

# Natural History Collection:

Hard Corals of Sultan Iskandar Marine Park, Johor



Azman, B.A.R. Wan Lotfi, W.M. Asamuddin, A.H.



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**Natural History Collection: Hard Corals of Sultan Iskandar Marine Park - Specimens Catalogue for Jabatan Taman Laut Malaysia**

Azman, B.A.R., Wan-Loffi, W.M. & Asamuddin, A.H.

Includes Index

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# Introduction of the collection

## Ethical consideration around deposition and repatriation of natural history specimens

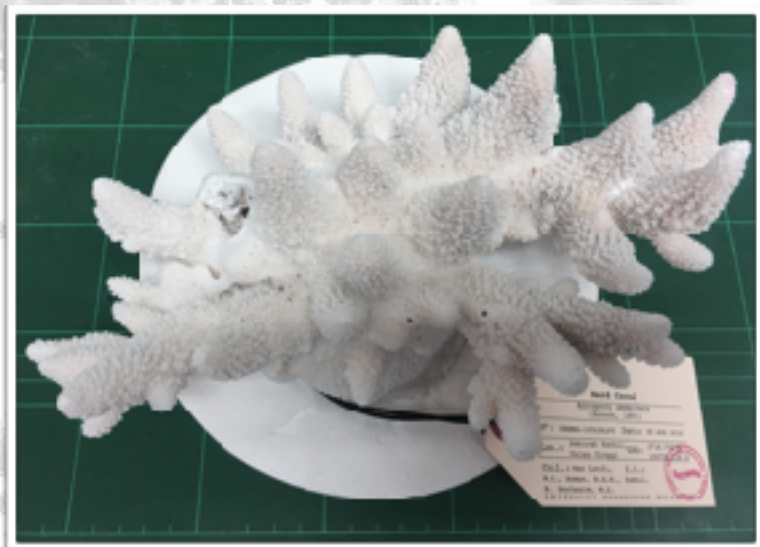
These collections extends through every group of the Scleractinian classification (as entered in the World Register of Marine Species-WoRMS website) comprising the geographical collection made from the islands of Sultan Iskandar Marine Park, Johor.

This collection consists of 30 hard corals, mostly mounted on gypsum plaster casts, with complete label. With regard to the collection, each individual specimens were identified, photographed and catalogued. In addition to the labels, QR codes <sup>1</sup> have been introduced to provide further explanatory and descriptive notes.

The serial number records are from listings of Universiti Kebangsaan Malaysia Muzium Zoologi (UKMMZ) catalogue and original descriptions. These records are from examination of the specimens by EKOMAR scientists based on the Australian Institute of Marine Science (AIMS). The species' taxonomy is according to the World Register of Marine Species (WoRMS 2014). Species are alphabetical within families.

All procedures performed in this study involving animals were in accordance with the ethical standards of the institution or practice at which the studies were conducted. All graphic materials presented in this catalogue are from primary sources.

# Acroporidae Verrill, 1902



2

## *Acropora gemmifera* (Brook, 1892)

LOCALITY	Sebirah Kechil, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	30 <sup>th</sup> August 2016
G.P.S	2°18.750'N, 104°05.138'E
UKMMZ I.D.	UKMMZ-105CRLPT

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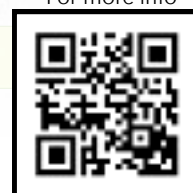
# Acroporidae Verrill, 1902



## *Acropora grandis* (Brook, 1892)

LOCALITY	Buloh Kasap, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	1 <sup>st</sup> September 2016
G.P.S	2°19.162'N, 104°6.886'E
UKMMZ I.D.	UKMMZ-106CRLPT

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# Acroporidae Verrill, 1902



4

## *Acropora millepora* (Ehrenberg, 1834)

LOCALITY	Pulau Besar, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> October 2016
G.P.S	2°28.804'N, 103°57.789'E
UKMMZ I.D.	UKMMZ-105CRLPB

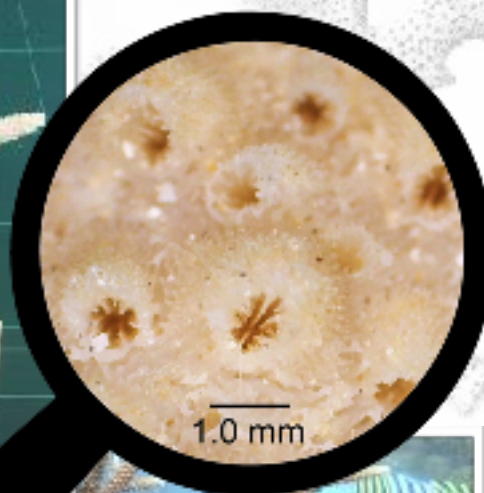
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# Acroporidae Verrill, 1902



5

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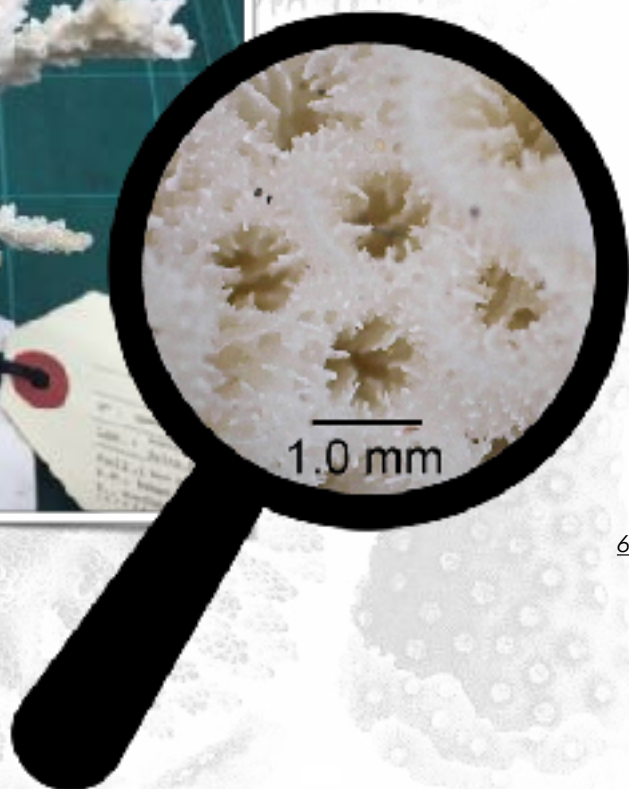


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## *Acropora muricata* (Linnaeus, 1758)

LOCALITY	Teluran, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2° 27.670'N, 104°31.626' E
UKMMZ I.D.	UKMMZ-111CRLPA

# Acroporidae Verrill, 1902



6

## *Acropora selago* (Studer, 1879)

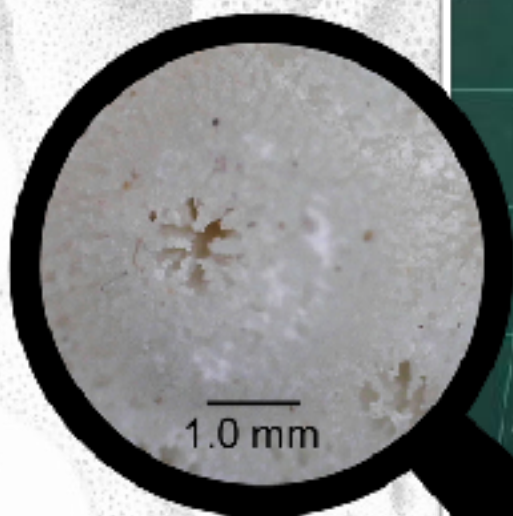
LOCALITY	Sebirah Kechil, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	30 <sup>th</sup> August 2016
G.P.S	2°18.750'N, 104°05.138'E
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# Acroporidae Verrill, 1902



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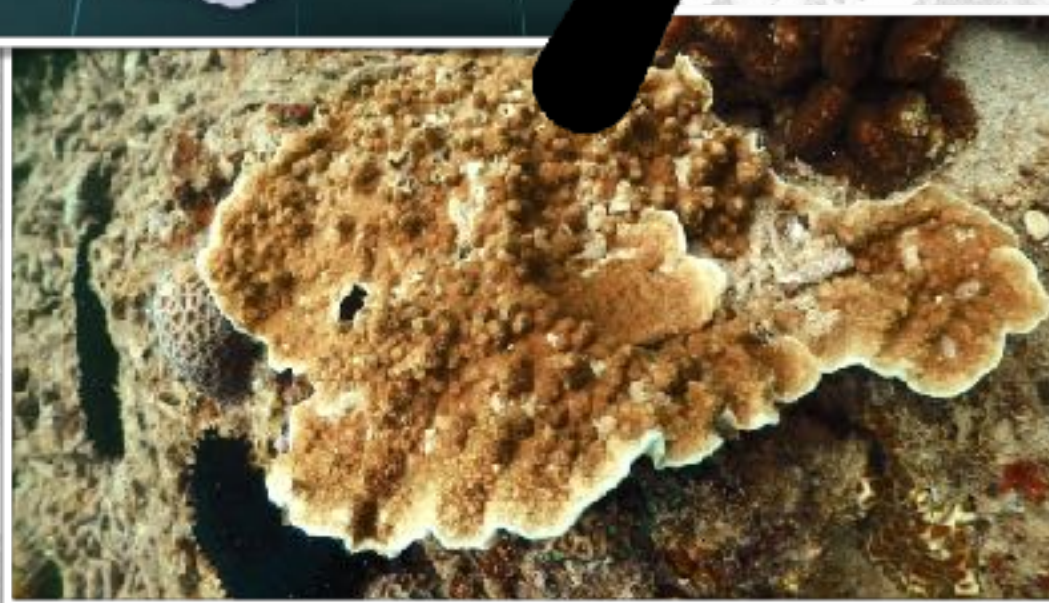
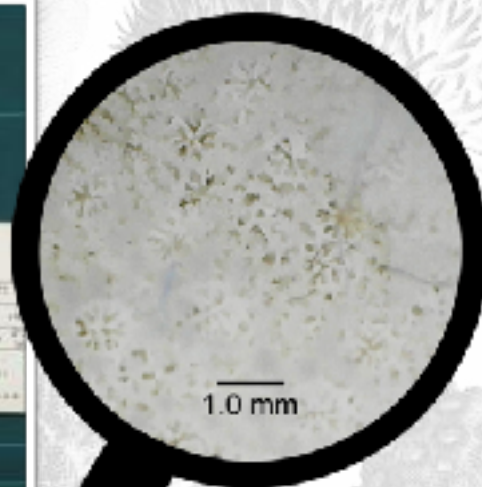


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*Isopora palifera* (Lamarck, 1816)

LOCALITY	Teluk Jawa/ Dayang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2°28.723'N, 104°30.300'E
UKMMZ I.D.	UKMMZ-107CRLPA

# Acroporidae Verrill, 1902



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## *Montipora hispida* (Dana, 1846)

LOCALITY	Pulau Besar, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> October 2016
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# Dendrophylliidae Gray, 1847



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## *Turbinaria mesenterina* (Lamarck, 1816)

LOCALITY	Buloh Kasap, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	1 <sup>st</sup> September 2016
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# Dendrophylliidae Gray, 1847



10

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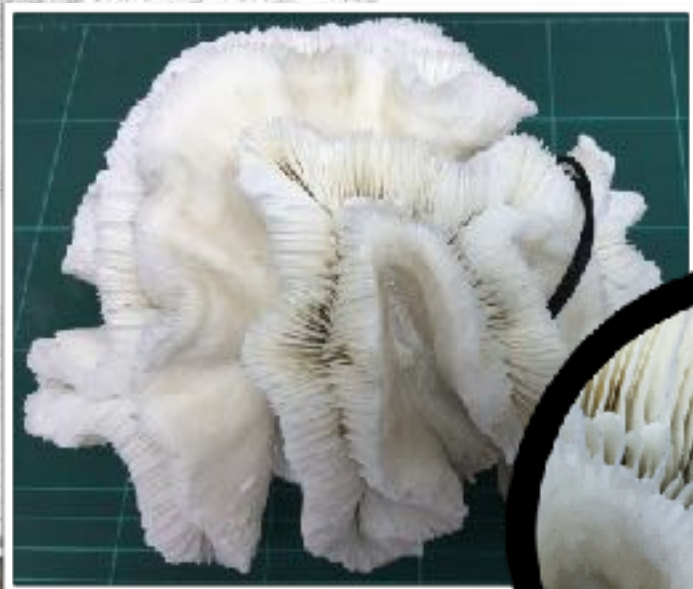


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## *Turbinaria reniformis* Bernard, 1896

LOCALITY	Sebirah Kechil, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	30 <sup>th</sup> August 2016
G.P.S	2°18.750'N, 104°05.138'E
UKMMZ I.D.	UKMMZ-112CRLPT

# Euphylliidae Alloiteau, 1952



11

## *Euphyllia ancora* Veron & Pichon, 1980

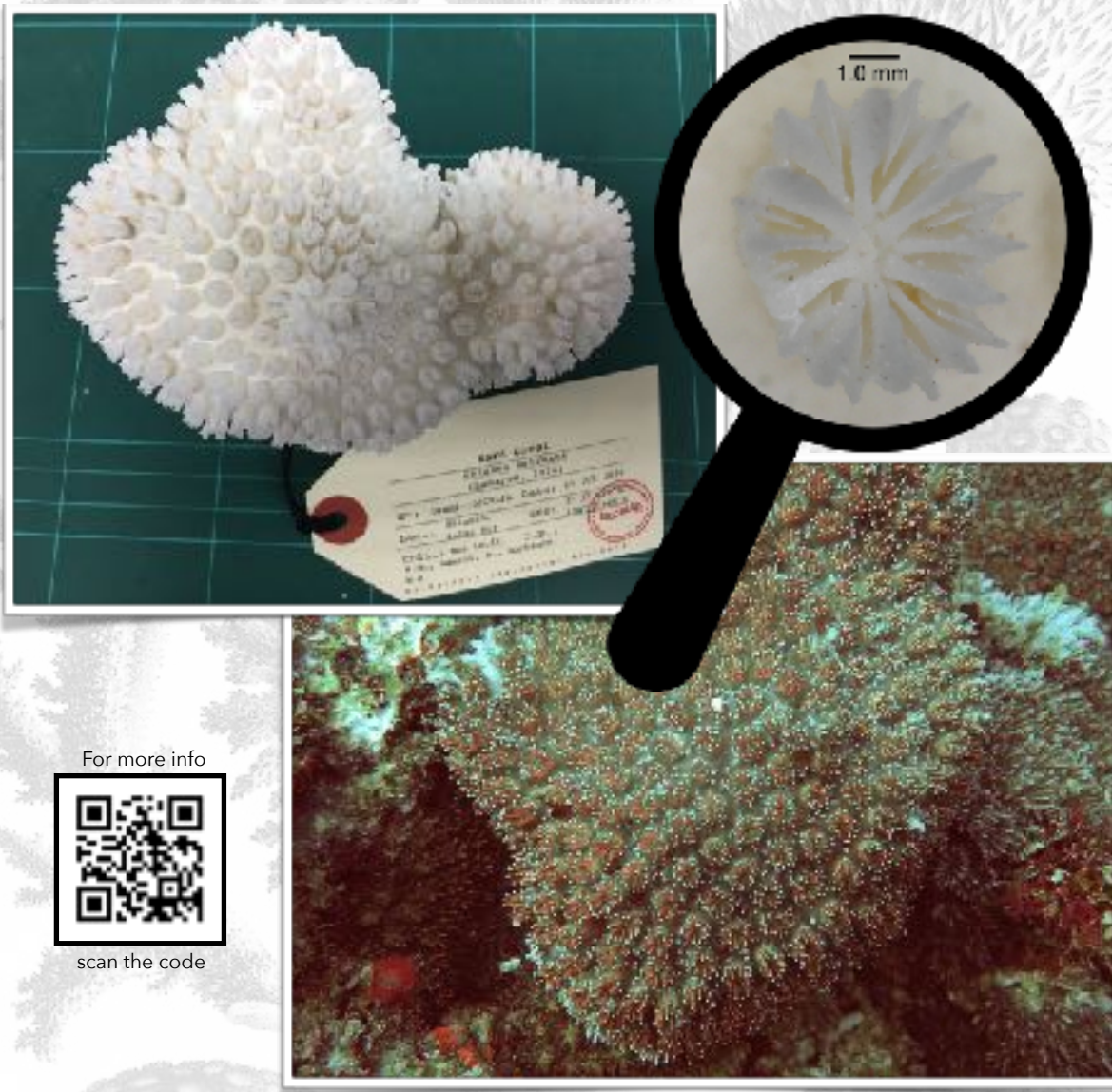
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COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	1 <sup>st</sup> September 2016
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# Euphylliidae Alloiteau, 1952



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12

## *Galaxea astreata* (Lamarck, 1816)

LOCALITY	Teluran, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2° 27.670'N, 104°31.626' E
UKMMZ I.D.	UKMMZ-101CRLPA



# Fungiidae Dana, 1846



13

## *Ctenactis echinata* (Pallas, 1766)

LOCALITY	Pulau Besar, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> October 2016
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# Fungiidae Dana, 1846



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## *Lithophyllon concinna* (Verrill, 1864)

LOCALITY	Teluran, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2° 27.670'N, 104°31.626' E
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# Lobophylliidae Dai & Horng, 2009



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## *Lobophyllia hemprichii* (Ehrenberg, 1834)

LOCALITY	Pulau Rawa, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Asamuddin A.H.
COLLECTION DATE	4 <sup>th</sup> April 2017
G.P.S	2° 30' 58.95''N, 103° 58' 34.1256''E
UKMMZ I.D.	UKMMZ-101CRLPR

# Merulinidae Verrill, 1865



16

## *Caulastraea tumida* Matthai, 1928

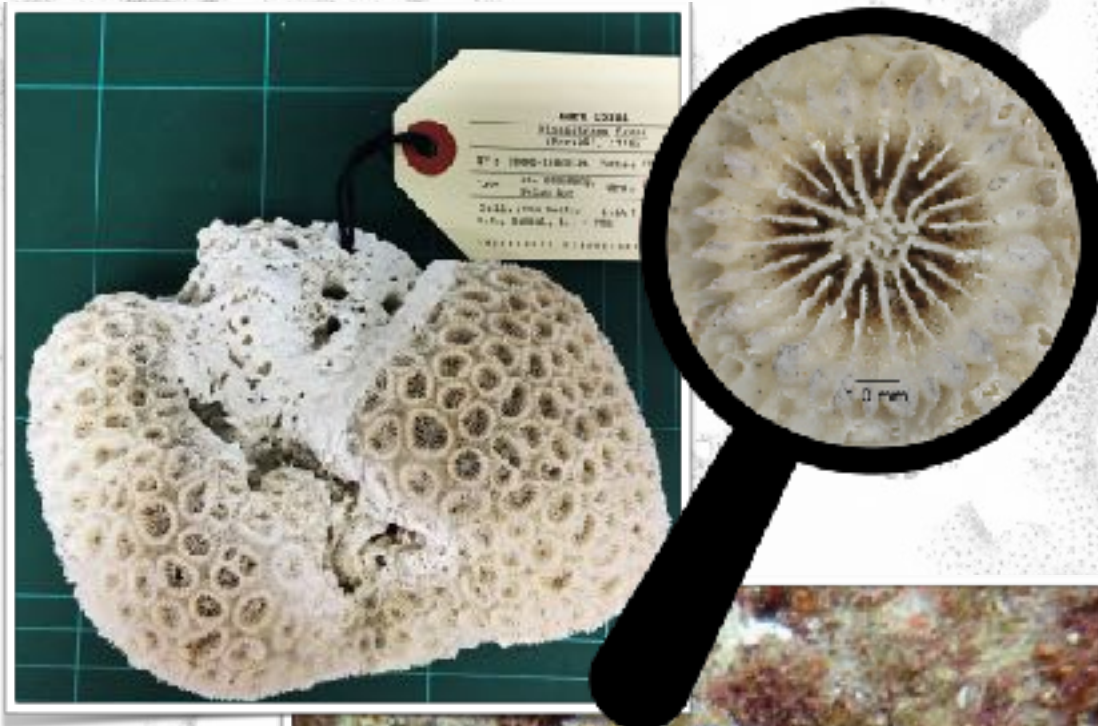
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COLLECTION DATE	30 <sup>th</sup> August 2016
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# Merulinidae Verrill, 1865

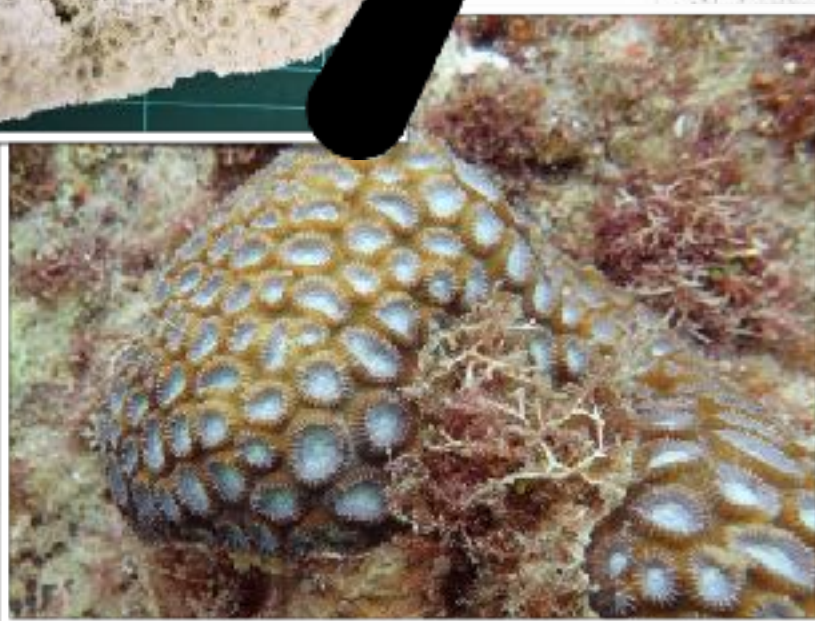


17

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## *Dipsastraea favus* (Forskål, 1775)

LOCALITY	Teluk Sebukang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., PTNJ
COLLECTION DATE	27 <sup>th</sup> July 2016
G.P.S	2°26.343'N, 104°30.300'E
UKMMZ I.D.	UKMMZ-108CRLPA

# Merulinidae Verrill, 1865



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18

## *Hydnophora microconos* (Lamarck, 1816)

LOCALITY	Pulau Lang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., PTNJ
COLLECTION DATE	27 <sup>th</sup> July 2016
G.P.S	2° 27.597'N, 104° 29.363'E
UKMMZ I.D.	UKMMZ-102CRLPA

# Merulinidae Verrill, 1865



19

## *Hydnophora rigida* (Dana, 1846)

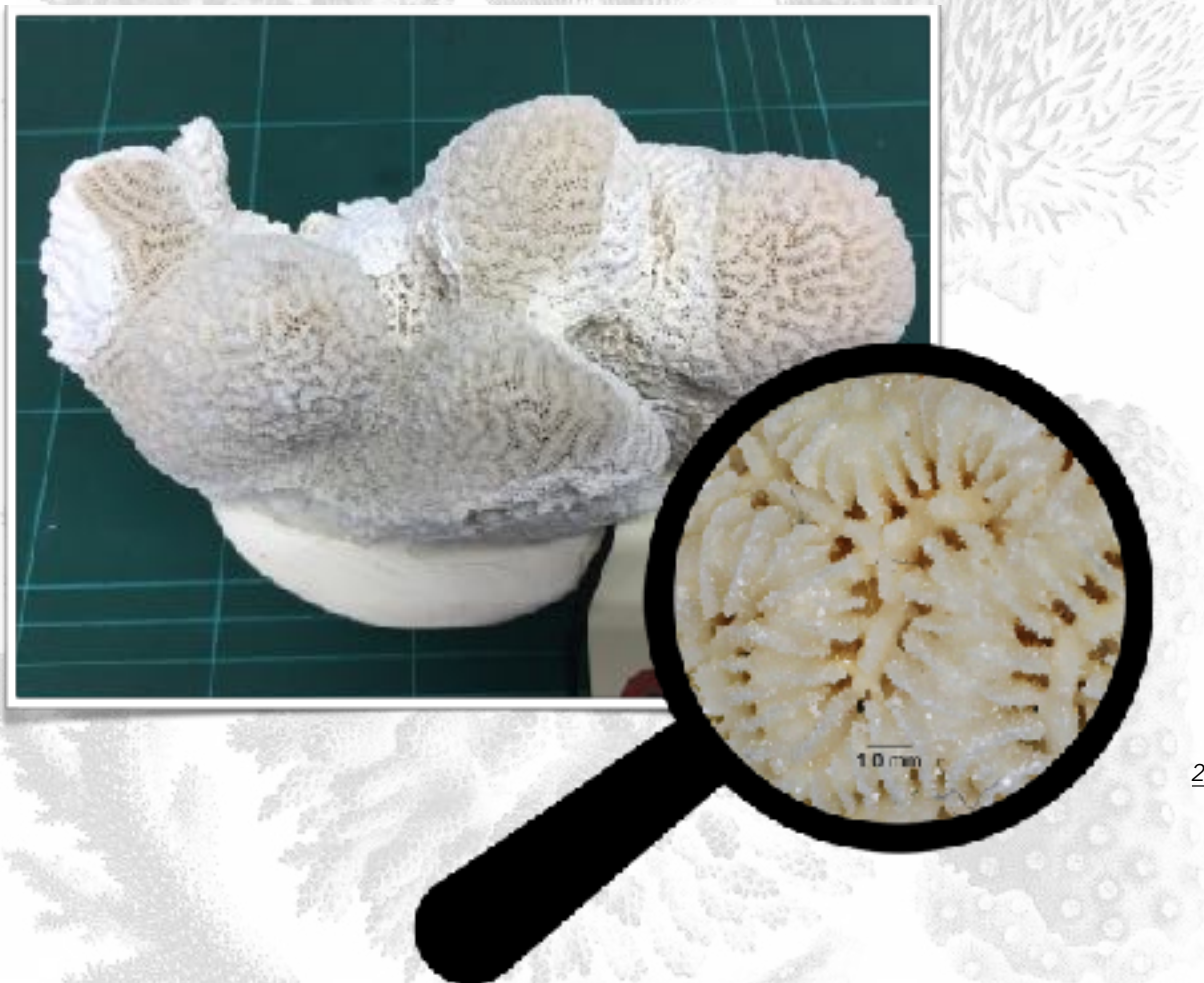
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COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> October 2016
G.P.S	2°28.804'N, 103°57.789'E
UKMMZ I.D.	UKMMZ-105CRLPB

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# Merulinidae Verrill, 1865



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## *Leptoria phrygia* (Ellis & Solander, 1786)

LOCALITY	Pulau Besar, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> October 2016
G.P.S	2°28.804'N, 103°57.789'E
UKMMZ I.D.	UKMMZ-101CRLPB

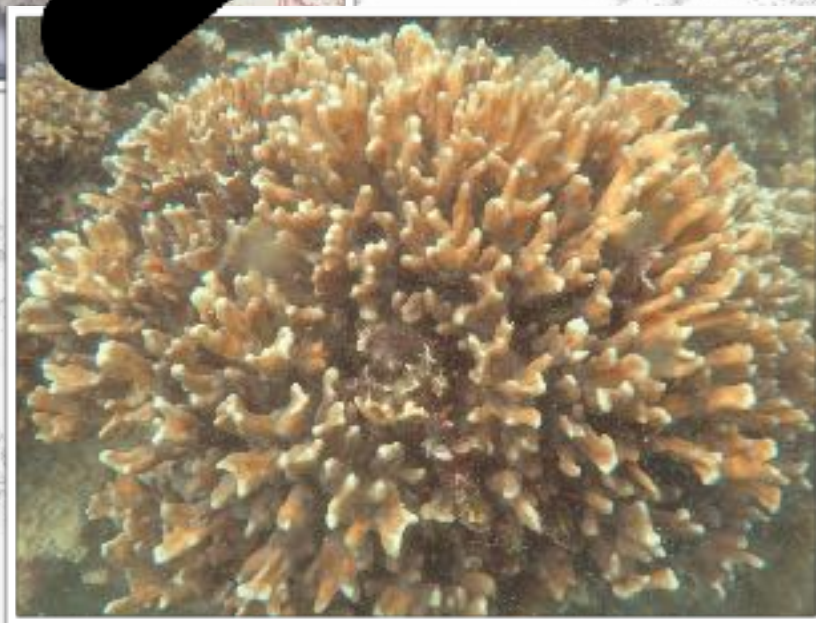
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# Merulinidae Verrill, 1865



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## *Pectinia teres* Nemenzo and Montecillo, 1981

LOCALITY	Sebirah Kechil, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	30 <sup>th</sup> August 2016
G.P.S	2°18.750'N, 104°05.138'E
UKMMZ I.D.	UKMMZ-102CRLPT

# Merulinidae Verrill, 1865



22

## *Platygyra sinensis* (Milne Edwards & Haime, 1849)

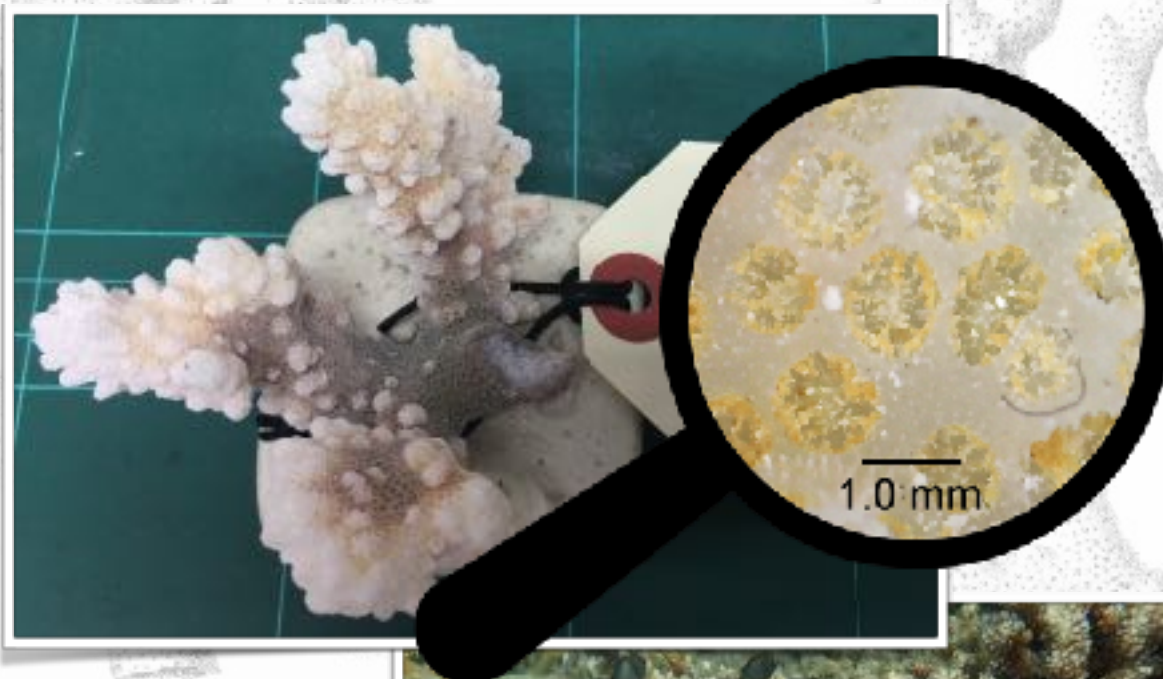
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COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	1 <sup>st</sup> September 2016
G.P.S	2°19.162'N, 104°6.886'E
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# Pocilloporidae Gray, 1840



23

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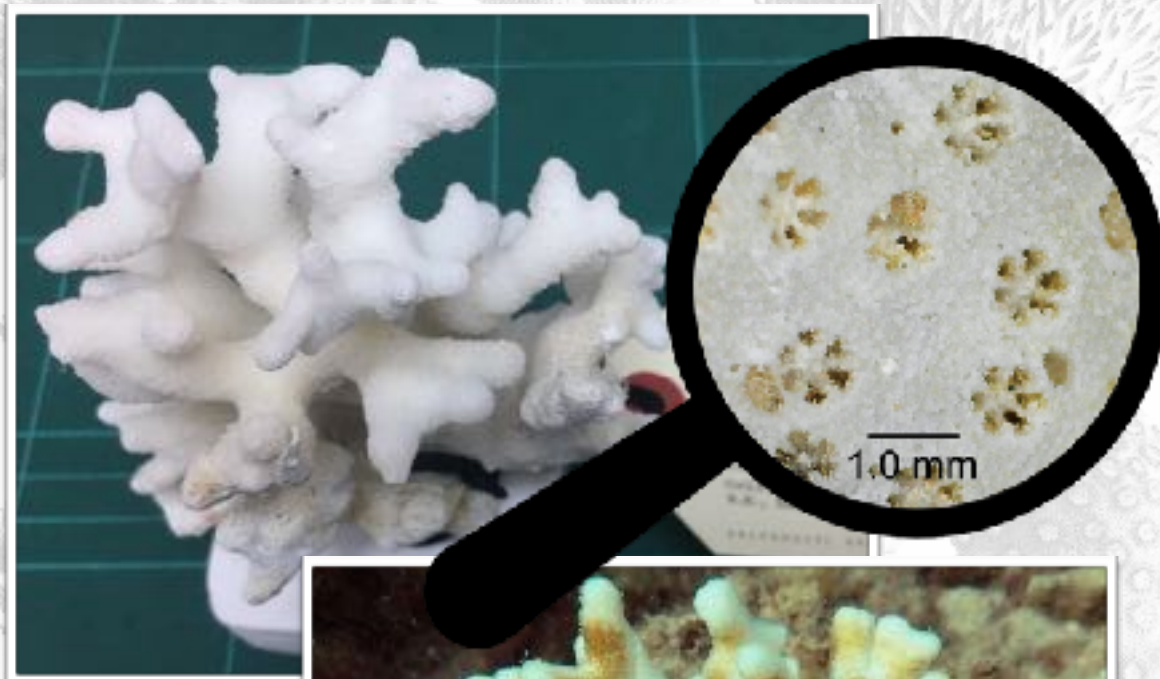
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## *Pocillopora verrucosa* (Ellis & Solander, 1786)

LOCALITY	Pulau Lang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., PTNJ
COLLECTION DATE	27 <sup>th</sup> July 2016
G.P.S	2° 27.597'N, 104° 29.363'E
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# Pocilloporidae Gray, 1840



For more info



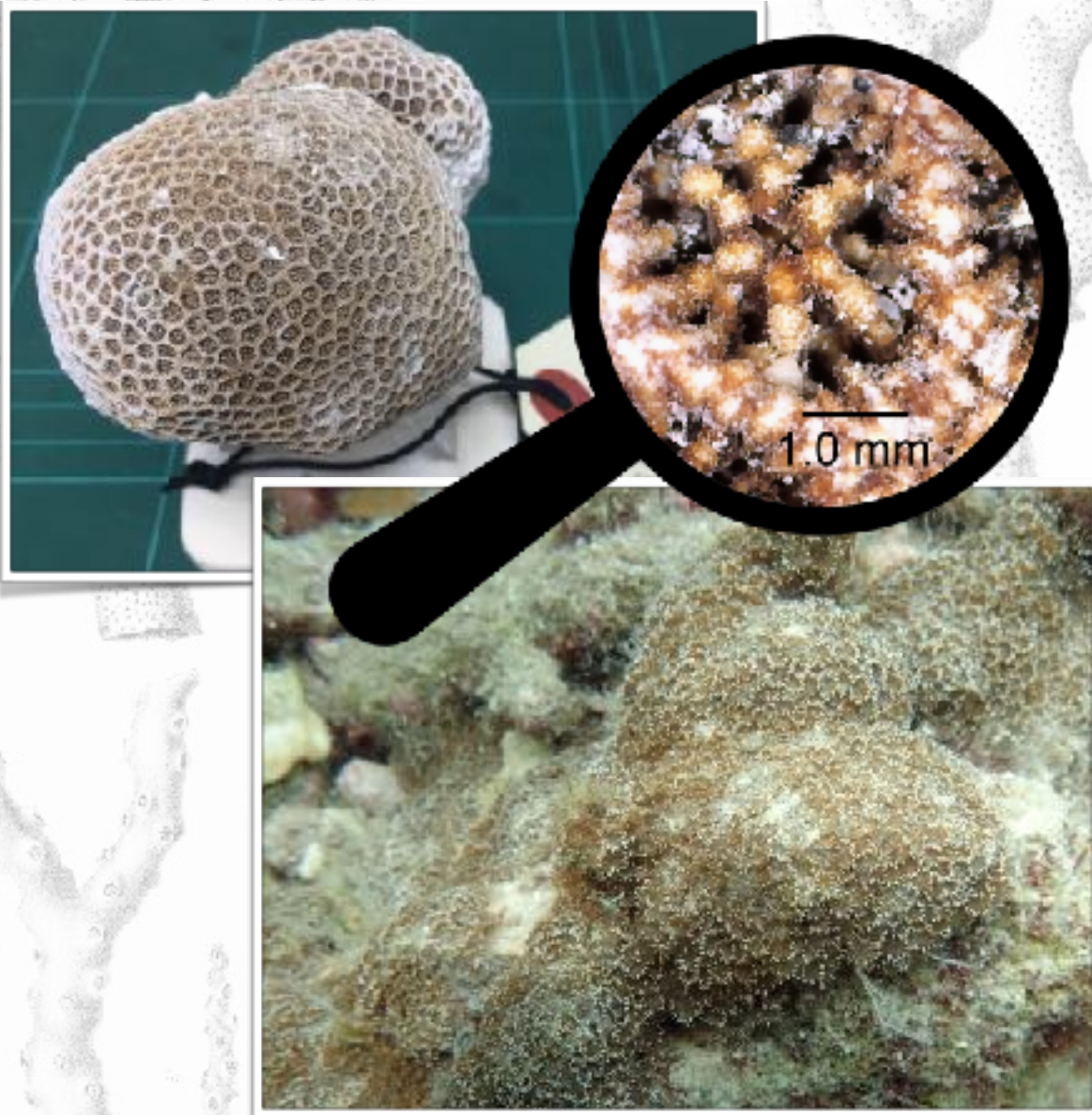
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24

## *Stylophora subseriata* (Ehrenberg, 1834)

LOCALITY	Teluk Sebukang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., PTNJ
COLLECTION DATE	27 <sup>th</sup> July 2016
G.P.S	2°26.343'N, 104°30.300'E
UKMMZ I.D.	UKMMZ-104CRLPA

# Poritidae Gray, 1840



25

## *Goniopora burgosi* Nemenzo, 1955

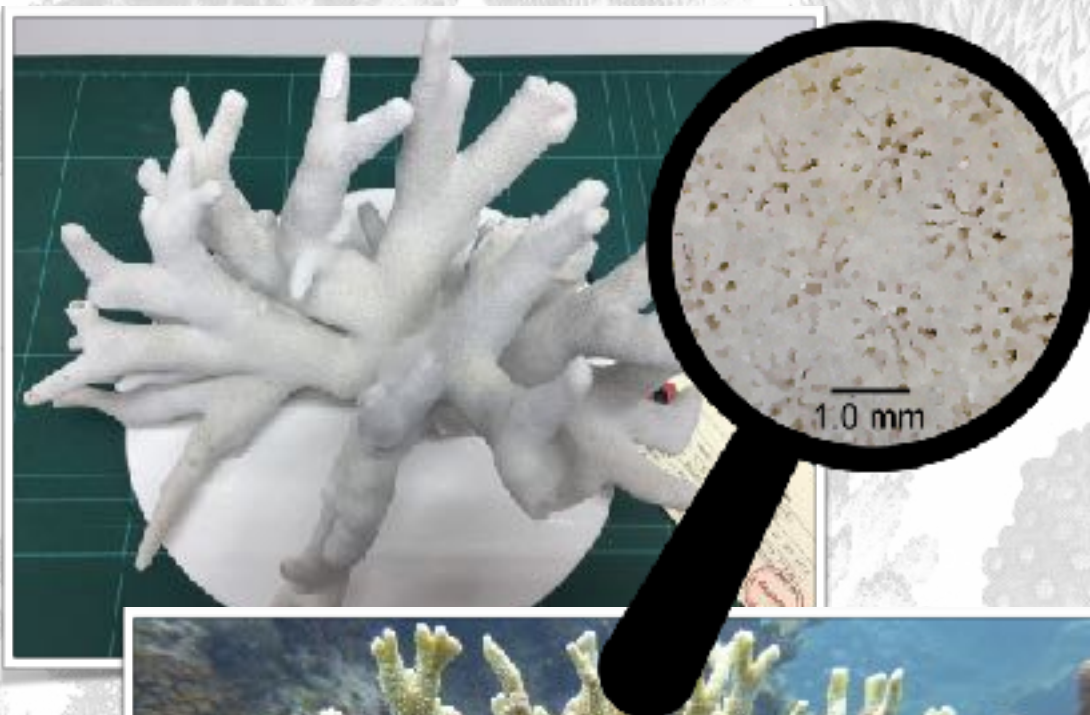
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COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2° 27.670'N, 104°31.626' E
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# Poritidae Gray, 1840



26

## *Porites attenuata* Nemenzo, 1955

LOCALITY	P. B. Ujong, Pulau Besar, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	27 <sup>th</sup> October 2016
G.P.S	2°29.773'N 103°57.006'E
UKMMZ I.D.	UKMMZ-106CRLPB

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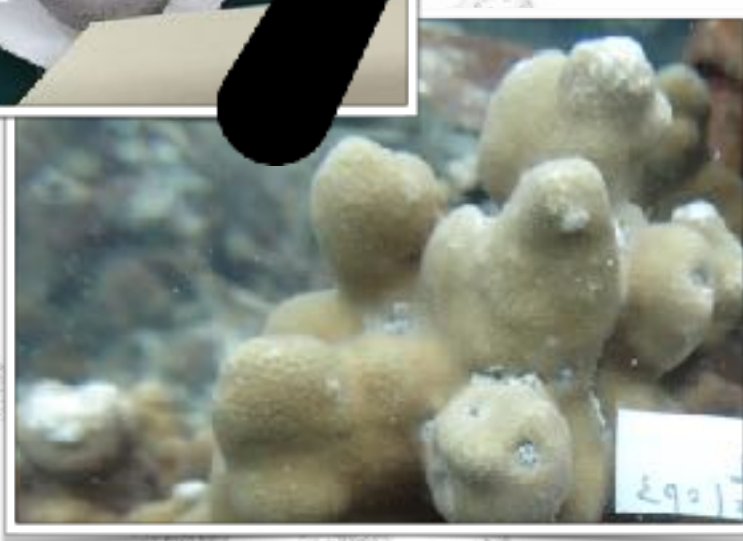


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# Poritidae Gray, 1840



27



## *Porites compressa* Dana, 1846

LOCALITY	Pulau Lang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., PTNJ
COLLECTION DATE	27 <sup>th</sup> July 2016
G.P.S	2° 27.597'N, 104° 29.363'E
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# Poritidae Gray, 1840



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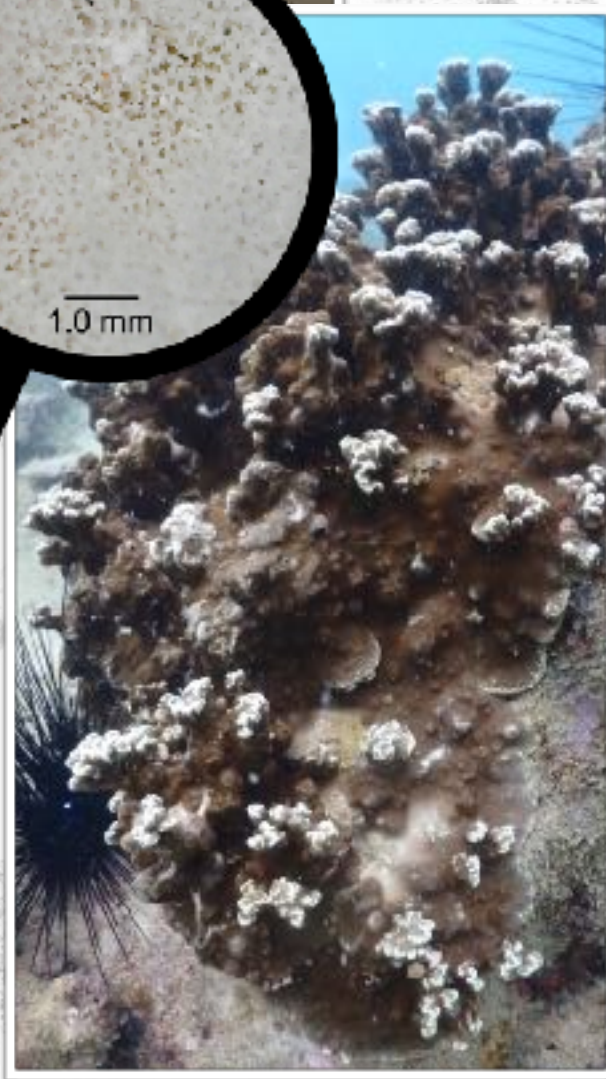
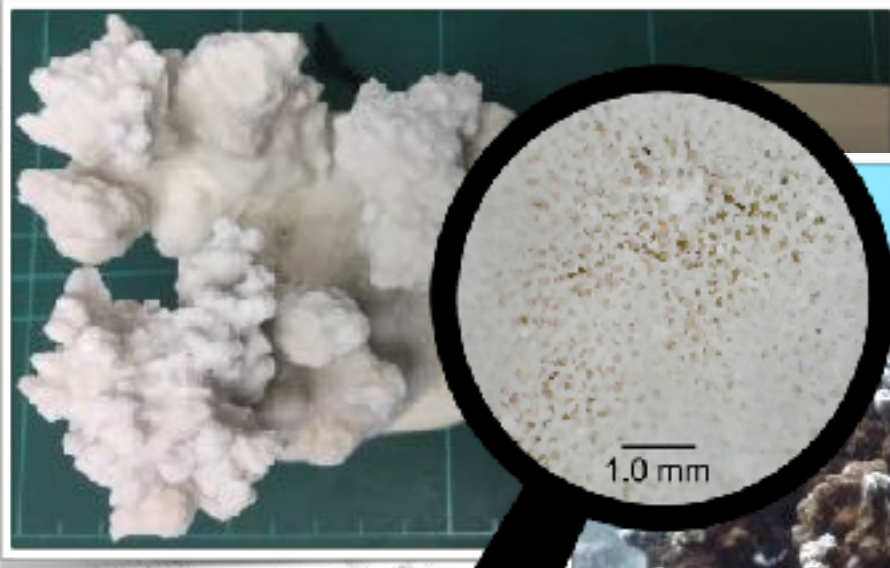
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## *Porites cylindrica* Dana, 1846

LOCALITY	Teluk Jawa/ Dayang, Pulau Aur, JOHOR
COLLECTOR	Wan Lotfi, W.M., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	26 <sup>th</sup> July 2016
G.P.S	2°28.723'N, 104°30.300'E
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# Poritidae Gray, 1840



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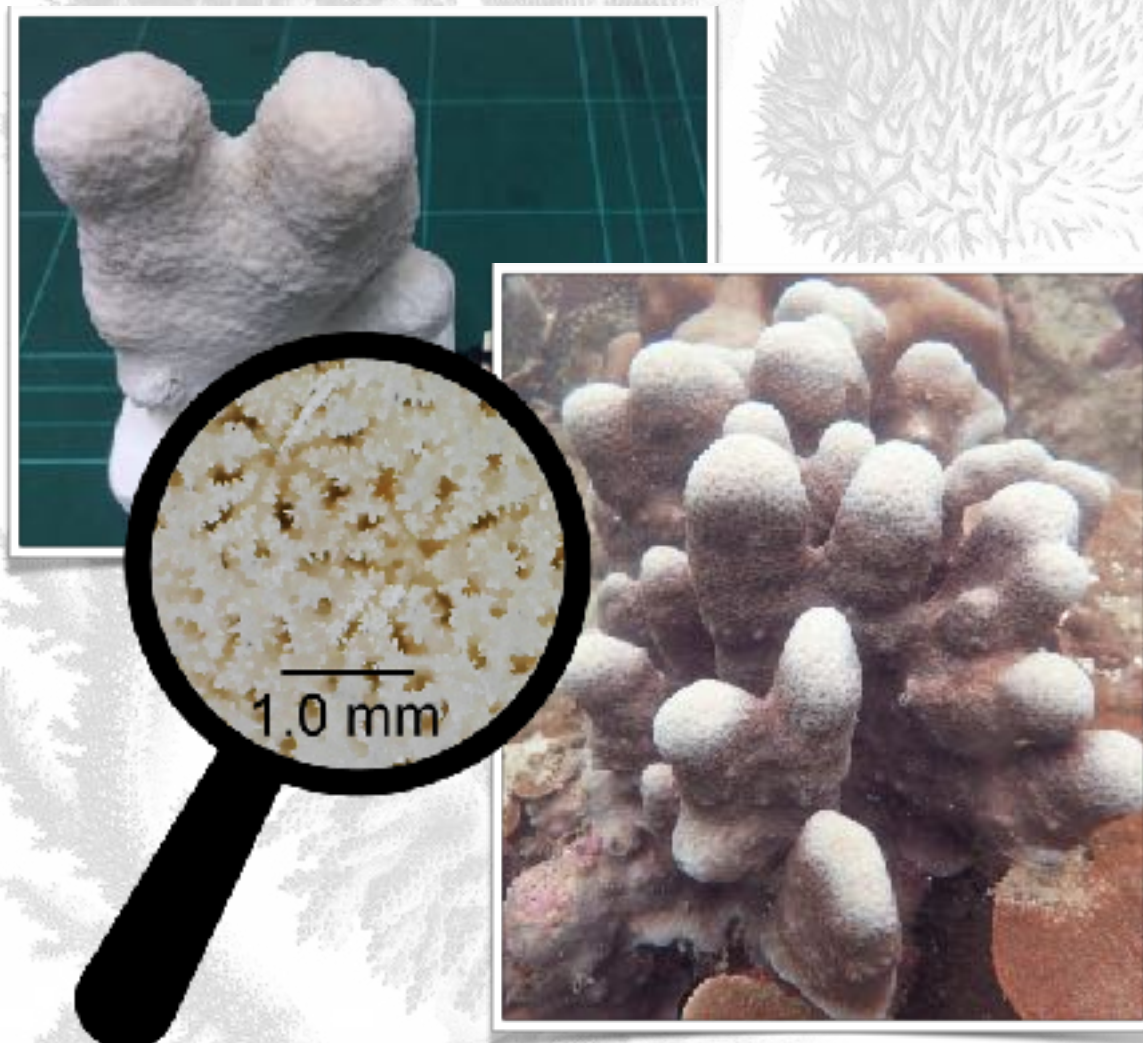


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*Porites rus* (Forskål, 1775)

LOCALITY	Pulau Rawa, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Asamuddin A.H.
COLLECTION DATE	4 <sup>th</sup> April 2017
G.P.S	2° 30' 58.95"N, 103° 58' 34.1256"E
UKMMZ I.D.	UKMMZ-104CRLPR

# Psammocoridae Chevalier & Beauvais, 1987



30

## *Psammocora digitata* Milne Edwards & Haime, 1851

LOCALITY	Pulau Rawa, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Asamuddin A.H.
COLLECTION DATE	4 <sup>th</sup> April 2017
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# Scleractinia incertae sedis



31

*Physogyra lichtensteini* (Milne Edwards & Haime, 1851)

LOCALITY	Sebirah Kechil, Pulau Tinggi, JOHOR
COLLECTOR	Wan Lotfi, W.M., Azman, B.A.R., Shamsul, B., Norhanim, M.Z.
COLLECTION DATE	30 <sup>th</sup> August 2016
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With 3,000 species, hard or stony corals compose the most colourful inhabitants of the world oceans. This informative catalogue, with 30 hard coral species, are commonly found along the Malaysian coasts. Much of the document is devoted to a list of common hard corals genera found in the Sultan Iskandar Marine Park, Johor. Each entry contains information on where the coral can be found in their natural habitat, detail corallite image, the collectors name, and QR code for a good introductory species description. The reader thus has immediate access to all visible elements needed to identify a species or its close relative, and is able at the same time, to enjoy its natural beauty.

*Azman B.A.R., Wan-Lotfi, W.M., Asamuddin, A.H.*

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