S1 Section: Taxa determination mesozooplankton

Species determination was assisted by a ZooScan [1,2]. Briefly, a ZooScan allows scanning zooplankton samples as pictures, which are subsequently used by a machine-learning algorithm for species determination. The machine-learning algorithm used in 2008 was Plankton Identifier (http://www.obs-vlfr.fr/~gaspari/Plankton_Identifier/index.php) and Eco-Taxa (http://ecotaxoserver.obs-vlfr.fr) in 2022. Both algorithms are based on the ZooProcess software and produce comparable results. Samples stored in 1% formol were rinsed and specimens were divided in two size classes (A: 200-500 µm, B: >500 µm) to increase determination success of the method. To further enhance determination exactness, samples were fractionated by means of the Motoda method [1,3].

<u>References</u>

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3. Motoda S. Devices of simple plankton apparatus. Mem Fac Fish Hokkaido. 1959;7(1–2):73–94.