

## EUNIS habitat type F6.8a, 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 eastern part of Europe uncertain due to lack of data for that area.

### Simple

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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>
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<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>	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/186b79ed-f69d-441f-9ace-240219fedfd1">https://sdi.eea.europa.eu/data/186b79ed-f69d-441f-9ace-240219fedfd1</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: 62</p> <p>Regularized training gain: 2.5337</p>
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Unregularized training gain: 2.895  
Iterations: 500  
Training AUC: 0.9759  
#Test samples: 6  
Test gain: 1.9924  
Test AUC: 0.911  
AUC Standard Deviation: 0.0701  
#Background points: 5043  
bio\_12\_etr2\_ras contribution: 6.3801  
bio\_15\_etr2\_ras contribution: 3.2556  
bio\_18\_etr2\_ras contribution: 16.0861  
bio\_4\_etr2\_ras contribution: 3.4085  
bio\_8\_etr2\_ras contribution: 2.8701  
bld\_m\_sd1\_1km\_eu\_ll contribution: 3.8742  
cecum\_m\_sd1\_1km\_eu\_ll contribution: 0.3583  
clyppt\_m\_sd1\_1km\_eu\_ll contribution: 9.1065  
crvol\_m\_sd1\_1km\_eu\_ll contribution: 0.0369  
dist2water1km contribution: 0.5444  
orcdrc\_m\_sd1\_1km\_eu\_ll contribution: 14.3859  
pet\_he\_yr contribution: 39.1685  
sltppt\_m\_sd1\_1km\_eu\_ll contribution: 0.3013  
sndppt\_m\_sd1\_1km\_eu\_ll contribution: 0.2237  
solar\_1km contribution: 0  
bio\_12\_etr2\_ras permutation importance: 1.4553  
bio\_15\_etr2\_ras permutation importance: 4.6929  
bio\_18\_etr2\_ras permutation importance: 66.9819  
bio\_4\_etr2\_ras permutation importance: 1.021  
bio\_8\_etr2\_ras permutation importance: 4.512  
bld\_m\_sd1\_1km\_eu\_ll permutation importance: 0.4252  
cecum\_m\_sd1\_1km\_eu\_ll permutation importance: 1.0774  
clyppt\_m\_sd1\_1km\_eu\_ll permutation importance: 9.6844  
crvol\_m\_sd1\_1km\_eu\_ll permutation importance: 0  
dist2water1km permutation importance: 0.5658  
orcdrc\_m\_sd1\_1km\_eu\_ll permutation importance: 1.4233  
pet\_he\_yr permutation importance: 1.2228  
sltppt\_m\_sd1\_1km\_eu\_ll permutation importance: 6.5177  
sndppt\_m\_sd1\_1km\_eu\_ll permutation importance: 0.4204  
solar\_1km permutation importance: 0  
Training gain without bio\_12\_etr2\_ras: 2.5336  
Training gain without bio\_15\_etr2\_ras: 2.4716  
Training gain without bio\_18\_etr2\_ras: 2.4615  
Training gain without bio\_4\_etr2\_ras: 2.5174  
Training gain without bio\_8\_etr2\_ras: 2.4977

Training gain without bld\_m\_sd1\_1km\_eu\_ll: 2.5259

Training gain without cecsum\_m\_sd1\_1km\_eu\_ll: 2.5105

Training gain without clyppt\_m\_sd1\_1km\_eu\_ll: 2.4806

Training gain without crvol\_m\_sd1\_1km\_eu\_ll: 2.5297

Training gain without dist2water1km: 2.5232

Training gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 2.507

Training gain without pet\_he\_yr: 2.531

Training gain without sltppt\_m\_sd1\_1km\_eu\_ll: 2.5166

Training gain without sndppt\_m\_sd1\_1km\_eu\_ll: 2.5157

Training gain without solar\_1km: 2.538

Training gain with only bio\_12\_etr2\_ras: 1.1405

Training gain with only bio\_15\_etr2\_ras: 0.5535

Training gain with only bio\_18\_etr2\_ras: 1.5715

Training gain with only bio\_4\_etr2\_ras: 0.4312

Training gain with only bio\_8\_etr2\_ras: 0.2887

Training gain with only bld\_m\_sd1\_1km\_eu\_ll: 1.6367

Training gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.267

Training gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.8249

Training gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.4017

Training gain with only dist2water1km: 0.0393

Training gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 1.0898

Training gain with only pet\_he\_yr: 1.8273

Training gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.2561

Training gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.4928

Training gain with only solar\_1km: 0.217

Test gain without bio\_12\_etr2\_ras: 2.0403

Test gain without bio\_15\_etr2\_ras: 2.1408

Test gain without bio\_18\_etr2\_ras: 1.9313

Test gain without bio\_4\_etr2\_ras: 1.8717

Test gain without bio\_8\_etr2\_ras: 2.0972

Test gain without bld\_m\_sd1\_1km\_eu\_ll: 2.1033

Test gain without cecsum\_m\_sd1\_1km\_eu\_ll: 2.0316

Test gain without clyppt\_m\_sd1\_1km\_eu\_ll: 1.8957

Test gain without crvol\_m\_sd1\_1km\_eu\_ll: 1.9728

Test gain without dist2water1km: 1.9991

Test gain without orcdrc\_m\_sd1\_1km\_eu\_ll: 1.9508

Test gain without pet\_he\_yr: 1.968

Test gain without sltppt\_m\_sd1\_1km\_eu\_ll: 1.9584

Test gain without sndppt\_m\_sd1\_1km\_eu\_ll: 1.9617

Test gain without solar\_1km: 2.0117

Test gain with only bio\_12\_etr2\_ras: 1.0569

Test gain with only bio\_15\_etr2\_ras: 0.3347

Test gain with only bio\_18\_etr2\_ras: 1.4122  
Test gain with only bio\_4\_etr2\_ras: 0.4442  
Test gain with only bio\_8\_etr2\_ras: 0.4373  
Test gain with only bld\_m\_sd1\_1km\_eu\_ll: 1.0035  
Test gain with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.4234  
Test gain with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.8272  
Test gain with only crvol\_m\_sd1\_1km\_eu\_ll: 0.0243  
Test gain with only dist2water1km: 0.0249  
Test gain with only orcdrc\_m\_sd1\_1km\_eu\_ll: 1.2319  
Test gain with only pet\_he\_yr: 1.5559  
Test gain with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.2031  
Test gain with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.177  
Test gain with only solar\_1km: 0.2118  
AUC without bio\_12\_etr2\_ras: 0.912  
AUC without bio\_15\_etr2\_ras: 0.9208  
AUC without bio\_18\_etr2\_ras: 0.9179  
AUC without bio\_4\_etr2\_ras: 0.9046  
AUC without bio\_8\_etr2\_ras: 0.9215  
AUC without bld\_m\_sd1\_1km\_eu\_ll: 0.9142  
AUC without cecsum\_m\_sd1\_1km\_eu\_ll: 0.9123  
AUC without clyppt\_m\_sd1\_1km\_eu\_ll: 0.9131  
AUC without crvol\_m\_sd1\_1km\_eu\_ll: 0.9131  
AUC without dist2water1km: 0.9139  
AUC without orcdrc\_m\_sd1\_1km\_eu\_ll: 0.9108  
AUC without pet\_he\_yr: 0.912  
AUC without sltppt\_m\_sd1\_1km\_eu\_ll: 0.9093  
AUC without sndppt\_m\_sd1\_1km\_eu\_ll: 0.9078  
AUC without solar\_1km: 0.9121  
AUC with only bio\_12\_etr2\_ras: 0.8335  
AUC with only bio\_15\_etr2\_ras: 0.7373  
AUC with only bio\_18\_etr2\_ras: 0.8725  
AUC with only bio\_4\_etr2\_ras: 0.7556  
AUC with only bio\_8\_etr2\_ras: 0.7228  
AUC with only bld\_m\_sd1\_1km\_eu\_ll: 0.8745  
AUC with only cecsum\_m\_sd1\_1km\_eu\_ll: 0.7477  
AUC with only clyppt\_m\_sd1\_1km\_eu\_ll: 0.8496  
AUC with only crvol\_m\_sd1\_1km\_eu\_ll: 0.6508  
AUC with only dist2water1km: 0.5773  
AUC with only orcdrc\_m\_sd1\_1km\_eu\_ll: 0.7936  
AUC with only pet\_he\_yr: 0.9088  
AUC with only sltppt\_m\_sd1\_1km\_eu\_ll: 0.6383  
AUC with only sndppt\_m\_sd1\_1km\_eu\_ll: 0.6382  
AUC with only solar\_1km: 0.6303

Entropy: 6.0229

Prevalence (average of logistic output over background sites): 0.0388

Fixed cumulative value 1 cumulative threshold: 1

Fixed cumulative value 1 logistic threshold: 0.0079

Fixed cumulative value 1 area: 0.3056

Fixed cumulative value 1 training omission: 0.0161

Fixed cumulative value 1 test omission: 0.1667

Fixed cumulative value 1 binomial probability: 1.19E-02

Fixed cumulative value 5 cumulative threshold: 5

Fixed cumulative value 5 logistic threshold: 0.0483

Fixed cumulative value 5 area: 0.1503

Fixed cumulative value 5 training omission: 0.0161

Fixed cumulative value 5 test omission: 0.1667

Fixed cumulative value 5 binomial probability: 4.03E-04

Fixed cumulative value 10 cumulative threshold: 10

Fixed cumulative value 10 logistic threshold: 0.1037

Fixed cumulative value 10 area: 0.0974

Fixed cumulative value 10 training omission: 0.0323

Fixed cumulative value 10 test omission: 0.1667

Fixed cumulative value 10 binomial probability: 4.82E-05

Minimum training presence cumulative threshold: 0.2129

Minimum training presence logistic threshold: 0.0017

Minimum training presence area: 0.4727

Minimum training presence training omission: 0

Minimum training presence test omission: 0

Minimum training presence binomial probability: 1.12E-02

10 percentile training presence cumulative threshold: 26.2915

10 percentile training presence logistic threshold: 0.2985

10 percentile training presence area: 0.0403

10 percentile training presence training omission: 0.0968

10 percentile training presence test omission: 0.1667

10 percentile training presence binomial probability: 6.13E-07

Equal training sensitivity and specificity cumulative threshold: 16.811

Equal training sensitivity and specificity logistic threshold: 0.1974

Equal training sensitivity and specificity area: 0.0644

Equal training sensitivity and specificity training omission: 0.0645

Equal training sensitivity and specificity test omission: 0.1667

Equal training sensitivity and specificity binomial probability: 6.31E-06

Maximum training sensitivity plus specificity cumulative threshold: 14.3848

Maximum training sensitivity plus specificity logistic threshold: 0.1627

Maximum training sensitivity plus specificity area: 0.0732

Maximum training sensitivity plus specificity training omission: 0.0323

Maximum training sensitivity plus specificity test omission: 0.1667

Maximum training sensitivity plus specificity binomial probability: 1.18E-05

Equal test sensitivity and specificity cumulative threshold: 4.1619

Equal test sensitivity and specificity logistic threshold: 0.0362

Equal test sensitivity and specificity area: 0.1666

Equal test sensitivity and specificity training omission: 0.0161

Equal test sensitivity and specificity test omission: 0.1667

Equal test sensitivity and specificity binomial probability: 6.62E-04

Maximum test sensitivity plus specificity cumulative threshold: 30.1379

Maximum test sensitivity plus specificity logistic threshold: 0.3359

Maximum test sensitivity plus specificity area: 0.0335

Maximum test sensitivity plus specificity training omission: 0.1613

Maximum test sensitivity plus specificity test omission: 0.1667

Maximum test sensitivity plus specificity binomial probability: 2.47E-07

Balance training omission, predicted area and threshold value cumulative threshold: 3.7219

Balance training omission, predicted area and threshold value logistic threshold: 0.0316

Balance training omission, predicted area and threshold value area: 0.1769

Balance training omission, predicted area and threshold value training omission: 0.0161

Balance training omission, predicted area and threshold value test omission: 0.1667

Balance training omission, predicted area and threshold value binomial probability: 8.86E-04

Equate entropy of thresholded and original distributions cumulative threshold: 12.6664

Equate entropy of thresholded and original distributions logistic threshold: 0.1383

Equate entropy of thresholded and original distributions area: 0.0813

Equate entropy of thresholded and original distributions training omission: 0.0323

Equate entropy of thresholded and original distributions test omission: 0.1667

Equate entropy of thresholded and original distributions binomial probability: 1.99E-05

Source

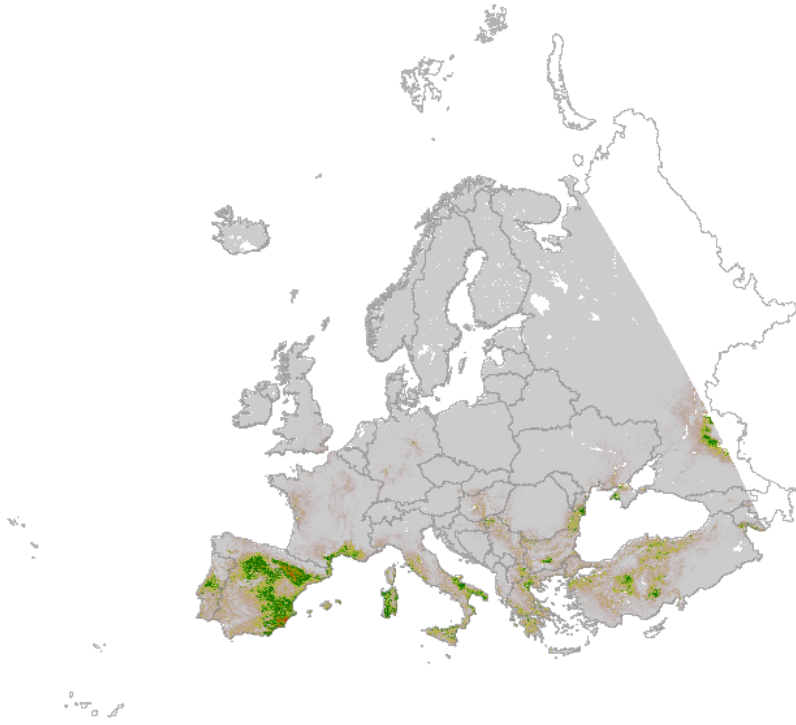
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## Overviews



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