

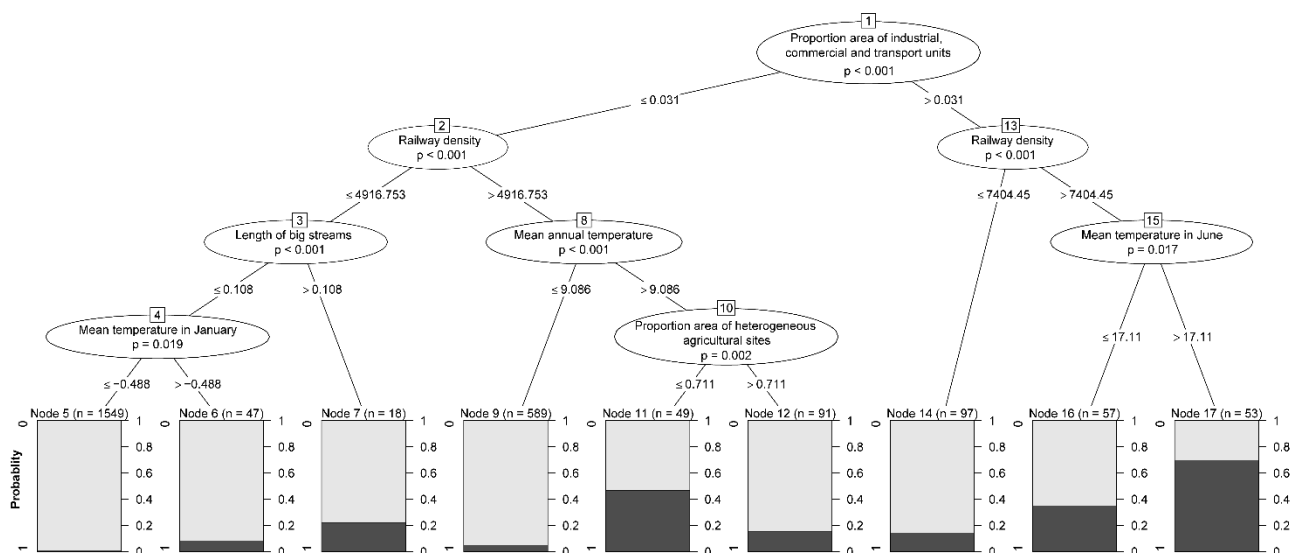
**Skálová H., Guo W.-Y., Wild J. & Pyšek P. (2017): *Ambrosia artemisiifolia* in the Czech Republic: history of invasion, current distribution and prediction of future spread. – Preslia 89: 1–16.**

**Electronic Appendix 1.** – Variables describing conditions in the grid cells of *Ambrosia artemisiifolia* records ditto

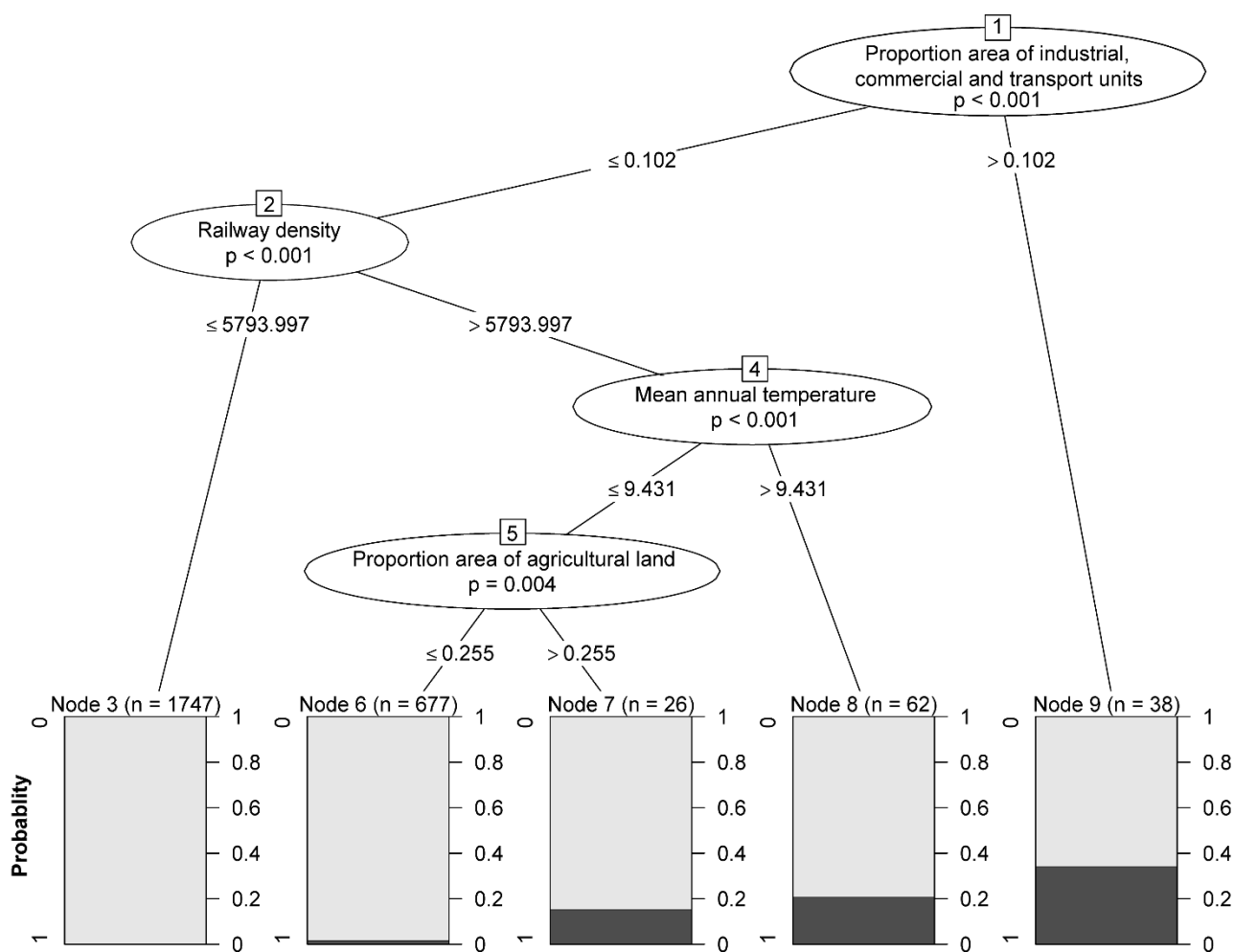
Variable	Units	Description	Source
Mean annual temperature	°C	Gridded average over period 1986–2010 interpolated from data provided by Czech Hydrometeorological Institute using combined linear regression on altitude and IDW interpolator (Štěpánek et al. 2011).	www.chmi.cz (data licensed by Institute of Botany)
Mean temperature in January	°C	ditto	ditto
Mean temperature in June	°C	ditto	ditto
Annual precipitation	mm		ditto
Road density	m/cell	Road length obtained from ArcČR500 v. 3.1	www.arcdata.cz
Railway density	m/cell	Railway length obtained from ArcČR500 v. 3.1	www.arcdata.cz
Length of big streams	m/cell	Obtained from A02 and A03 layers, respectively, from database DIBAVOD (2007)	www.dibavod.cz
Proportion area of industrial, commercial and transport units	%	From CORINE Land Cover raster data (250 × 250 m), CLC 2006	EEA (2010)
Proportion area of mine, dump and construction sites	%	ditto	ditto
Proportion area of industrial sites	%	ditto	ditto
Proportion area of artificial, non-agricultural vegetated areas	%	ditto	ditto
Proportion area of agricultural land	%	ditto	ditto
Proportion area of arable land	%	ditto	ditto
Proportion area of permanent crops	%	ditto	ditto
Proportion area of heterogeneous agricultural sites	%	ditto	ditto
Proportion area of forest	%	ditto	ditto
Proportion area of scrub and/or herbaceous vegetation	%	ditto	ditto
Proportion area of open spaces with little or no vegetation	%	ditto	ditto
Proportion area of inland wetlands	%	ditto	ditto
Proportion area of inland waters	%	ditto	ditto

**Electronic Appendix 2.** – Pairwise analysis of covariance (ANCOVA) tests of differences between the regression slopes of the cumulative number of records of *Ambrosia artemisiifolia* in the seven habitats and year. ns: no significant difference; \* P < 0.05; \*\* P < 0.01; \*\*\* P < 0.001.

	Arable fields	Other agricultural areas	Countryside	Industrial areas	Railways	River harbours	Roads	Settlements
Arable fields	-	**	***	***	***	ns	***	***
Other agricultural areas		-	***	ns	***	***	ns	***
Countryside			-	***	*	***	**	ns
Industrial areas				-	***	***	ns	***
Railways					-	***	ns	ns
River harbours						-	***	***
Roads							-	ns
Settlements								-



**Electronic Appendix 3A.** – Factors shaping distribution of *Ambrosia artemisiifolia* in the Czech Republic revealed by conditional interference tree. The variables in ovals were revealed to split the grid cells with (1) and without (0) occurrence; the *p*-values were derived from a Bonferroni-corrected significance test; the numbers of observations (*n*) is given at each terminal node. The y axis refers to the probability score of the cell belong to, and the inside bars indicated the proportions of cells under the individual categories.



Electronic Appendix 3B. – Factors shaping distribution of *Ambrosia artemisiifolia* in the Czech Republic revealed by conditional interference tree. The variables in ovals were revealed to split the grid cells with naturalized populations (1) and cells without the species occurrence (0); the P-values were derived from a Bonferroni-corrected significance test; the numbers of observations (n) is given at each terminal node. The y axis refers to the probability score of the cell belong to, and the inside bars indicated the proportions of cells under the individual categories.

## References

- DIBAVOD (Digital database of water management data) [online] (2007): Digitální báze vodohospodářských dat [Digital database of water management data]. – Oddělení GIS a kartografie, T. G. Masaryk Water Research Institute, URL: <http://www.dibavod.cz>.
- EEA (2010): Corine Land Cover 2006 seamless vector data. – URL: <http://www.eea.europa.eu/data-and-maps/data/clc-2006-vector-data-version-3> (accessed in October 2014).
- Štěpánek P., Zahradníček P. & Huth R. (2011): Interpolation techniques used for data quality control and calculation of technical series: an example of Central European daily time series. – *Időjárás* 115: 87–98.