**Supplementary Table S6**: Summary of the Spearman’s rank correlations computed for the zooplankton groups displaying significant correlations between their cubic-transformed abundance (ind.m3) and their log-transformed median Equivalent Spherical Diameter (ESD, µm).

**Supplementary Table S7**: Summarizing statistics of the Generalized Additive Models (GAMs) fitted to the global patterns of cubic-transformed abundance (ind.m3) and log-transformed median Equivalent Spherical Diameter (ESD, µm) of all zooplankton groups.

**Supplementary Table S13**: Classification of the labels used in the ZooScan imaging system to identify the living zooplankton individuals and the corresponding final zooplankton group(s) used in the present study.