

ENDOPARASITES OF EUPHEUS JAPONICUS FROM MARINE
COASTAL WATERS OF TERENGGANU

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ENDOPARASITES OF *Eupeneus Japonicus* FROM MARINE COASTAL WATERS
OF TERENGGANU

By

ASAR ZAIM BIN ISHAK

Research report submitted in partial fulfillment of
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JABATAN SAINS SAMUDERA
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PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK PENYELIDIKAN I DAN II

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

ENDOPARASITES OF *Eupeneus japonicus* FROM MARINE COASTAL WATERS OF TERENGGANU oleh ASAR ZAIM BIN ISHAK No. matrik UK 7889 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Samudera sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah SARJANA MUDA SAINS (BIOLOGI MARIN), Fakulti Pengajian Maritim dan Sains Marin, UNIVERSITI MALAYSIA TERENGGANU.

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LIST OF ABBREVIATIONS/SYMBOLS

Abbreviation	Word
%	Percentage
^o C	Degree Celcius
g	gram
μm	Micron meter
SL	Standard Length
W	Weight
Fig	Figure
‰	Part per thousand
DO	Dissolved oxygen
Sp.	Species

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ABSTRACT

This study was conducted to identify endoparasites that infected *Eupeneus japonicus* from marine coastal waters of Terengganu. This study was done at two different season, pre-monsoon and monsoon season. A number of 120 samples of fish were bought from Fish Landing Port at Pulau kambing during pre-monsoon season (August – November) and Monsoon season (Disember-January) with sixty samples of fish at both seasons. Fish samples were examined to determine the prevalence and mean intensity of the endoparasites found. During the study, there were 4 species of endoparasites found: 2 species from class nematode (*Contracaecum* sp. and *Camallanus* sp.); one species from class trematode (*Allocreadium* sp.); and one species from class Arachnida, from family Hydracarina. The infestation levels for *E. japonicus* during monsoon season was higher compared to pre-monsoon season. There was probably a significant difference for the prevalence and mean intensity for pre-monsoon and monsoon season ($p < 0.05$). The infestation level of endoparasites for monsoon season was four times higher compared to pre-monsoon season. There was probably a significant relationship between the length of fish an infestation levels for pre-monsoon and monsoon season, that is the infestation level on fish samples will increase with the increasing of fish size (age).