

Supplementary Material

Table S1. Species' abundances by location and method

Mean abundance measured by *MaxN* using BRUV (baited remote underwater video), and mean density (m⁻²) by UVC (underwater visual census) (see Methods for more details). Locations are abbreviated as in Fig. 1

Species	BRUV						UVC					
	AB	BH	PW	PE	CC	CH	AB	BH	PW	PE	CC	CH
<i>Acanthaluteres vittiger</i>	0.0455	0.5294	0.0952	0.4167	0.1000	0.2083	0.0010	0.0020	0.0093	0.0006	0	0.0093
<i>Acanthistius ocellatus</i>	0	0	0	0	0.1000	0.3750	0	0	0	0	0	0.0004
<i>Achoerodus viridis</i>	0	0	0	0.25	0.5000	0.2083	0	0	0	0	0.0069	0.0018
<i>Allomycterus pilatus</i>	0	0	0	0.0833	0	0						
<i>Aplodactylus arctidens</i>	0.1364	0.0588	0.1905	0.4167	0.1000	0.1667	0.0015	0.0001	0.0021	0.0005	0.0049	0.0001
<i>Aracana aurita</i>	0.0909	0	0.0476	0	0	0	0.0008	0	0.0013	0.0005	0	0
<i>Aracana ornata</i>	0	0	0	0.5000	0	0	0	0	0.0001	0.0003	0	0
<i>Atypichthys strigatus</i>	0	0	2.1905	2.6667	0.6000	23.9167	0.0002	0	0.0214	0.0214	0.0451	0.0941
<i>Aulopus purpurissatus</i>	0.0455	0.0588	0	0	0	0	0.0001	0	0	0.0002	0	0
<i>Caesioperca lepidoptera</i>	0	0	0.0476	0.4167	10.4000	10.0417	0	0	0.0001	0.0189	0.5393	0.0395
<i>Caesioperca rasor</i>	0.0455	1.8824	4.5714	3.8333	2.7000	0.1250	0.0123	0.0008	0.0595	0.1126	0.0066	0.0015
<i>Cephaloscyllium laticeps</i>	0.4091	0.0588	0.2381	0	4.9000	1.0833	0.0000	0.0001	0.0007	0.0001	0.0023	0.0009
<i>Cheilodactylus fuscus</i>	0	0	0	0	0	0.0417	0	0	0	0	0	0.0052
<i>Cheilodactylus nigripes</i>	0.3636	0.5882	0.5238	0.5833	0.5000	0	0.0048	0.0030	0.0031	0.0117	0.0007	0.0001
<i>Cheilodactylus spectabilis</i>	0.0455	0	0.1429	0.0833	0.2000	0.4583	0.0000	0.0001	0.0003	0.0001	0.0139	0.0054
<i>Chironemus marmoratus</i>	0	0	0	0	0	0.0417	0	0	0	0	0	0.0026
<i>Chromis hypsilepis</i>	0	0	0	0	0	4.3333	0	0	0	0	0	0.0272

<i>Chrysophrys auratus</i>	4.2727	0.9412	0.2381	0.2500	0	3.2917	0.0001	0	0	0	0	0.0022
<i>Coris sandageri</i>							0	0	0	0	0	0.0002
<i>Crinodus lophodon</i>	0	0	0	0	0.3000	0.0417	0	0	0	0	0.0021	0.0033
<i>Dactylophora nigricans</i>	0.0909	0.0588	0	0.2500	0	0	0.0003	0	0.0004	0	0	0
<i>Dasyatis brevicaudata</i>	0.1818	0.3529	0.0476	0	0	0.0417						
<i>Dicotylichthys punctulatus</i>							0	0	0	0.0002	0.0002	0.0002
<i>Dinolestes lewini</i>	0.7727	0.1765	1.6667	0.7500	1.9000	0.7500	0.0068	0.0026	0.0081	0.0019	0.0006	0.0068
<i>Diodon nichthemerus</i>							0.0008	0.0003	0.0004	0.0009	0.0005	0.0005
<i>Dotolabrus aurantiacus</i>	0.0455	0	0.0476	0.1667	0	0.0417	0.0001	0.0004	0.0001	0.0015	0.0002	0
<i>Eeyorius hutchinsi</i>	0.0455	0	0	0	0.1000	0						
<i>Enoplosus armatus</i>	0.1818	0.8235	0.3810	0.9167	0.6000	0.0833	0.0012	0.0015	0.0062	0.0110	0.0013	0.0131
<i>Eubalichthys bucephalus</i>	0	0	0	0	0	0.2500	0	0	0	0	0	0.0006
<i>Eubalichthys gunnii</i>	0	0	0	0.0833	0	0	0	0	0	0.0005	0	0
<i>Eubalichthys mosaicus</i>	0	0.0588	0	0	0.4000	0.3333	0	0	0	0.0002	0.0002	0
<i>Eupetrichthys angustipes</i>	0	0	0.0476	0	0.1000	0	0	0.0003	0.0009	0.0006	0.0017	0.0035
<i>Girella elevata</i>	0	0	0	0	0.1000	0	0	0	0.0001	0	0.0027	0
<i>Girella zebra</i>	0.6364	0.0588	0.5238	0.7500	1.3000	0.0833	0.0009	0.0059	0.0056	0.0016	0.0022	0.0005
<i>Gymnothorax prasinus</i>	0	0	0	0	0.3000	1.2500	0	0	0	0	0	0.0002
<i>Haletta semifasciata</i>	0.0455	0	0	0.1667	0	0	0.0000	0	0	0	0	0
<i>Heterodontus portusjacksoni</i>	0.3636	0.1176	0.5238	0.0833	0.3000	0.3750	0	0	0	0	0	0.0016
<i>Hypoplectrodes maccullochi</i>	0	0	0	0	0.2000	0.5833	0	0	0	0	0.0081	0.0039
<i>Hypoplectrodes nigroruber</i>							0	0	0	0.0010	0.0003	0
<i>Latridopsis forsteri</i>	0.0909	0	0.0476	0.0833	0.2000	0.1250	0.0004	0	0.0005	0.0003	0	0.0005
<i>Lepidotrigla vanessa</i>							0.0001	0	0	0	0	0
<i>Lotella rhacina</i>	0	0	0	0	0.1000	0	0	0	0	0	0.0013	0.0002
<i>Meuschenia australis</i>	0	0	0.0476	0	0	0	0	0.0001	0.0003	0	0	0
<i>Meuschenia flavolineata</i>	0	0.6471	0.0952	0.2500	0.2000	0	0.0004	0.0055	0.0002	0.0005	0	0.0002

<i>Meuschenia freycineti</i>	0.8636	0.9412	0.3333	0.7500	1.3000	1.5833	0.0002	0.0002	0.0012	0.0004	0	0.0009
<i>Meuschenia galii</i>	0	0.3529	0	0	0	0	0.0000	0.0003	0	0	0	0
<i>Meuschenia hippocrepis</i>	2.7273	1.5882	0	0	0.1000	0	0.0090	0.0032	0.0001	0	0	0
<i>Meuschenia scaber</i>	0	0	0	0	2.3000	1.0000	0.0005	0	0	0	0.0019	0.0006
<i>Meuschenia venusta</i>	0	0	0	0	0.1000	0	0	0	0	0	0.0002	0.0001
<i>Mustelus antarcticus</i>	0	0	0	0.0833	0.1000	0.1667						
<i>Myliobatis australis</i>	0.5000	0.1765	0.2857	0.0833	0.1000	0.0417	0.0002	0	0	0	0	0
<i>Nemadactylus douglasii</i>	0	0	0	0.1667	1.7000	0.4167	0	0	0	0	0.0042	0.0019
<i>Nemadactylus macropterus</i>	0	0	0	0	0	0.0833	0	0	0	0.0001	0	0
<i>Neodax balteatus</i>	0	0	0	0.0833	0	0	0.0002	0	0	0.0010	0.0003	0
<i>Notolabrus fucicola</i>	2.5455	0.1176	0.7619	0.1667	1.0000	0.3750	0.0071	0.0004	0.0087	0.0015	0.0138	0.0024
<i>Notolabrus gymnogenis</i>	0	0	0	0	0.2000	0.2917	0	0.0001	0	0	0.0071	0.0069
<i>Notolabrus tetricus</i>	4.5455	7.0000	5.5714	9.5000	5.6000	1.9583	0.0093	0.0171	0.0397	0.0380	0.0572	0.0187
<i>Odax acroptilus</i>	0.0455	0.0588	0.0476	0.2500	0	0	0.0001	0	0.0006	0.0012	0	0.0002
<i>Odax cyanomelas</i>	0.4091	0.8235	0.5238	0.6667	0.5000	0.4583	0.0048	0.0030	0.0123	0.0027	0.0015	0.0090
<i>Ophthalmolepis lineolata</i>	0	0	0	0.1667	4.9000	4.8333	0	0	0	0.0009	0.0148	0.0206
<i>Optivus agastos</i>							0	0	0	0.0002	0	0.0003
<i>Parequula melbournensis</i>	0.4545	0	0.1429	0.5833	2.6000	0.2917	0	0	0.0068	0.0010	0.0082	0.0002
<i>Parma microlepis</i>	0	0	0	0.1667	1.5000	1.3750	0	0	0.0002	0.0041	0.0474	0.0246
<i>Parma victoriae</i>	0.1364	0.4706	0.2857	0.1667	0	0	0.0005	0.0039	0.0042	0.0034	0	0
<i>Pempheris compressa</i>							0	0	0.0005	0	0	0.015
<i>Pempheris multiradiata</i>	0	0.1765	0	0	0	0	0.0072	0.0146	0.0086	0.0059	0.0264	0.0249
<i>Pentaceropsis recurvirostris</i>	0	0	0.1429	0	0.2000	0.0417	0.0002	0.0002	0.0001	0.0005	0.0002	0.0001
<i>Pictilabrus laticlavus</i>	0.5455	1.1176	0.4286	1.1667	0.9000	0.2083	0.0013	0.0018	0.0029	0.0086	0.0118	0.0069
<i>Platycephalus bassensis</i>	0.1818	0	0.2857	0.4167	0.1000	0						
<i>Pseudolabrus psittaculus</i>	0.3182	0.0588	0.1429	0.0833	3.2000	0.1250	0.0003	0	0.0013	0.0012	0.0201	0.0005
<i>Pseudophycis bachus</i>							0	0	0	0.0005	0	0

<i>Pseudophycis barbata</i>	0.3182	0	0.1905	0.4167	0	0							
<i>Rexea solandri</i>	0	0	0	0.4167	0	0							
<i>Scobinichthys granulatus</i>	0	0	0	0.3333	0	0	0	0	0.0001	0	0.0002	0	
<i>Scorpis aequipinnis</i>	0.1818	1.7059	0.0476	0.9167	0	0	0.0037	0.0041	0.0125	0.0073	0.0002	0	
<i>Scorpis lineolata</i>	0	0.8235	0.5714	3.6667	0.2000	9.0417	0	0.0008	0.0010	0.0352	0.0969	0.0230	
<i>Seriola lalandi</i>	0	0	0	0	0.1000	0.1667							
<i>Sillaginodes punctatus</i>	0.9091	0.2941	0.6667	3.0833	0	0	0	0	0.0031	0	0	0	
<i>Siphonognathus beddomei</i>							0	0	0.0016	0	0	0	
<i>Sphyraena novaehollandiae</i>	0.1364	0	0.1429	0.2500	1.4000	0.2083	0	0	0	0	0	0.0001	
<i>Suezichthys aylingi</i>							0	0	0	0	0	0.0004	
<i>Tetractenos glaber</i>	0.0455	0.0588	0.1429	0	0	0.0833	0.0001	0	0.0001	0	0	0	
<i>Tilodon sexfasciatum</i>	0	0.1765	0.0952	0.0833	0	0	0.0005	0.0006	0.0003	0.0007	0	0	
<i>Trachinops caudimaculatus</i>	0	2.2941	0	0	0	0	0	0.0044	0	0.0006	0	0	
<i>Trachinops taeniatus</i>							0	0	0	0	0	0.0255	
<i>Trachurus declivis</i>							0	0	0	0.0098	0.0436	0	
<i>Trachurus novaezealandiae</i>	0.1364	5.6471	0	6.4167	0	37.5000	0	0	0.0002	0	0	0.1297	
<i>Trygonorrhina fasciata</i>	0.2273	0	0.1905	0	0	0	0.0001	0	0	0	0	0	
<i>Trygonorrhina</i> sp. A	0.0455	0	0	0	0	0.0417							
<i>Urolophus cruciatus</i>	0	0	0	0	0.4000	0	0	0	0	0	0.0019	0.0003	