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Perpustakaan Sultanah Nur Zahirah (UMT)
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Ectoparasite on Johnius carutta coastal waters of Terengganu /
Mohd Faizal Mohd Nadzari.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH
UNIVERSITI MALAYSIA TERENGGANU (UMT)
21030 KUALA TERENGGANU

1100054057		

Lihat sebelah

HAK MILIK
PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

**ECTOPARASITES ON *Johnius carutta* IN COASTAL WATERS OF
TERENGGANU**

By

Mohd Faizal b Mohd Nadzari

**Research Report submitted in partial fulfillment of
The requirements for the degree of
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FAKULTI PENGAJIAN MARITIM DAN SAINS MARIN
UNIVERSITI MALAYSIA TERENGGANU**

**PENAKUAN DAN PENGESAHAN
LAPORAN PROJEK PENYELIDIKAN I DAN II**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

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oleh Mohd Faizal b. Mohd Nadzari,

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Disahkan oleh:

.....
Penyelia Utama

Nama: Prof. Dr. Faizah bt. Shaharom

Cop Rasmi:

PROF. DR. FAIZAH SHAHAROM
Pegawai
Institut Akuakultur Tropika
Universiti Malaysia Terengganu
21030 Kuala Terengganu

Tarikh: 25/4/07

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LIST OF SYMBOLS

% = percent

μm = micrometer

mm = millimeter

cm = centimeter

g = gram

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ABSTRACT

A total of 33 fishes were examined in order to obtain the ectoparasite infecting the fish and to determine the prevalence and mean intensity of ectoparasite found. There were eight types of ectoparasites found in this research. Three of these ectoparasites represented the class trematode, the other four represent class copepoda and one metacercaria. Under the class trematoda, two were monogeneans and another one was digenea. The monogeneans found were *Ancyrocoehalus sp.* and *Microcotyle sp.* The digenea found was *Fellodistomum sp.* Four parasitic copepods were identified, which were *Lernanthropus sp.*, Lernaepodidae, *Caligus sp.* and Pennellidae. Seven out of the eight ectoparasites were found on various sites of the gills. The gills were divided into four parts which was the first, second, third and fourth gill. Only Pennellidae was found outside from the gills which were on the first dorsal fin and the caudal fin. The highest prevalence of ectoparasite found was *Ancyrocoehalus sp.* with 93.9%. The second highest was *Lernanthropus sp.* with 45.4%. The least prevalence is Pennellidae with only 3%. The most intense infection of ectoparasite was *Ancyrocoehalus sp.* with 60.7 monogenea per fish. The second highest mean intensity was *Lernanthropus sp.* with 2.4 individuals per fish. The least mean intensity is the *Fellodistomum sp.*