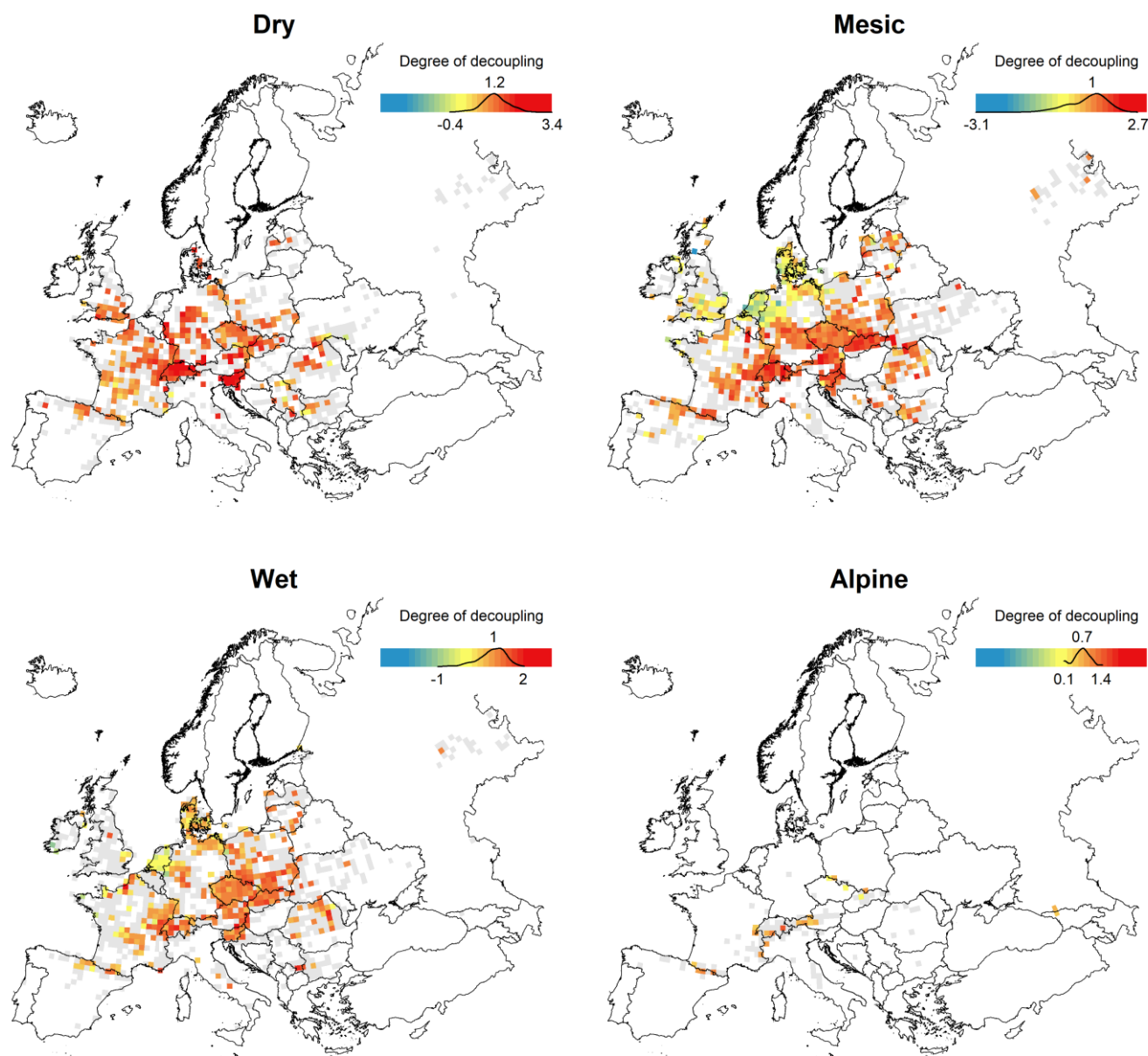


Večeřa M., Axmanová I., Chytrý M., Divíšek J., Ndiribe C., Mones G. V., Čeplová N., Ačić S., Bahn M., Bergamini A., Boenisch G., Biurrin I., Bruun H. H., Byun C., Catford J. A., Cerabolini B. E. L., Cornelissen J. H. C., Dengler J., Jansen F., Jansen S., Kattge J., Kozub Ł., Kuzemko A., Minden V., Mitchell 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.

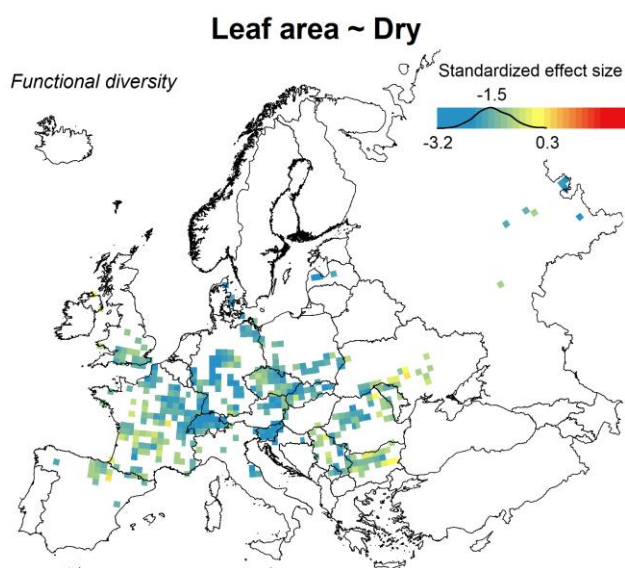
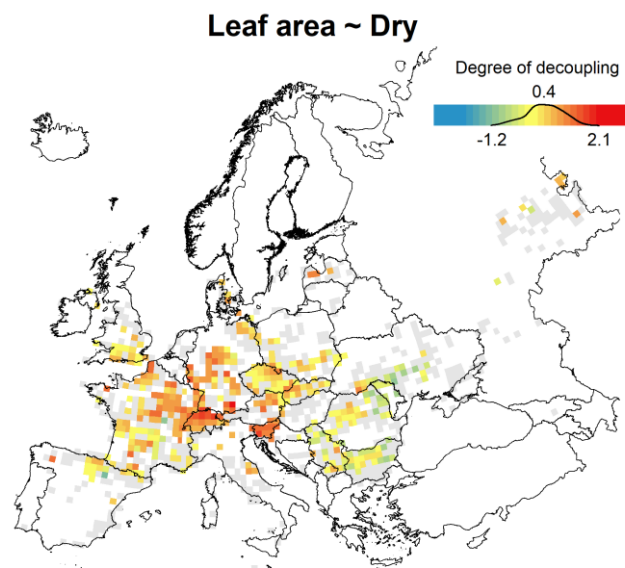
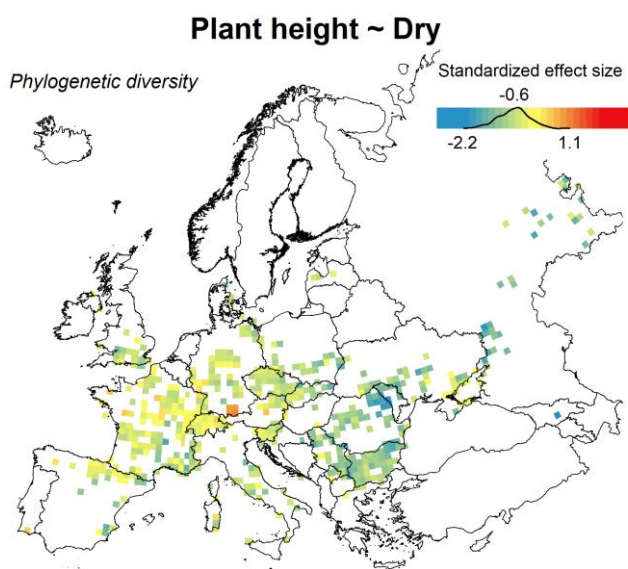
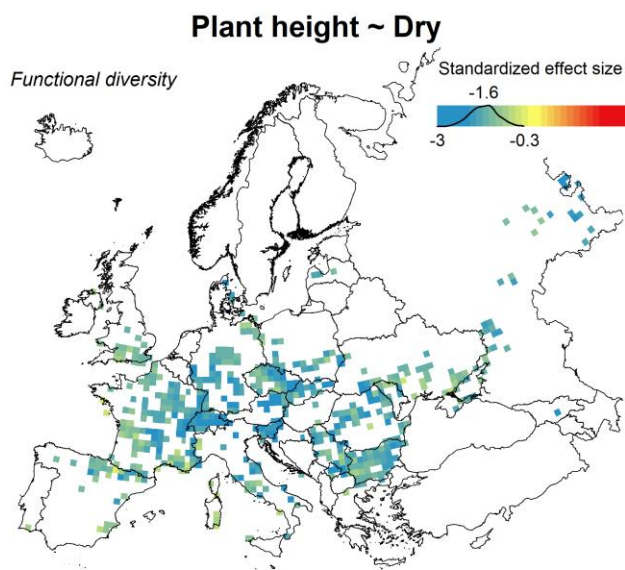
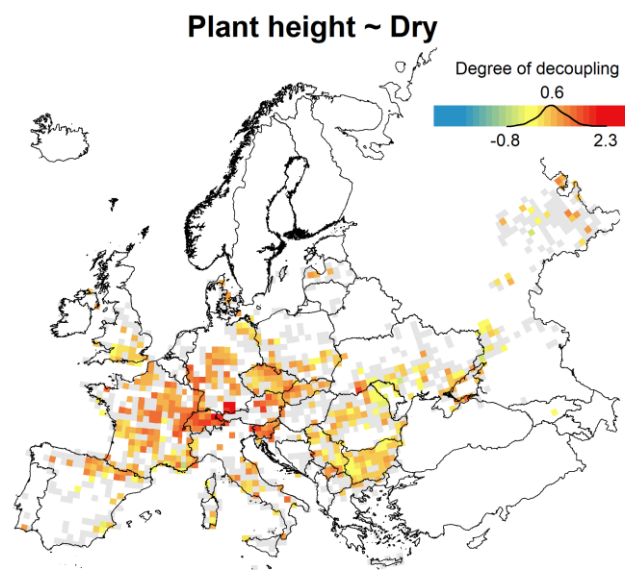
**Supplementary Fig. S4.** (i) Spatial distribution of decoupling for the combined PD and FD measures in dry, mesic, wet and alpine grasslands across Europe, and (ii) distribution of decoupling, PD and FD for individual plant traits (plant height, leaf area, specific leaf area, leaf nitrogen content, seed mass and lateral spread) in (A) dry, (B) mesic, (C) wet and (D) alpine grasslands across Europe. PD is shown using a subset for plant height in each grassland habitat group, because there was the best spatial coverage for this trait in all groups. The colour scale indicates average values per UTM 50 km × 50 km grid cells calculated from vegetation plots; the overall tendency is from highly decoupled FD/low PD/low FD (blue) to highly decoupled PD/high PD/high FD (red). Grid cells with less than 10 plots are in grey in the maps showing decoupling.

(i) Combined diversity measure

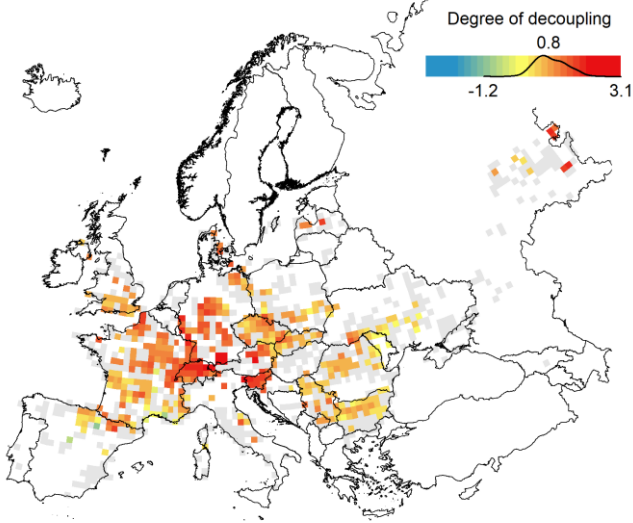


(ii) trait-habitat combinations

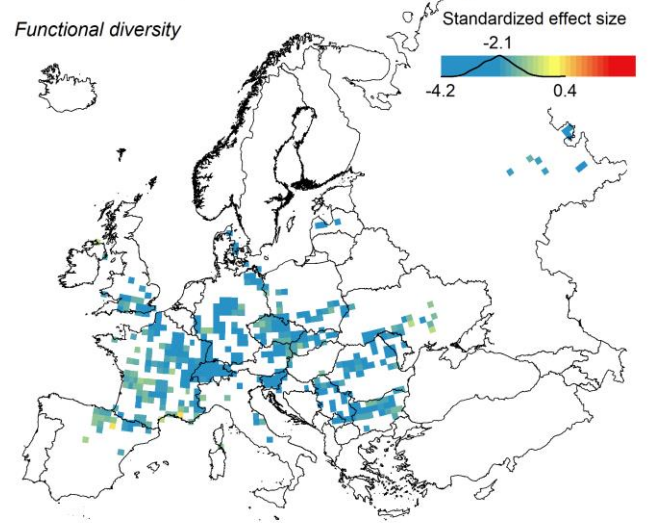
(A)



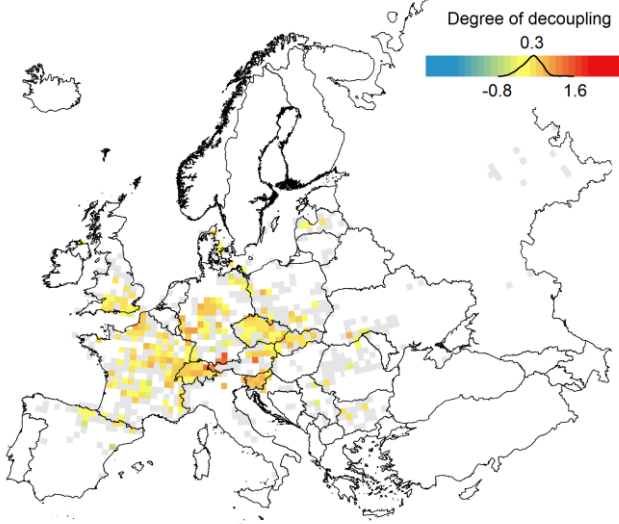
### Specific leaf area ~ Dry



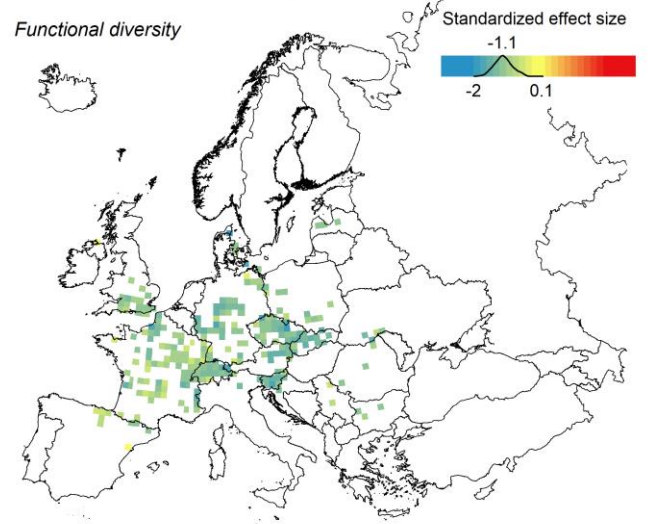
### Specific leaf area ~ Dry



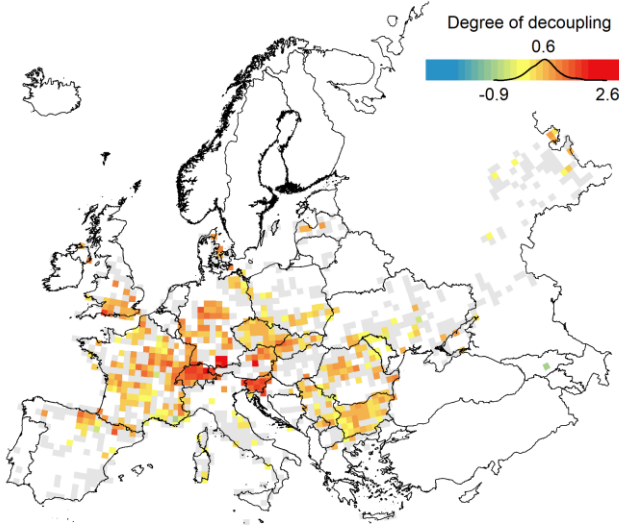
### Leaf nitrogen content ~ Dry



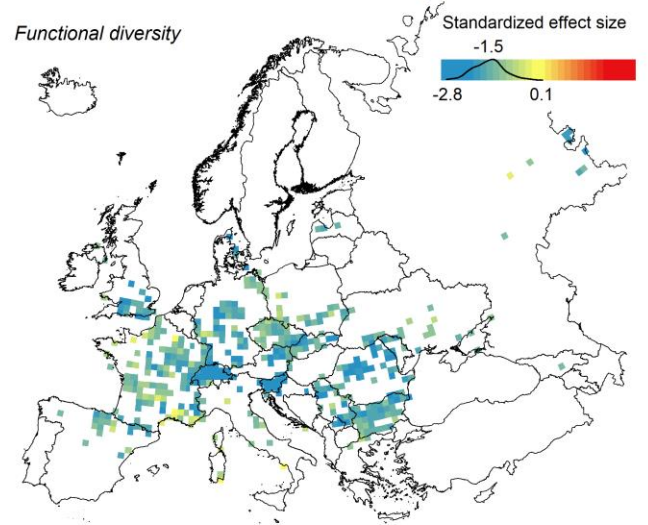
### Leaf nitrogen content ~ Dry



### Seed mass ~ Dry

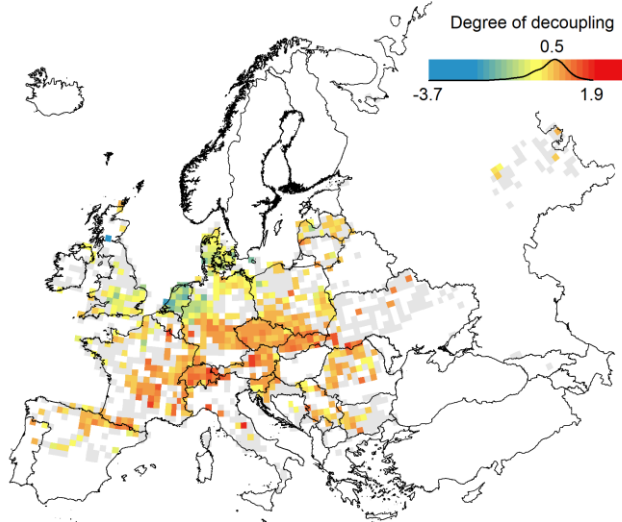


### Seed mass ~ Dry

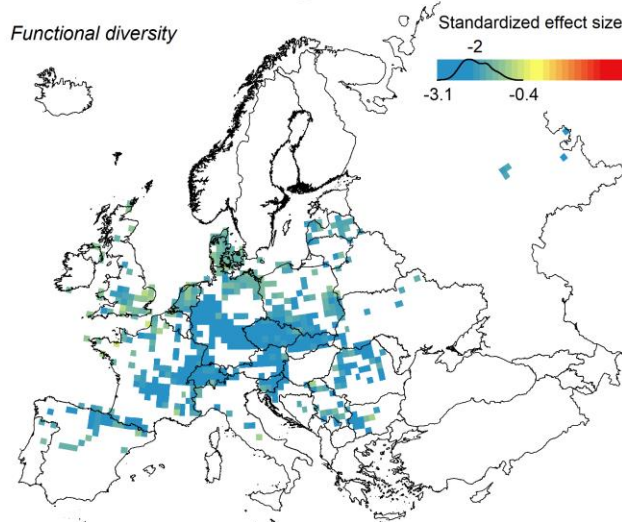


(B)

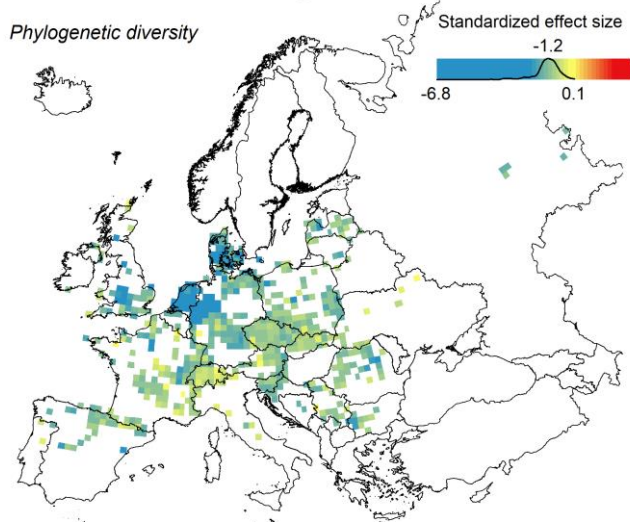
### Plant height ~ Mesic



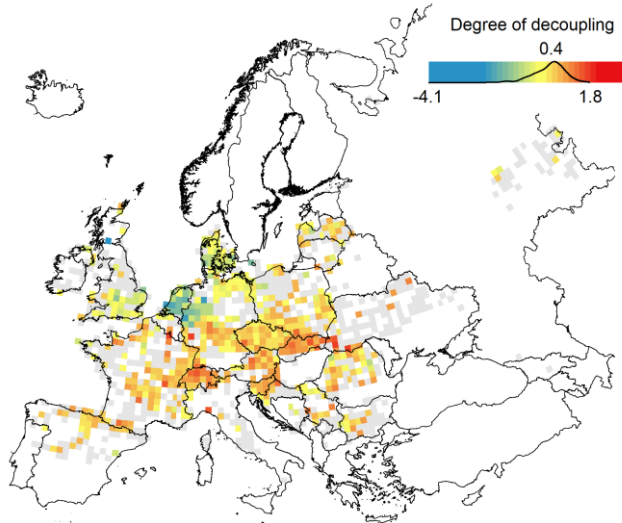
### Plant height ~ Mesic



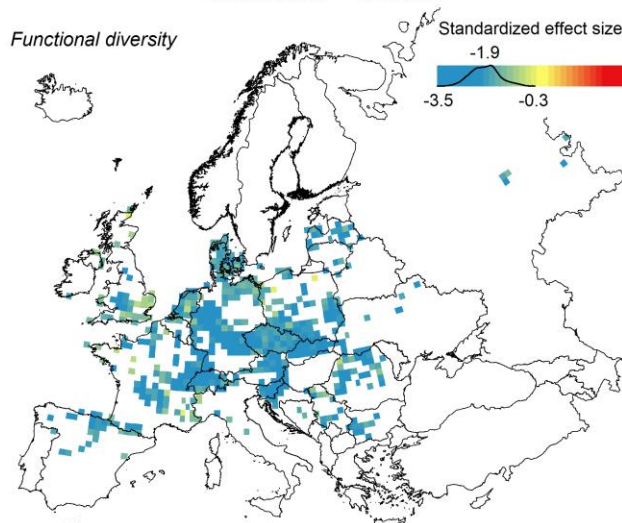
### Plant height ~ Mesic



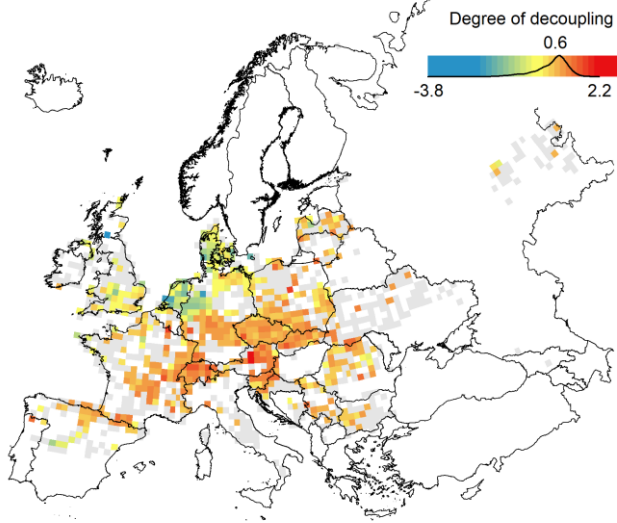
### Leaf area ~ Mesic



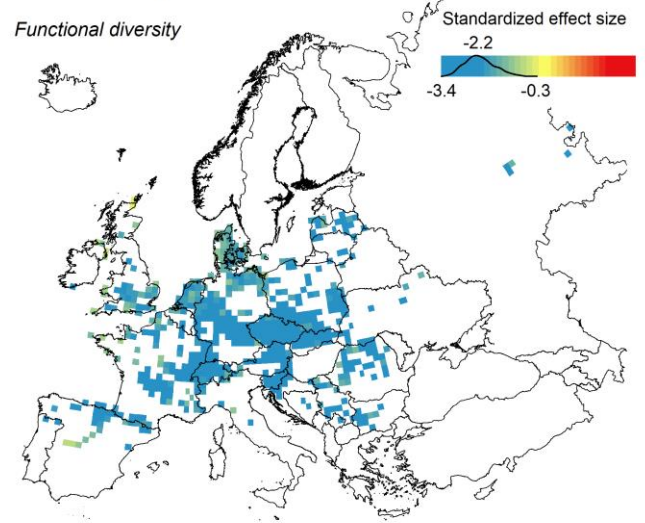
### Leaf area ~ Mesic



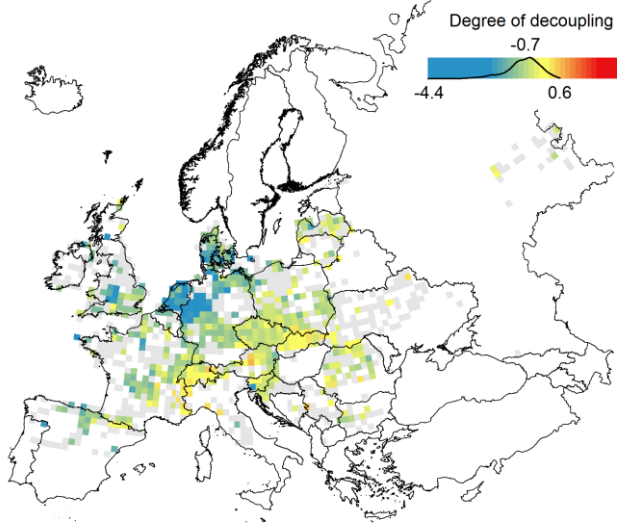
**Specific leaf area ~ Mesic**



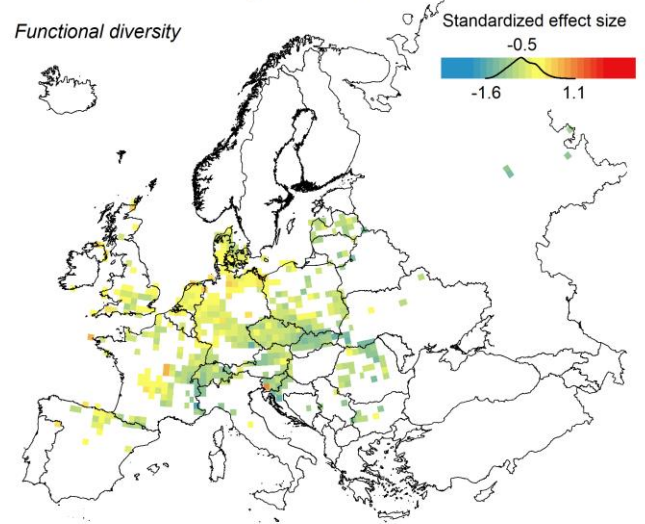
**Specific leaf area ~ Mesic**



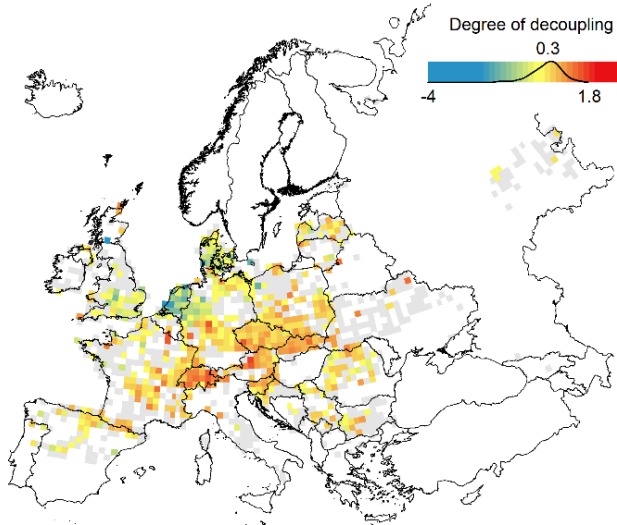
**Leaf nitrogen content ~ Mesic**



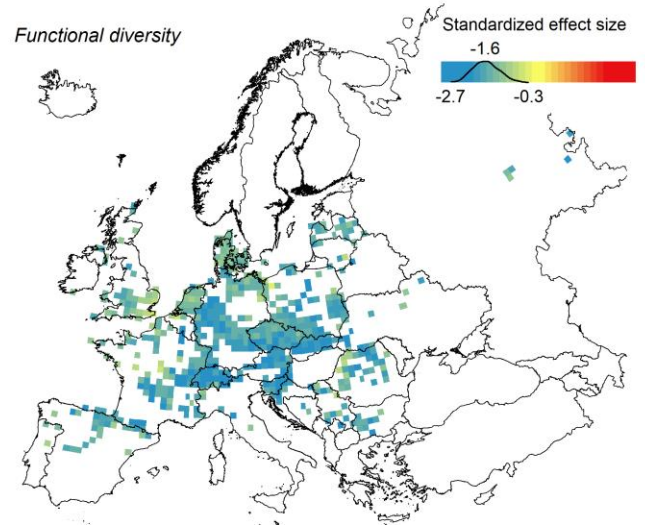
**Leaf nitrogen content ~ Mesic**



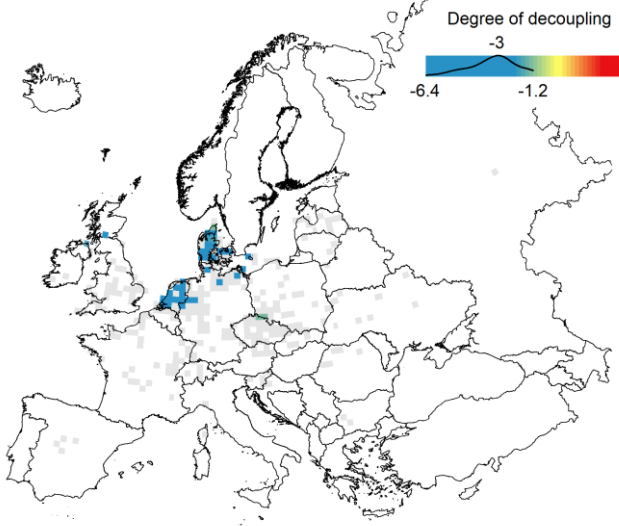
**Seed mass ~ Mesic**



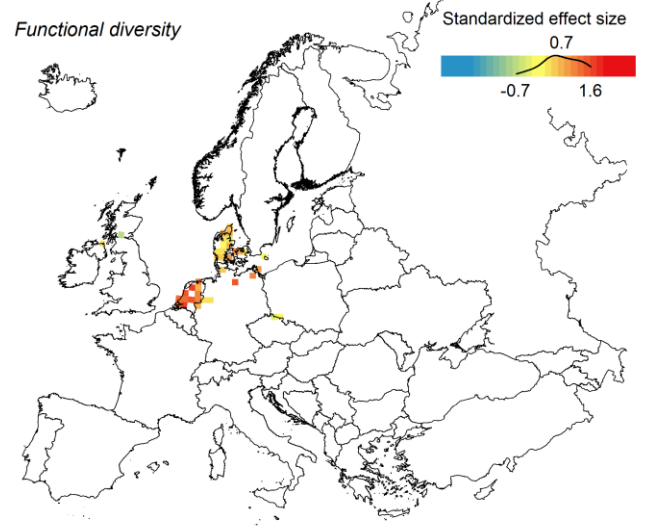
**Seed mass ~ Mesic**



### Lateral spread ~ Mesic

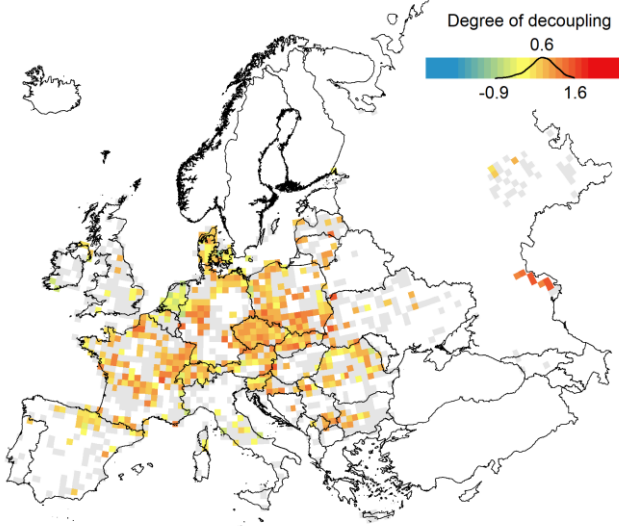


### Lateral spread ~ Mesic

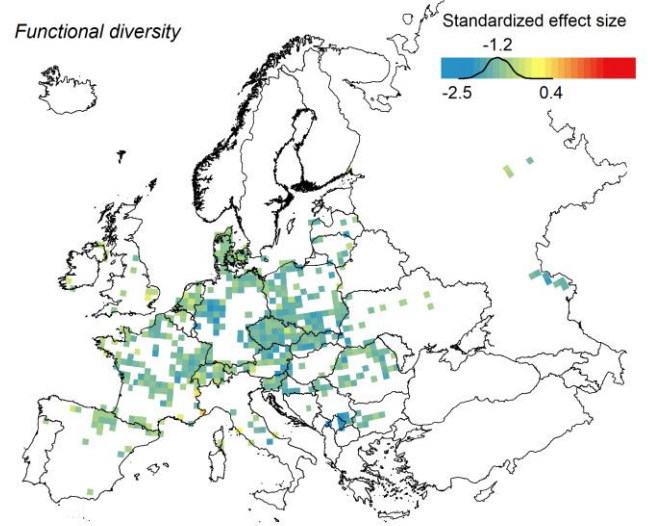


(C)

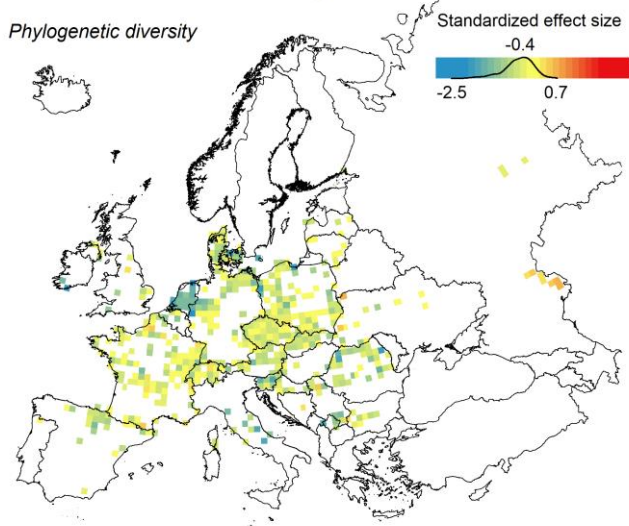
### Plant height ~ Wet



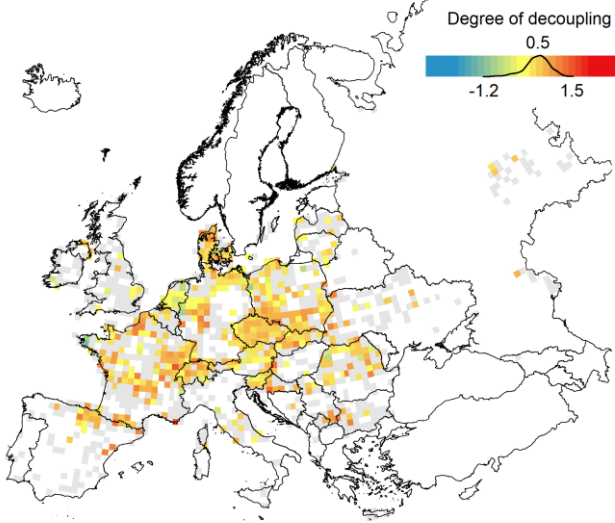
### Plant height ~ Wet



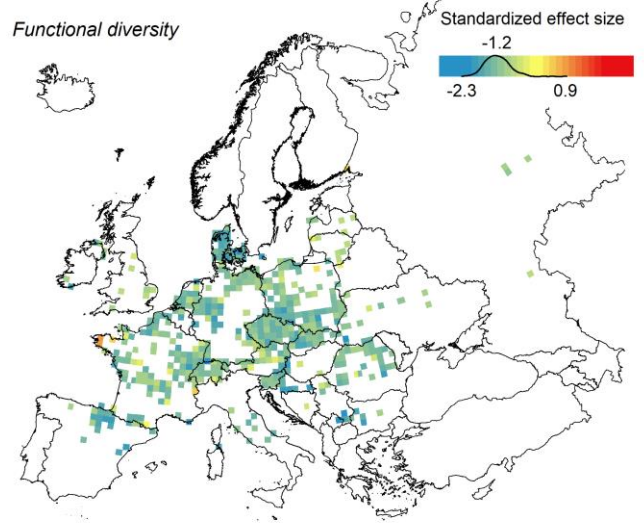
### Plant height ~ Wet



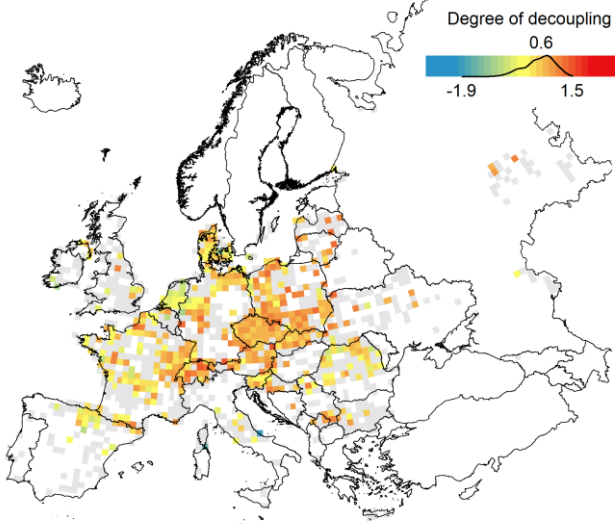
**Leaf area ~ Wet**



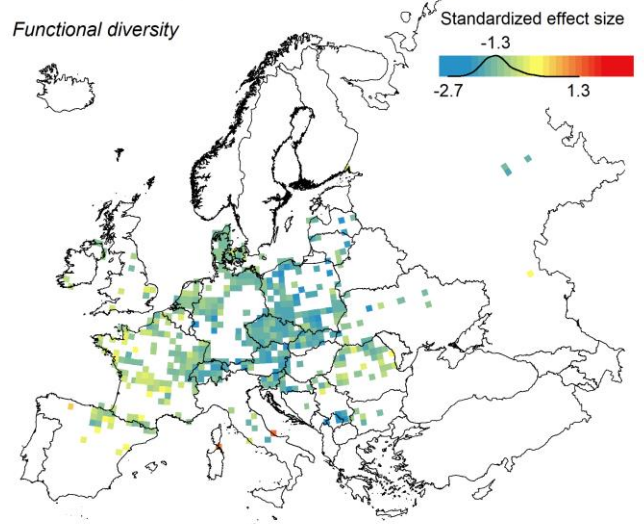
**Leaf area ~ Wet**



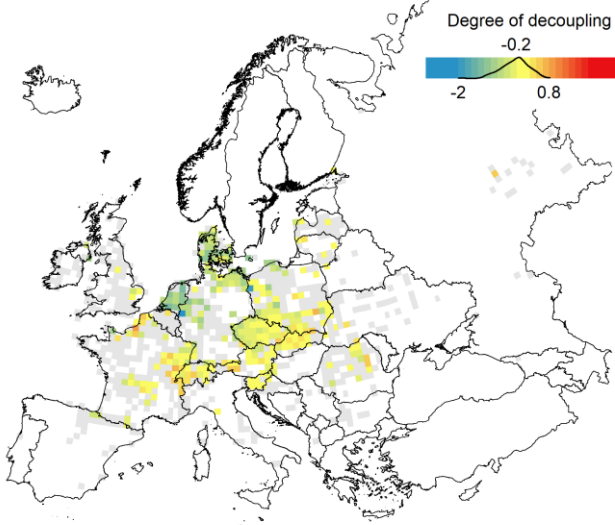
**Specific leaf area ~ Wet**



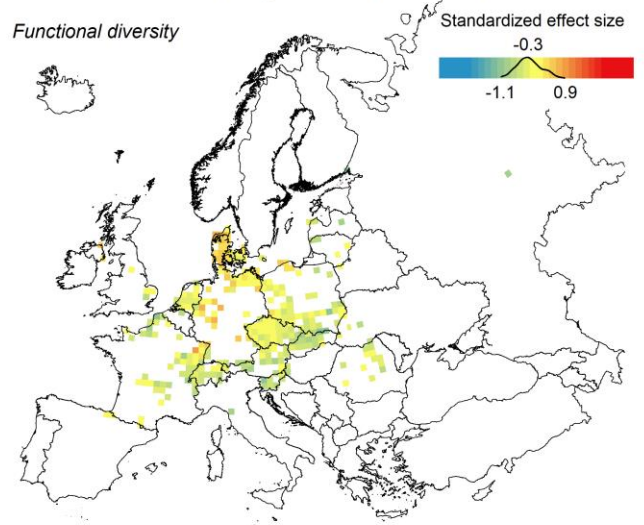
**Specific leaf area ~ Wet**



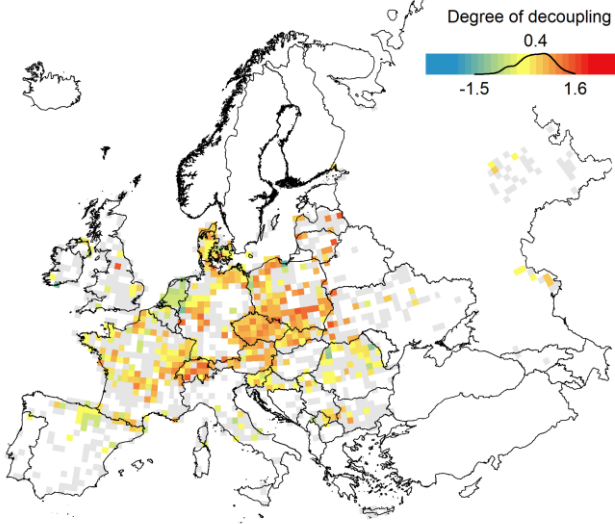
**Leaf nitrogen content ~ Wet**



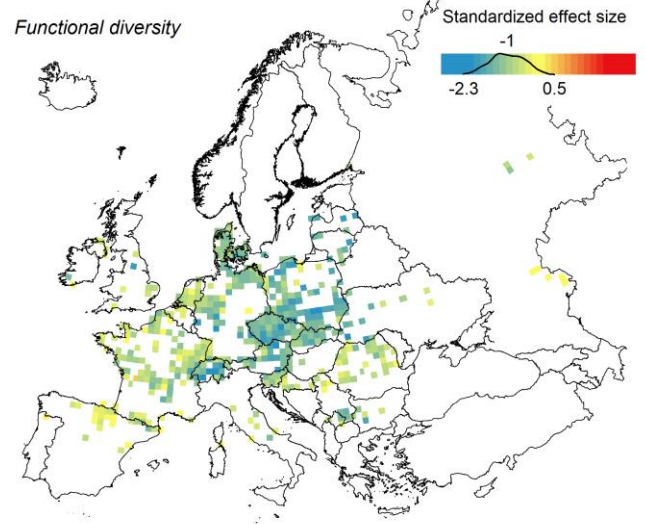
**Leaf nitrogen content ~ Wet**



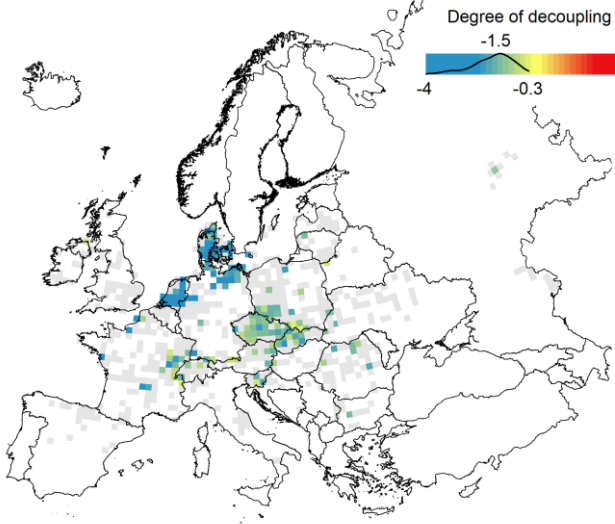
**Seed mass ~ Wet**



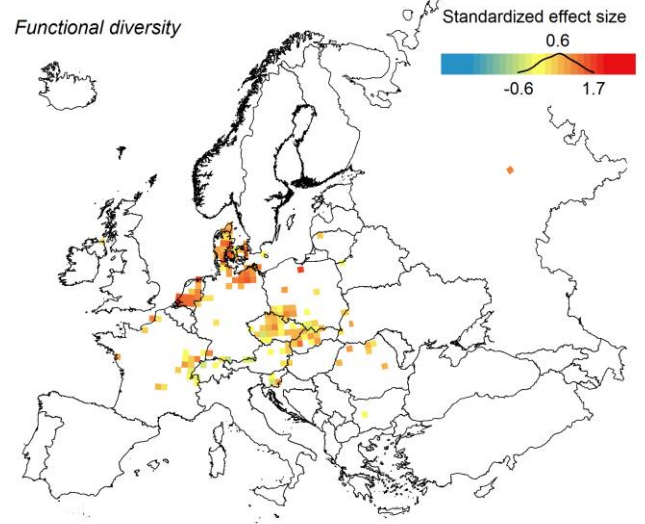
**Seed mass ~ Wet**



**Lateral spread ~ Wet**

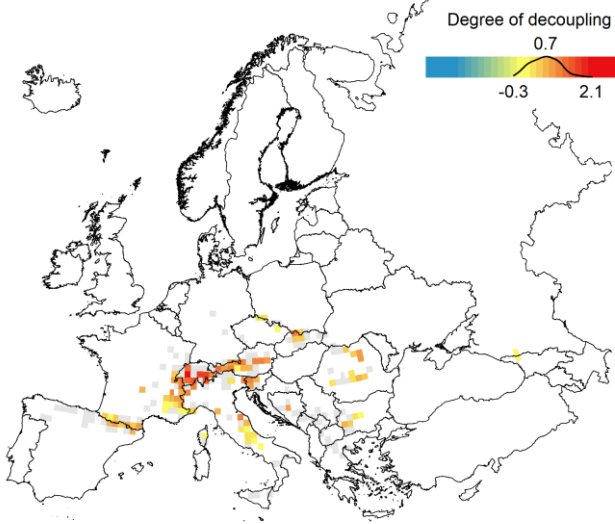


**Lateral spread ~ Wet**

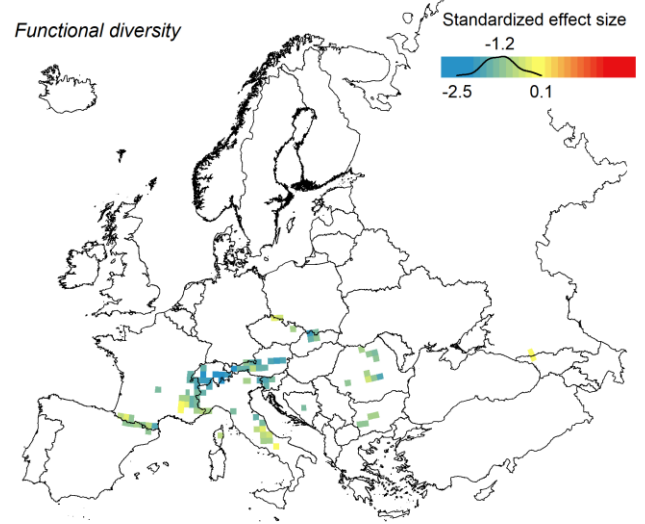


(D)

**Plant height ~ Alpine**

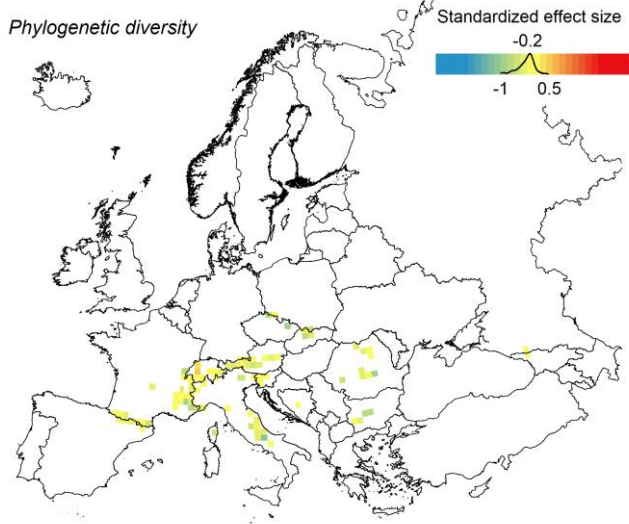


**Plant height ~ Alpine**

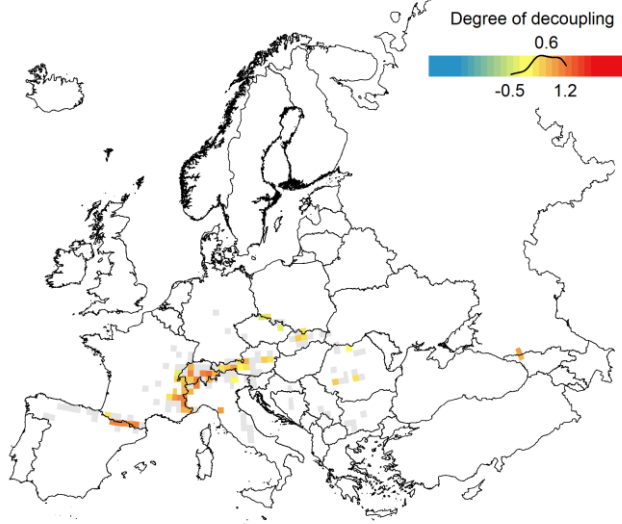




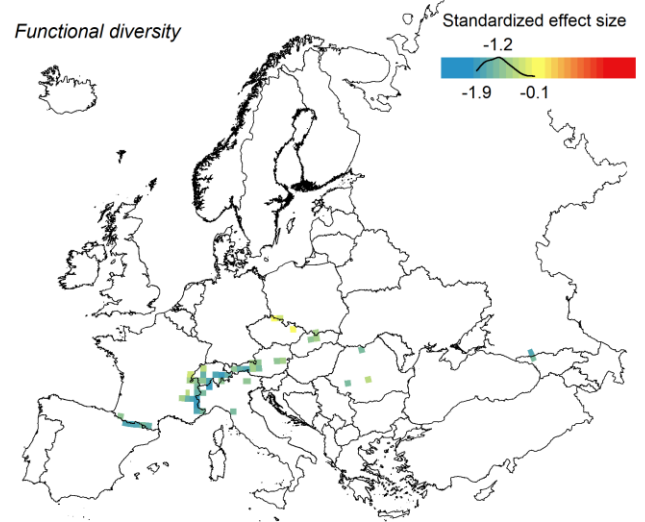
### Plant height ~ Alpine



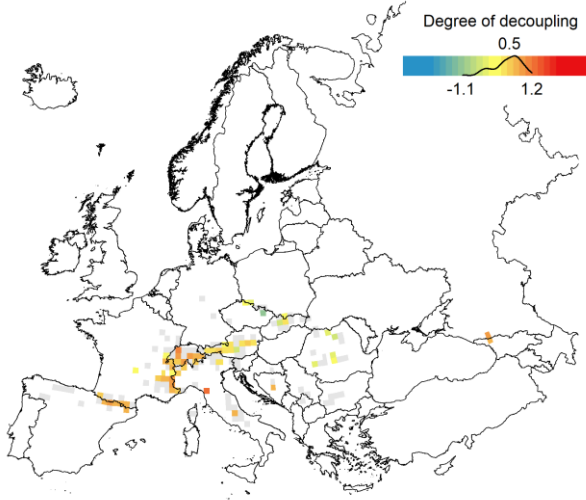
### Leaf area ~ Alpine



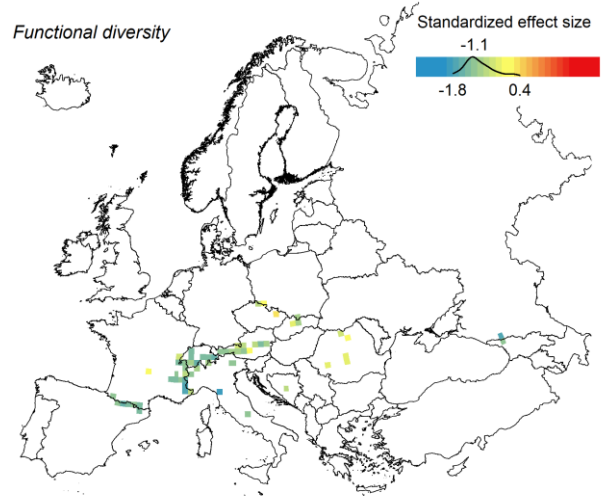
### Leaf area ~ Alpine



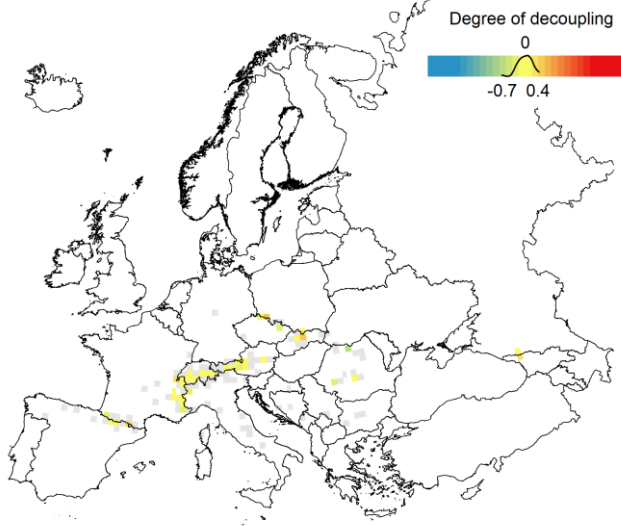
### Specific leaf area ~ Alpine



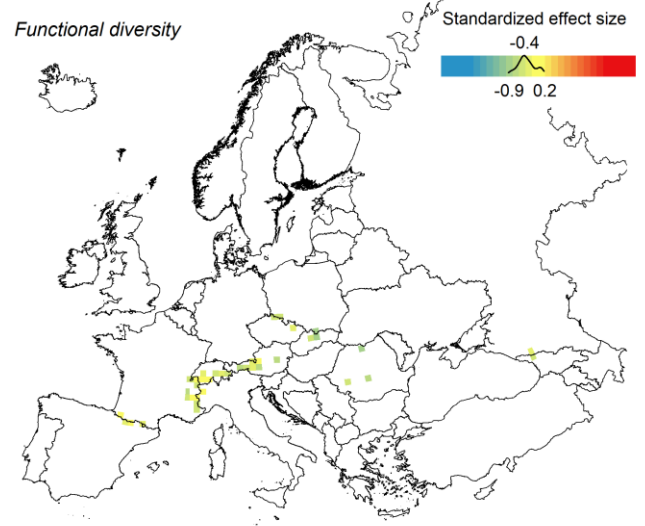
### Specific leaf area ~ Alpine



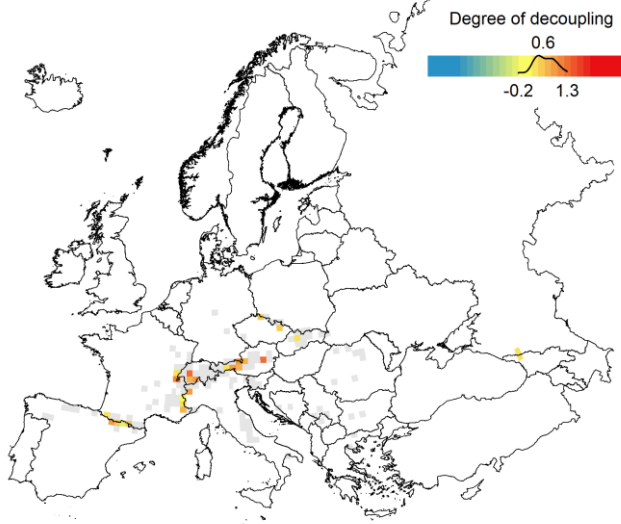
**Leaf nitrogen content ~ Alpine**



**Leaf nitrogen content ~ Alpine**



**Seed mass ~ Alpine**



**Seed mass ~ Alpine**

