

**Table S1. List of species for which anemone mutualisms have previously been recorded.**

genus.species	Family	bod.size
Apogon aurolineatus	Apogonidae	64
Ostorhinchus cyanosoma	Apogonidae	80
Apogon maculatus	Apogonidae	114
Ostorhinchus moluccensis	Apogonidae	90
Apogon quadrisquamatus	Apogonidae	64
Ostorhinchus nanus	Apogonidae	35
Pterapogon kauderni	Apogonidae	65
Parablennius incognitus	Blenniidae	58
Plagiotremus tapeinosoma	Blenniidae	130
Hemiemblemaria simulus	Chaenopsidae	102
Chaetodon capistratus	Chaetodontidae	152
Chaetodon kleinii	Chaetodontidae	140
Chaetodon striatus	Chaetodontidae	152
Amblycirrhitus pinos	Cirrhitidae	102
Artedius harringtoni	Psychrolutidae	100
Jordania zonope	Jordaniidae	150
Coryphopterus glaucofraenum	Gobiidae	76
Gnatholepis thompsoni	Gobiidae	76
Gobius bucchichi	Gobiidae	100
Lythrypnus nesiotes	Gobiidae	20
Priolepis hipoliti	Gobiidae	32

Rhinogobiops nicholsii	Gobiidae	150
Haemulon flavolineatum	Haemulidae	305
Oxylebius pictus	Hexagrammidae	250
Myripristis jacobus	Holocentridae	216
Halichoeres bivittatus	Labridae	229
Halichoeres garnoti	Labridae	203
Halichoeres maculipinna	Labridae	165
Labroides dimidiatus	Labridae	115
Thalassoma amblycephalum	Labridae	140
Thalassoma bifasciatum	Labridae	152
Thalassoma lunare	Labridae	250
Thalassoma purpureum	Labridae	430
Xyrichtys novacula	Labridae	381
Xyrichtys splendens	Labridae	140
Labrisomus gobio	Labrisomidae	64
Labrisomus haitiensis	Labrisomidae	76
Labrisomus kalisherai	Labrisomidae	89
Malacoctenus boehlkei	Labrisomidae	63
Malacoctenus gilli	Labrisomidae	76
Malacoctenus macropus	Labrisomidae	57
Malacoctenus triangulatus	Labrisomidae	64
Paraclinus grandicomis	Labrisomidae	40
Starksia hassi	Labrisomidae	44

Centropyge argi	Pomacanthidae	76
Amphiprion akallopisos	Pomacentridae	100
Amphiprion akindynos	Pomacentridae	115
Amphiprion allardi	Pomacentridae	150
Amphiprion barberi	Pomacentridae	86
Amphiprion bicinctus	Pomacentridae	140
Amphiprion chagosensis	Pomacentridae	110
Amphiprion chrysogaster	Pomacentridae	150
Amphiprion chrysopterus	Pomacentridae	170
Amphiprion clarkii	Pomacentridae	120
Amphiprion ephippium	Pomacentridae	120
Amphiprion frenatus	Pomacentridae	60
Amphiprion fuscocaudatus	Pomacentridae	140
Amphiprion latezonatus	Pomacentridae	140
Amphiprion latifasciatus	Pomacentridae	130
Amphiprion leucokranos	Pomacentridae	120
Amphiprion mccullochi	Pomacentridae	120
Amphiprion melanopus	Pomacentridae	130
Amphiprion nigripes	Pomacentridae	110
Amphiprion ocellaris	Pomacentridae	90
Amphiprion omanensis	Pomacentridae	140
Amphiprion pacificus	Pomacentridae	48
Amphiprion percula	Pomacentridae	90

Amphiprion perideraion	Pomacentridae	100
Amphiprion polymnus	Pomacentridae	120
Amphiprion rubrocinctus	Pomacentridae	120
Amphiprion sandaracinos	Pomacentridae	130
Amphiprion sebae	Pomacentridae	140
Amphiprion tricinctus	Pomacentridae	130
Chromis chromis	Pomacentridae	250
Chromis multilineata	Pomacentridae	165
Dascyllus albisella	Pomacentridae	130
Dascyllus auripinnis	Pomacentridae	140
Dascyllus trimaculatus	Pomacentridae	140
Pomacentrus tripunctatus	Pomacentridae	100
Premnas biaculeatus	Pomacentridae	80
Stegastes leucostictus	Pomacentridae	102
Stegastes partitus	Pomacentridae	102
Scarus vetula	Labridae	610
Sparisoma chrysopterus	Labridae	457
Sparisoma viride	Labridae	610
Scorpaena plumieri	Scorpaenidae	406
Cephalopholis fulva	Serranidae	406
Pseudanthias squamipinnis	Serranidae	150

log.bod.size	Recorded stage of association	Association type	States
4.158883083	Juvenile_Adult	Facultative	Juvenile_Adult
4.382026635	Juvenile_Adult	Facultative	Juvenile_Adult
4.736198448	Unknown	Facultative	Unknown
4.49980967	Unknown	Facultative	Unknown
4.158883083	Juvenile_Adult	Facultative	Juvenile_Adult
3.555348061	Juvenile_Adult	Facultative	Juvenile_Adult
4.17438727	Juvenile_Adult	Facultative	Juvenile_Adult
4.060443011	Unknown	Facultative	Unknown
4.86753445	Unknown	Facultative	Unknown
4.624972813	Unknown	Facultative	Unknown
5.023880521	Unknown	Facultative	Unknown
4.941642423	Unknown	Facultative	Unknown
5.023880521	Unknown	Facultative	Unknown
4.624972813	Unknown	Facultative	Unknown
4.605170186	Unknown	Facultative	Unknown
5.010635294	Unknown	Facultative	Unknown
4.33073334	Juvenile_Adult	Facultative	Juvenile_Adult
4.33073334	Juvenile_Adult	Facultative	Juvenile_Adult
4.605170186	Unknown	Facultative	Unknown
2.995732274	Juvenile_Adult	Facultative	Juvenile_Adult
3.465735903	Juvenile_Adult	Facultative	Juvenile_Adult

5.010635294	Unknown	Facultative	Unknown
5.720311777	Juvenile	Facultative	Juvenile
5.521460918	Juvenile_Adult	Facultative	Juvenile_Adult
5.375278408	Juvenile	Facultative	Juvenile
5.433722004	Juvenile	Facultative	Juvenile
5.313205979	Juvenile	Facultative	Juvenile
5.105945474	Juvenile	Facultative	Juvenile
4.744932128	Juvenile	Facultative	Juvenile
4.941642423	Juvenile	Facultative	Juvenile
5.023880521	Juvenile	Facultative	Juvenile
5.521460918	Juvenile	Facultative	Juvenile
6.063785209	Juvenile	Facultative	Juvenile
5.942799375	Juvenile	Facultative	Juvenile
4.941642423	Juvenile	Facultative	Juvenile
4.158883083	Juvenile_Adult	Facultative	Juvenile_Adult
4.33073334	Unknown	Facultative	Unknown
4.48863637	Juvenile_Adult	Facultative	Juvenile_Adult
4.143134726	Unknown	Facultative	Unknown
4.33073334	Juvenile_Adult	Facultative	Juvenile_Adult
4.043051268	Juvenile_Adult	Facultative	Juvenile_Adult
4.158883083	Juvenile_Adult	Facultative	Juvenile_Adult
3.688879454	Juvenile_Adult	Facultative	Juvenile_Adult
3.784189634	Juvenile_Adult	Facultative	Juvenile_Adult

4.33073334	Juvenile_Adult	Facultative	Juvenile_Adult
4.605170186	Juvenile_Adult	Obligate	Obligate
4.744932128	Juvenile_Adult	Obligate	Obligate
5.010635294	Juvenile_Adult	Obligate	Obligate
4.454347296	Juvenile_Adult	Obligate	Obligate
4.941642423	Juvenile_Adult	Obligate	Obligate
4.700480366	Juvenile_Adult	Obligate	Obligate
5.010635294	Juvenile_Adult	Obligate	Obligate
5.135798437	Juvenile_Adult	Obligate	Obligate
4.787491743	Juvenile_Adult	Obligate	Obligate
4.787491743	Juvenile_Adult	Obligate	Obligate
4.094344562	Juvenile_Adult	Obligate	Obligate
4.941642423	Juvenile_Adult	Obligate	Obligate
4.941642423	Juvenile_Adult	Obligate	Obligate
4.86753445	Juvenile_Adult	Obligate	Obligate
4.787491743	Juvenile_Adult	Obligate	Obligate
4.787491743	Juvenile_Adult	Obligate	Obligate
4.86753445	Juvenile_Adult	Obligate	Obligate
4.700480366	Juvenile_Adult	Obligate	Obligate
4.49980967	Juvenile_Adult	Obligate	Obligate
4.941642423	Juvenile_Adult	Obligate	Obligate
3.871201011	Juvenile_Adult	Obligate	Obligate
4.49980967	Juvenile_Adult	Obligate	Obligate

4.605170186 Juvenile_Adult	Obligate	Obligate
4.787491743 Juvenile_Adult	Obligate	Obligate
4.787491743 Juvenile_Adult	Obligate	Obligate
4.86753445 Juvenile_Adult	Obligate	Obligate
4.941642423 Juvenile_Adult	Obligate	Obligate
4.86753445 Juvenile_Adult	Obligate	Obligate
5.521460918 Juvenile	Facultative	Juvenile
5.105945474 Juvenile	Facultative	Juvenile
4.86753445 Juvenile_Adult	Facultative	Juvenile_Adult
4.941642423 Juvenile_Adult	Facultative	Juvenile_Adult
4.941642423 Juvenile_Adult	Facultative	Juvenile_Adult
4.605170186 Unknown	Facultative	Unknown
4.382026635 Juvenile_Adult	Obligate	Obligate
4.624972813 Unknown	Facultative	Unknown
4.624972813 Juvenile_Adult	Facultative	Juvenile_Adult
6.413458957 Juvenile	Facultative	Juvenile
6.124683391 Juvenile	Facultative	Juvenile
6.413458957 Juvenile	Facultative	Juvenile
6.00635316 Juvenile	Facultative	Juvenile
6.00635316 Juvenile	Facultative	Juvenile
5.010635294 Unknown	Facultative	Unknown