

Table S1. List of species captured by light traps during the three austral warm seasons. The species are organized according to Nelson (2006). Total abundances are reported for each site with ANA=Anakao reef, and GRT= great barrier reef of Toliara (see Fig. 1 for the exact position of each site).

ORDER Nelson 2006	FAMILY Eschmeyer	Genus species	BIN	GRT	ANA		
ACTINOPTERYGII_ord	ACTINOPTERYGII_fam	Actinopterygii [BOLD:ADN1799]	BOLD:ADN1799	1	1		
ALBULIFORMES	ALBULIDAE	Albulidae sp1 (COLOR)	-	3	0		
ANGUILLIFORMES	CONGRIDAE	<i>Ariosoma scheelei</i>	BOLD:AAJ1709	10	8		
		Congridae [BOLD:ACV7958]	BOLD:ACV7958	3	0		
		Congridae sp1 (COLOR)	-	1	0		
		Congridae_gen sp_1HJ	-	0	2		
		Congridae_gen sp_2HJ	-	0	1		
	MURAENIDAE	Muraenidae sp2 (COLOR)	-	4	3		
		Muraenidae sp3 (COLOR)	-	4	1		
ATHERINIFORMES	ATHERINIDAE	<i>Atherinomorus lacunosus</i>	BOLD:ACK7521	31935	335		
		<i>Hypoatherina</i> [BOLD:AAL7563]	BOLD:AAL7563	3	1		
		<i>Hypoatherina</i> [BOLD:ACV9758]	BOLD:ACV9758	3726	788		
AULOPIIFORMES	SYNODONTIDAE	Synodontinae [BOLD:ADO5473]	BOLD:ADO5473	0	2		
		<i>Synodus</i> [BOLD:ACD1807]	BOLD:ACD1807	4	1		
		<i>Synodus</i> [BOLD:AAB5069]	BOLD:AAB5069	1	5		
		<i>Trachinocephalus</i> [BOLD:ACY8623]	BOLD:ACY8623	7	5		
		<i>Trachinocephalus</i> [BOLD:AAA9578]	BOLD:AAA9578	1	0		
		<i>Trachinocephalus</i> [BOLD:ABX6347]	BOLD:ABX6347	0	5		
BELONIFORMES	BELONIDAE	<i>Tylosurus</i> [BOLD:AAC4148]	BOLD:AAC4148	1	0		
		<i>Tylosurus</i> sp_1HJ	-	2	0		
	HEMIRAMPHIDAE	<i>Hemiramphus</i> [BOLD:AAC0565]	BOLD:AAC0565	1	0		
		<i>Hyporhamphus affinis</i>	BOLD:AAD0579	1	1		
BERYCIFORMES	HOLOCENTRIDAE	<i>Myripristis</i> [BOLD:AAA9764]	BOLD:AAA9764	0	1		
		<i>Neoniphon</i> [BOLD:AAC8278]	BOLD:AAC8278	8	16		
		<i>Sargocentron</i> [BOLD:AAB3424]	BOLD:AAB3424	3	15		
		<i>Sargocentron praslin</i>	BOLD:AAC4647	0	2		
		<i>Sargocentron punctatissimum</i>	-	0	3		
CLUPEIFORMES	CLUPEIDAE	Clupeidae [BOLD:ACV7999]	BOLD:ACV7999	1105	25		
		Clupeidae sp3 (COLOR)	-	21	0		
		<i>Herklotsichthys quadrimaculatus</i>	BOLD:AAC2887	2086	671		
CLUPEIFORMES	ENGRAULIDAE	<i>Stolephorus</i> [BOLD:AAG4825]	BOLD:AAG4825	8	5		
ELOPIIFORMES	MEGALOPIDAE	<i>Megalops cyprinoides</i>	BOLD:AAC4501	2	0		
PERCIFORMES	ACANTHURIDAE	<i>Acanthurus blochii</i>	BOLD:AAF0623	2	5		
		<i>Acanthurus dussumieri</i>	BOLD:AAE4046	5	40		
		<i>Acanthurus mata</i>	BOLD:AAE4025	3	1		
		<i>Acanthurus nigricauda</i>	BOLD:AAB8729	18	4		
		<i>Acanthurus nigrofuscus</i>	-	1	0		
		<i>Acanthurus</i> sp_1HJ	-	2	1		
		<i>Acanthurus triostegus</i>	BOLD:AAA9362	11	41		
		<i>Acanthurus xanthopterus</i>	BOLD:AAC6467	17	24		
		<i>Ctenochaetus binotatus</i>	BOLD:AAB9166	0	1		
		<i>Ctenochaetus striatus</i>	BOLD:AAB9167	2	1		
		<i>Naso brevirostris</i>	BOLD:AAC1635	4	7		
				<i>Naso</i> sp_1HJ	-	0	2
				<i>Zebrasoma</i> [BOLD:AAF6311]	BOLD:AAF6311	5	9
		<i>Zebrasoma scopas</i>	BOLD:AAB3788	1	0		
PERCIFORMES	APOGONIDAE	<i>Apogon</i> [BOLD:AAF8427]	BOLD:AAF8427	1	0		
		<i>Apogon</i> [BOLD:ACC5690]	BOLD:ACC5690	15	13		
		<i>Apogon</i> [BOLD:ACW9154]	BOLD:ACW9154	6	1		
		<i>Apogon</i> [BOLD:AAJ8751]	BOLD:AAJ8751	29	0		

		<i>Apogon</i> [BOLD:AAD2206]	BOLD:AAD2206	30	4
		<i>Apogonichthys ocellatus</i>	-	0	1
		<i>Apogonichthys perdix</i>	BOLD:ABU8857	565	193
		Apogonidae [BOLD:AAL7906]	BOLD:AAL7906	1	0
		Apogonidae [BOLD:ACV6948]	BOLD:ACV6948	199	22
		Apogonidae [BOLD:ACW8182]	BOLD:ACW8182	2	0
		Apogonidae [BOLD:ACY1702]	BOLD:ACY1702	4	2
		Apogonidae [BOLD:ACY8539]	BOLD:ACY8539	1	0
		Apogonidae [BOLD:ADN3788]	BOLD:ADN3788	9	0
		Apogonidae [BOLD:ADO4802]	BOLD:ADO4802	1	1
		Apogonidae sp41 (COLOR)	-	1	0
		Apogonidae sp43 (COLOR)	-	1	0
		Apogonidae_gen sp_1HJ	-	0	3
		<i>Fowleria</i> [BOLD:AAD8726]	BOLD:AAD8726	17	15
		<i>Nectamia</i> [BOLD:AAL9262]	BOLD:AAL9262	189	21
		<i>Nectamia</i> [BOLD:AAD9453]	BOLD:AAD9453	2	0
		<i>Ostorhinchus</i> [BOLD:AAD5600]	BOLD:AAD5600	0	1
		<i>Ostorhinchus</i> [BOLD:AAJ1260]	BOLD:AAJ1260	11	1
		<i>Ostorhinchus</i> [BOLD:ACV9601]	BOLD:ACV9601	24	10
		<i>Ostorhinchus angustatus</i>	BOLD:AAD5116	171	8
		<i>Ostorhinchus</i> [BOLD:ACE9301]	BOLD:ACE9301	14	0
		<i>Ostorhinchus</i> [BOLD:AAC2084]	BOLD:AAC2084	533	48
		<i>Ostorhinchus</i> [BOLD:AAD8453]	BOLD:AAD8453	30	0
		<i>Ostorhinchus</i> [BOLD:AAD8454]	BOLD:AAD8454	206	4
		<i>Ostorhinchus flagelliferus</i>	BOLD:AAJ1254	0	1
		<i>Ostorhinchus gularis</i>	BOLD:ACS5956	9	0
		<i>Pristiapogon</i> [BOLD:AAJ1264]	BOLD:AAJ1264	1	0
		<i>Pristiapogon</i> [BOLD:AAB4082]	BOLD:AAB4082	1	4
		<i>Taeniamia flavofasciata</i>	BOLD:AAU1539	1	0
		<i>Zoramia fragilis</i>	BOLD:AAB8394	19	1
PERCIFORMES	BLENNIIDAE	<i>Aspidontus dussumieri</i>	-	1	0
		<i>Aspidontus tractus</i>	-	1	1
		<i>Omobranchus</i> [BOLD:ACY8418]	BOLD:ACY8418	1	0
		<i>Petrosirtes</i> [BOLD:AAE6131]	BOLD:AAE6131	173	131
		<i>Plagiotremus rhinorhynchus</i>	-	0	1
		<i>Salaria</i> [BOLD:ACV7965]	BOLD:ACV7965	30	1
		<i>Salaria</i> [BOLD:ADN2100]	BOLD:ADN2100	1	0
PERCIFORMES	CAESIONIDAE	<i>Caesio</i> [BOLD:AAB4823]	BOLD:AAB4823	80	18
		<i>Dipterygnotus balteatus</i>	BOLD:AAD3666	3	0
	CALLIONYMIDAE	<i>Callionymus filamentosus</i>	BOLD:ACZ1215	2	0
	CARANGIDAE	<i>Atule</i> [BOLD:AAB3382]	BOLD:AAB3382	10	0
		<i>Carangoides ferdau</i>	BOLD:AAE7640	1	0
		<i>Caranx ignobilis</i>	BOLD:AAB0587	1	1
		<i>Caranx sexfasciatus</i>	BOLD:AAB0584	1	1
		<i>Gnathanodon speciosus</i>	BOLD:AAB7462	1	0
		<i>Selar</i> [BOLD:AAB0871]	BOLD:AAB0871	0	1
	CHAETODONTIDAE	<i>Chaetodon</i> [BOLD:AAC8636]	BOLD:AAC8636	0	1
		<i>Chaetodon auriga</i>	-	62	184
		<i>Chaetodon bennetti</i>	BOLD:ACE8647	1	0
		<i>Chaetodon blackburnii</i>	BOLD:AAE1178	0	1
		<i>Chaetodon guttatissimus</i>	BOLD:AAD3872	0	1
		<i>Chaetodon interruptus</i>	-	1	0
		<i>Chaetodon kleinii</i>	BOLD:AAC2841	0	1
		<i>Chaetodon lunula</i>	-	0	9
		<i>Chaetodon melannotus</i>	BOLD:AAC2848	5	2

	<i>Chaetodon trifascialis</i>	-	1	0	
	<i>Chaetodon trifasciatus</i>	BOLD:AAB7102	4	4	
	<i>Chaetodon xanthocephalus</i>	BOLD:AAE1213	2	2	
	<i>Chaetodon zanzibarensis</i>	BOLD:AAE9260	2	0	
CORYPHAENIDAE	<i>Coryphaena hippurus</i>	BOLD:AAA5277	1	0	
ELEOTRIDAE	<i>Eleotris</i> [BOLD:ACV7471]	BOLD:ACV7471	0	1	
GOBIIDAE	<i>Asterropteryx</i> [BOLD:AAC0108]	BOLD:AAC0108	2	4	
	<i>Gnatholepis</i> [BOLD:AAI5395]	BOLD:AAI5395	5	6	
	Gobiidae [BOLD:ACV9382]	BOLD:ACV9382	1	17	
	Gobiidae sp3 (COLOR)	-	1	0	
	Gobiidae sp4 (COLOR)	-	1	0	
	Gobiidae sp5 (COLOR)	-	4	0	
	<i>Valenciennea</i> [BOLD:AAC4124]	BOLD:AAC4124	0	1	
HAEMULIDAE	<i>Plectorhinchus</i> [BOLD:AAF8797]	BOLD:AAF8797	0	1	
LABRIDAE	<i>Cheilinus</i> [BOLD:AAB4186]	BOLD:AAB4186	0	1	
	<i>Epibulus insidiator</i>	BOLD:AAB8858	0	1	
	<i>Stethojulis</i> [BOLD:AAD4824]	BOLD:AAD4824	0	3	
	<i>Stethojulis</i> [BOLD:ADI2646]	BOLD:ADI2646	1	2	
LEIOGNATHIDAE	<i>Aurigequula fasciata</i>	-	1	0	
LETHRINIDAE	<i>Lethrinus</i> [BOLD:AAB0511]	BOLD:AAB0511	421	249	
	<i>Lethrinus</i> [BOLD:AAC1521]	BOLD:AAC1521	10	8	
	<i>Lethrinus</i> [BOLD:ABZ0131]	BOLD:ABZ0131	6	0	
	<i>Lethrinus mahsena</i>	BOLD:AAB6438	595	543	
	<i>Lethrinus obsoletus</i>	BOLD:AAC1522	1	0	
	<i>Lethrinus</i> sp3 (COLOR)	-	10	7	
	<i>Lethrinus</i> sp4 (COLOR)	-	0	1	
	<i>Lethrinus</i> sp5 (COLOR)	-	2	2	
LUTJANIDAE	<i>Lutjanus argentimaculatus</i>	BOLD:AAB2440	1	0	
	<i>Lutjanus fulviflamma</i>	BOLD:ADF5681	448	193	
	<i>Lutjanus gibbus</i>	BOLD:AAB3276	13	15	
	<i>Lutjanus monostigma</i>	BOLD:AAB2907	0	1	
PERCIFORMES	LUTJANIDAE	<i>Lutjanus notatus</i>	BOLD:AAF7731	2	10
MICRODESMIDAE	<i>Ptereleotris evides</i>	BOLD:AAD9105	1	0	
MONODACTYLIDAE	<i>Monodactylus argenteus</i>	BOLD:AAA9698	1	0	
MULLIDAE	<i>Parupeneus</i> [BOLD:AAB2590]	BOLD:AAB2590	0	3	
	<i>Parupeneus</i> [BOLD:AAB5978]	BOLD:AAB5978	0	14	
	<i>Parupeneus cyclostomus</i>	BOLD:AAD1433	1	0	
	<i>Parupeneus macronemus</i>	BOLD:ACF0223	2	5	
	<i>Upeneus pori</i>	BOLD:AAC1406	1	3	
NOMEIDAE	<i>Psenes cyanophrys</i>	BOLD:AAE0701	1	0	
PEMPHERIDAE	<i>Parapriacanthus ransonneti</i>	BOLD:AAC7599	150	2	
	<i>Pempheris</i> [BOLD:AAF8820]	BOLD:AAF8820	5	12	
PLESIOPIDAE	<i>Plesiops</i> [BOLD:AAE4785]	BOLD:AAE4785	166	5	
POLYNEMIDAE	<i>Polydactylus malagasyensis</i>	BOLD:AAB7311	1	0	
	<i>Polydactylus plebeius</i>	BOLD:AAC6244	1	1	
POMACANTHIDAE	<i>Centropyge multispinis</i>	BOLD:AAD3135	1	1	
	<i>Pomacanthus semicirculatus</i>	BOLD:ACK8181	20	3	
POMACENTRIDAE	<i>Abudefduf</i> [BOLD:ACK8109]	BOLD:ACK8109	1	0	
	<i>Abudefduf sparoides</i>	-	0	1	
	<i>Abudefduf vaigiensis</i>	-	4	16	
	<i>Amblyglyphidodon indicus</i>	BOLD:ACF1984	2	2	
	<i>Chromis atripectoralis</i>	BOLD:AAB9018	1	0	
	<i>Chromis</i> [BOLD:ACF0042]	BOLD:ACF0042	2	0	
	<i>Chromis fieldi</i>	BOLD:AAC0458	1	0	
	<i>Chromis nigrura</i>	BOLD:AAD5022	1	0	
	<i>Chromis tematensis</i>	BOLD:AAC6972	1	1	

		<i>Chromis viridis</i>	BOLD:AAB4985	226	151
		<i>Chromis weberi</i>	-	6	9
		<i>Chrysiptera annulata</i>	BOLD:AAF2723	69	31
		<i>Chrysiptera brownriggii</i>	BOLD:AAB6234	1	2
		<i>Dascyllus abudafur</i>	BOLD:AAB4091	8	6
		<i>Dascyllus carneus</i>	BOLD:AAD7114	0	3
		<i>Dascyllus trimaculatus</i>	BOLD:AAB2685	174	122
		<i>Neopomacentrus</i> [BOLD:AAC8318]	BOLD:AAC8318	10	0
		<i>Plectroglyphidodon</i> [BOLD:AAB6988]	BOLD:AAB6988	31	14
		<i>Plectroglyphidodon dickii</i>	-	13	6
		<i>Pomacentrus agassizii</i>	-	4	3
		<i>Pomacentrus</i> [BOLD:AAB9539]	BOLD:AAB9539	4	4
		<i>Pomacentrus sulfureus</i>	BOLD:AAD2952	2	0
		<i>Pomacentrus trilineatus</i>	BOLD:AAU3550	368	206
	PRIACANTHIDAE	<i>Priacanthus</i> sp_1HJ	-	0	2
	PSEUDOCROMIDAE	<i>Halidesmus</i> sp. Madagascar	BOLD:AAU1500	8	0
		<i>Pseudochromis madagascariensis</i>	BOLD:AAU3299	2	43
	SCARIDAE	<i>Calotomus spinidens</i>	BOLD:AAD4765	1	1
		<i>Scarus</i> [BOLD:ABY4451]	BOLD:ABY4451	0	1
	SERRANIDAE	<i>Epinephelus areolatus</i>	BOLD:AAA9822	1	0
		<i>Plectropomus punctatus</i>	BOLD:AAN4283	5	4
	SIGANIDAE	<i>Siganus argenteus</i>	BOLD:AAC6461	0	1
		<i>Siganus sutor</i>	BOLD:AAB6556	262	257
	SPHYRAENIDAE	<i>Sphyræna</i> [BOLD:AAD0400]	BOLD:AAD0400	2	1
		<i>Sphyræna</i> [BOLD:ACV9716]	BOLD:ACV9716	3	0
		<i>Sphyræna barracuda</i>	BOLD:AAA6100	27	6
	TERAPONTIDAE	<i>Terapon</i> [BOLD:ACV8977]	BOLD:ACV8977	32	1
		<i>Enneapterygius</i> [BOLD:AAT9889]	BOLD:AAT9889	0	2
		<i>Enneapterygius</i> [BOLD:ACV9383]	BOLD:ACV9383	10	10
		Tripterygiidae sp1 (COLOR)	-	1	1
PLEURONECTIFORMES	BOTHIDAE	Bothidae sp2 (COLOR)	-	0	1
		<i>Bothus pantherinus</i>	BOLD:AAC9155	9	11
		<i>Crossorhombus valderostratus</i>	BOLD:AAF8808	0	1
SCORPAENIFORMES	DACTYLOPTERIDAE	<i>Dactyloptena</i> [BOLD:AAB5966]	BOLD:AAB5966	0	4
	PLATYCEPHALIDAE	Platycephalidae [BOLD:ACY6212]	BOLD:ACY6212	1	1
	SCORPAENIDAE	<i>Dendrochirus</i> [BOLD:AAC9564]	BOLD:AAC9564	0	2
		<i>Pterois miles</i>	BOLD:AAB8146	0	3
		Scorpaenidae [BOLD:AAC4543]	BOLD:AAC4543	36	13
		Scorpaenidae [BOLD:AAU1214]	BOLD:AAU1214	2	1
		Scorpaenidae sp5 (COLOR)	-	0	1
		Scorpaenidae sp9 (COLOR)	-	1	0
		Scorpaenidae_gen sp_2HJ	-	4	1
		<i>Sebastapistes</i> [BOLD:AAC4542]	BOLD:AAC4542	1	4
	SYNANCEIIDAE	<i>Synanceia</i> [BOLD:AAE2821]	BOLD:AAE2821	0	1
	CENTRISCIDAE	<i>Aeoliscus punctulatus</i>	BOLD:AAD3585	1	0
	FISTULARIIDAE	<i>Fistularia commersonii</i>	BOLD:AAB5992	22	26
	SYNGNATHIDAE	<i>Corythoichthys</i> [BOLD:AAI8860]	BOLD:AAI8860	449	8
		<i>Corythoichthys haematopterus</i>	BOLD:AAF0628	125	8
		<i>Hippichthys</i> [BOLD:AAE5342]	BOLD:AAE5342	9	4
		<i>Hippocampus camelopardalis</i>	BOLD:AAE0875	3	0
		<i>Hippocampus</i> [BOLD:ACE6993]	BOLD:ACE6993	1	0
		<i>Hippocampus</i> sp_16HJ	-	1	0
		Syngnathidae sp8 (COLOR)	-	1	0
		Syngnathidae sp9 (COLOR)	-	14	0
		Syngnathidae_gen sp_12HJ	-	0	3

		Syngnathidae_gen sp_13HJ	-	0	1
		Syngnathidae_gen sp_14HJ	-	3	0
		Syngnathidae_gen sp_1HJ	-	1	0
TETRAODONTIFORMES	BALISTIDAE	<i>Balistoides viridescens</i>	BOLD:AAD0474	5	1
		<i>Pseudobalistes fuscus</i>	BOLD:ACZ6203	0	4
		<i>Sufflamen chrysopterum</i>	BOLD:AAB1339	1	4
	MONACANTHIDAE	<i>Cantherhines pardalis</i>	BOLD:AAB9564	2	1
		<i>Paramonacanthus barnardi</i>	-	0	1
		<i>Paramonacanthus pusillus</i>	BOLD:AAV6227	31	13
		<i>Pervagor janthinosoma</i>	BOLD:AAD6159	5	0
		<i>Pseudalutarius</i> [BOLD:AAI4531]	BOLD:AAI4531	2	2
	OSTRACIIDAE	<i>Lactoria</i> [BOLD:AAF2668]	BOLD:AAF2668	1	0
		<i>Lactoria cornuta</i>	BOLD:AAB2988	9	2
		<i>Ostracion cubicus</i>	BOLD:AAC2246	0	2
	TETRAODONTIDAE	<i>Arothron hispidus</i>	BOLD:AAB9202	25	9
		<i>Arothron immaculatus</i>	BOLD:AAD2857	2	0
		<i>Canthigaster</i> [BOLD:ACC1190]	BOLD:ACC1190	2	0
		<i>Canthigaster bennetti</i>	BOLD:AAC6218	1	4
		<i>Canthigaster petersii</i>	BOLD:AAD2222	6	1
		<i>Canthigaster valentini</i>	-	1	1
		Tetraodontidae sp2 (COLOR)	-	1	0
		<i>Torquigener flavimaculosus</i>	BOLD:AAG3690	5	2