

Spatial distribution, microhabitat association, dependence to live corals, and habitat partitioning among five grouper species (family Epinephelidae) in an Okinawan coral reef

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Table S1. Result of principal component analysis (PCA) to summarize the environmental characteristics at the 62 study sites.

Environmental variables	PC axis 1	PC axis 2	PC axis 3	PC axis 4	PC axis 5
Branching <i>Acropora</i>	-0.04	0.121	-0.191	-0.084	-0.362
Tabular <i>Acropora</i>	0.006	0.02	-0.054	-0.037	-0.121
Bottlebrush <i>Acropora</i>	-0.029	0.088	-0.195	-0.124	-0.307
Branching corals	-0.006	0.047	-0.013	0.015	-0.152
Massive corals	0.014	0.027	-0.046	-0.051	-0.176
Other corals	0.026	0.073	-0.074	-0.192	-0.262
Dead branching <i>Acropora</i>	-0.131	0.242	-0.209	0.851	0.176
Dead tabular <i>Acropora</i>	0.006	0.003	0.014	0.01	-0.044
Dead bottlebrush <i>Acropora</i>	-0.055	0.056	-0.108	-0.026	0.317
Dead branching corals	-0.004	0.013	0.006	0.002	-0.021
Dead other corals	-0.017	0.062	-0.051	-0.187	0.084
Soft corals	0.028	0	0.001	-0.004	0.005
Rock	0.881	-0.232	0.208	0.129	0.103
Coral rubble	-0.245	0.288	0.865	-0.025	0.065
Sand	-0.366	-0.873	0.088	0.108	0.001
Macroalgae	-0.067	0.065	-0.239	-0.385	0.694
Depth	0.019	0.016	-0.014	-0.014	-0.004
% variation	63.0	20.5	6.1	3.2	2.4