presence test omission: 0.2857

10 percentile training presence binomial probability: 2.79E-05

Equal training sensitivity and specificity cumulative threshold: 13.2309

Equal training sensitivity and specificity logistic threshold: 0.1564

Equal training sensitivity and specificity area: 0.0771

Equal training sensitivity and specificity training omission: 0.0769

Equal training sensitivity and specificity test omission: 0.2857

Equal training sensitivity and specificity binomial probability: 5.00E-05

Maximum training sensitivity plus specificity cumulative threshold: 11.6114

Maximum training sensitivity plus specificity logistic threshold: 0.1352

Maximum training sensitivity plus specificity area: 0.0846

Maximum training sensitivity plus specificity training omission: 0.0615

Maximum training sensitivity plus specificity test omission: 0.2857

Maximum training sensitivity plus specificity binomial probability: 7.87E-05

Equal test sensitivity and specificity cumulative threshold: 4.2418

Equal test sensitivity and specificity logistic threshold: 0.052

Equal test sensitivity and specificity area: 0.1429

Equal test sensitivity and specificity training omission: 0.0308

Equal test sensitivity and specificity test omission: 0.1429

Equal test sensitivity and specificity binomial probability: 5.22E-05

Maximum test sensitivity plus specificity cumulative threshold: 4.0498

Maximum test sensitivity plus specificity logistic threshold: 0.0507

Maximum test sensitivity plus specificity area: 0.1456

Maximum test sensitivity plus specificity training omission: 0.0308

Maximum test sensitivity plus specificity test omission: 0

Maximum test sensitivity plus specificity binomial probability: 1.39E-06

Balance training omission, predicted area and threshold value cumulative threshold: 1.7247

Balance training omission, predicted area and threshold value logistic threshold: 0.0194

Balance training omission, predicted area and threshold value area: 0.2033

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: 1.43E-05

Equate entropy of thresholded and original distributions cumulative threshold: 12.4495

Equate entropy of thresholded and original distributions logistic threshold: 0.1453

Equate entropy of thresholded and original distributions area: 0.0806

Equate entropy of thresholded and original distributions training omission: 0.0769

Equate entropy of thresholded and original distributions test omission: 0.2857

Equate entropy of thresholded and original distributions binomial probability: 6.23E-05

Source

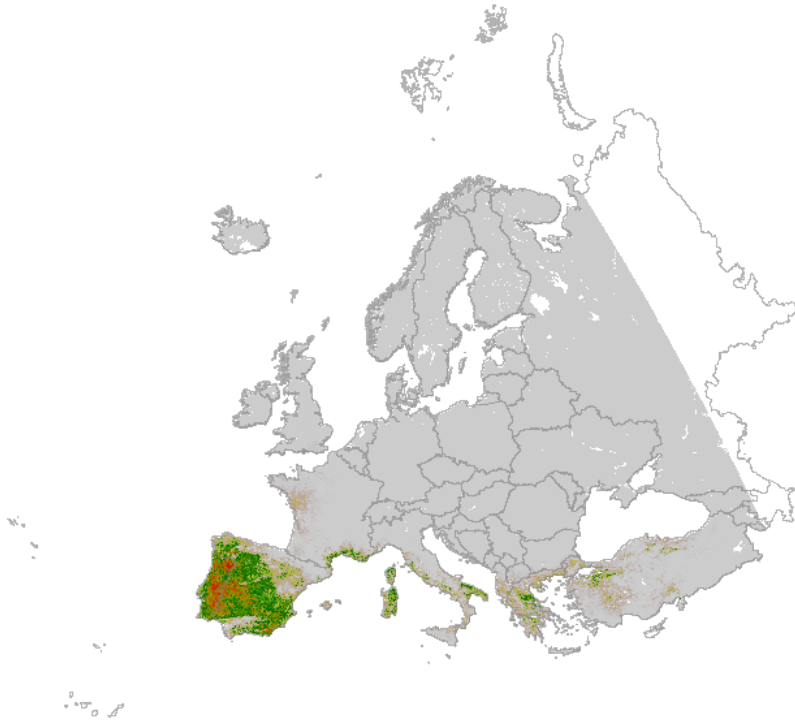
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## Overviews



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