

### Three competitors in three dimensions: Photogrammetry reveals rapid overgrowth of coral during multispecies competition with sponges and algae

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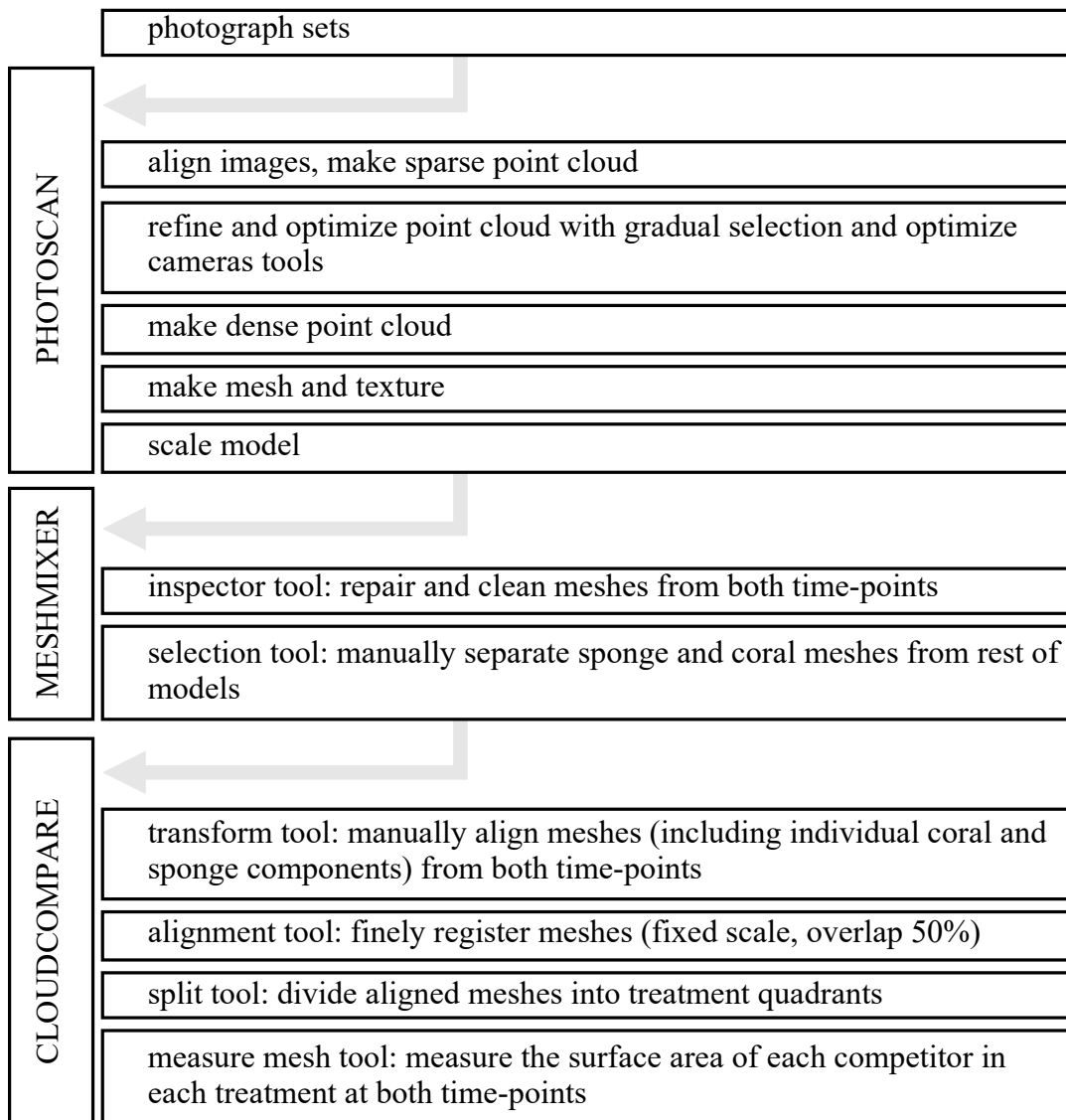


Fig. S1. Photogrammetry workflow

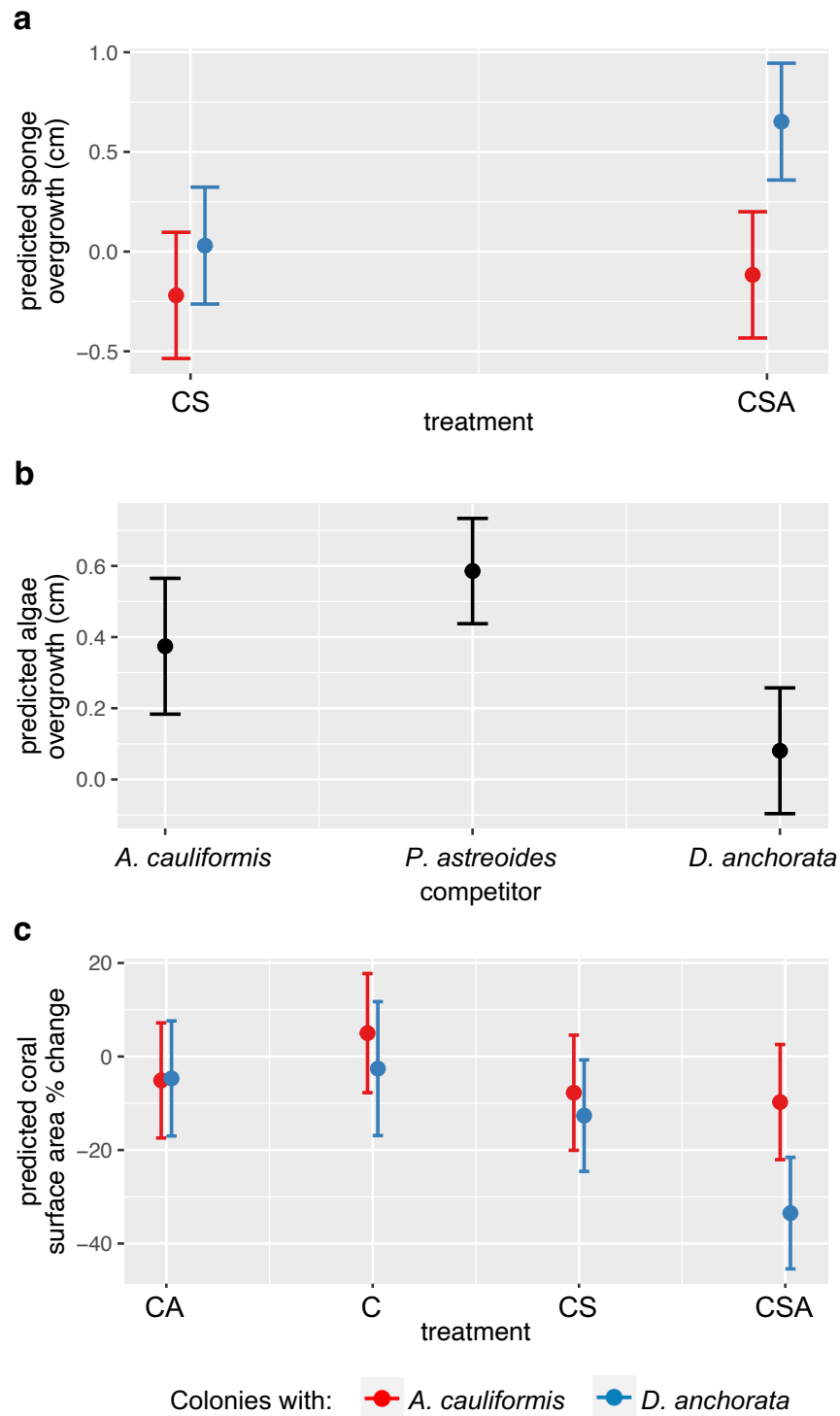


Fig S2. Marginal effects plots showing values predicted for models of a) sponge overgrowth, b) algae overgrowth, and c) coral surface area % change. Panels a and c show marginal effects with interactions (sponge species and treatment) with values based on minimum and maximum values of the moderator. Plots were made using *sjPlot* (Lüdecke 2020).

Table S1. Mixed effects models coefficients

response variable	fixed effects	Estimate	Std. Error	df	t value	Pr(> t )
sponge overgrowth	(Intercept)	-0.220	0.161	39.800	-1.360	0.182
	treatment (CSA)	0.103	0.153	26.000	0.675	0.506
	sponge (D. anc)	0.250	0.220	39.800	1.135	0.263
	treatment (CSA): sponge (D.anc)	0.519	0.208	26.000	2.495	0.019
algae overgrowth	(Intercept)	0.374	0.097	45.999	3.843	0.000
	competitor (P. ast)	0.211	0.119	29.842	1.770	0.087
	competitor (D. anc)	-0.294	0.133	45.823	-2.217	0.032
coral surface area %change	(Intercept)	-5.120	6.284	113.472	-0.815	0.417
	treatment (C)	10.118	8.553	88.979	1.183	0.240
	treatment (CS)	-2.633	8.392	87.794	-0.314	0.754
	treatment (CSA)	-4.633	8.392	87.794	-0.552	0.582
	sponge (D. anc)	0.430	8.884	113.769	0.048	0.961
	treatment (C) : sponge (D. anc)	-8.021	12.551	91.141	-0.639	0.524
	treatment (CS) : sponge (D. anc)	-5.320	11.784	88.452	-0.451	0.653
treatment (CSA) : sponge (D. anc)	-24.170	11.784	88.452	-2.051	0.043	

### Literature Cited

Lüdecke D (2020) sjPlot: Data visualization for statistics in social science. R package version 2.8.5.