Report Author

09 April, 2021

## Tables

Table 1.

|  |  |  |
| --- | --- | --- |
| site | Non-normalized Gini | Normalized Gini |
| hver | 0.22 ( 0.18 - 0.27 ) | 0.15 ( 0.11 - 0.19 ) |
| oh2 | 0.27 ( 0.24 - 0.31 ) | 0.25 ( 0.21 - 0.28 ) |
| st14 | 0.14 ( 0.098 - 0.21 ) | 0.1 ( 0.059 - 0.17 ) |
| st6 | 0.13 ( 0.11 - 0.16 ) | 0.1 ( 0.079 - 0.13 ) |
| st7 | 0.25 ( 0.22 - 0.28 ) | 0.22 ( 0.19 - 0.25 ) |
| st9 | 0.069 ( 0.054 - 0.098 ) | 0.04 ( 0.024 - 0.069 ) |

Table 2.

Figure descriptions

Figure 1. Species rank-flux plots among streams. Within each stream, species are ranked by descending annual total organic matter flux (mg AFDM ).

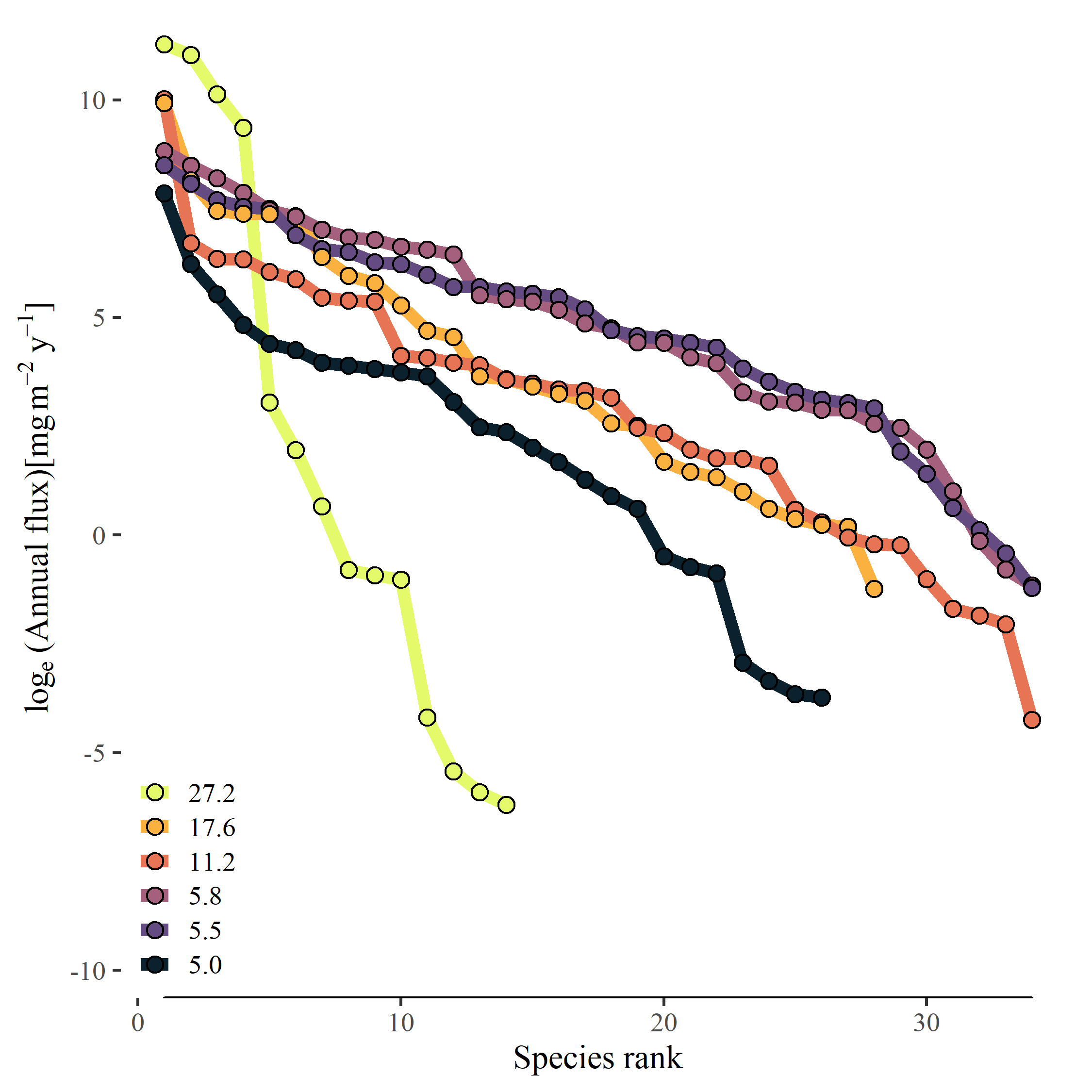


Figure 2. Evenness profiles of species’ relatives fluxes among streams.

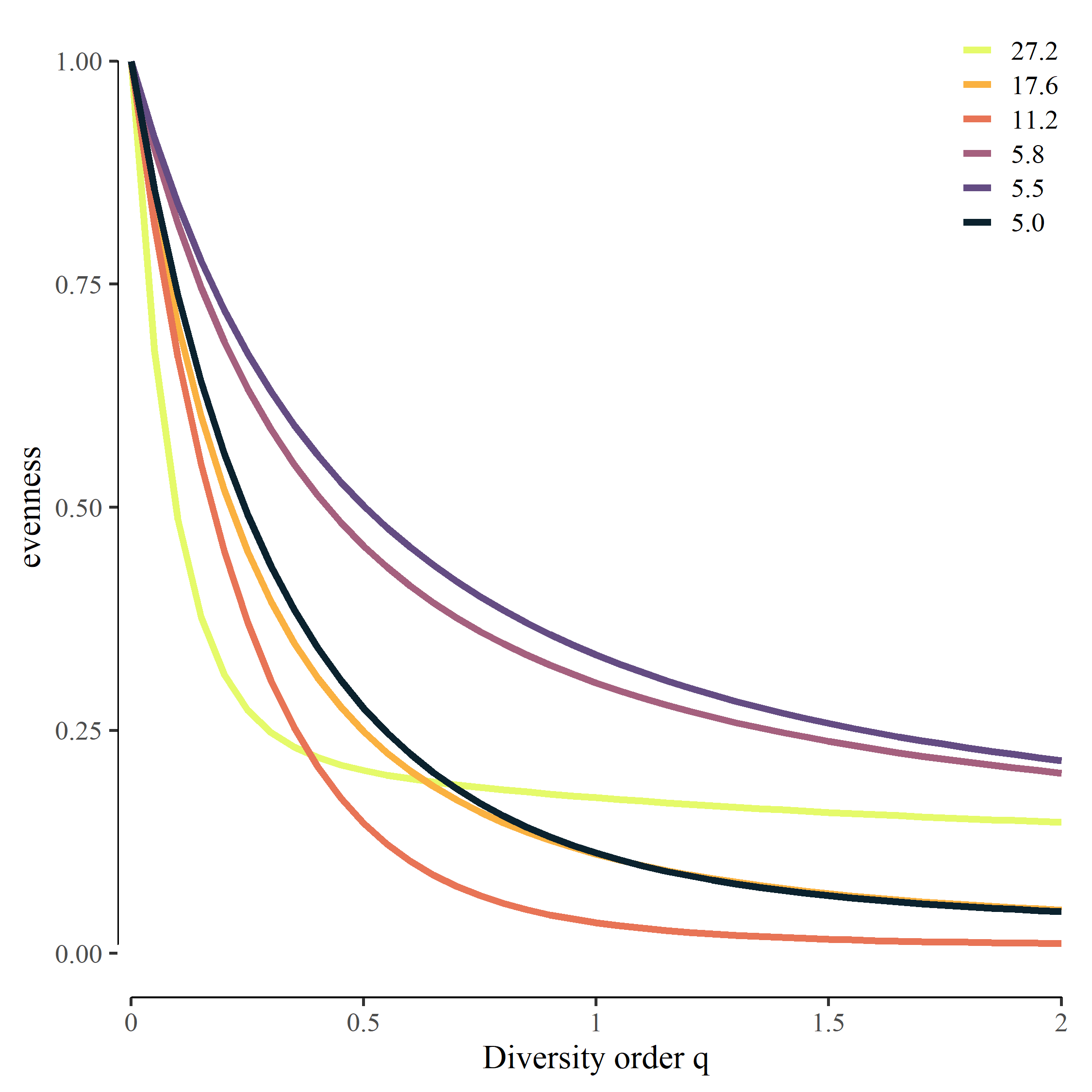


Figure 3. Histograms of species trait distributions of (a) log10 annual production:biomass ratio (y-1), (b) log10 mean body mass (mg ind-1), and (c) log10 annual mean population biomass (mg m-2).

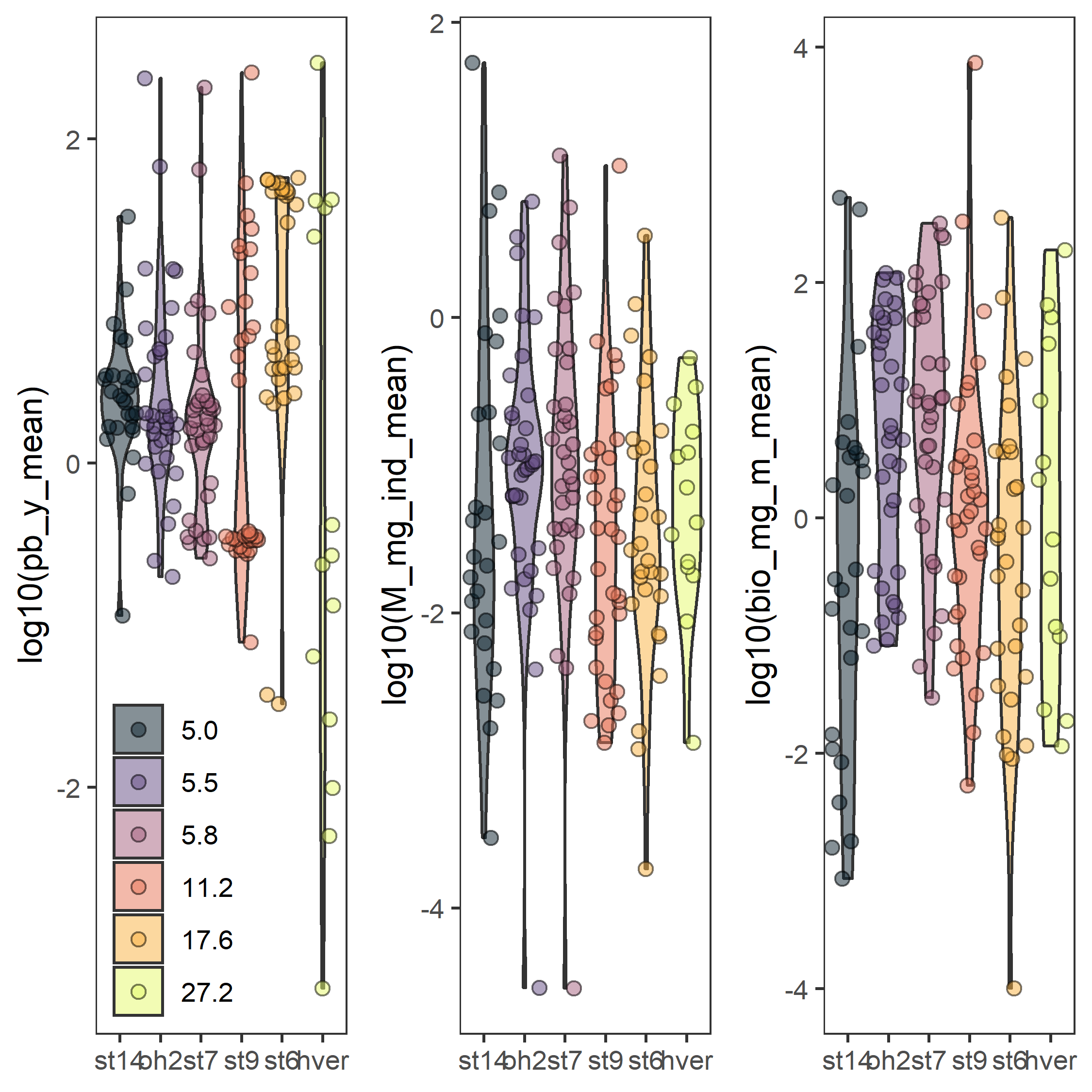


Figure 4. Relative cumulative fluxes among species in relation to ranked order of (a) annual production:biomass ratio (y-1) and (b) mean body size (mg ind-1).

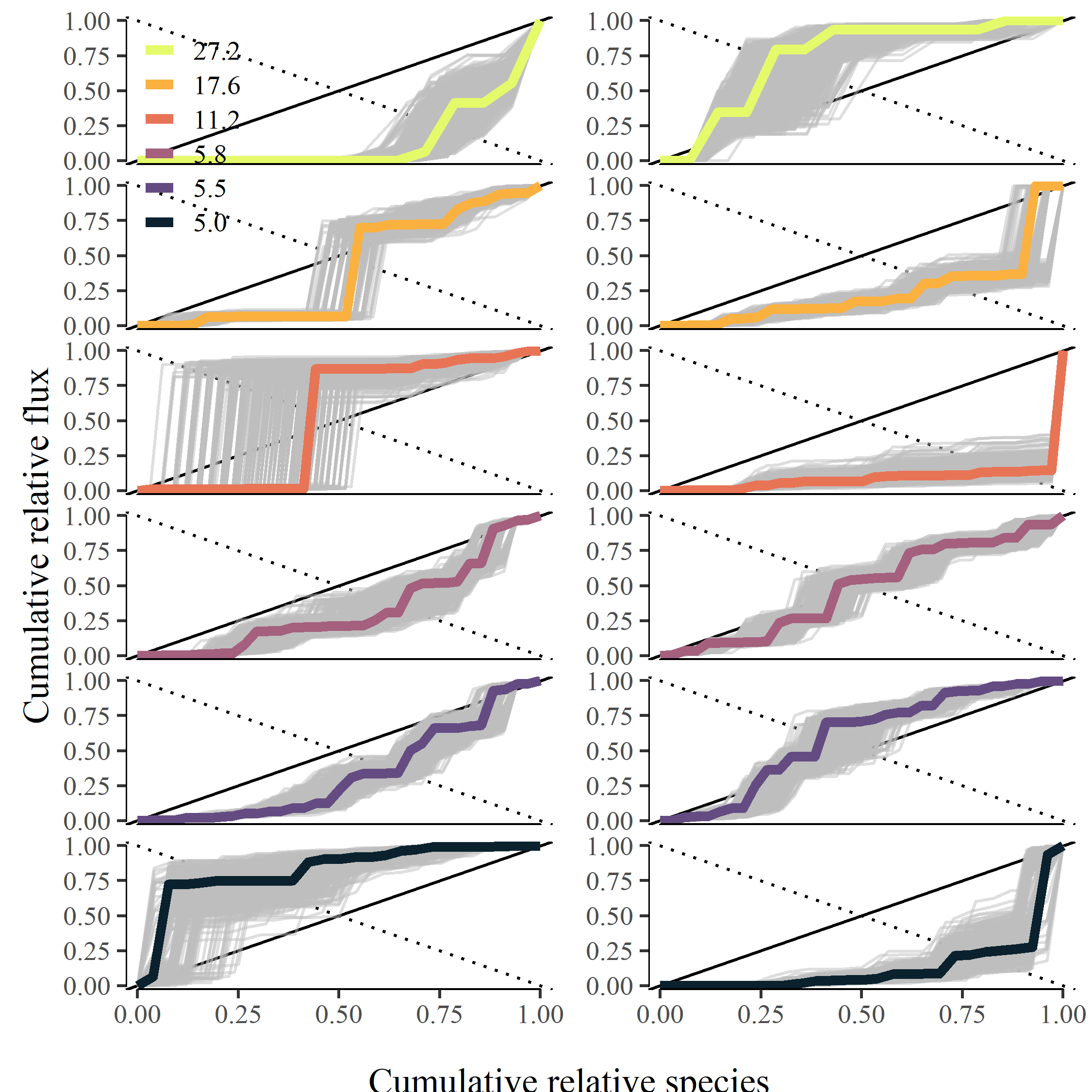


Figure S1. Modeled diet proportions among streams

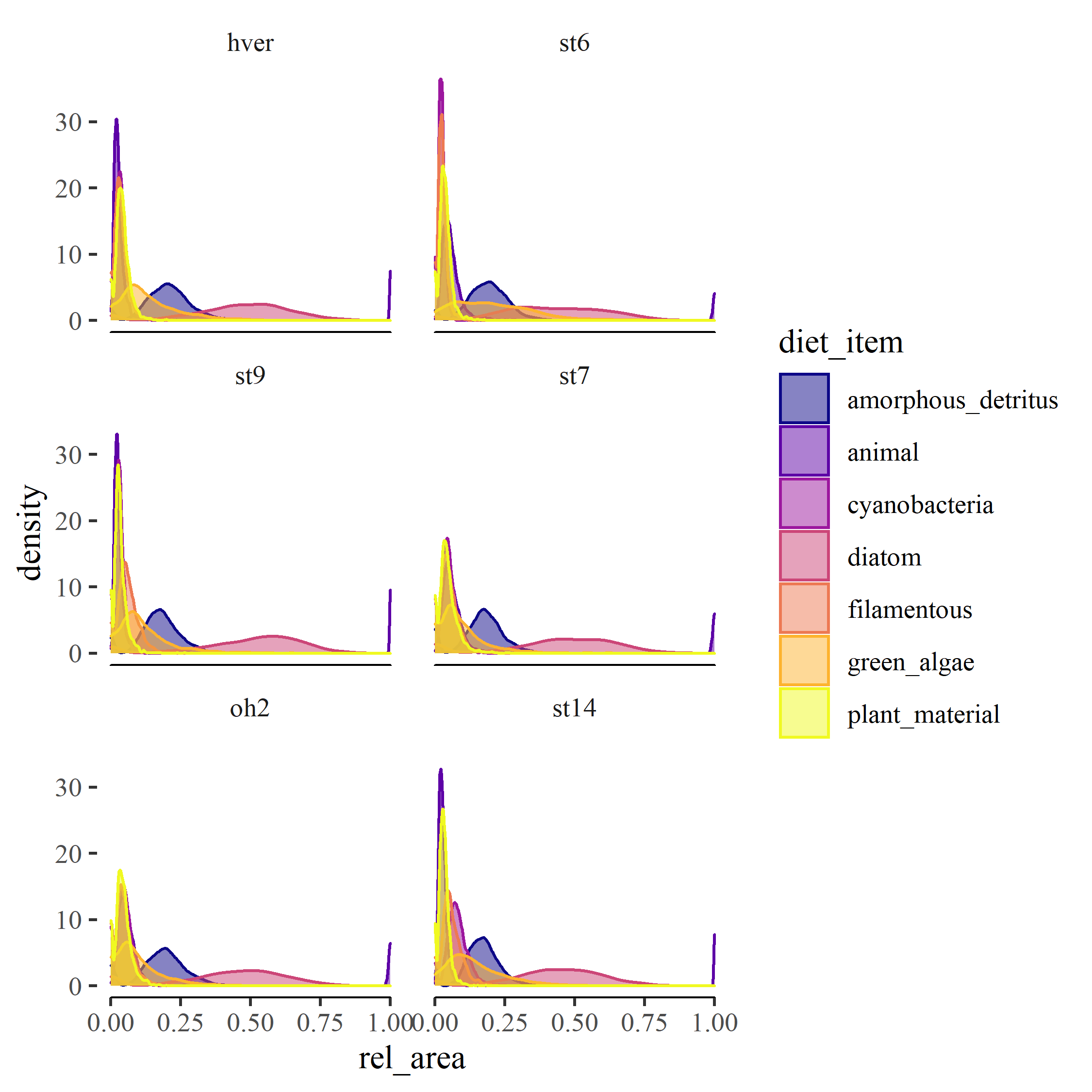


Figure S2. Lorenz plot of relative community flux by species in ascending order of annual population organic matter flux (mg AFDM m-2 y-1).

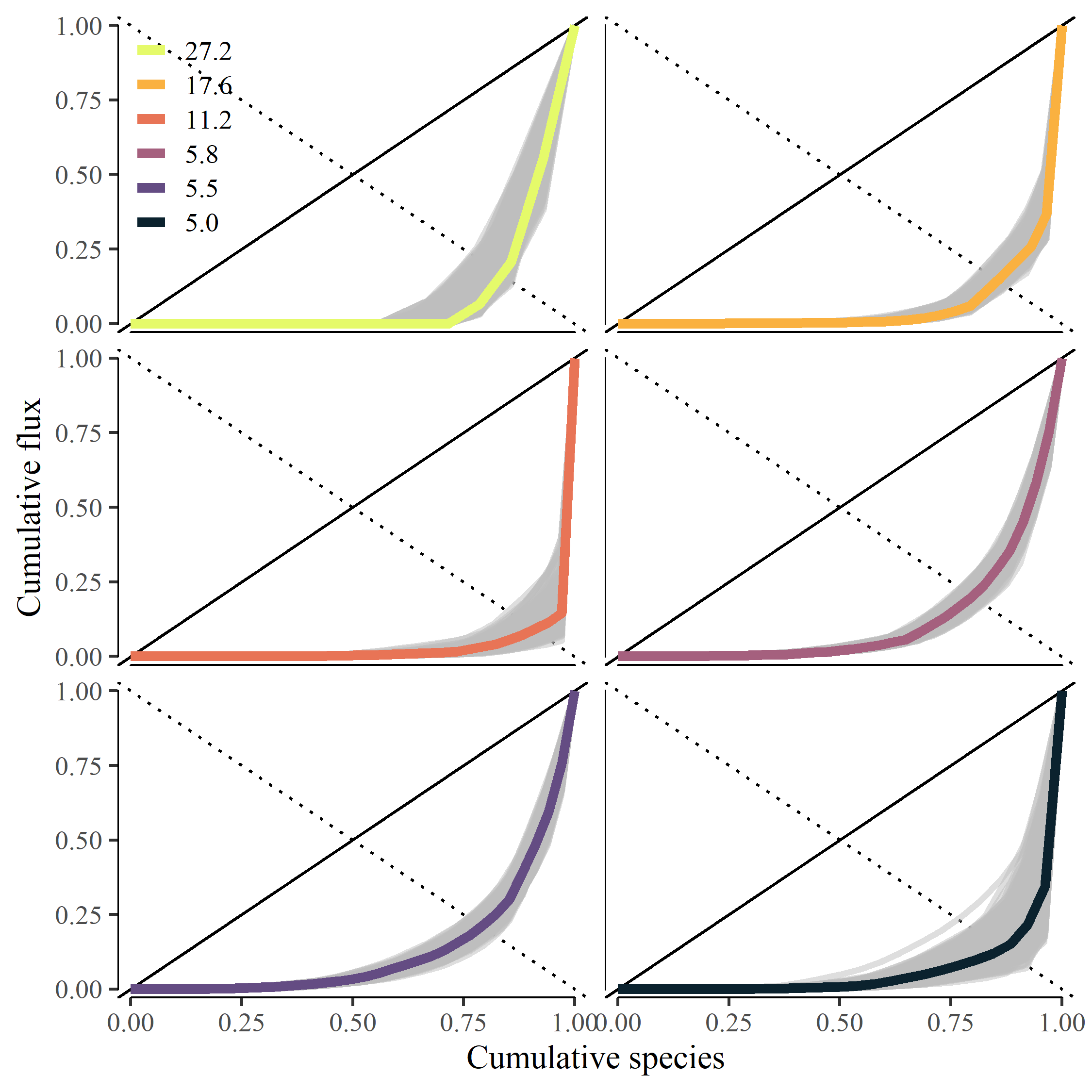


Figure S3. Cumulative plot of relative community flux by species in relation to mean annual population biomass (mg m-2).

