

Appendix 8.11 REA Dive Survey Results in Tung Ping Chau

REA Data

Ecological and Substratum Attributes

Ecological Attributes	Rank					
	T1	T2	T3	T4	T5	T6
Hard Coral	3	3	0.5	0.5	2	4
Dead Coral	0	0	0	0	0	0
Octocoral	0	0	0	0	0	0
Sea anemone beds	0	0	0	0	0	0
Dead Standing Corals	0	0	0	0	0	0
Other Benthos	1	1	1	1	1	1
Macroalgae	0	0	0	0	0	0
Substrate						
Bedrock	1	0	0.5	0	0	0
Boulders (diameter >50cm)	1	3	1	2	3	3
Cobbles (diameter <50cm)	0	0	1	1	0	0
Rubble (dead corals)	0	0	5	4	0	0
Sand with gravel	5	3	0	1	3	3
Mud & Silt	0	1	0	0	1	0
Coral Coverage	35%	30%	<5%	<5%	10%	40%

Taxon Abundance

No.	Benthic Communities	#Commonness in Hong Kong	*Abundance					
			T1	T2	T3	T4	T5	T6
Hard Coral								
1	<i>Acanthastrea echinata</i>	Uncommon	0.5	0	0	0	0	0
2	<i>Acropora digitifera</i>	Uncommon	0.5	0.5	0	0	0	0
3	<i>Acropora tumida</i>	Uncommon	0.5	0	0	0	0	0.5

No.	Benthic Communities	#Commonness in Hong Kong	*Abundance					
			T1	T2	T3	T4	T5	T6
4	<i>Goniopora stutchburyi</i>	Common	0.5	0.5	0.5	0.5	0.5	0.5
5	<i>Cyphastrea serailia</i>	Dominant	1	1	0.5	0.5	0.5	0.5
6	<i>Favia fava</i>	Abundant	0.5	0.5	0.5	0	0.5	0.5
7	<i>Favia lizardensis</i>	Common	1	1	0	0	0.5	0.5
8	<i>Favia rotumana</i>	Abundant	1	1	0.5	0.5	1	1
9	<i>Favia speciosa</i>	Abundant	1	0.5	0.5	0.5	0.5	0.5
10	<i>Echinophyllia aspera</i>	Common	0.5	0.5	0	0	0.5	0.5
11	<i>Favites abdita</i>	Dominant	0.5	0.5	0	0	0	1
12	<i>Favites chinensis</i>	Dominant	1	0.5	0.5	0	0.5	0.5
13	<i>Favites pentagona</i>	Dominant	1	0.5	0.5	0	0.5	0.5
14	<i>Galaxea astreata</i>	Uncommon	0.5	0.5	0.5	0	0.5	0.5
15	<i>Goniastrea aspera</i>	Common	1	0.5	0.5	0.5	0.5	0.5
16	<i>Goniopora lobata</i>	Common	0.5	0.5	0	0.5	0.5	0.5
17	<i>Hydnophora exesa</i>	Abundant	0.5	0	0	0	0.5	0.5
18	<i>Leptastrea pruinosa</i>	Abundant	0.5	0	0	0	0.5	0.5
19	<i>Leptastrea purpurea</i>	Abundant	1	1	0.5	0.5	0.5	0.5
20	<i>Lithophyllon undulatum</i>	Common	0.5	0	0.5	0	0.5	0.5
21	<i>Montipora peltiformis</i>	Common	1	0.5	0.5	0	0	0.5
22	<i>Pavona decussata</i>	Abundant	0.5	0.5	0.5	0	0.5	0.5
23	<i>Platygyra acuta</i>	Dominant	1	1	0.5	0	1	0.5
24	<i>Platygyra carnosus</i>	Common	0.5	0.5	0.5	0	0.5	1
25	<i>Platygyra yaeyamaensis</i>	Rare	0	0.5	0	0	0	0.5
26	<i>Porites lobata</i>	Common	1	0.5	0.5	0.5	0.5	0.5
27	<i>Porites lutea</i>	Dominant	1	1	0	0	0	1
28	<i>Psammocora haimeana</i>	Uncommon	1	1	0.5	0.5	0	0.5
29	<i>Turbinaria peltata</i>	Common	0.5	0.5	0	0	0	0.5

No.	Benthic Communities	#Commonness in Hong Kong	*Abundance					
			T1	T2	T3	T4	T5	T6
Black Coral								
30	<i>Antipathes curvata</i>	Very Common	0	0.5	0	0	0	0.5
Other Benthos								
31	<i>Anthocidaris crassipina</i>	Common	0.5	0.5	0.5	0.5	0.5	0.5
32	<i>Diadema setosum</i>	Common	0.5	0.5	0.5	0.5	0.5	0.5
33	<i>Salmacis sphaeroides</i>	Common	0.5	0.5	0	0.5	0.5	0.5
34	<i>Holothuria leucospilota</i>	Common	0.5	0.5	0.5	0	0.5	0.5
35	<i>Pinna</i> sp.	Common	0	0.5	0	0.5	0	0.5
36	<i>Septifer virgatus</i>	Common	0	0.5	0.5	0	0.5	0

Coral: Chan *et al.* 2005; Black Coral: Chow *et al.* 2016

* Rank of percentage cover: 0 = None recorded; 0.5 = 1-5%; 1 = 6-10%; 2 = 11-30 %; 3 = 31-50%; 4= 51-75 %; 5 = 76-100%.