**README NBE**

**Rcode:**

01\_NBE\_MergeRawData.R

02\_NBE\_BiomassFigure\_supplement.R

03\_NBE\_calculationNBE.R

04\_NBE\_Statistics\_Contrasts.R

**Files:**

**AllRawData\_InclBV.csv:** Created file containing merged raw data including calculated cell Volume from Biovolume of species.

no: unique ID of N x temp combination

speciesID: species-specific information

combination: species combinations, see MS for abbreviations.

temp: temperature treatment, i.e. fluctuation, increase, increase and fluctuation

rep: replicate no

sampling: sampling number - 1,3,6,9,12,15. We sampled every 4th day.

**netEffect.csv:** Data on Net Biodiversity effect on stability

combination: species combinations, see MS for abbreviations.

speciesID: species-specific information

rep: replicate no

NBE: Net biodiversity effect

AUC.RR\_exp: expected Stability

AUC.RR\_obs: observed Stability

N: Species richness level (ranging from 2-5)

temp: temperature treatment, i.e. fluctuation, increase, increase and fluctuation

**Rawdata:**

Counting\_ID.xlsx: Raw cell counts

Cells\_mL\_calculation-Utermöhl-05chamber.xlsx - area calculation for counting chambers.

BioVolume\_exp22.csv - Biovolume of species measured at tend. We measured 20 individuals for each species, respectively.