

Supplementary Materials

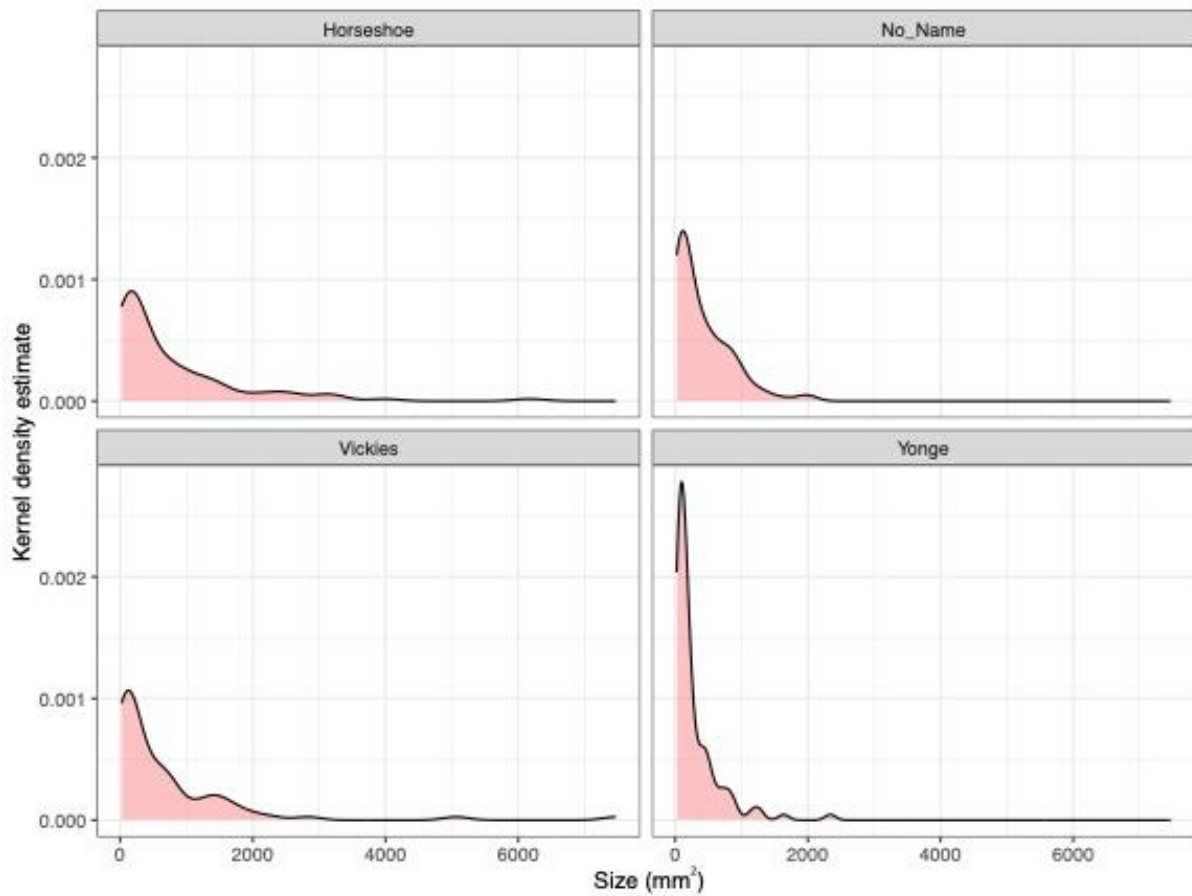


Fig. S1. Kernel density estimate showing size frequency distribution of colonies on each reef at the start of the study.

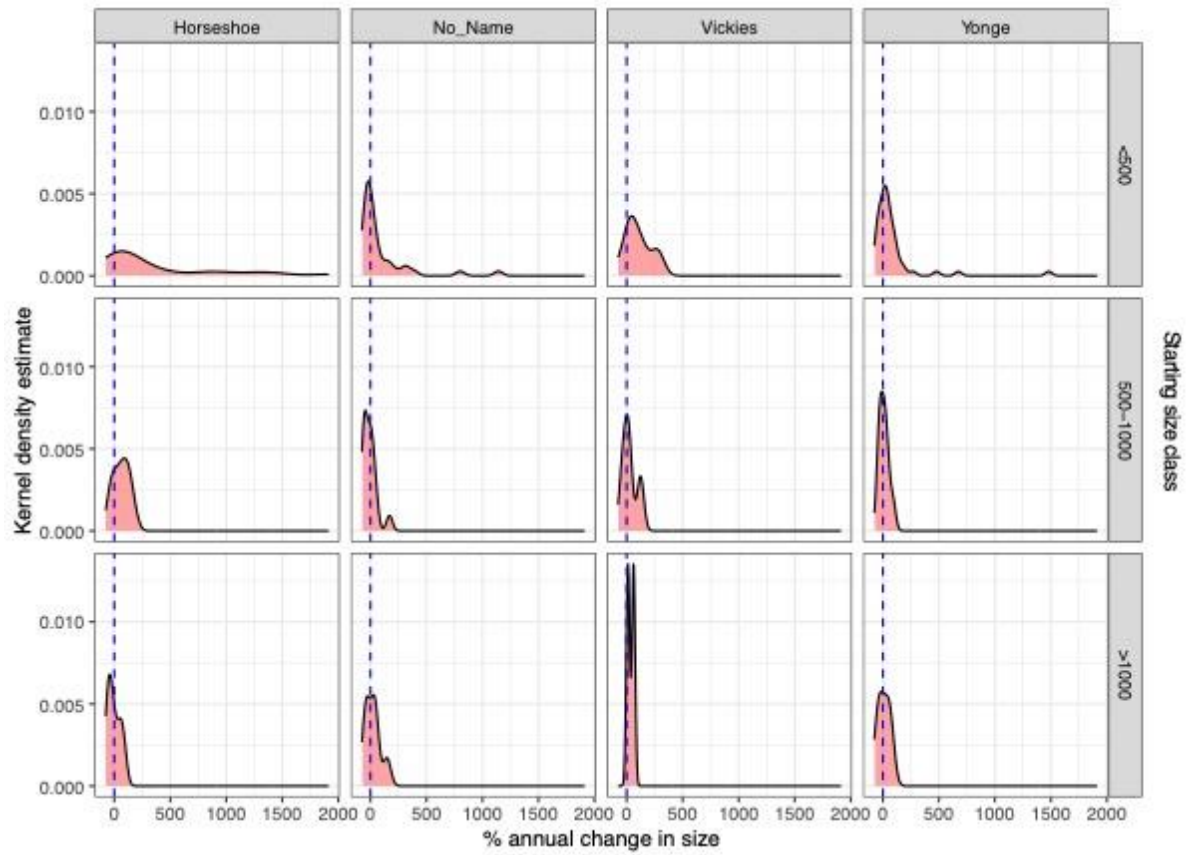


Fig. S2. Kernel density estimate (red shading) of percent annual change in colony size (mm²) for each reef and starting colony size class (<500 mm², 500-1000 mm², >1000 mm²). Blue dashed line indicates zero change.

Table S1. Summary of prevalence of each health category among reefs, median (25%, 75%) pooled across all time points.

Health Category	Mid-shelf		Outer shelf	
	Horseshoe	Vickies	No name	Yonge
Disease	0.05 (0, 0.07)	0.04 (0, 0.11)	0.03 (0, 0.04)	0.01 (0, 0.03)
Compromised health	0.06 (0.04, 0.15)	0.09 (0.04, 0.20)	0.14 (0.08, 0.18)	0.13 (0.09, 0.19)
Predation	0.03 (0, 0.07)	0 (0, 0.05)	0 (0, 0)	0 (0, 0)
Physical injury	0.08 (0.03, 0.11)	0.08 (0.01, 0.14)	0.11 (0.07, 0.21)	0.14 (0.07, 0.20)