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### Data S1

### Community Weighted Mean (CWM) of a trait of phytoplankton and zooplankton communities.

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### File list (files found within DataS1.zip)

Data S1.csv

**Description**

Data S1.csv – The file contains dataset of Community Weighted Mean (CWM) of a trait of phytoplankton and zooplankton communities which were used in construction of decision trees included into the manuscript

Variables Description:

id – sample id

size\_as\_particle – phytoplankton species trait; numeric trait, measured as a largest dimension of a solitary cell or colony (µm)

shape\_as\_particle – phytoplankton species trait; categorical trait with 10 levels, geometrical characteristics of a solitary cell or colony, depending on the taxa life form

toxicity – phytoplankton species trait; binary trait, potential ability of the taxa to produce toxins to other organisms

motility – phytoplankton species trait; binary trait, ability of the taxa to active swimming

armor – phytoplankton species trait; binary trait, occurrence of armor-like morphological structures, e.g., plates or silica in the taxa cell wall

spines – phytoplankton species trait; categorical trait with three levels, occurrence of spines or horns

body\_length – zooplankton species trait; numeric trait, length of the body of species (µm)

food – zooplankton species trait; categorical trait with 6 levels, ability to feed on one or multiple food sources – bacteria, algae or animal prey

feeding – zooplankton species trait; categorical trait with 9 levels; method of food particles uptake by the taxa

opti\_food – zooplankton species trait; numeric trait; based on morphology of taxa feeding structures and its body length (µm)