

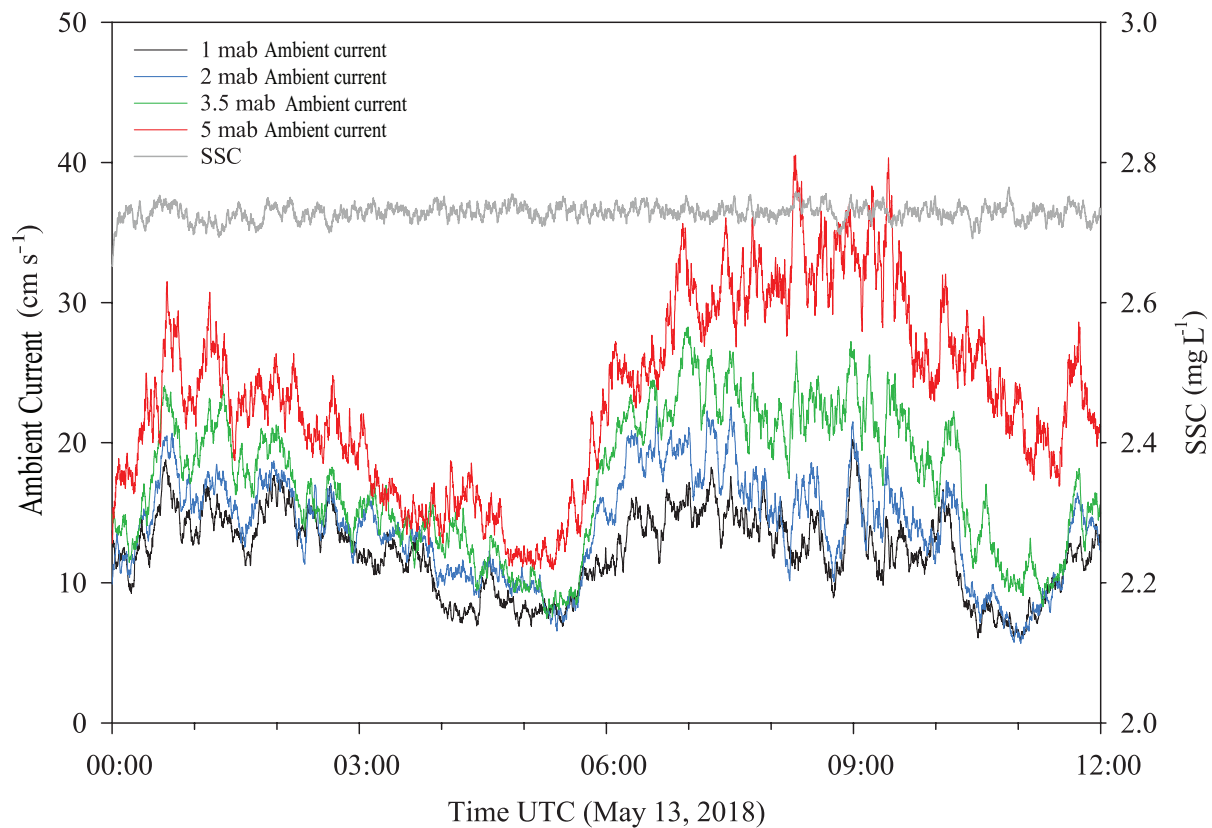
The following supplement accompanies the article

## Effect of suspended sediments on the pumping rates of three species of glass sponge *in situ*

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**Fig. S1:** The tidal cycle and ambient flow data at different heights above the bottom at the study site. There is no tidal resuspension of sediment despite fluctuations in ambient current velocity with tides. The heights above bottom (mab = meters above bottom) correspond to those shown in Fig. 7A and B.

**Table S1.** Table of events that occurred at each sponge used in this study. Non-experimental disturbances can include resuspension due to fish activity and any suspended sediment not caused by the scooping action of ROPOS. *F. occa* 1 and 2 were side by side and experienced the same experimental disturbances.

Specimen	Length of recording (h)	# of total single arrests	# of total prolonged arrests	# of total clogging events	# of sediment disturbances total	# of arrests due to non-experimental disturbances	# of arrests due to sediment experiments	# of control scoops done	Represented in:
<i>Heterochone calyx</i>									
<i>H. calyx</i> 1	25.5	3	-	2	1	2 - clogging	3	1	Figure 4A-E
<i>H. calyx</i> 2	20	2	-	-	1	-	2	-	Figure 4C
<i>H. calyx</i> 3	38.75	-	-	-	-	-	-	-	-
<i>Farrea occa</i>									
<i>F. occa</i> 1	37.5	-	-	-	4	-	-	-	Figure 5A-D
<i>F. occa</i> 2	4	-	-	-	4	-	-	-	Figure 5C
<i>F. occa</i> 3	38.5	-	-	-	3	-	-	-	Figure 5C
<i>F. occa</i> 4	21	-	-	-	1	-	-	-	Figure 5C
<i>F. occa</i> 5	27	-	-	-	1	-	-	1	Figure 5C
<i>F. occa</i> 6	27	-	-	-	1	-	-	-	Figure 5C
Dead <i>F. occa</i>	9.25	-	-	-	-	-	-	-	-
<i>Rhabdocalyptus dawsoni</i>									
<i>Rhabdocalyptus dawsoni</i>	21.5	8	1	-	1	9	-	1	Figure 6A-E

**Table S2.** Mesh sizes, and their equivalent grain size classification, chosen for partitioning sediments sizes during analysis.

Mesh size (µm)	Grain size classification
212	> Fine sand
106	Fine sand
63	Very fine sand
45	Coarse silt
20	Medium silt
>20	Fine silt