

Večeřa M., Axmanová I., Chytrý M., Divíšek J., Ndiribe C., Mones G. V., Čeplová N., Aćić S., Bahn M., Bergamini A., Boenisch G., Biurrun I., Bruun H. H., Byun C., Catford J. A., Cerabolini B. E. L., Cornelissen J. H. C., Dengler J., Jansen F., Jansen S., Kattge J., Kozub Ł., Kuzemko A., Minden V., Mitchell R. M., Moeslund J. E., Mori A. S., Niinemets Ü., Ruprecht E., Rūsiņa S., Šilc H., Soudzilovskaia N. A., van Bodegom P. M., Vassilev K., Weiher E., Wright I. J. & Lososová Z. (2023) Decoupled phylogenetic and functional diversity in European grasslands. – *Preslia* 95: 413–445.

Supplementary Table S4. Geographical and environmental variables from CHELSA v.1.2 (bx; Karger et al. 2017) and ENVIREM (ex; Title & Bemmels 2018) to examine their correlations with the degree of decoupling of grassland communities throughout Europe. See the sources for a detailed explanation of individual variables.

Code	Variable	Units
Lon	Longitude	°
Lat	Latitude	°
b1	Annual mean temperature	°C * 10
b2	Mean diurnal range	°C
b3	Isothermality	
b4	Temperature seasonality	standard deviation
b5	Maximum temperature of warmest month	°C * 10
b6	Minimum temperature of coldest month	°C * 10
b7	Temperature annual range	°C * 10
b8	Mean temperature of wettest quarter	°C * 10
b9	Mean temperature of driest quarter	°C * 10
b10	Mean temperature of warmest quarter	°C * 10
b11	Mean temperature of coldest quarter	°C * 10
b12	Annual precipitation	mm/yr
b13	Precipitation of wettest month	mm/month
b14	Precipitation of driest month	mm/month
b15	Precipitation seasonality	coefficient of variation
b16	Precipitation of wettest quarter	mm/quarter
b17	Precipitation of driest quarter	mm/quarter
b18	Precipitation of warmest quarter	mm/quarter
b19	Precipitation of coldest quarter	mm/quarter
e1	Annual potential evapotranspiration	mm/year
e2	Thornthwaite aridity index	
e3	Climatic moisture index	
e4	Continentality	°C
e5	Emberger's pluviothermic quotient	
e6	Sum of mean monthly temperatures > 0°C	
e7	Sum of mean monthly temperatures > 5°C	
e8	Maximum temperature of coldest month	°C * 10
e9	Minimum temperature of warmest month	°C * 10
e10	Number of months with mean temperature > 10°C	months
e11	Mean monthly potential evapotranspiration of coldest quarter	mm/month
e12	Mean monthly potential evapotranspiration of driest quarter	mm/month
e13	Monthly variability in potential evapotranspiration	mm/month
e14	Mean monthly potential evapotranspiration of warmest quarter	mm/month
e15	Mean monthly potential evapotranspiration of wettest quarter	mm/month
e16	Compensated thermicity index	°C
e17	Topographic wetness index	
e18	Terrain roughness index	

Karger D. N., Conrad O., Böhrner J., Kawohl T., Kreft H., Soria-Auza R. W., Zimmermann N. E., Linder H. P. & Kessler M. (2017) Climatologies at high resolution for the earth's land surface areas. – *Scientific Data* 4: 170122.

Title P. O. & Bemmels J. B. (2018) ENVIREM: an expanded set of bioclimatic and topographic variables increases flexibility and improves performance of ecological niche modeling. – *Ecography* 41: 291–307.