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Appendix 1 A list of macrofauna species and mean density values from a mangrove forest at Ko Maphrao, Phuket.

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
No. of samples	20	20	20	15
COELENTERATA				
Actinaria				
Sea anemone sp. A	-	-	0.4	-
Sea anemone sp. B	-	-	0.2	-
Pennatulacea				
Sea pen sp. A	-	-	-	+
Sea pen sp. B	-	-	-	-
NEMERTEA				
Nemertean spp. (unident.)	0.2	1.4	1.0	0.5
SIPUNCULA				
<i>Phascolosoma arcuatum</i> (Gray)	30.6	18.4	0.4	-
PLATYHELMINTHES				
Turbellarian sp (unident.)	-	-	+	-
POLYCHAETA				
Orbiniidae				
<i>Scoloplos</i> sp.	0.2	-	-	-
Capitellidae				
<i>Heteromastus filiformis</i> (Claparede)	-	0.4	-	-
<i>Mastobranthus</i> sp.	2.6	7.6	0.6	-
<i>Parheteromastus tenuis</i> (Monro)	-	0.2	+	-
Capitellid sp. (unident.)	0.2	0.4	-	-
Incomplete capitellid specimen	-	0.2	-	-

Note : 1. Mean density values are expressed as numbers of individuals per m².
 2. Species without numbers were recorded from qualitative samples.
 + stands for presence of macrofauna, - stands for absence.

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
Maldanidae				
<i>Euclymene sp.</i>	-	0.8	0.2	0.8
Opheliidae				
<i>Ammotrypane sp.</i>	-	-	-	0.3
Phyllodocidae				
<i>Eteone sp. A</i>	-	0.2	-	0.3
<i>Eteone sp. B</i>	-	0.2	-	-
<i>Phyllodoce sp.</i>	-	-	-	0.5
Polynoidae				
Polynoid sp. (unident.)	-	0.2	0.2	-
Polyodontidae				
<i>Polyodontes melanonotus</i> (Grube)	-	0.2	-	-
Nereidae				
<i>Ceratonereis sp.</i>	0.2	+	-	0.5
<i>Dendronereis arborifera</i> Peters	-	-	-	0.3
<i>Leonnates sp.</i>	-	0.2	-	-
<i>Nereis onycophora</i> Horst	6.0	2.0	0.6	0.3
<i>Perinereis aibuhitensis</i> Grube	1.2	2.4	1.6	0.3
Nereid sp. (unident.)	-	-	-	0.3
Goniadidae				
<i>Goniada sp.</i>	0.2	0.2	-	0.3
Onuphidae				
<i>Diopatra sp.</i>	-	0.6	+	1.3
Eunicidae				
<i>Marphysa sp.</i>	-	-	0.2	0.8
Lumbrinereidae				
<i>Lumbrinereis sp.</i>	-	-	1.0	-
Lumbrinereid sp. A (unident.)	-	0.2	-	-
Lumbrinereid sp. B (unident.)	-	0.2	-	0.8

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
Lumbrinereid sp. C :				
(unident.)	-	-	-	0.3
Incomplete Lumbrinereid				
specimen (unident.)	-	-	0.4	-
Incomplete polychaete				
specimen (unident.)	0.2	0.4	-	-
MEROSTOMATA				
Xiphosuran juveniles	+	-	-	-
(unident.)				
CRUSTACEA				
Cirripedeae				
Balanidae				
<i>Balanus amphitrite</i> Darwin	+	+	+	-
Chthamalidae				
<i>Chthamalus withersii</i> Pilsbry	+	+	+	-
Amphipoda				
<i>Amphipod sp.</i> (unident.)	0.4	0.6	0.4	-
Isopoda				
Sphaeromidae				
<i>Sphaeroma walkeri</i> Stebbing	+	+	+	-
Ligidae				
<i>Ligia sp.</i>	+	-	-	-
Decapoda				
Synalpheidae				
<i>Alpheus euprosyne</i> de Man	0.2	0.2	1.2	0.3
<i>A. macrodactylus</i>	-	-	-	0.3
<i>A. malabaricus</i> (Fabricius)	-	0.2	-	0.5
<i>A. rapacida</i> de Man	-	-	-	0.8
<i>A. rapax</i> Fabricius	-	-	-	0.8
Callianassidae				
<i>Thalassina anomala</i> (Herbst)	+	+	+	-
<i>Upogebia sp.</i>	13.4	14.6	1.2	2.4
Paguridae				
<i>Clibanarius padavensis</i>				
de man	0.4	0.2	+	2.9

STATION	1 innermost	2 middle	3 seaward	4 mid flat
<i>Diogenes avarus</i> Heller	-	2.4	2.8	0.3
Porcellanidae				
<i>Petrolisthes lamarckii</i> (Leach)	+	+	-	-
Leucosiidae				
<i>Ebalia malefactorix</i> Kemp	0.2	-	-	-
Portunidae				
<i>Portunus pelagicus</i> (L.)	-	-	+	-
<i>Scylla serrata</i> (Forsk.)	+	+	+	-
<i>Thalamita crenata</i> (Latreille)	-	-	-	1.0
Xanthidae				
<i>Epixanthus dentatus</i> (White)	-	+	-	-
<i>Sphaerozius nitidus</i> Stimpson	-	-	+	-
<i>Heteropanope glabra</i> Stimpson	-	+	+	-
Goneplacidae				
<i>Typhlocarcinus nudus</i> Stimpson	-	1.2	0.6	8.0
Ocypodidae				
<i>Camptandrium sexdentatum</i> Stimpson	-	-	0.6	1.3
<i>Dotillopsis brevitarsus</i> (de Man)	-	-	-	0.5
<i>Ilyoplax delsmanni</i> de Man	0.4	11.2	0.8	0.3
<i>I. lingulatus</i> (Rathbun)	0.6	0.4	0.4	-
<i>I. longicarpus</i> (Tweedie)	-	0.8	0.4	1.3
<i>I. obliquus</i> Tweedie	3.6	0.2	0.8	-
<i>I. orientalis</i> (de Man)	-	0.2	1.2	3.2
<i>I. punctatus</i> (Tweedie)	-	-	+	0.3
<i>Leipocten sordidulum</i> Kemp	-	-	+	-
<i>Macrophthalmus definitus</i> Adams & White	0.2	-	-	1.9
<i>Paracleistostoma microcheirum</i> Tweedie	0.4	-	-	0.3
<i>Tyloglax tetratylophora</i> de Man	33.0	36.8	25.6	5.1
<i>Uca dussumieri</i> (H. Milne Ed)	4.4	4.0	0.8	-
<i>U. forcipata</i> (Adams & White)	1.0	0.4	0.2	-

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
<i>U. lactea</i> (H. Milne-Edwards)	10.8	10.0	4.8	5.3
<i>U. triangularis</i> (A. Milne-Ed.)	1.4	0.4	0.2	-
<i>U. urvillei</i> (H. Milne-Ed.)	+	2.4	0.6	-
<i>U. vocans</i> (L.)	0.8	2.2	+	4.5
<i>Uca</i> sp. juveniles (unident.)	+	1.0	0.4	+
Grapsidae				
<i>Chiromanthes darwinensis</i> (Campbell)	-	0.2	-	-
<i>C. dussumieri</i> (H. Milne-Ed.)	-	0.4	-	-
<i>C. haswelli</i> (de Man)	-	0.2	-	-
<i>C. indiarum</i> (de Man)	0.4	-	-	-
<i>C. semperi</i> Burger	0.2	-	0.2	-
<i>Clistocoeloma merguionsis</i> (de Man)	-	0.4	0.2	-
<i>Geosesarma</i> sp.	-	+	-	-
<i>Holometopus</i> sp.	0.2	-	-	-
<i>Metaplox crenulata</i> (Gerstaecker)	-	-	0.4	2.4
<i>M. distinctus</i> H. Milne-Edwards	00.6	1.2	0.2	1.6
<i>M. elegans</i> de Man	4.4	8.2	1.4	4.5
<i>Nanosesarma andersoni</i> de Man	+	0.2	+	-
<i>Neopisesarma mederi</i> (H. Milne-Edwards)	-	+	+	-
<i>N. versicolor</i> (Tweedie)	+	+	+	-
<i>Parasesarma plicatum</i> (Latreille)	1.2	0.2	0.2	0.3
<i>Sarmatium crassum</i> Dana	+	0.4	-	-
<i>S. germani</i> (A. Milne-Edwards)	0.4	0.2	-	-
Grapsid sp. juveniles (unident.)	0.2	0.4	-	-
Stomatopoda				
<i>Chlorida rotundicauda</i> (miers)	-	-	+	-
MOLLUSCA				
Gastropoda				
Neritidae				
<i>Nerita articulata</i> Gould	-	-	+	-
<i>N. chameleon</i> L.	-	-	+	-

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
<i>N. planospira</i> Anton	-	+	+	-
<i>Clithon ovalaniensis</i> (Lessen)	-	-	+	-
Littorinidae				
<i>Littorina carinifera</i> Menke	+	+	0.2	-
<i>L. scabra</i> L.	+	0.4	+	-
Assimineidae				
<i>Assiminea brevicula</i> Pfeiffer	0.4	1.8	7.2	-
Potamididae				
<i>Cerithidea cingulata</i> (Gmelin)	9.2	41.2	0.8	10.3
<i>C. obtusa</i> Lamarck	-	0.2	-	-
<i>Telescopium telescopium</i> (L.)	-	+	+	-
Cerithiidae				
<i>Cerithium breve</i> Quoy & Gaimard	-	+	-	-
<i>C. patulum</i> Sowerby	-	+	+	-
Naticidae				
<i>Polinices flemingiana</i> (Recluz)	-	-	-	0.5
Muricidae				
<i>Naquetia capucina</i> (L.)	-	0.2	0.6	-
Nassaridae				
<i>Nassarius globosus</i> (Quoy & Gaimard)	-	-	-	1.3
<i>N. jacksonianus</i> (Quoy & Gaimard)	-	0.6	0.2	2.1
<i>N. livescens</i> (Philippi)	-	-	+	+
<i>N. olivaceus</i> (Bruguiere)	-	-	+	-
<i>N. foreolatus</i> (Dunker)	-	+	+	-
<i>Hebra nigra</i> (Rousseau)	-	-	-	0.3
Malongenidae				
<i>Melongena pugilina</i> Born	-	-	+	0.3
Unidentified gastropod sp.	-	-	-	4.3
Haminoeidae				
<i>Haminoea</i> sp.	-	-	0.2	-

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
Onchiidae				
<i>Onchidium</i> sp. A	-	-	0.2	0.3
<i>Onchidium</i> sp. B	-	-	0.2	-
Ellobiidae				
<i>Cassidula aurisfelis</i> Bruguiere	-	-	0.2	-
<i>Ellobium aurisjudae</i> (L.)	-	-	+	-
Pelecypoda				
Arcidae				
<i>Anadara granosa</i> L.	-	-	0.4	+
<i>A. trocheli</i> (Dunker)	-	-	-	0.3
<i>Scapharca inequivalvis</i> (Bruguiere)	-	-	-	+
<i>Striarca pectunculiformes</i> (Dunker)	0.2	0.4	0.2	0.3
Mytilidae				
<i>Musculus senhousia</i> (Benson)	-	-	-	1905.3
Anomiidae				
<i>Enigmonia aenigmatica</i> (Sowerby)	-	-	+	-
Isognomonidae				
<i>Isognomon ephippium</i> (L.)	+	+	+	-
Ostreidae				
<i>Saccostrea cucullata</i> (Born)	+	+	+	-
Ungulinidae				
<i>Diplodonta globosa</i> (forsk.)	-	-	+	-
Veneridae				
<i>Gafrarium tumidum</i> (Roeding)	-	-	1.0	-
<i>Geloina erosa</i> Solander	0.2	-	-	-
Tellinidae				
<i>Tellina capsoides</i> Lamarck	-	-	0.2	-
<i>T. opalina</i> Gmelin	-	1.0	0.2	0.3
Solenidae				
<i>Solen delesserti</i> Chemnitz	-	1.8	0.2	0.8
Teredinidae				
<i>Teredo</i> sp.	+	+	+	-

STATION	1	2	3	4
	innermost	middle	seaward	mud flat
Laternulidae				
<i>Laternula truncata</i> (Lamarck)	0.2	0.2	0.4	0.3
Echinodermata				
Holothuridae				
<i>Holothuria parva</i> Lampert	-	-	+	-
Ophiuroidea				
Brittle star (unident.)	-	-	+	-
Pisces				
Gobiidae				
<i>Ctenogobius vexillifer</i> Fowler	+	0.2	0.6	0.3
<i>Ctenogobius</i> sp.	-	-	+	-
<i>Acanthogobius viridi-</i> <i>punctatus</i> (C. & V.)	-	-	+	+
Gobiid fish (unident.)	-	+	+	-
Gobiid fish juveniles (unident.)	-	-	-	0.5
Periophthalmidae				
<i>Periophthalmus vulgaris</i> Egge	+	+	-	-
<i>Boleophthalmus boddaerti</i> Pallas	-	-	+	-
<i>Scartelaos viridis</i> (H. Buchanan)	-	-	+	+



VITA

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