

Table S2: Characteristics of four substrate types.

Substrate	\bar{z}_o (cm)	C_D	s_{u_s}
Natural reef	1.5	0.019	0.114
Oyster shell	0.3	0.008	0.075
Whelk shell	1.7	0.011	0.119
Mud	0.4	0.009	0.082

Average roughness height \bar{z}_o , drag coefficient C_D , and shear velocity scale factor s_{u_s} for velocity profiles used in the hitting-distance model. Measurements described in [12].