

Chytrý M., Axmanová I., Divíšek J., Friesová K., Holubová D., Palpurina S., Řezníčková M., Večeřa M. & Knollová I. (2026) Czech Vegetation Database: an open source of vegetation-plot data for research and applications. – Preslia 98: 187–207.

Supplementary Table S1. Geological, climatic, topographic, and soil variables used in the principal component analysis (PCA) to define environmental strata and create the CzechVeg-OpenStrat dataset.

Group	Variable	Data type	Resolution	Source
Geology	Serpentinities	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Geology	Upper Tertiary and Quaternary sediments	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Geology	Carpathian flysch sediments	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Geology	Proterozoic and Palaeozoic rocks	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Geology	Cretaceous sediments	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Geology	Limestone and other calcareous sediments	vector		Geological map of the Czech Rep. 1:50 000, Czech Geological Survey (2004)
Geology	Volcanic rocks	vector		Geological map of the Czech Rep. 1:500 000, Czech Geological Survey (1998)
Climate	Mean annual air temperature	raster	~1000 m	CHELSEA-BIOCLIM+, Brun et al. 2022
Climate	Isothermality (day–night variability / annual temperature range)	raster	~1000 m	CHELSEA-BIOCLIM+, Brun et al. 2022
Climate	Temperature seasonality	raster	~1000 m	CHELSEA-BIOCLIM+, Brun et al. 2022
Climate	Precipitation seasonality	raster	~1000 m	CHELSEA-BIOCLIM+, Brun et al. 2022
Climate	Mean monthly precipitation of the wettest quarter	raster	~1000 m	CHELSEA-BIOCLIM+, Brun et al. 2022
Topography	Elevation	raster	~50 m	derived from State Administration of Land Surveying and Cadastre (2009–2013) Digital Elevation Model 5G (DEM)
Topography	Topographic ruggedness index	raster	~50 m	own calculation from DEM following Riley et al. 1999
Topography	Topographic wetness index	raster	~50 m	own calculation from DEM following Gessler et al. 1995
Soils	Soil pH	raster	~500 m	Ballabio et al. 2019
Soils	Soil C:N ratio	raster	~500 m	Ballabio et al. 2019
Soils	Cation exchange capacity	raster	~500 m	Ballabio et al. 2019