

El-Gabbas, A. (2026). **A global, taxon-stratified, high-resolution sampling-effort dataset from GBIF for bias-aware ecological modelling.** Diversity and distributions.

– Appendix 2 –

Global patterns of species and observation distributions per taxonomic group

Taxon-specific spatial patterns of observation count and species richness. For each of the nine major taxonomic groups:

First page: Observation count (top) and species richness (bottom) at ~20 km resolution; both at \log_{10} scale; warmer colours indicate higher values. See Figure 1 for more information.

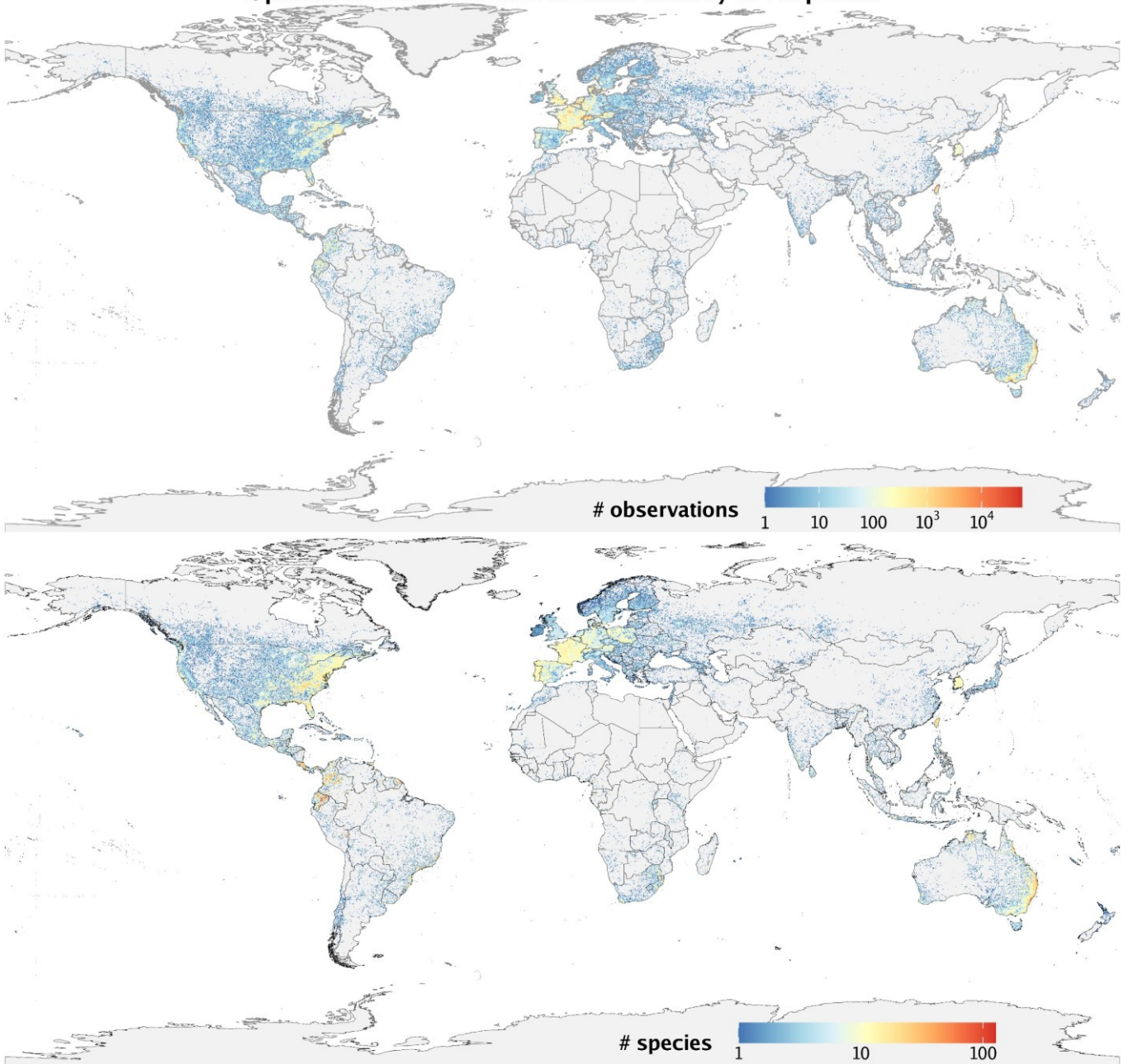
Second plot: three maps; 20 km resolution

- (Top) Grid cells containing the cumulative most-recorded 95% of observations;
- (Middle) Grid cells containing the cumulative least-recorded 5% of observations;
- (Bottom) Unsampled areas (dark grey) with zero observations.

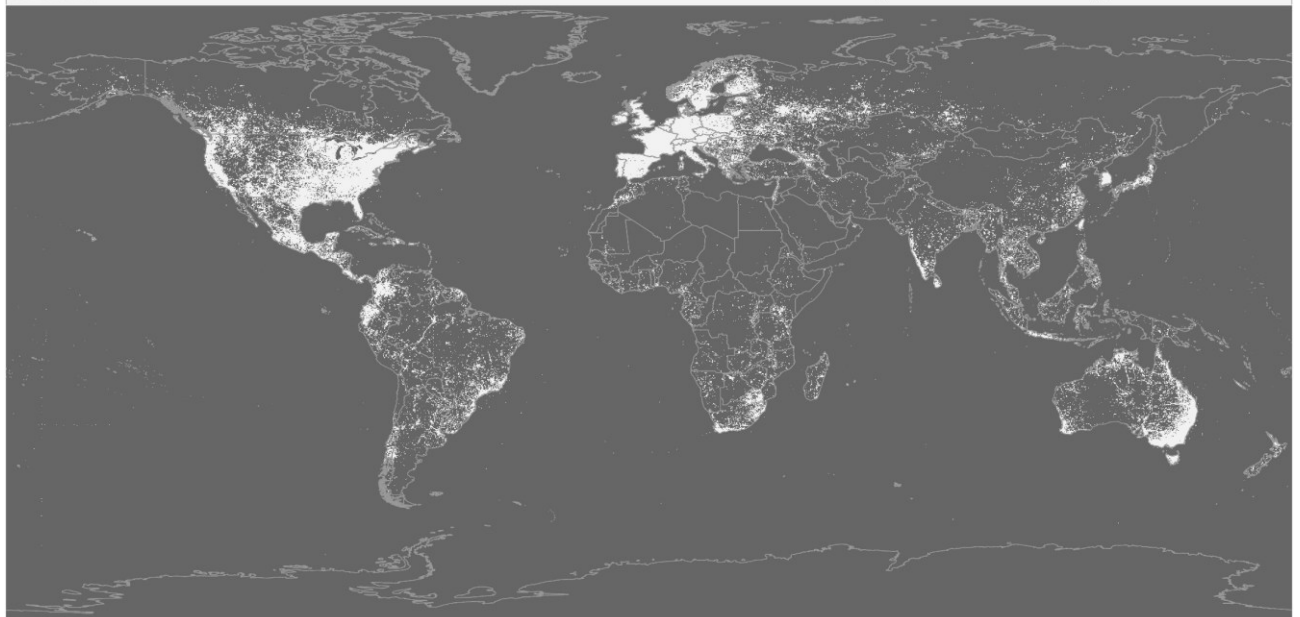
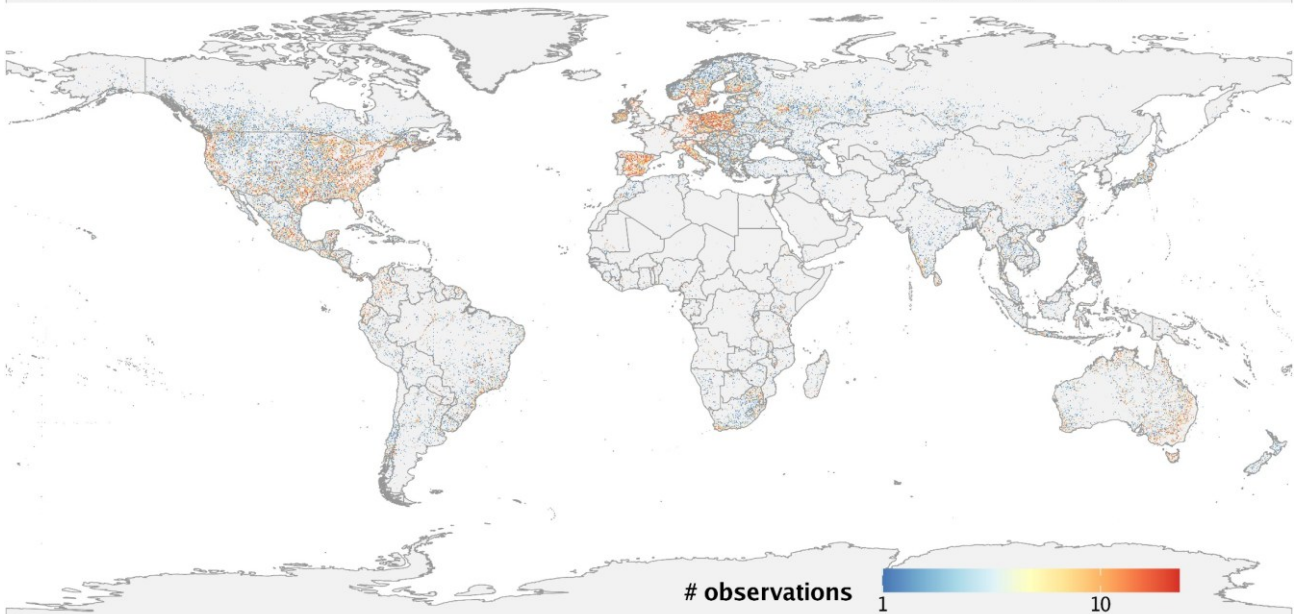
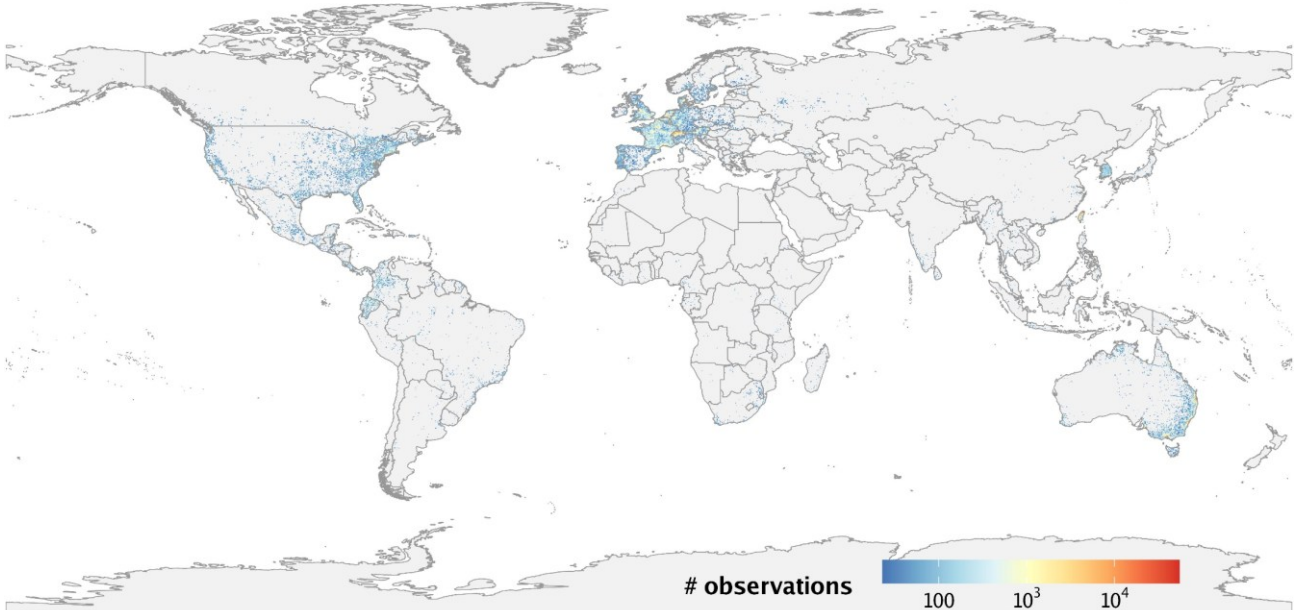
While overall patterns are broadly consistent across taxa, group-specific variations reveal taxonomic heterogeneity in sampling geography. See Figure 3 for more information

Amphibia

Species richness and observation density of Amphibia

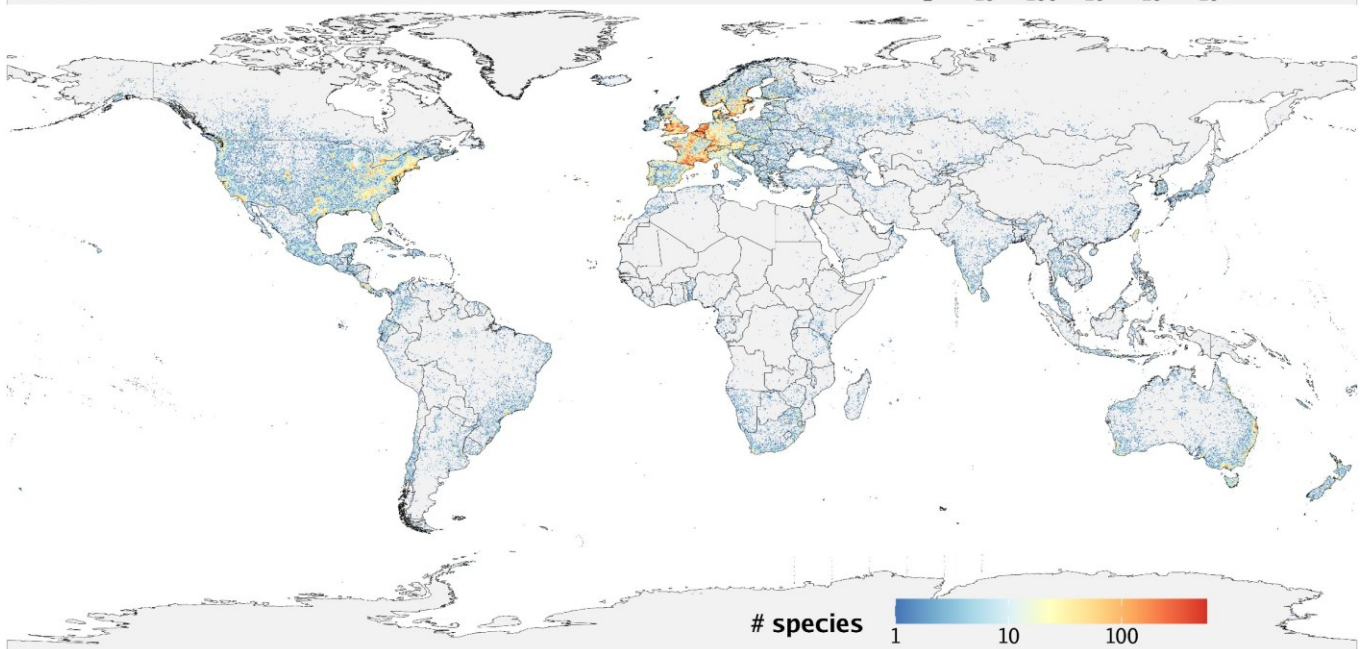
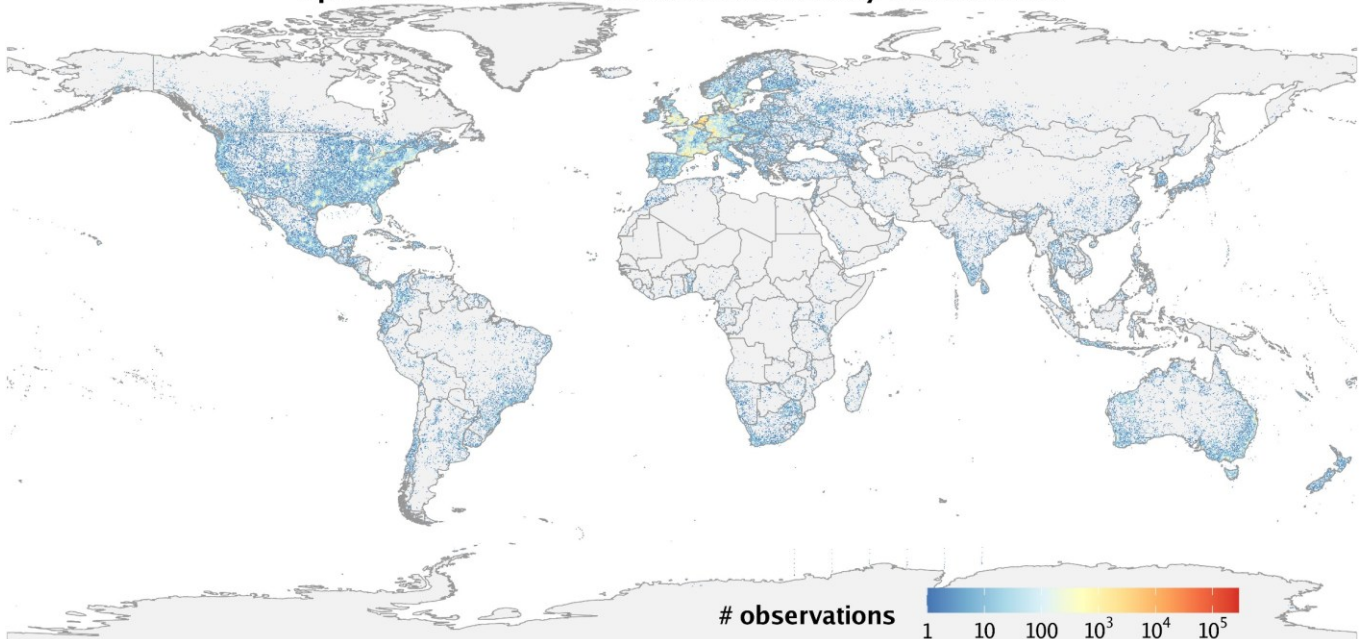


Grid cells contributing to top 95% and lowest 5% of total observations for Amphibia

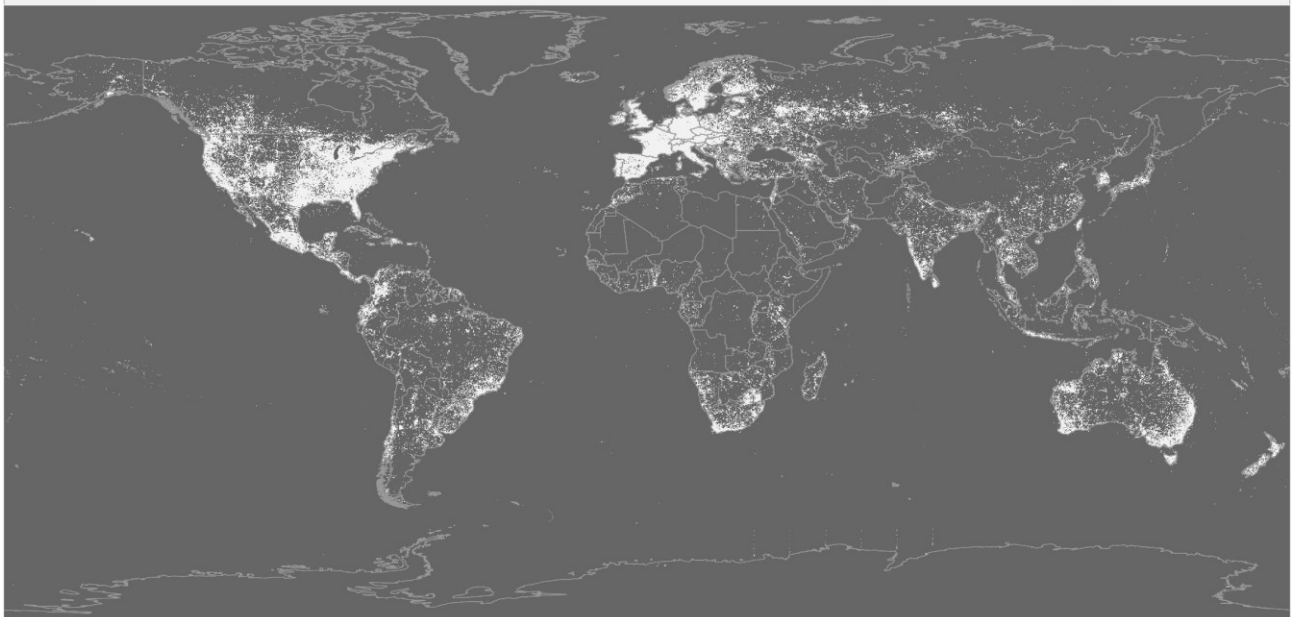
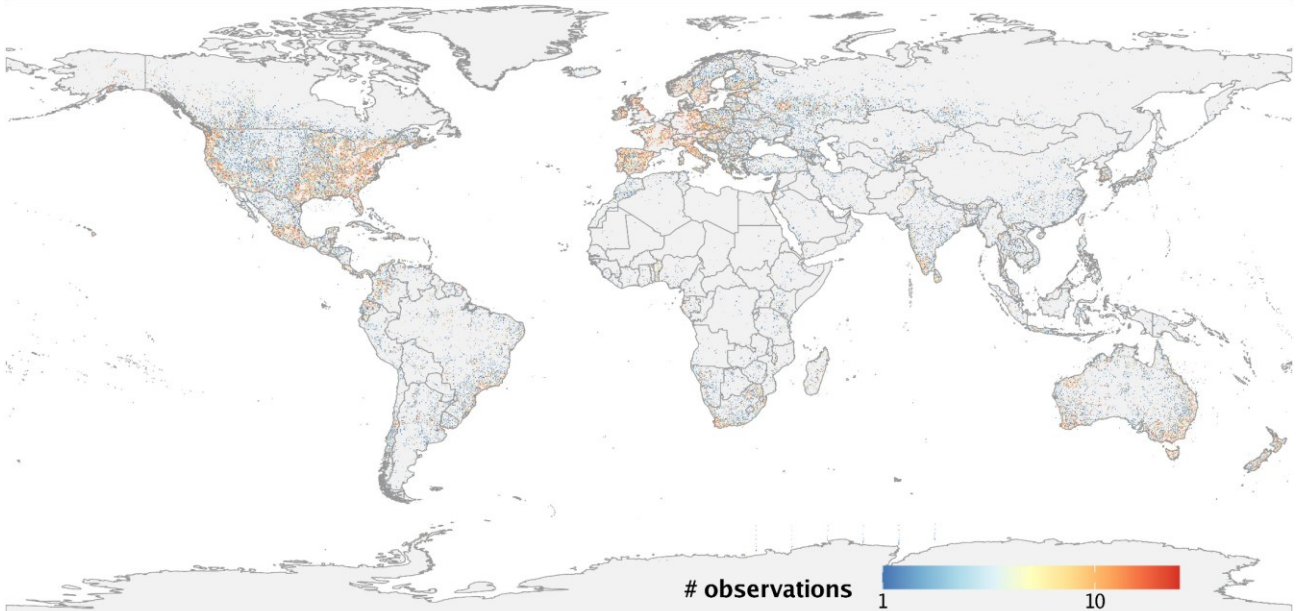
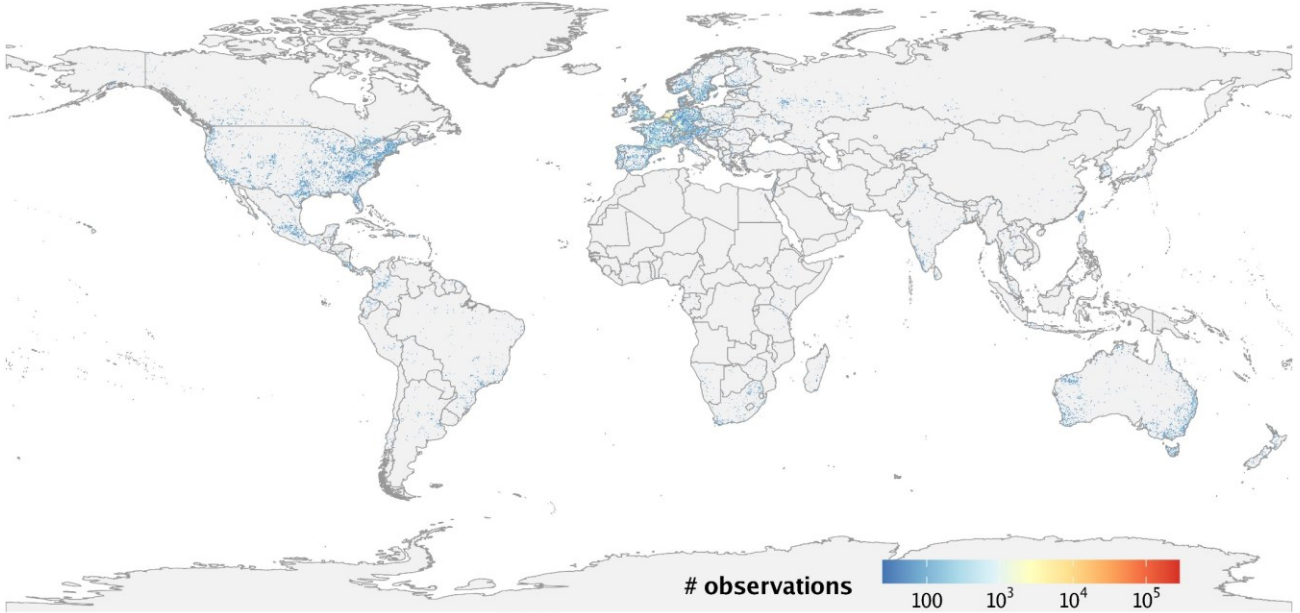


Arachnida

Species richness and observation density of Arachnida

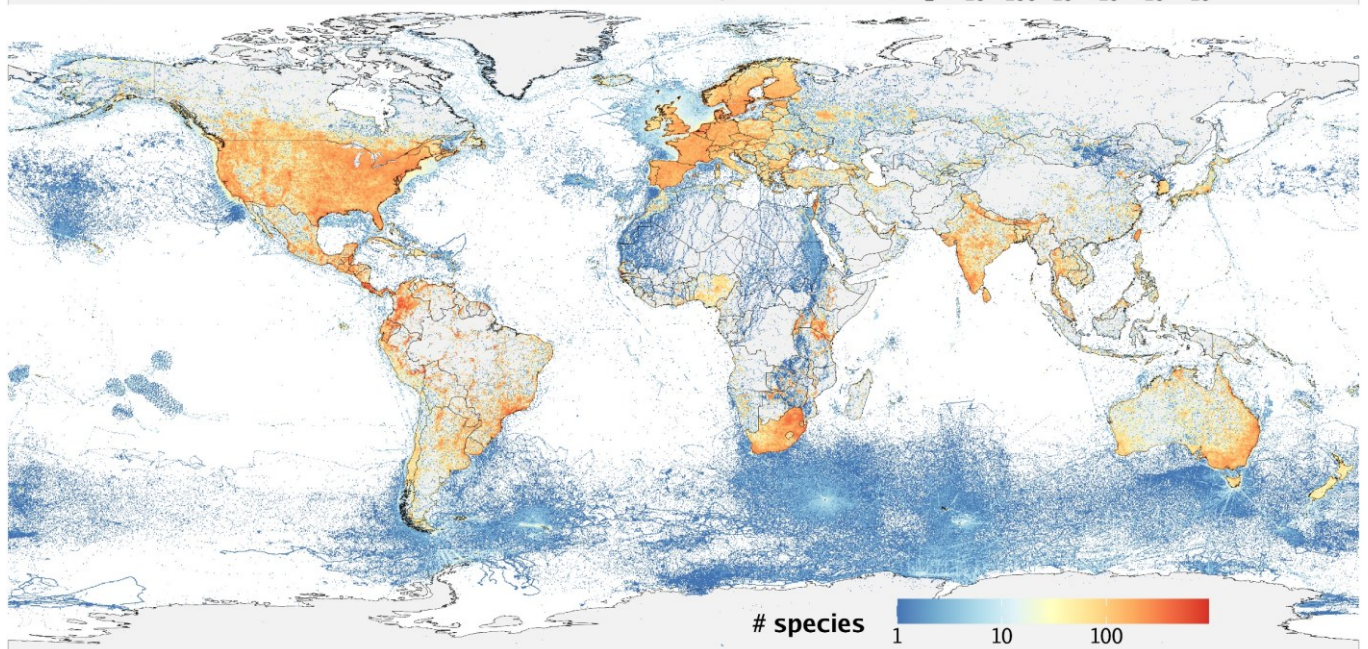
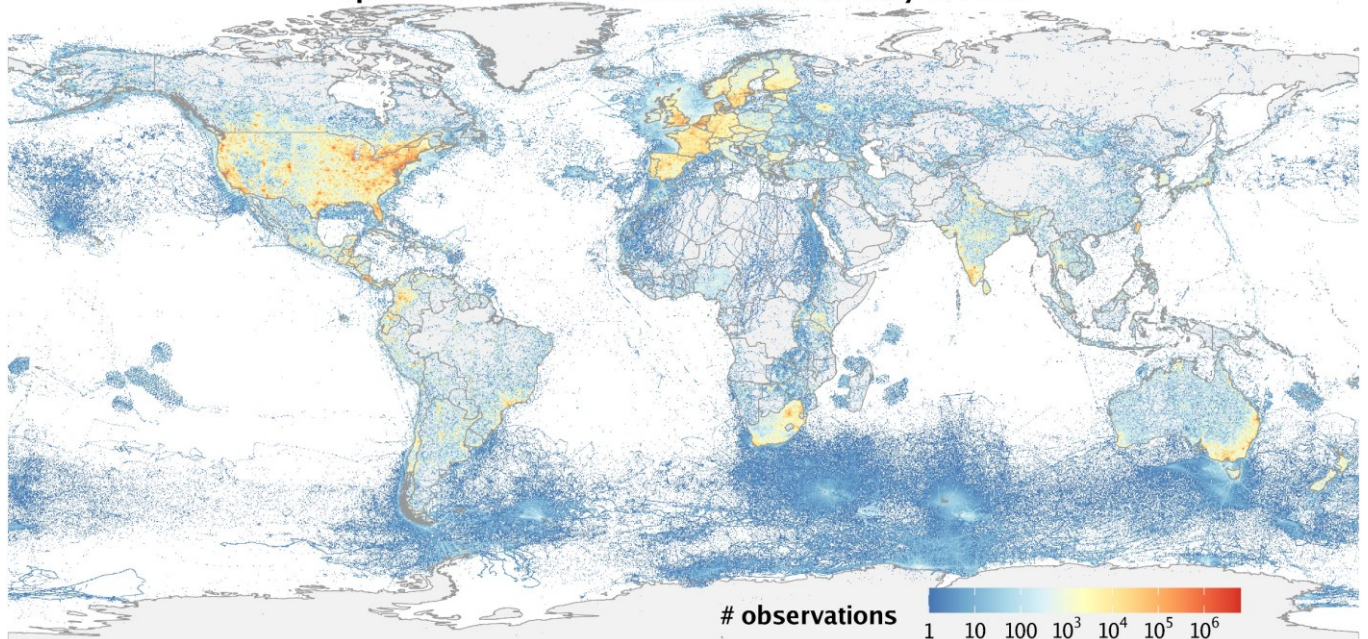


Grid cells contributing to top 95% and lowest 5% of total observations for Arachnida

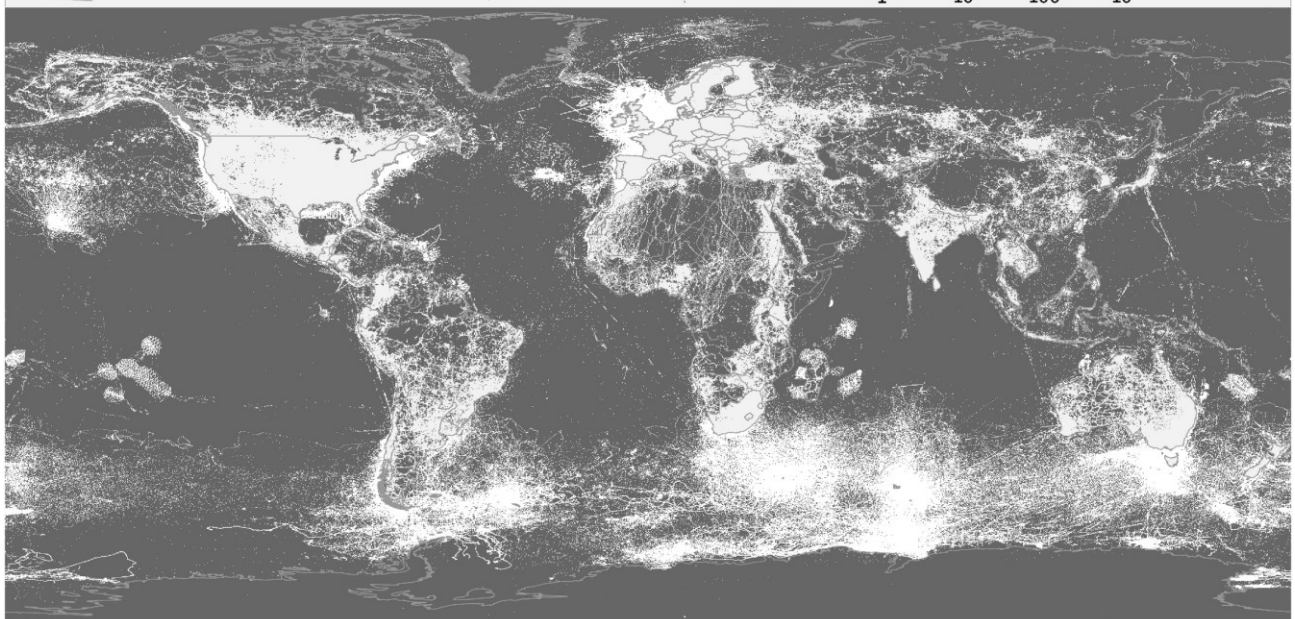
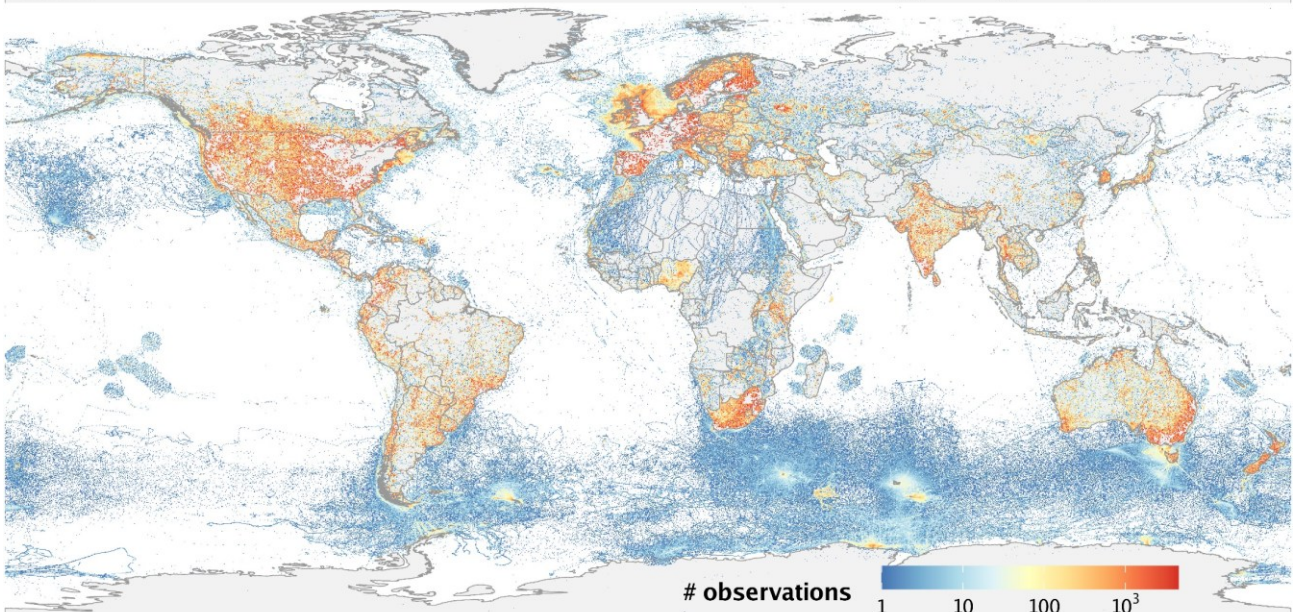
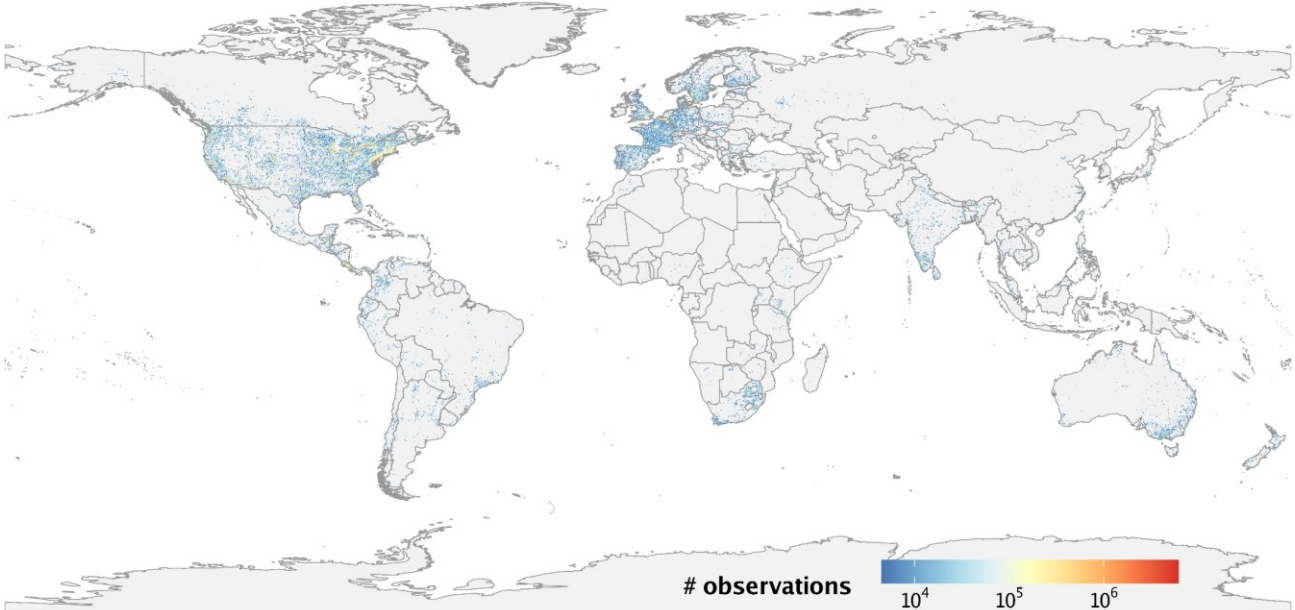


Aves

Species richness and observation density of Aves

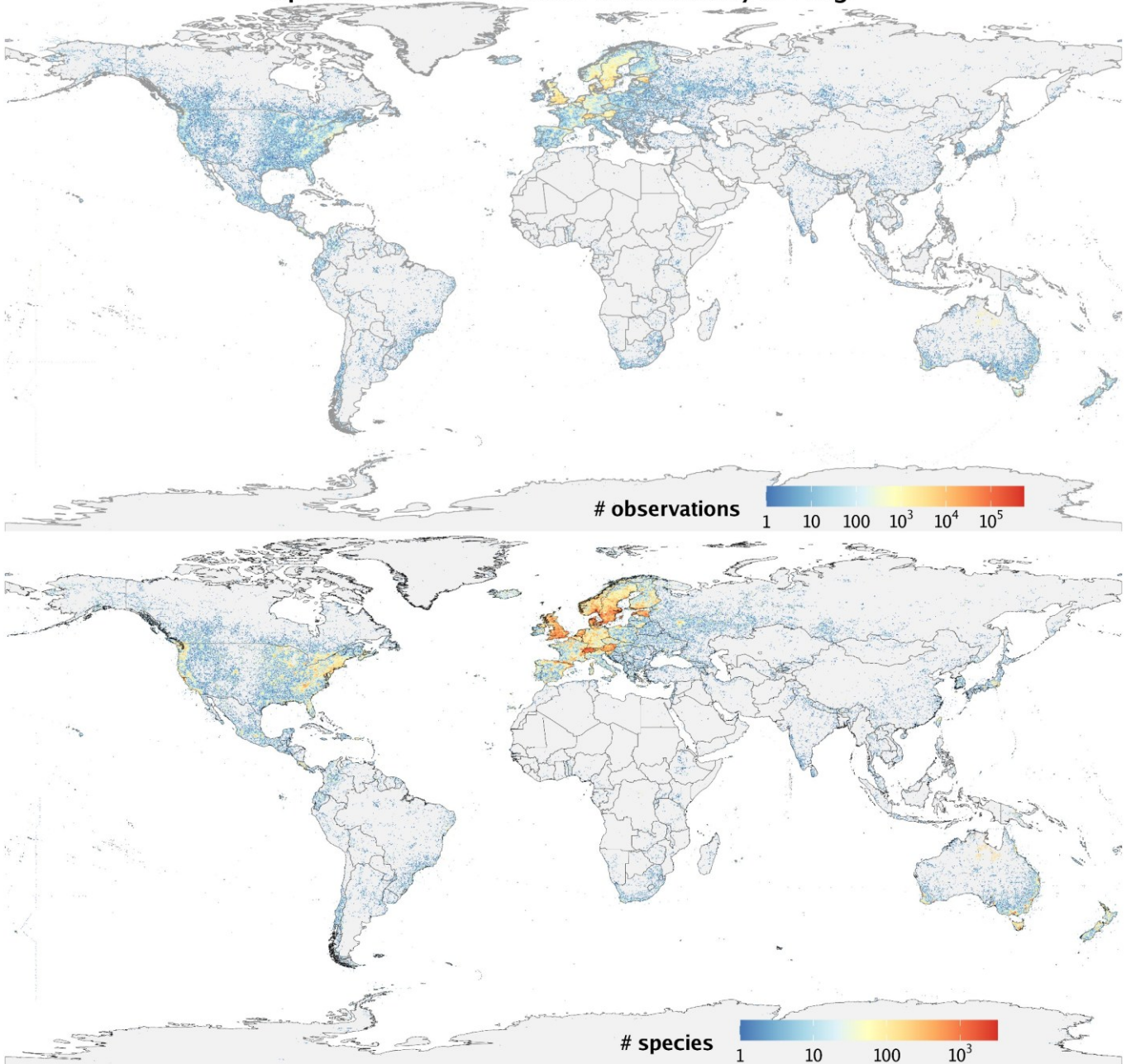


Grid cells contributing to top 95% and lowest 5% of total observations for Aves

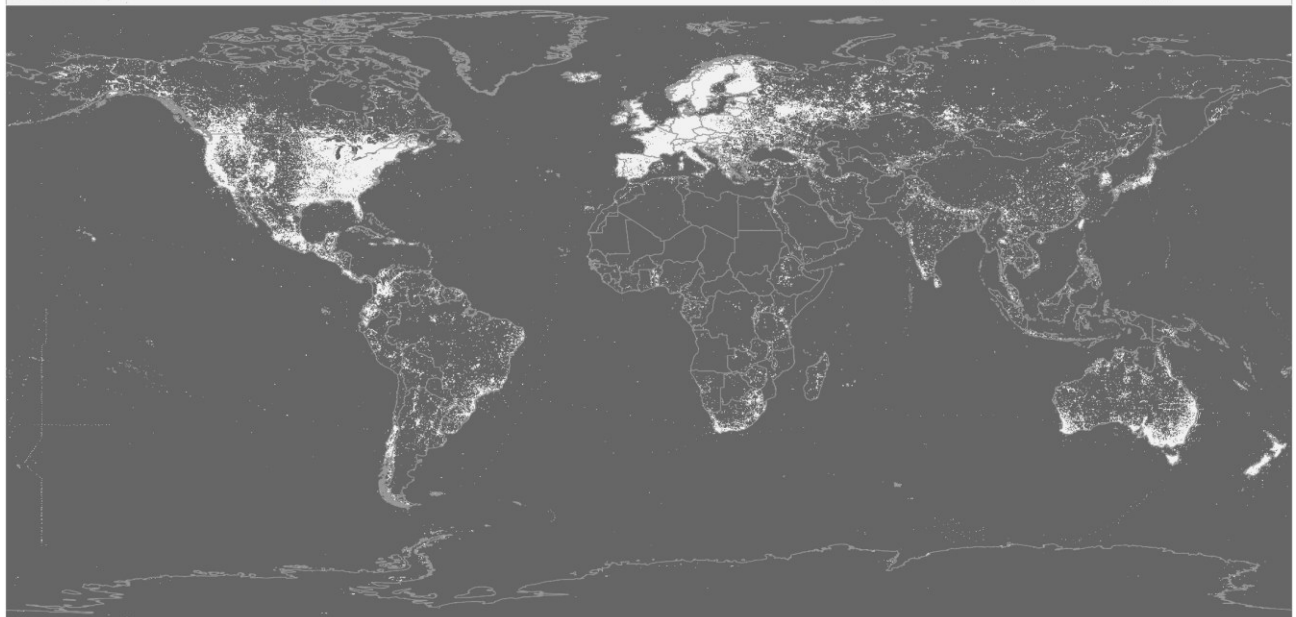
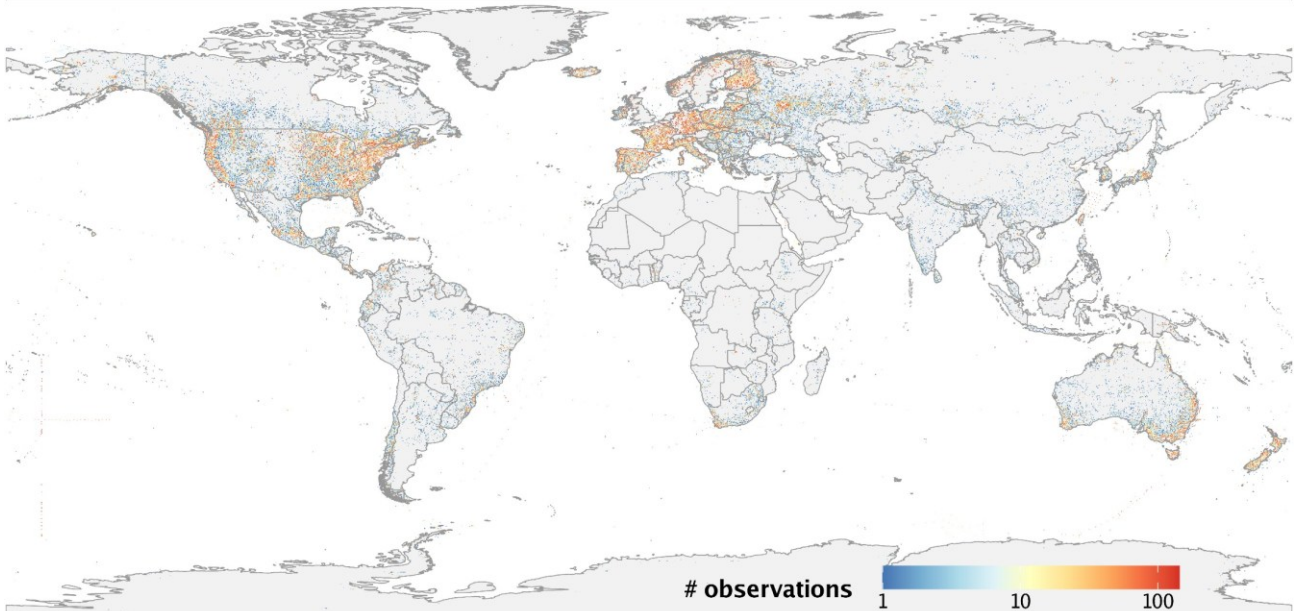
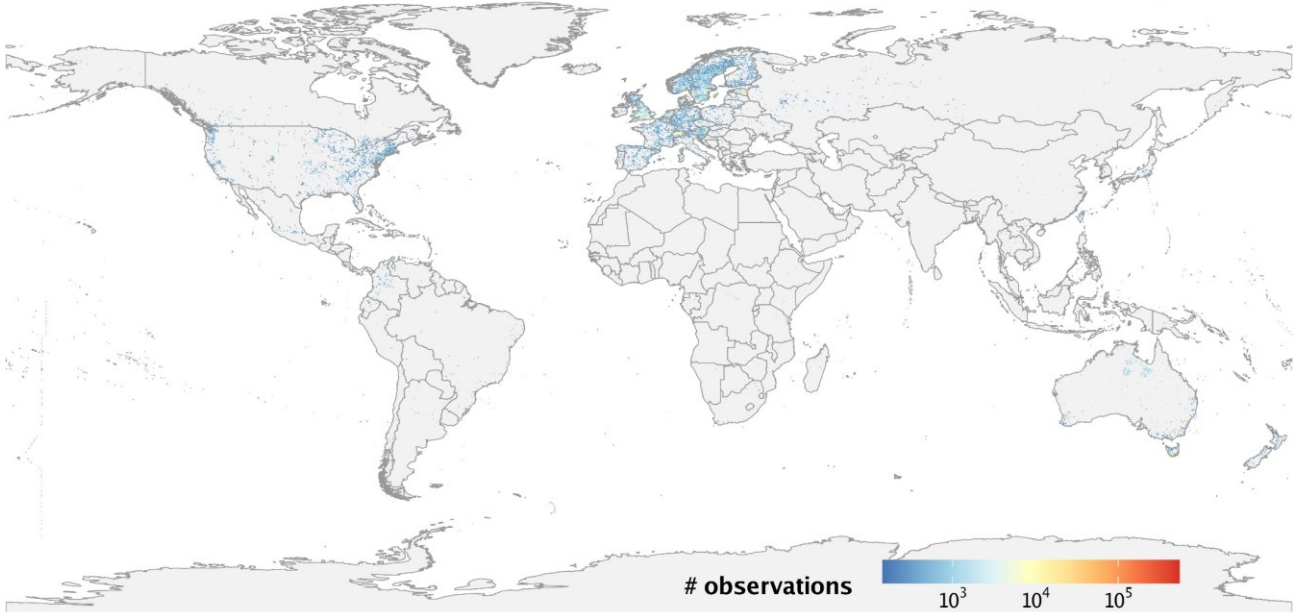


Fungi

Species richness and observation density of Fungi

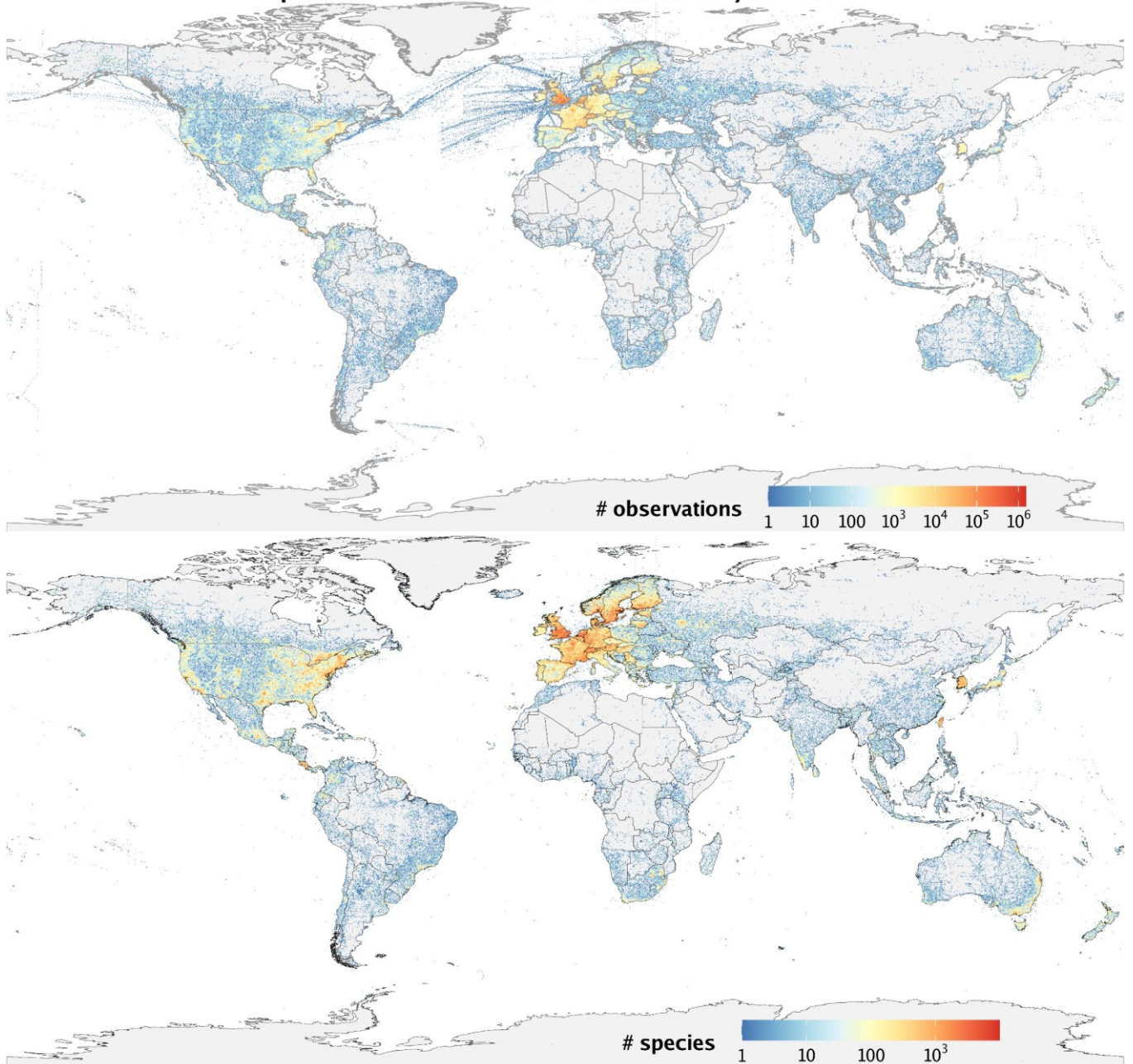


Grid cells contributing to top 95% and lowest 5% of total observations for Fungi

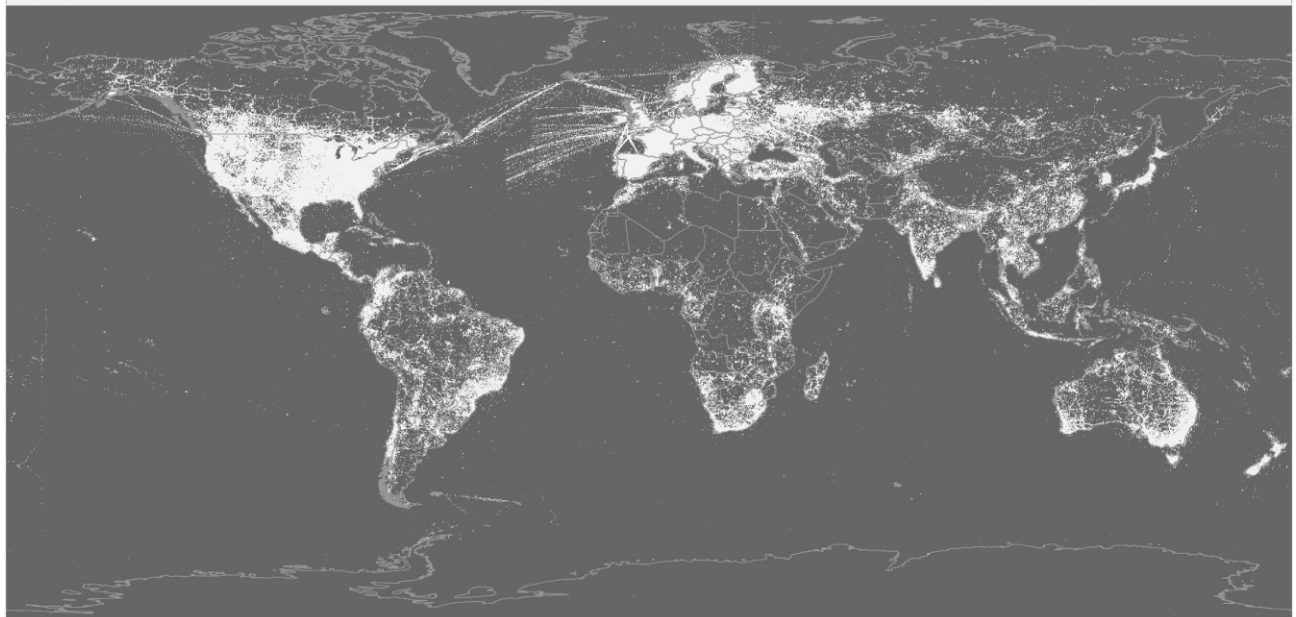
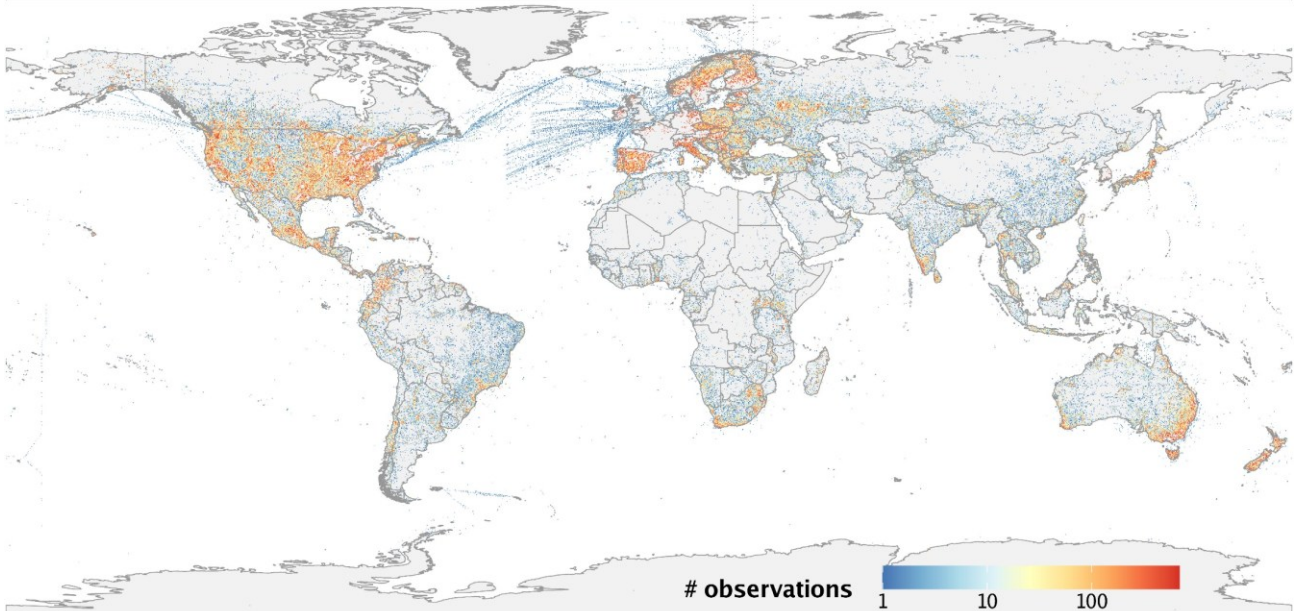
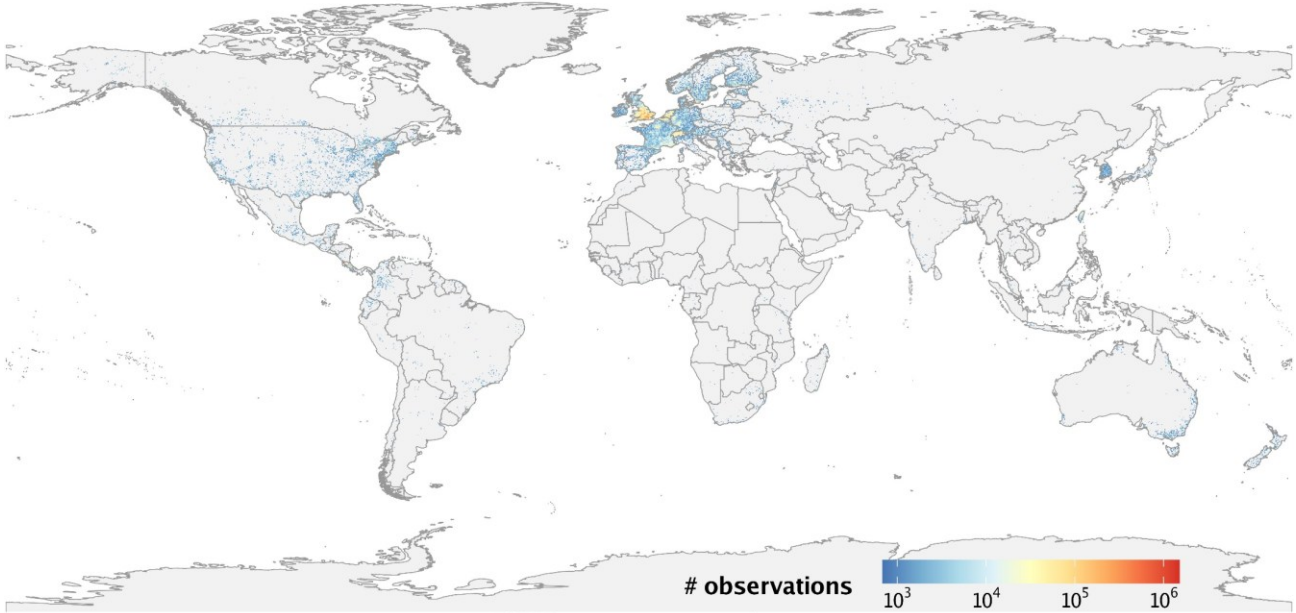


Insecta

Species richness and observation density of Insecta

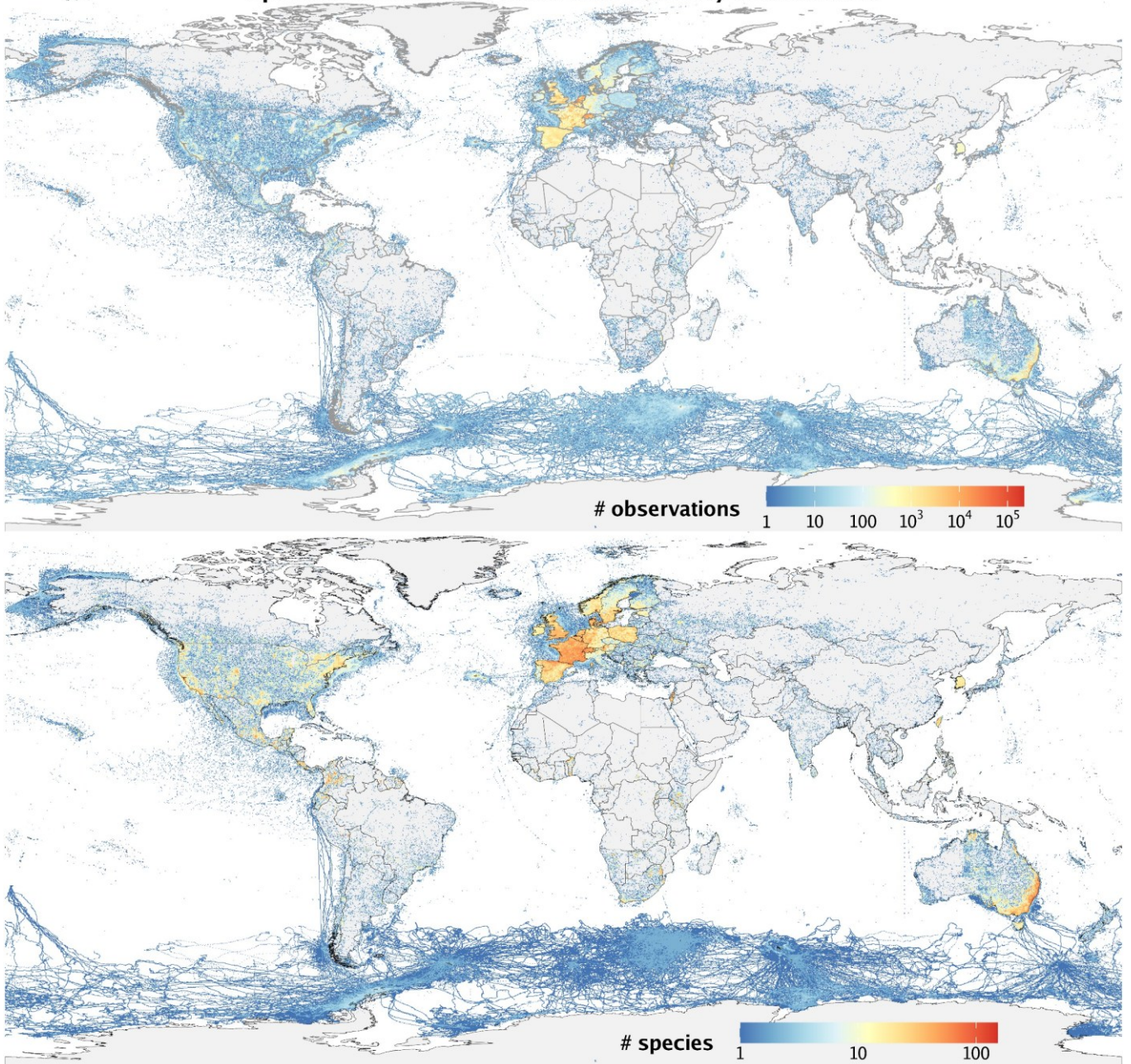


Grid cells contributing to top 95% and lowest 5% of total observations for Insecta

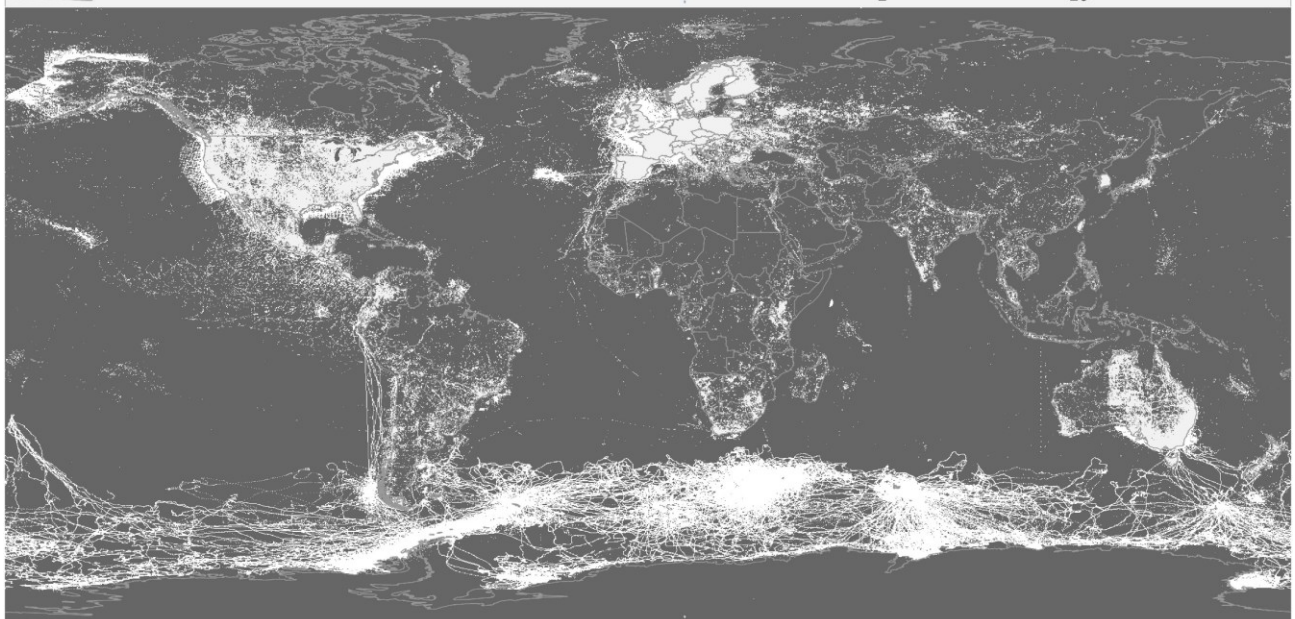
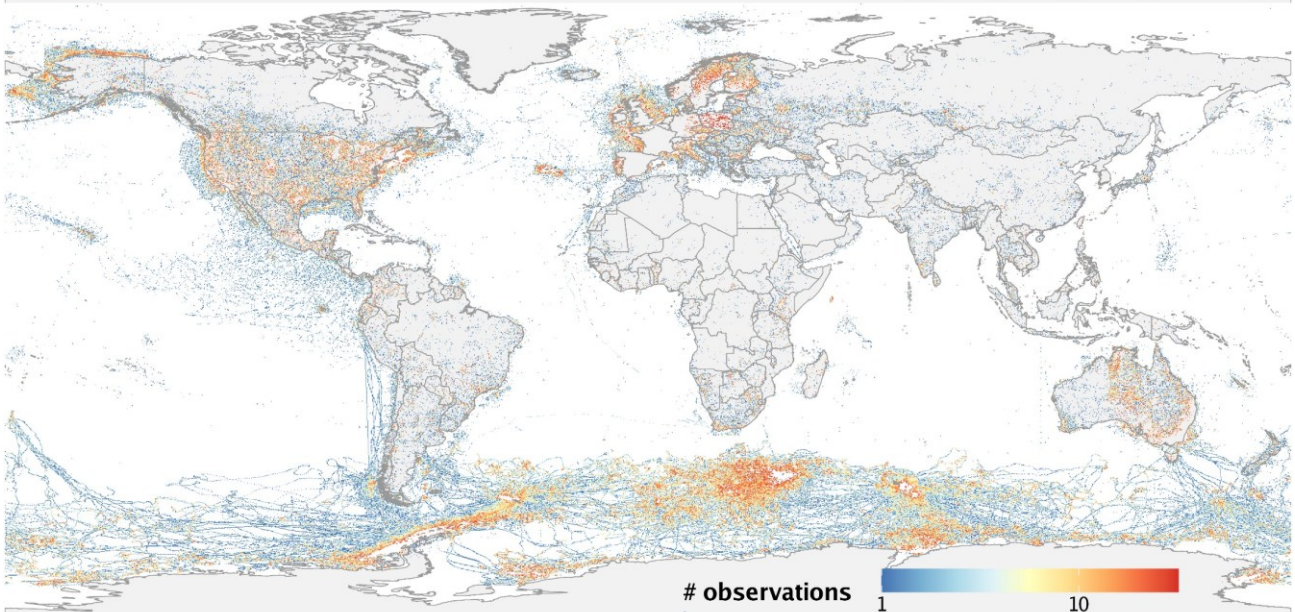
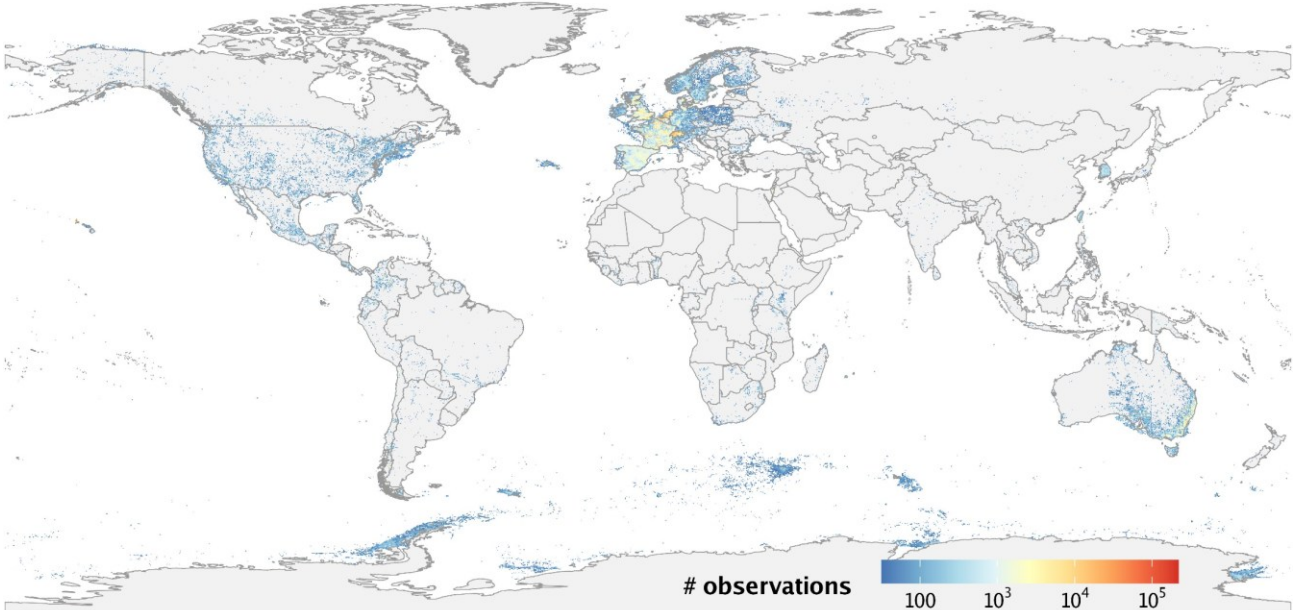


Mammalia

Species richness and observation density of Mammalia

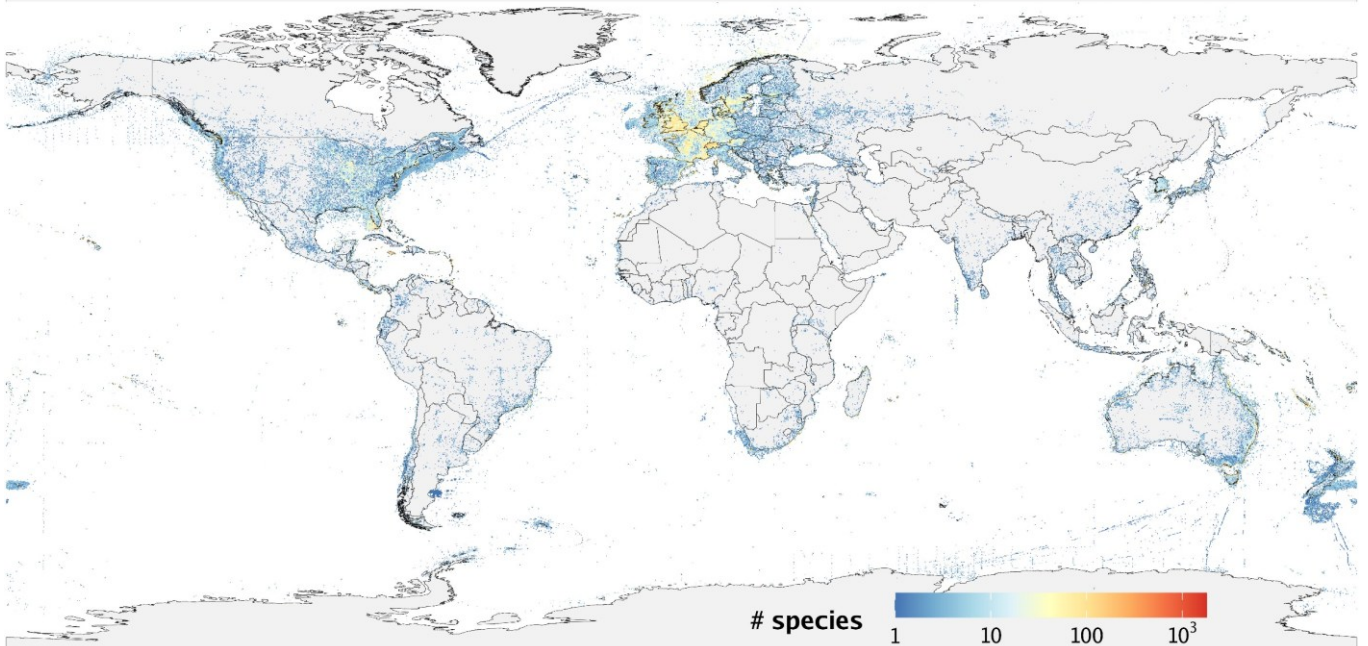
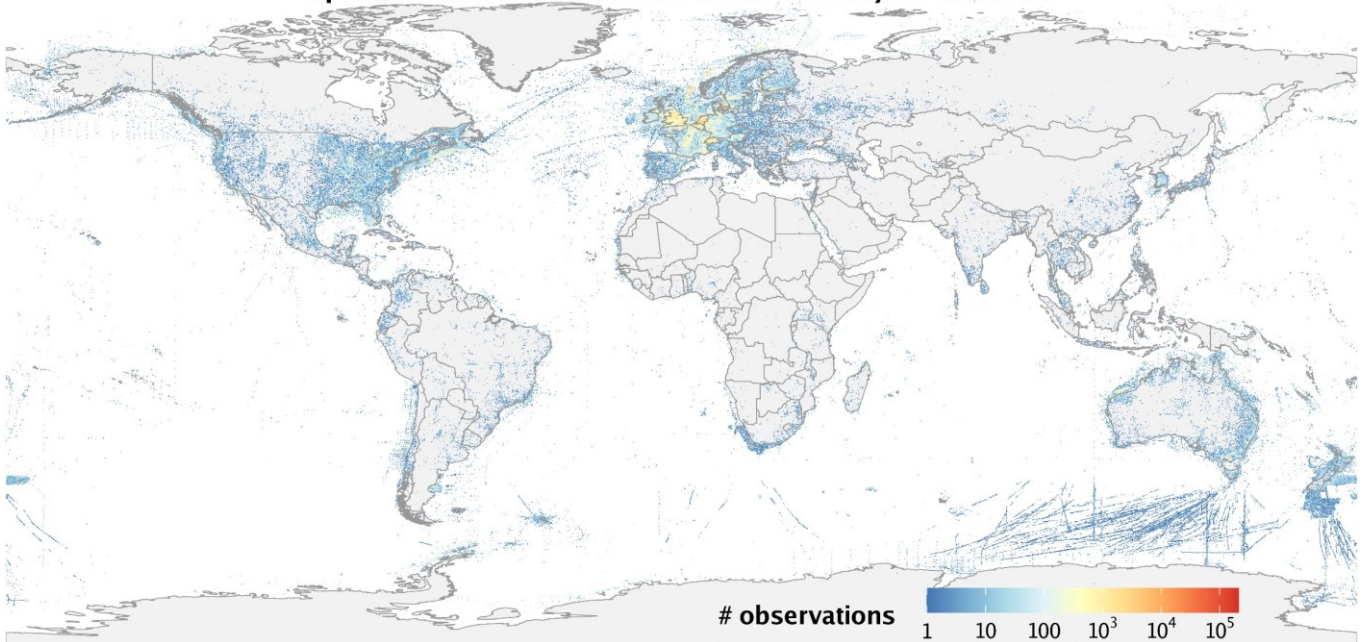


Grid cells contributing to top 95% and lowest 5% of total observations for Mammalia

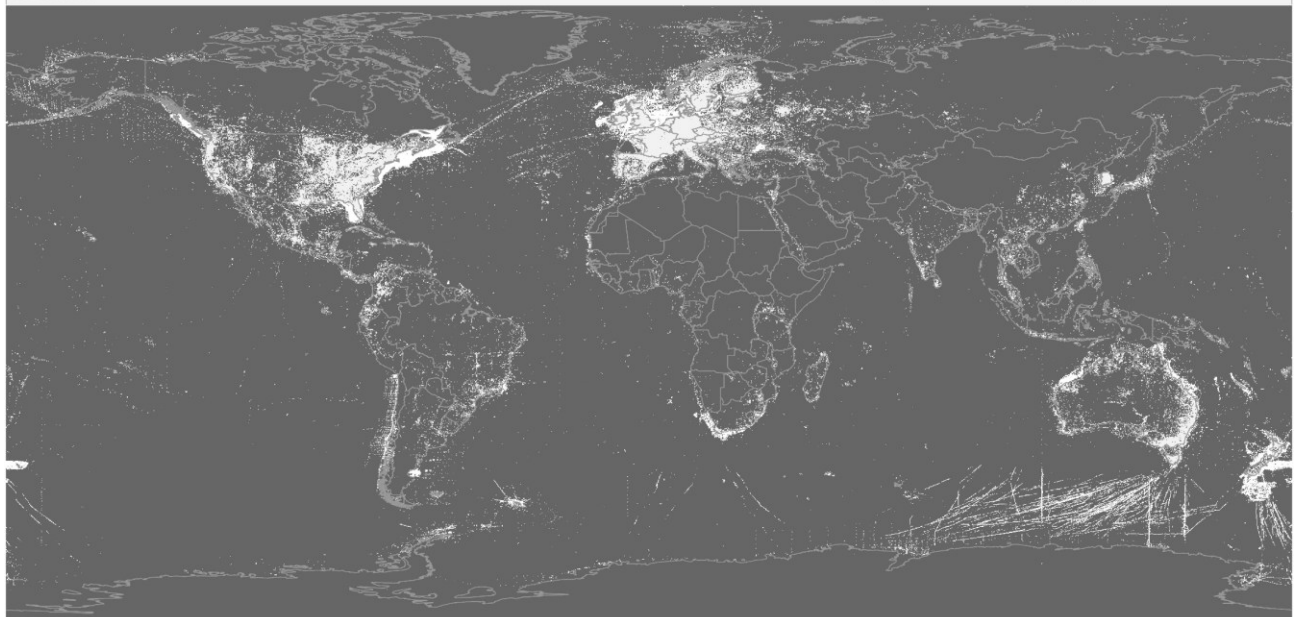
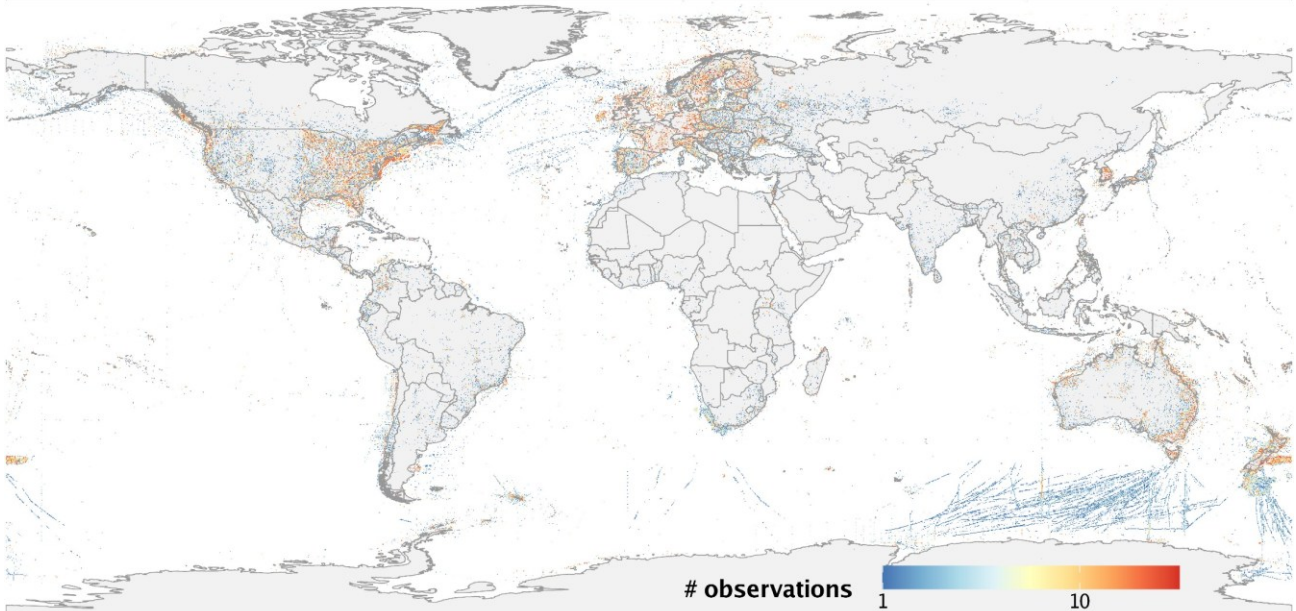
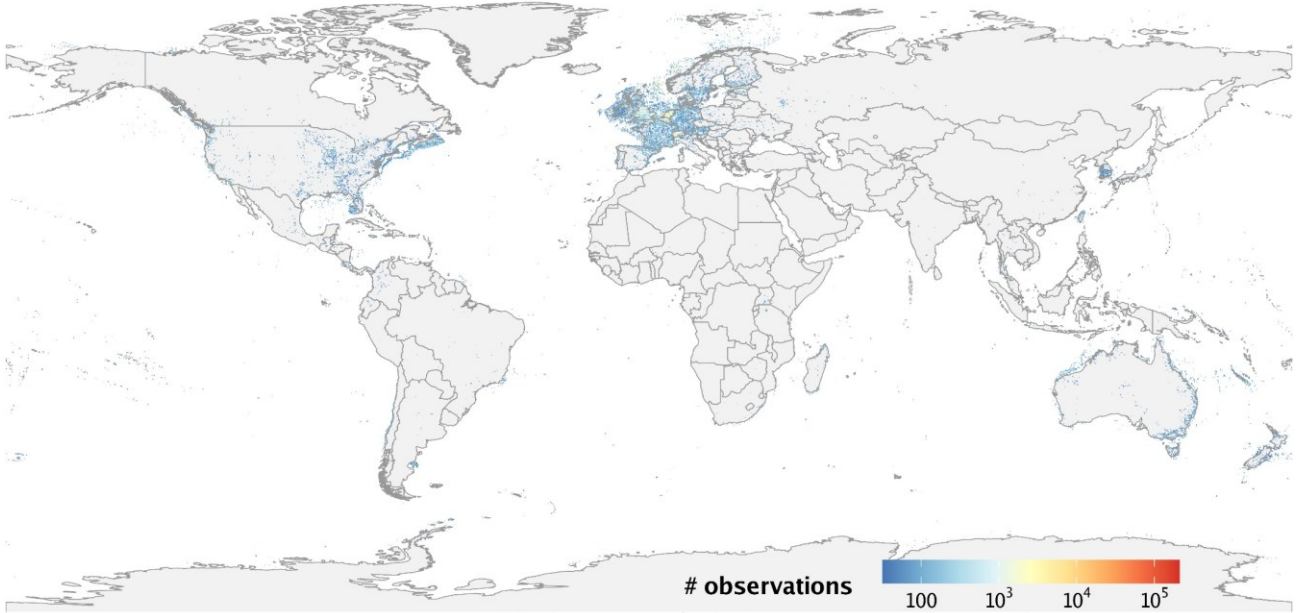


Mollusca

Species richness and observation density of Mollusca

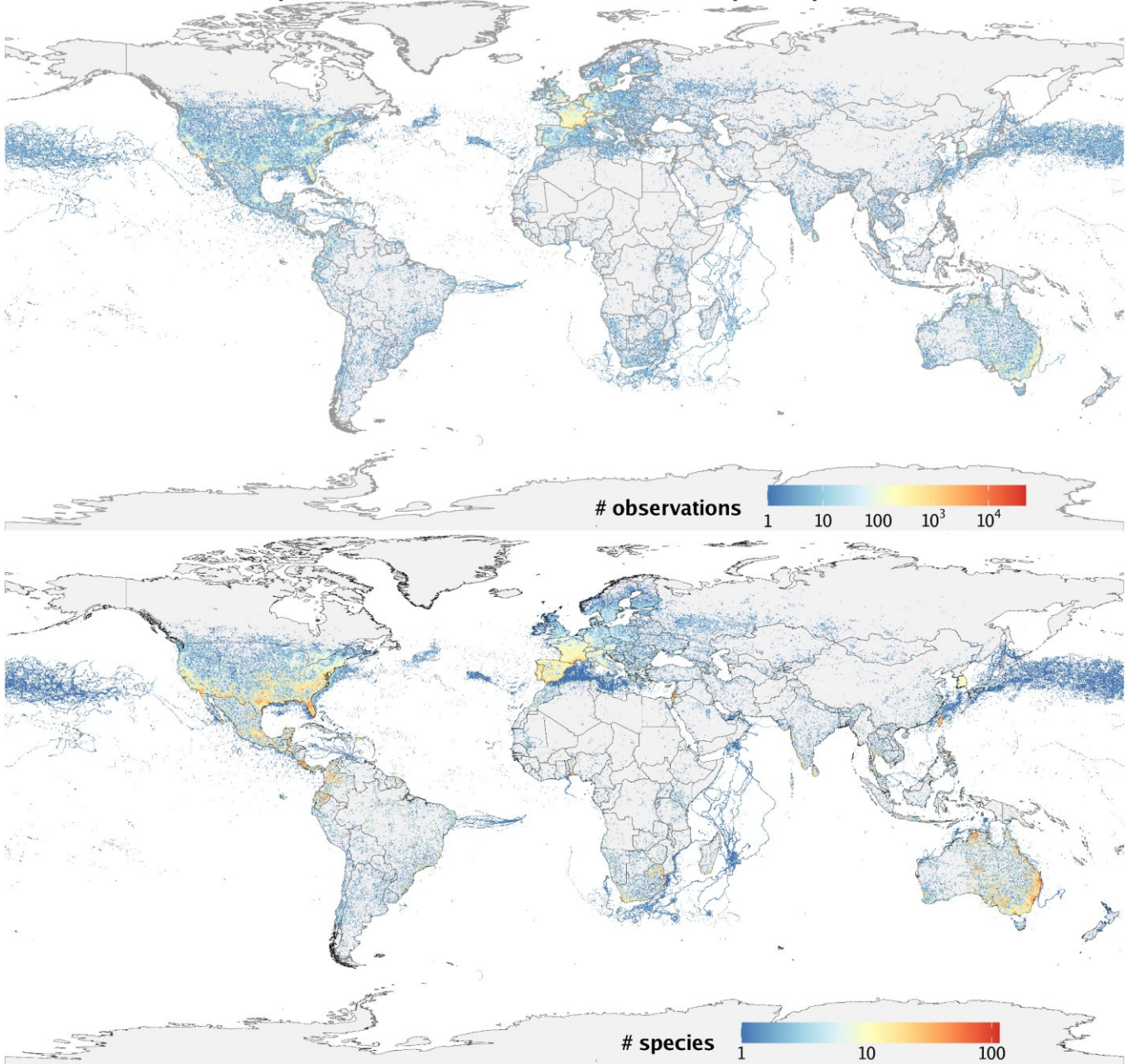


Grid cells contributing to top 95% and lowest 5% of total observations for Mollusca

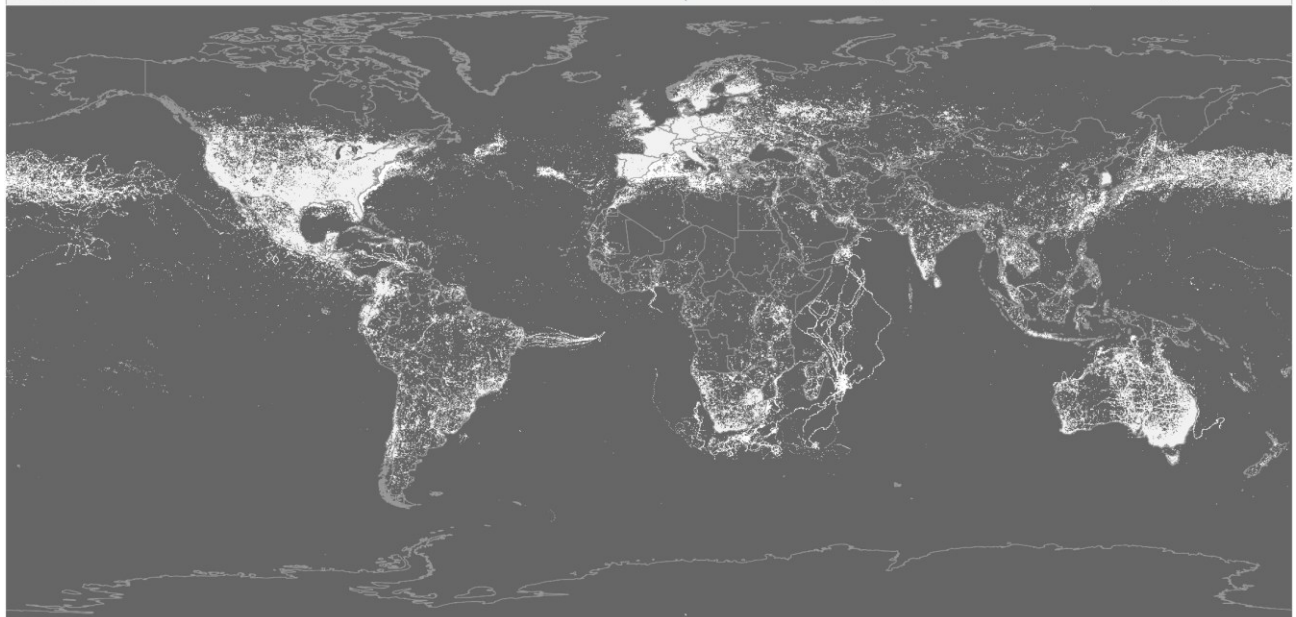
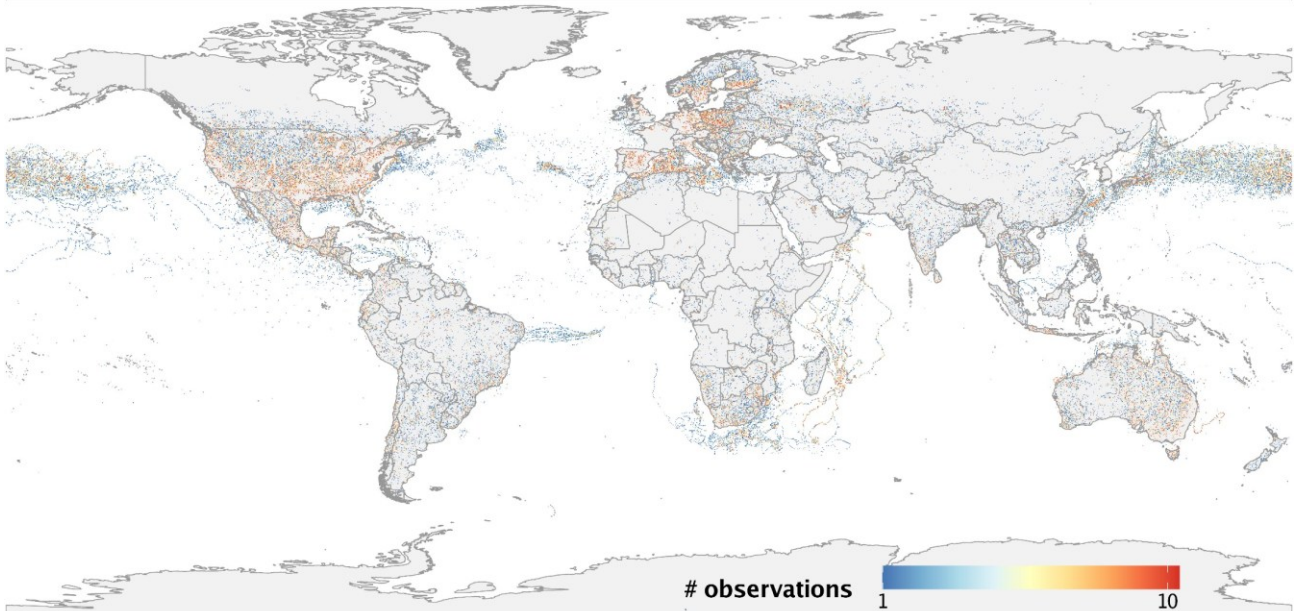
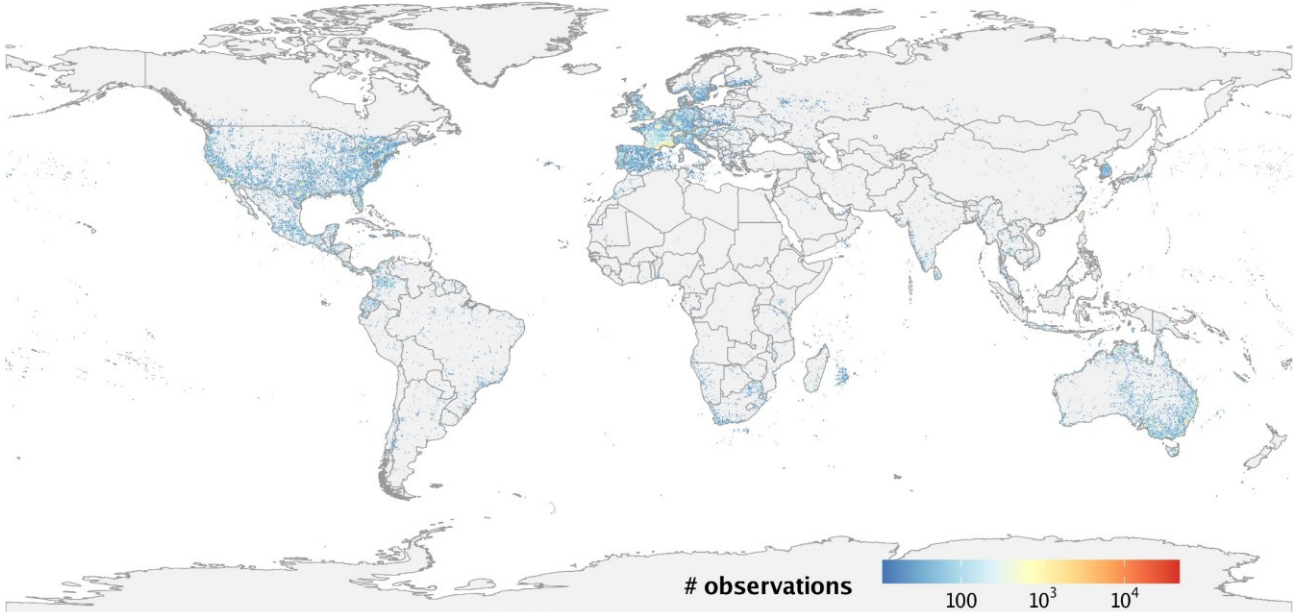


Reptilia

Species richness and observation density of Reptilia

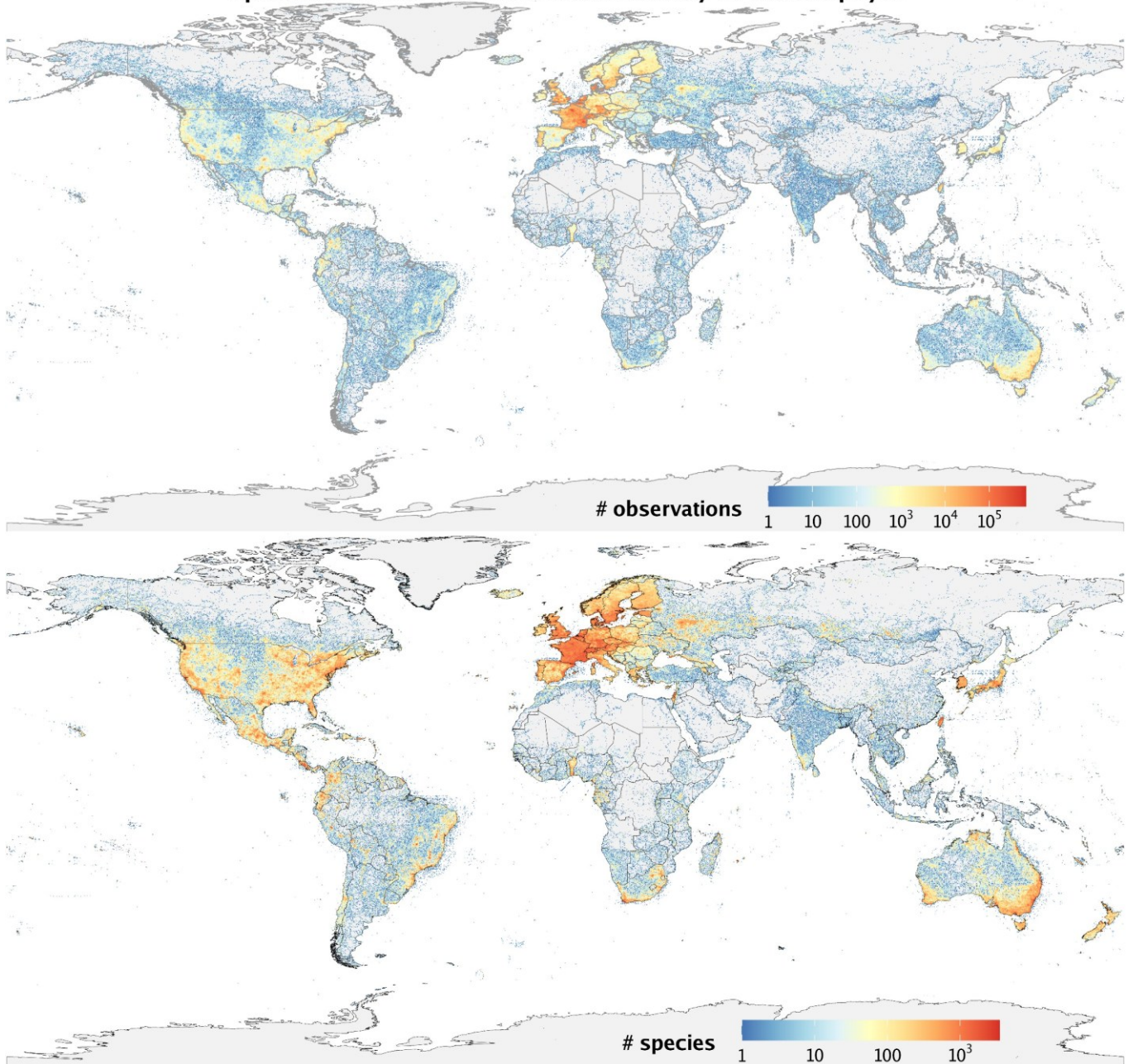


Grid cells contributing to top 95% and lowest 5% of total observations for Reptilia



Tracheophyta

Species richness and observation density of Tracheophyta



Grid cells contributing to top 95% and lowest 5% of total observations for Tracheophyta

