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Supplementary material

Nekton communities as indicators of habitat functionality in Philippine mangrove plantations

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Table S1. List of nekton species and relative biomass (%) captured from mangroves of different ages

Trophic category and habitat preference gleaned from FishBase (see http://www.fishbase.org, accessed 20 January 2017). Trophic category (TC): CA, carnivore; DE, detritivore; HE, herbivore; OM, omnivore. Habitat preference (HP): MA, mangrove-associated; RA, reef-associated

Family	Stand age (year)							Natural mangroves (unknown-age)			Total	TC	HP
Species	6	8	10	11	17	18	50	Nx	Ny	Nz			
CRAB													
Grapsidae													
Varuna litterata	2.1	0.3		2.8		2.8					0.8	OM	MA
Ocypodidae													
Macrophthalmus latreillei					2.7						0.27	OM	MA
Portunidae													
Episesarma versicolor			3.1	0.8					0.1	0.2	0.04	OM	MA
Episesarma sp.			0.4								0.42	OM	MA
Portunus longispinosus				0.2					0.1		0.03	OM	MA
P. pelagicus	0.6	1.2									0.18	OM	MA
Scylla olivacea			0		0.3	0.5			0.9	1.3	0.3	OM	MA
S. serrata						23.8			1.8	2.6	2.81	OM	MA
T. crenata	18.6	21.7	22.8	40.6	2.4	13.1	46.9	51.3	23.5	31.9	27.3	OM	MA
Sesarmidae													
Episesarma versicolor			3.1	0.8					0.1	0.2	0.04	OM	MA
Episesarma sp.			0.4								0.42	OM	MA
SHRIMP													
Alpheidae													
Alpheus sp.			0.2	0.4	0.1		0.3				0.09	OM	MA
Odontodactylidae													
Odontodactylus pictus									0.8		0.08	CA	MA
Palaemonidae													
Macrobrachium sp.					0	0.4					0.04	OM	MA
Penaeidae													
Metapenaeus ensis	6.6	23.3	6.2	5.6	6	26.8	12.3	3.6	2.6		9.3	OM	MA
Metapenaeus sp.									1.2	2.4	0.34	OM	MA
Penaeus monodon		0.9			1.5						0.23	OM	MA
Penaeus sp.					0						0	OM	MA

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Family	Stand age (year)							Natural mangroves (unknown-age)			Total	TC	HP
Species	6	8	10	11	17	18	50	Nx	Ny	Nz			
Sergestidae													
Acetes sp.		9.7									0.97	OM	MA
Squillidae													
Harpiosquilla sp.						0.2					0.02	OM	MA
SQUID													
Loliginidae													
Sepioteuthis lessoniana							2.3				0.23	CA	RA
Sepioteuthis sp.		2.7									0.27	CA	RA
Sepiolidae													
Euprymna sp.							0.9	1.3	0.2	0.3	0.28	CA	RA
FISH													
Ambassidae													
Ambassis sp.		8.6	0.1	0.7	0.6	1.6					1.17	OM	MA
Apogonidae													
Apogon fraenatus	5.3		2.2	3.8	8.5		0	9.7	10.3	8.8	4.9	OM	MA
A. ceramensis			0.4	0.8							0.12	OM	MA
A. perlitus	0.5		0					1.1	0.9	1.2	0.38	OM	MA
Apogon sp.	0.3						0.4	2.3	0.3	0	0.33	OM	MA
Apogon sp. 2									0.5		0.05	OM	MA
Atherinidae													
Atherinomorus lacunosus	11	0.3	2.2	2.1		16.9	13.3	11.4	21.7	24.8	10.38	CA	MA
Atherinomorus sp.	3.2										0.32	CA	MA
Belonidae													
Strongylura sp.									0.2		0.01	CA	RA
Blenniidae													
Blenny sp.				1.4		0.2					0.16	DE	RA
Blenny sp. 2				0.9							0.09	DE	RA
Carangidae													
Caranx ignobilis					0.7						0.07	CA	RA
C. melampygus					0.9						0.09	CA	RA
C. sexfasciatus					0.2						0.02	CA	RA
Chanidae													
Chanos chanos		0		4.1							0.42	DE	MA

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Family	Stand age (year)							Natural mangroves (unknown-age)			Total	TC	HP
Species	6	8	10	11	17	18	50	Nx	Ny	Nz			
Clupeidae													
Sardinella lemuru								2			0.2	HE	RA
Spratelloides delicatulus	1.6		0.3	0.9					3.2	2.5	0.85	CA	MA
Congridae													
Conger cinereus	2.7	2.4	14.9	0.7	1.1						2.18	CA	MA
Conger sp.	1.9	3.4	2.3	2.1		0.5					1.04	CA	MA
Cynoglossidae													
Cynoglossus kopsii					0.5						0.05	CA	RA
Elopidae													
Elops hawaiensis							0				0.01	CA	RA
Engraulidae													
Stolephorus indicus		0.2			0.1		0.9				0.12	CA	RA
Ephinephelinae													
Ephinephelus merra				1.7							0.17	CA	RA
Ephippidae													
Platax orbicularis		0.1									0.01	CA	RA
Gerreidae													
Gerres abreviatus				0.1							0.01	CA	MA
G. acinaces	0.9				1.1		7.6	0.6			1.01	CA	MA
G. oblongus		0.9				0					0.1	CA	MA
G. oyena	0.1	0	0.1				1				0.12	CA	MA
Gobiidae													
Exyrias puntang	0.6	0.3		1.3	0.6	0			0.2	0.3	0.33	CA	MA
Goby sp.		0.9	0.3	2.2		1.3	1.5				0.61	CA	MA
Goby sp. 2		0.4				0.1	4.9				0.53	CA	MA
Goby sp. 3	0	0.3		0.7		1.6					0.27	CA	MA
Oplopomus caninoides		0.7				0.1					0.08	OM	RA
Valenciennea sexguttata					1.7	0.8					0.24	CA	RA
Yongeichthys criniger	0.1	0.1	1.6	3.7							0.54	CA	MA
Haemulidae													
Haemulidae sp.		0.2									0.02	CA	MA
Hemirhamphidae													
Hyporhamphus dussumieri	5.6	10	0.9	13.6		7.6	1.5	7.1			4.63	CA	RA

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Family	Stand age (year)							Natural mangroves (unknown-age)			Total	TC	HP
Species	6	8	10	11	17	18	50	Nx	Ny	Nz			
Kuhlidae													
Kuhlia sp.					2.7						0.26	CA	MA
Labridae													
Halichoeres bleekeri				0.4		0.2					0.06	CA	MA
Leiognathidae													
Leiognathus bindus					0.1						0.01	CA	MA
L. equulus					6.3						0.63	CA	MA
Lethrinidae													
Lethrinus harak	0.7										0.07	CA	MA
Lutjanidae													
Lutjanus fulviflamma	1.9		0.7				1.4				0.38	CA	MA
Monocanthidae													
Acreichthys tomentosus							0.5		0.9		0.14	CA	MA
Mugilidae													
Liza sp.					0.5						0.05	DE	MA
Mugil sp.		2.9		0.9		0					0.39	DE	MA
Mullidae													
Upeneus guttatus			2.6		4.1			0.8			0.76	CA	MA
U. tragula	0.5	0.2									0.06	CA	MA
Valamugil engeli	0.9			2.2	0.6	0.7					0.44	OM	MA
Valamugil sp.					0.1						0.01	OM	MA
Muraenidae													
Gymnothorax pictus	5.1								8.7	1.3	1.5	CA	RA
Platycephalidae													
Platycephalus argus		2									0.2	CA	MA
P. indicus					8.1	0.2					0.83	CA	MA
Platycephalus sp.		0.2				0.4					0.06	CA	MA
Plotosidae													
Plotosus lineatus			9.4						8.5	12.1	2.99	CA	MA
Polynemidae													
Polydactylus sexfilis					1.5						0.15	CA	MA
Pomacentridae													
Pomacentrus pavoninus		1									0.1	CA	MA

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Family	Stand age (year)							Natural mangroves (unknown-age)			Total	TC	HP
Species	6	8	10	11	17	18	50	Nx	Ny	Nz			
Scaridae													
Leptoscarus vaigiensis									0.2	0.3	0.04	DE	MA
Scatophagidae													
Scatophacus argus					1.2						0.12	OM	MA
Siganidae													
Siganus biaculeatus								0.1			0.01	DE	MA
S. fuscescens	0.2	0.2	2.4	1.9			0.6	0.4	0.1	0.1	0.59	DE	MA
S. guttatus	0.3	2.6	0.8		0.8	0	1.2				0.58	DE	MA
S. variegatus	0										0	DE	MA
Siganus sp.					0.2						0.01	DE	MA
Sphyraenidae													
Sphyraena barracuda	3.3		8		3.5	0.1	1.3		1.8	0.9	1.89	CA	MA
Sygnathidae													
Synathoides biaculeatus									0.4	0.2	0.06	CA	RA
Synodontidae													
Synodus variegatus									2.02	2.98	0.5	CA	RA
Terapontidae													
Pelates quadrilineatus	2.5										0.25	CA	MA
Tetraodontidae													
Arothron manilensis	20.9	0.6	13.8	0.4				0.2	5.4	2.7	4.4	CA	MA
A. hispidus	1.8		4	2.7	14.1						2.26	HE	RA
Chelonodon patoca		0.7			20.6		0.6	8	2.9	3.1	3.61	CA	MA
Chelonodon sp.							0.2				0.02	CA	MA
Tetrarogidae													
Tetrarogidae sp.					0.5						0.05	CA	MA
n family	18	21	16	20	25	17	16	11	17	15			
n species	29	34	27	30	36	26	23	15	28	21			
H′	2.33	2.4	2.34	2.46	3.23	3.29	1.56	1.29	1.18	1.13			