

## S2 Section: Calculation of mesozooplankton abundance

Mesozooplankton abundance per taxon and station/sample was calculated as follows.

The water volume filtered by the WP2 bongonet was derived using equation (1), where  $V$  is the filtered volume of seawater in  $m^3$ ,  $T$  the number of turns of the volume meter,  $0.3$  the conversion factor provided by the manufacturer of the volume meter and  $D$  the net diameter ( $D=0.57$  m).

$$V = T * 0.3 * \left[ \pi * \left( \frac{D}{2} \right)^2 \right] \quad (1)$$

The abundance per taxon and station ( $Ab$  in individuals per  $m^3$ ) was calculated using equation (2), with  $N$  being the number of individuals identified per size class (A and B),  $F$  the fraction of the sample after application of the Motoda method (e.g.  $\frac{1}{16}$ ) and  $V$  the volume filtered per station / sample.

$$Ab = \frac{\left( \frac{NA}{FA} + \frac{NB}{FB} \right)}{V} \quad (2)$$