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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	

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