

# Enhanced pore-water nutrient fluxes by the upside-down jellyfish *Cassiopea* sp. in a Red Sea coral reef

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## Supplement 1. Additional data

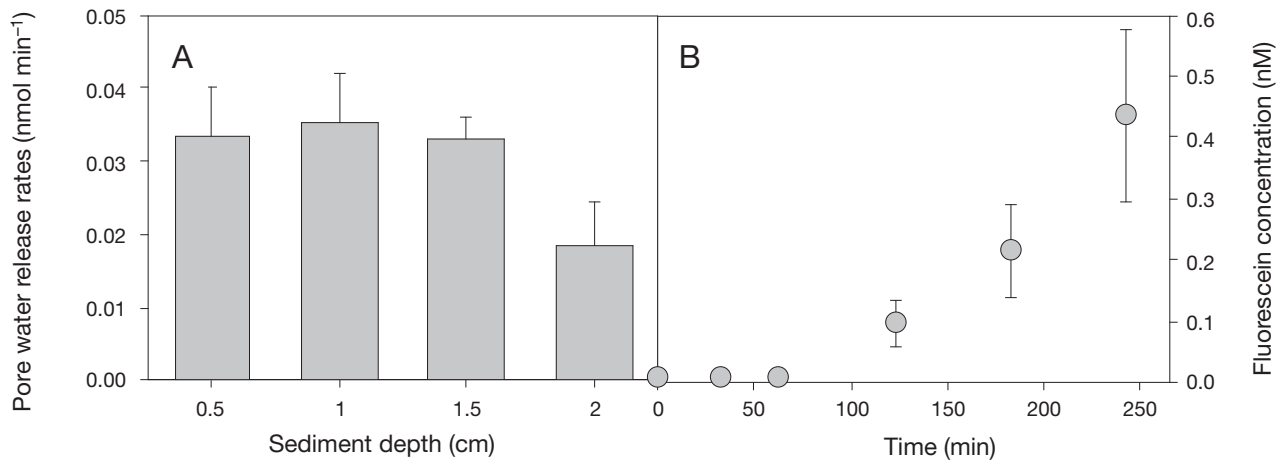


Fig. S1. Pumping activity and various sediment depths; (A) Various depths of un-dyed sediment cover layers (0.5, 1, 1.5 and 2 cm) with different pore water release rates as increase of fluorescein, means  $\pm$  SE. (B) Time lag ( $\sim$ 1 h) of released fluorescein in the tank water by *Cassiopea* sp. out of a sediment depth of 2 cm, means  $\pm$  SE

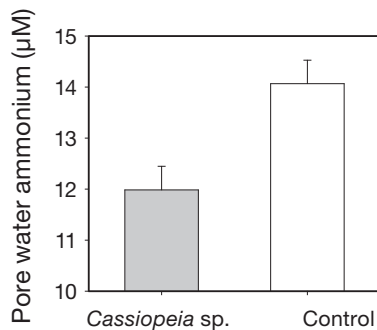


Fig. S2. Nutrient depletion of pore waters *in situ*; pore waters of sediment close to *Cassiopea* sp. contain significantly lower concentrations of ammonium ( $\mu$ M) than controls, means  $\pm$  SE

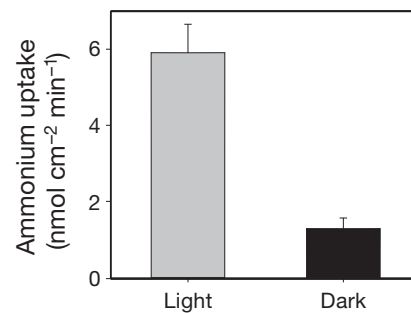


Fig. S3. Nutrient uptake rates; ammonium uptake of *Cassiopea* sp., normalised by bell area (nmol cm<sup>-2</sup> min<sup>-1</sup>), is much higher in the light (grey bar) than in the dark (black bar), means  $\pm$  SE

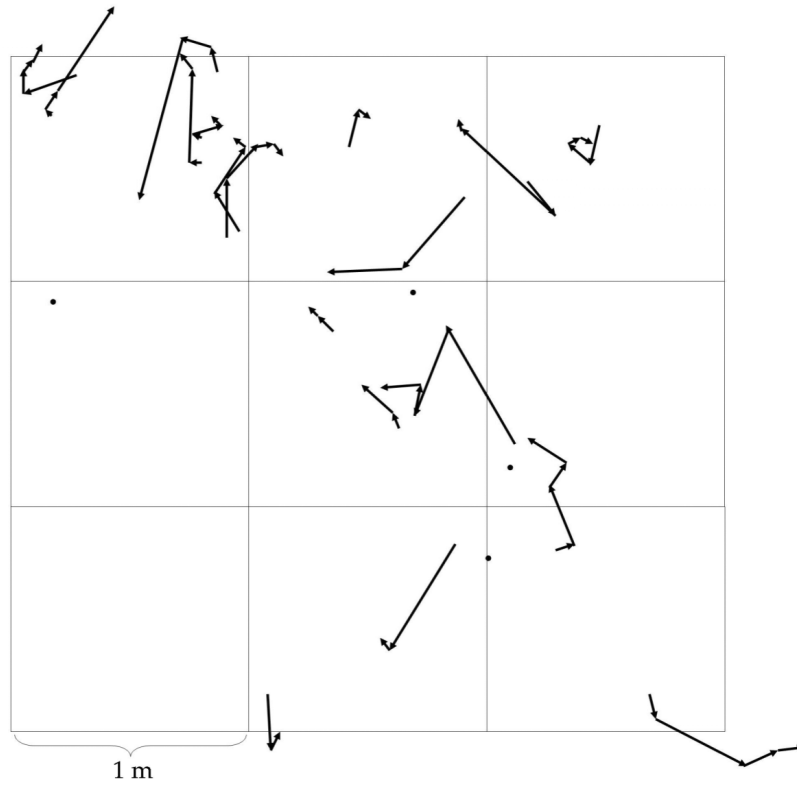


Fig. S4. Mobility of *Cassiopea* sp.; vector diagram of *Cassiopea* sp. showing movements during 6 days. Black arrows represent movements between 2 days, a dot indicates a specimen which had not moved at all, or disappeared after 1 day