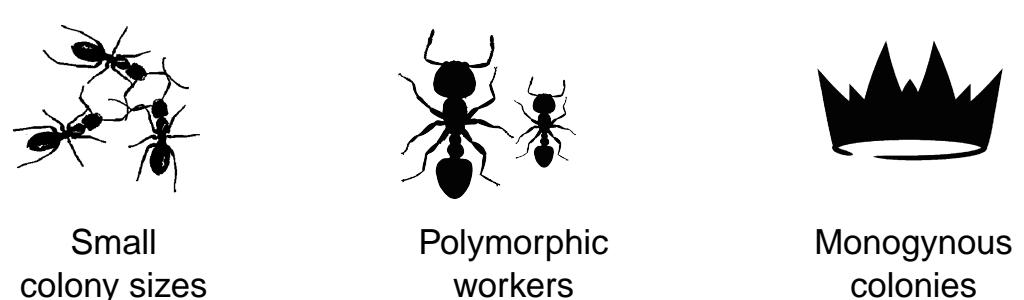
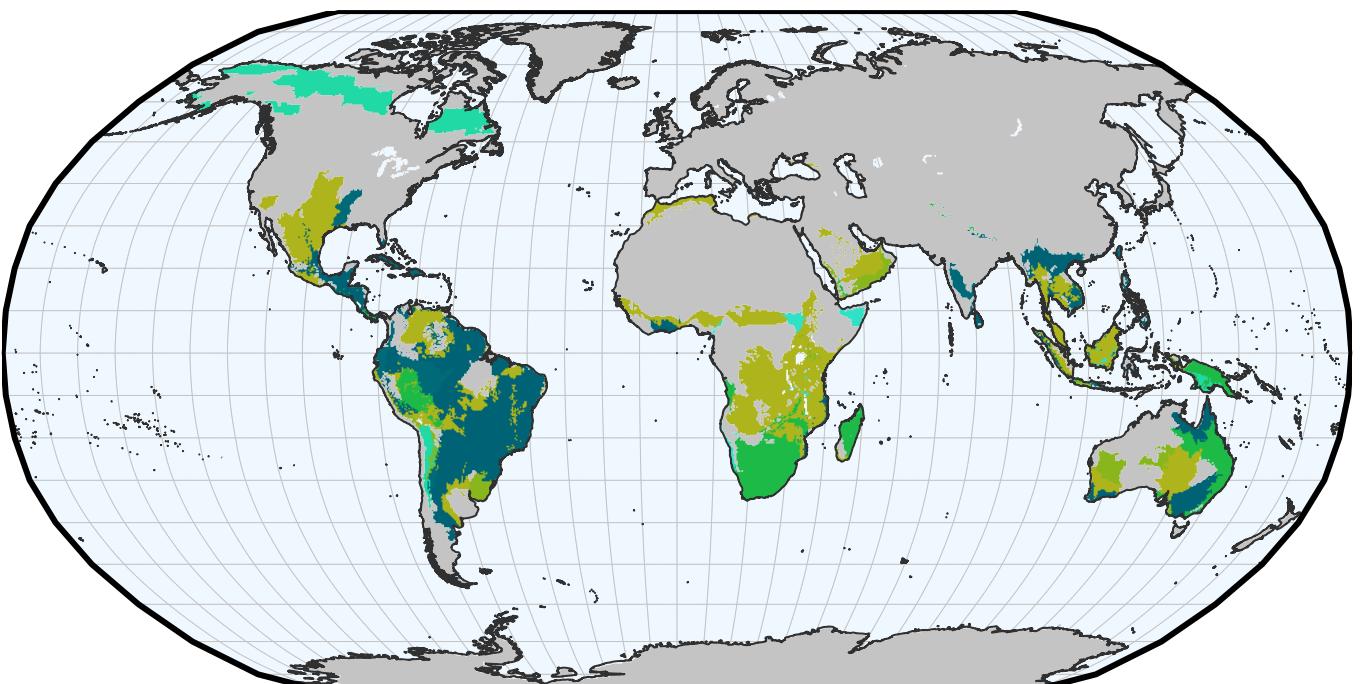
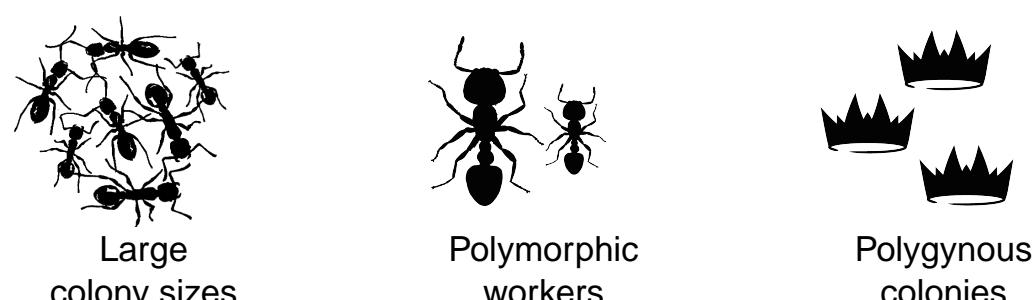
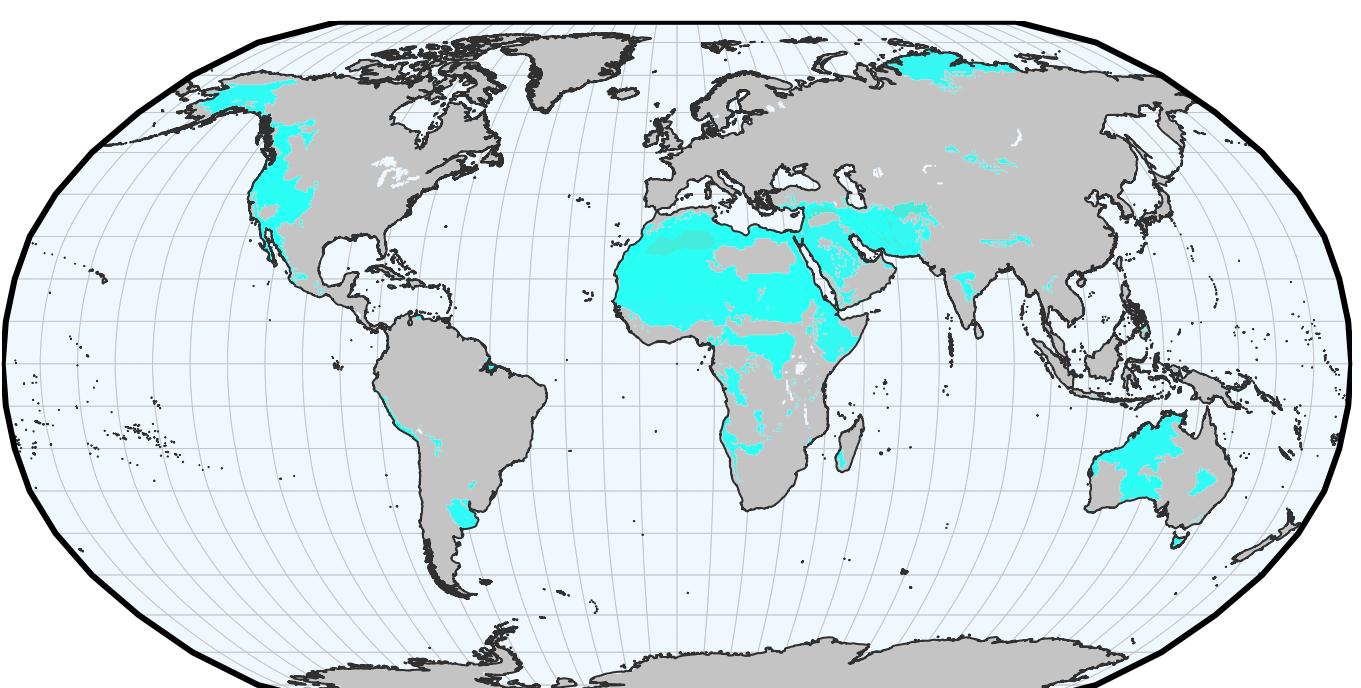


# Social Trait Compositions

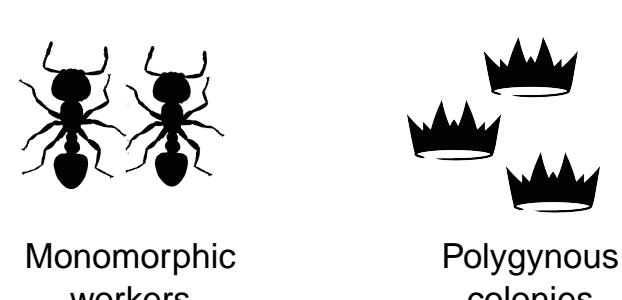
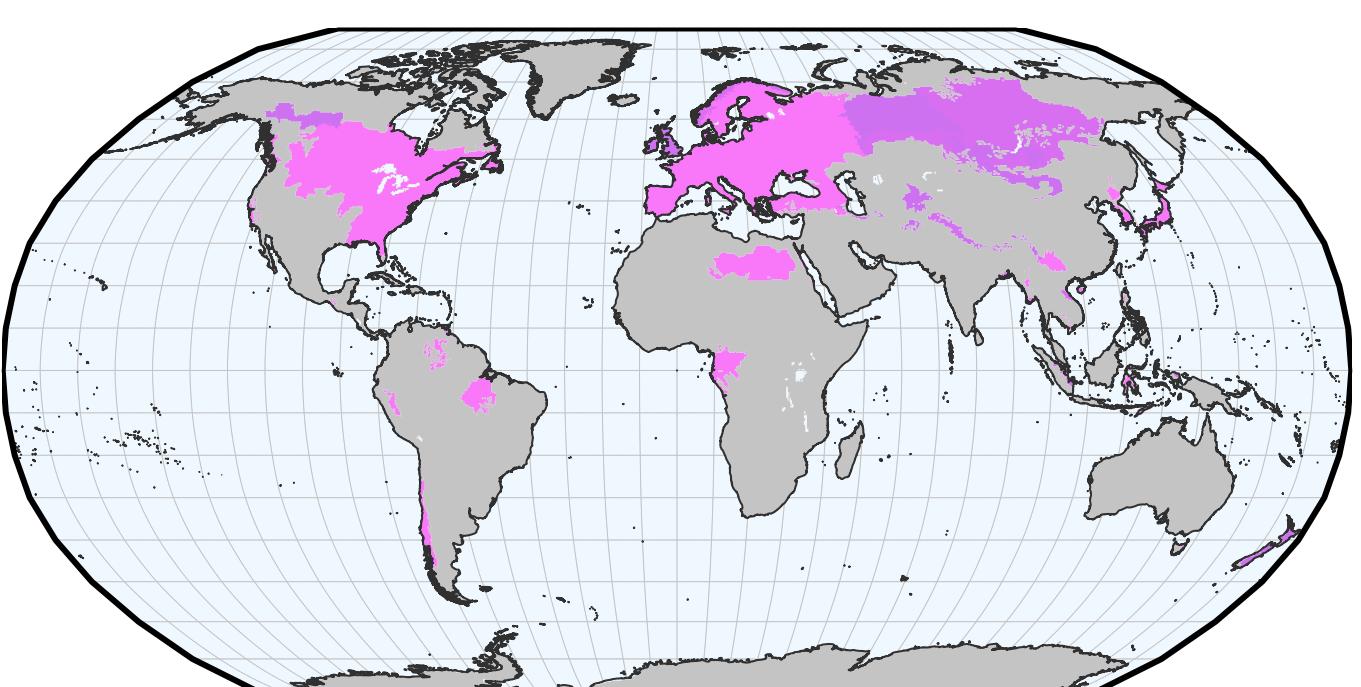
**Group 1** ( $n_{\text{ecoregions}}=294$ ;  $n_{\text{species}}=2818$ )



**Group 2** ( $n_{\text{ecoregions}}=129$ ;  $n_{\text{species}}=1458$ )

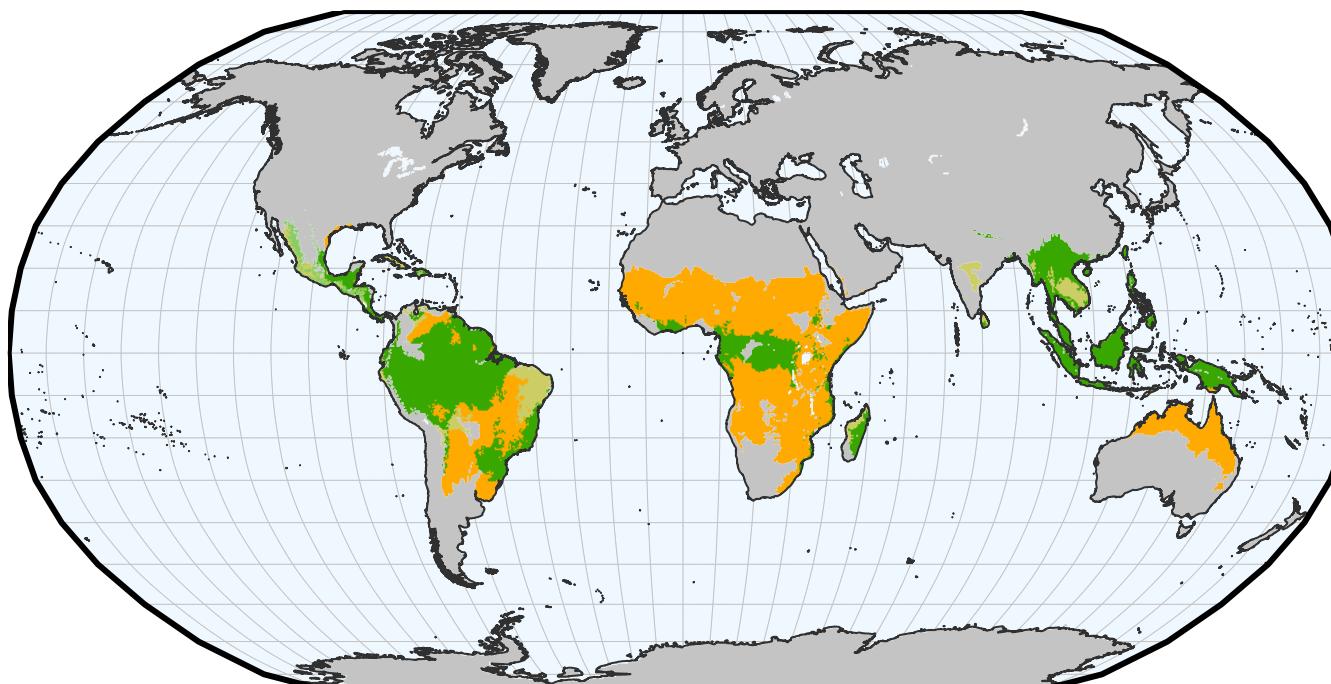


**Group 3** ( $n_{\text{ecoregions}}=168$ ;  $n_{\text{species}}=1348$ )



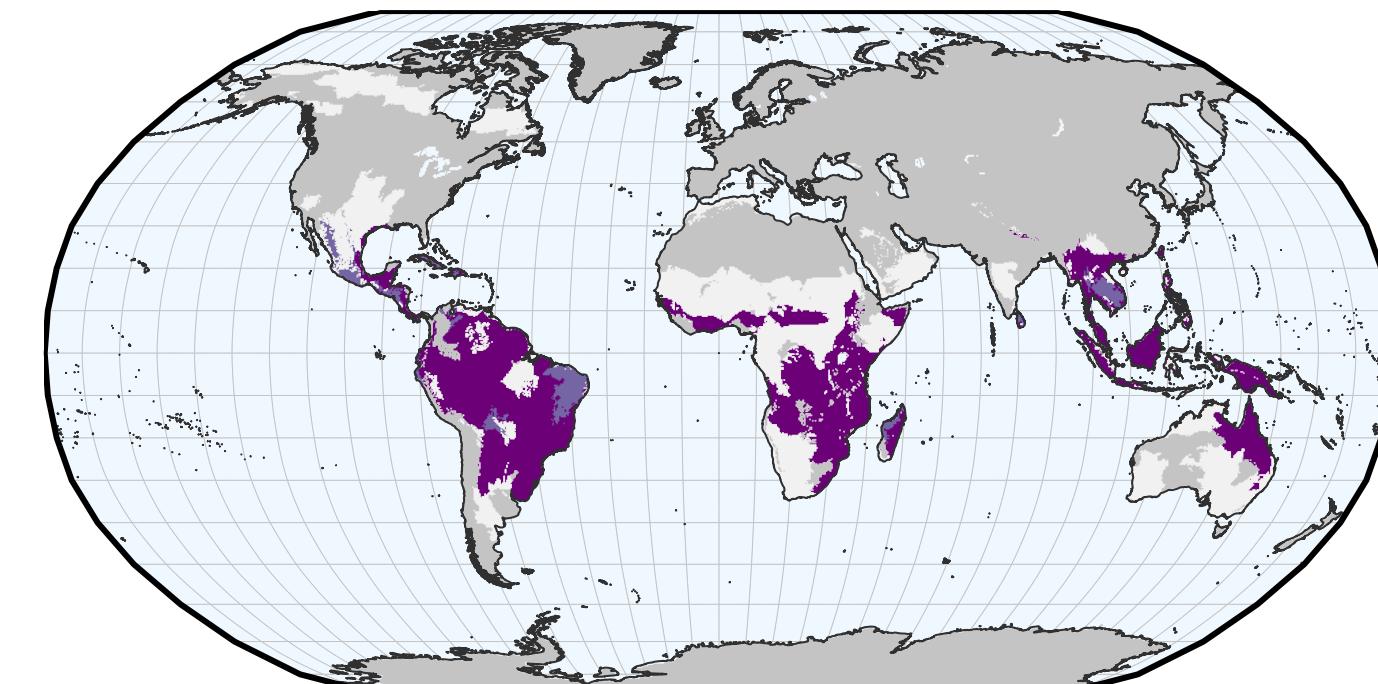
# Biomes

**Tropical** ( $n_{\text{ecoregions}}=269$ )



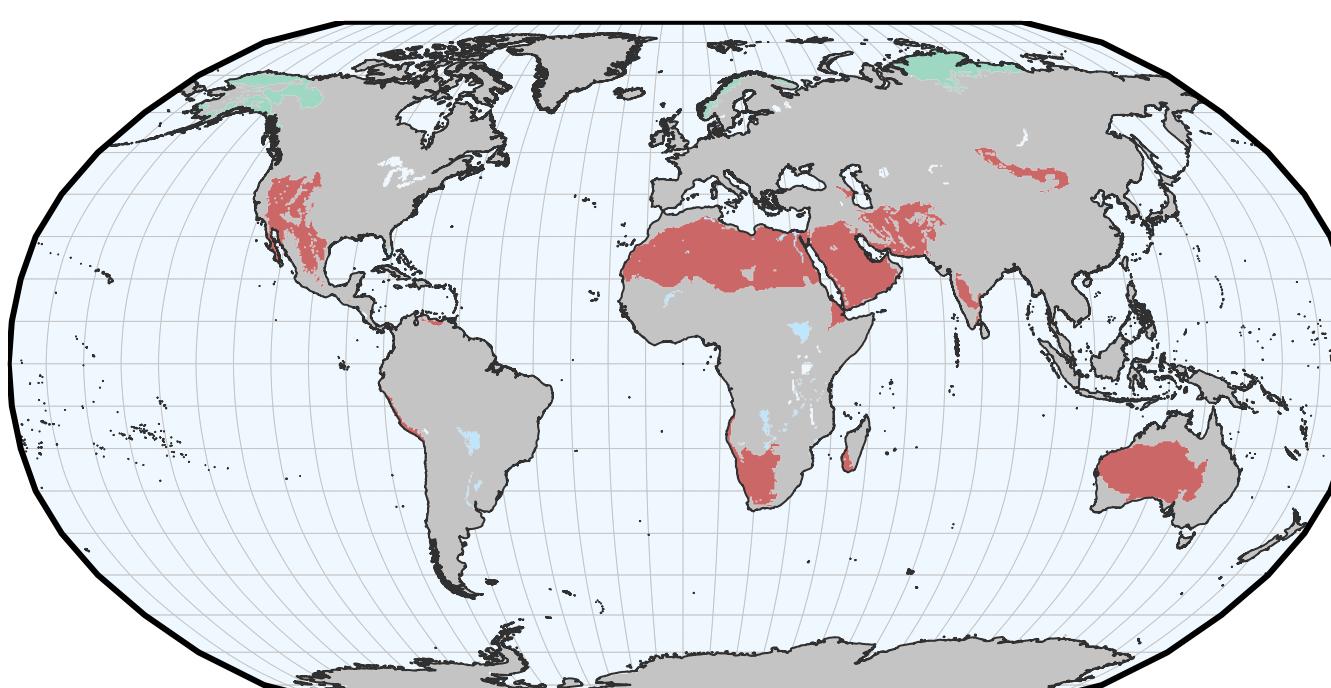
# Congruence

**Group 1 x Tropical** ( $n_{\text{ecoregions}}=204$ )

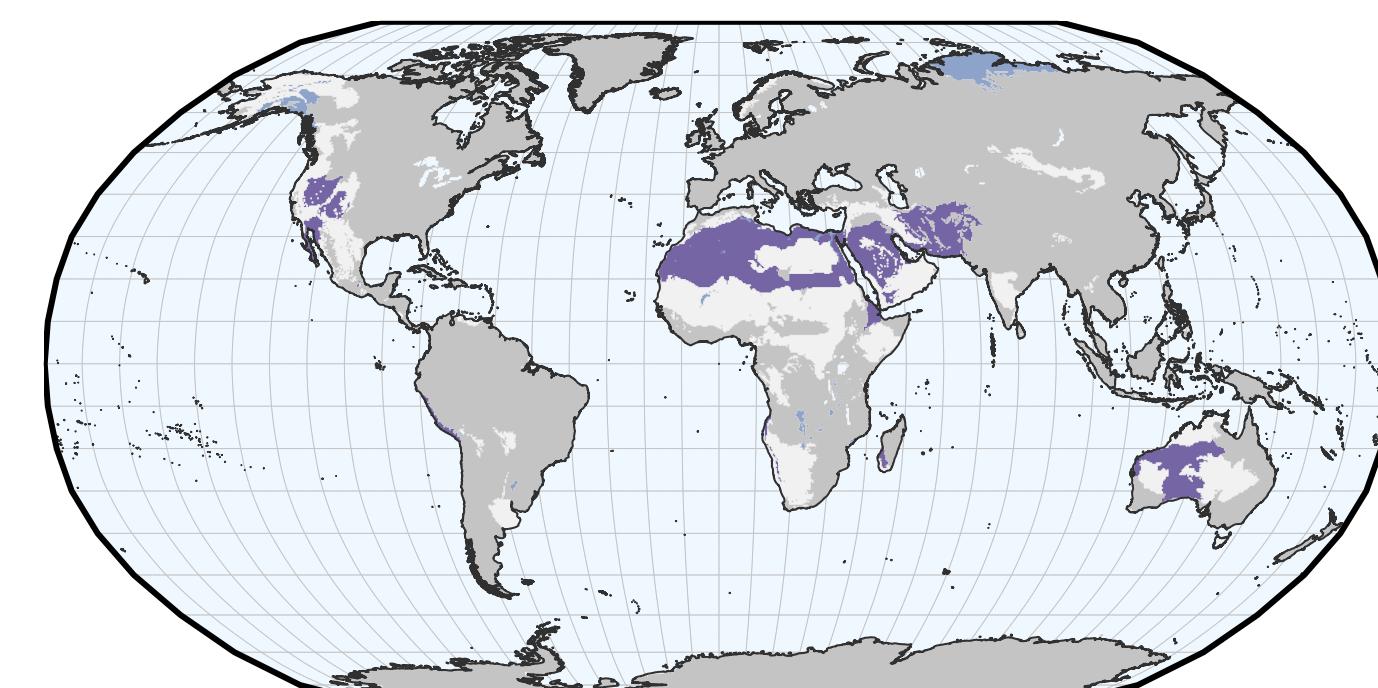


Support ( $S_{1\%}$ )  
Non matching ecoregions  
Balanced Accuracy = 0.75  
 $F_1 = 0.74$

**Desertic** ( $n_{\text{ecoregions}}=97$ )

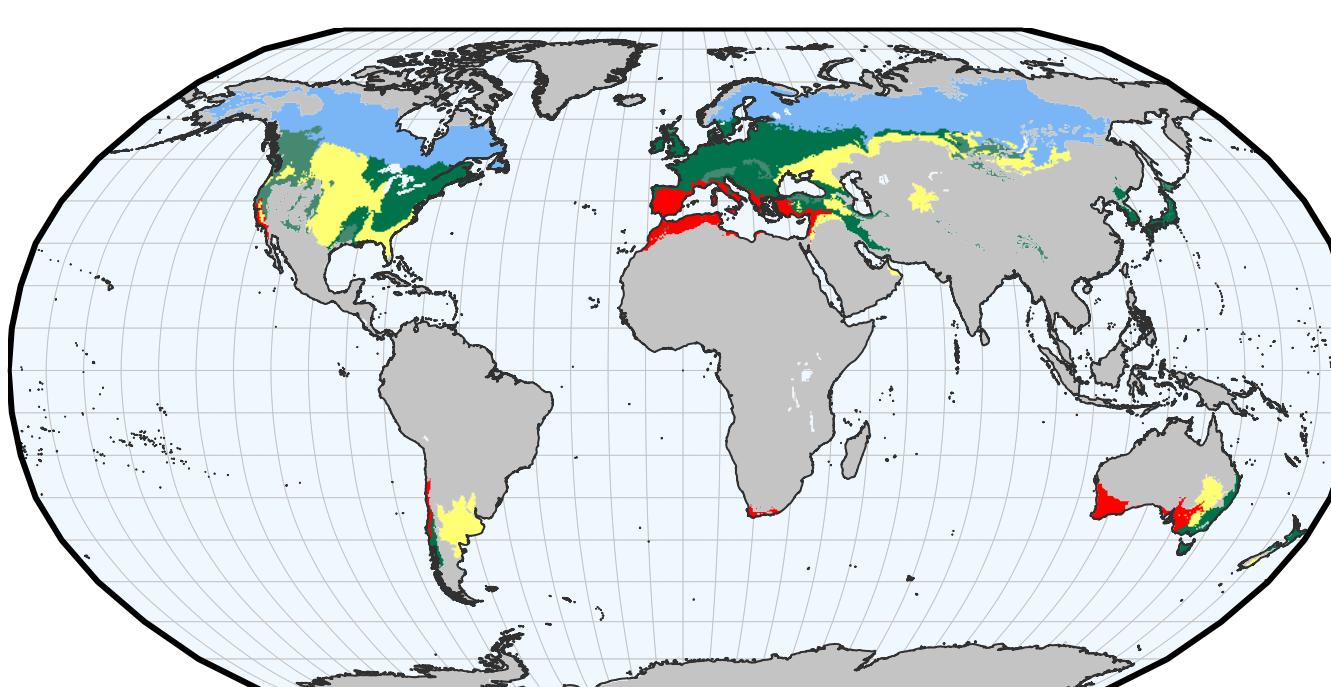


**Group 2 x Desertic** ( $n_{\text{ecoregions}}=46$ )

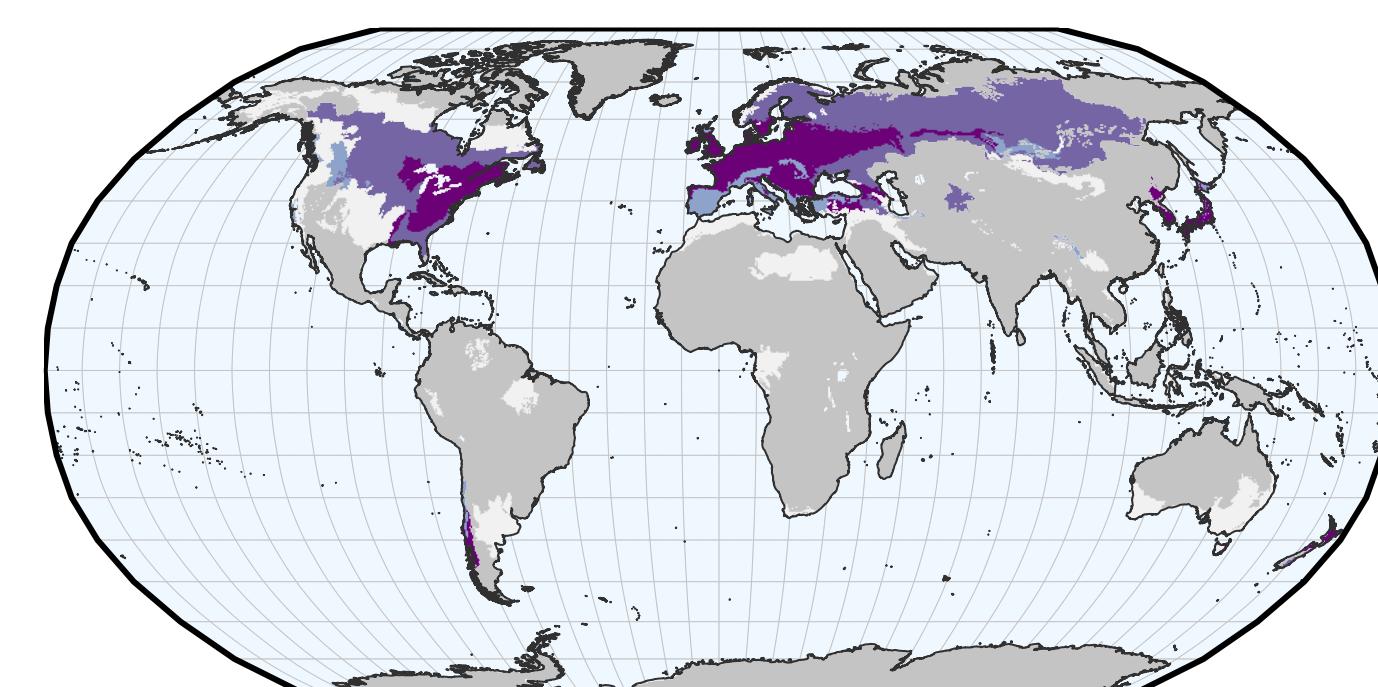


Support ( $S_{1\%}$ )  
Non matching ecoregions  
Balanced Accuracy = 0.66  
 $F_1 = 0.42$

**Temperate** ( $n_{\text{ecoregions}}=195$ )



**Group 3 x Temperate** ( $n_{\text{ecoregions}}=119$ )



Support ( $S_{1\%}$ )  
Non matching ecoregions  
Balanced Accuracy = 0.75  
 $F_1 = 0.67$