

7420

1100076173



LP 20 FASM 1 2009



1100076173

The study of prevalence and mean intensity of metazoan
endoparasites on redbelly yellowtail fusilier, caesio cunning /
Leaw Yoon Yau.

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

1100076173		

Lihat sebelah

HAK MILIK
PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

**THE STUDY OF PREVALENCE AND MEAN INTENSITY OF
METAZOAN ENDOPARASITES ON REDBELLY
YELLOWTAIL FUSILIER, *Caesio cuning*.**

**By
Leaw Yoon Yau**

**Research Report submitted in partial fulfillment of
the requirements for the degree of Bachelor of
Science Agrotechnology (Aquaculture)**

**Department of Fisheries and Aquaculture
FACULTY AGROTECHNOLOGY AND FOOD SCIENCE
UNIVERSITI MALAYSIA TERENGGANU
2009**

1100076173

This project report should be cited as:

Leaw, Y.Y., 2009. The study of prevalence and mean intensity of metazoan endoparasites on Redbelly Yellowtail Fusilier, *Caesio cuning*. Undergraduate thesis, Bachelor Science of Agrotechnology (Aquaculture), Faculty of Agrotechnology and Food Science, Universiti Malaysia Terengganu, Terengganu. 82p.

No part of this project report may be reproduced by any mechanical, photographic, or electronic process, or in the form of phonographic recording, nor may it be stored in a retrieval system, transmitted, or otherwise copied for public or private use, without written permission from the author and the supervisor of the project



**FAKULTI AGROTEKNOLOGI DAN SAINS MAKANAN
UNIVERSITI MALAYSIA TERENGGANU**

**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK ILMIAH I DAN II**

Adalah ini diakui dan disahkan bahawa laporan ilmiah bertajuk:

The Study of Prevalence and Mean Intensity of Metazoan Endoparasites on Redbelly Yellowtail Fusilier oleh Leaw Yoon Yau, No.Matrik UK13266 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Perikanan dan Akuakultur sebagai memenuhi sebahagian daripada keperluan memperoleh Ijazah Sarjana Muda Sains Agroteknologi (Akuakultur) Fakulti Agroteknologi dan Sains Makanan, Universiti Malaysia Terengganu.

Disahkan oleh:

.....


Penyelia Utama

Nama: Prof. Dr Faizah Shaharom

Cop Rasmi:

PROF. DR. FAIZAH SHAHAROM
Pensyarah
Jabatan Sains Perikanan & Akuakultur
Fakulti Agroteknologi & Sains Makanan
Universiti Malaysia Terengganu
21030 Kuala Terengganu

Tarikh: 30/04/09.....

.....

Penyelia Kedua (jika ada)

Nama:

Cop Rasmi

Tarikh:

ACKNOWLEDGMENT

Words can not express my gratitude to all the people who helped me during this project until I am successfully finished this final year project. First of all, I want to wish the most gratitude to my lovely supervisor, Prof. Dr. Faizah Shaharom for believing in me and in this project. I admire your patience and intelligence. Thanks to my coordinator, Dr. Nur Asma binti Ariffin for your advice and help.

I am also very grateful to Pn. Kartini for spending her times and expertise guiding me during this final year project. Beside that, I also want to thanks to En. Sharol, Pn. Faridah, Encik Izat, and all staff from Anatomy and Physiology Laboratory for helping me in providing chemicals and facilities during my lab work.

Special thanks to my friends Kak Noor, Hawa, Aina, Ana, Aini, Suzzane, Anitha, Chan, Micheal, and so on. We made our work fun, may be talked more than we worked. Finally, I want to wish the deepest gratitude to my family for their love, concern and support all the ways.

ABSTRACT

Redbelly Yellowtail Fusilier, *Caesio cuning* were obtained from Pulau Kambing, Kuala Terengganu and used for this project. A total of 6 species of metazoan endoparasites were collected from 30 specimens of fishes of the family Caesionidae, *Caesio cuning* from August 2008 to February 2009. The metazoan endoparasites obtained were as follows: i) *Intuscirrus sp.*, ii) *Dollfustrema sp.*, iii) *Digenea sp.*, iv) *Anisakis sp.*, v) *Cucullanus sp.*, and vi) Acanthocephalan. The highest prevalence and mean intensity for metazoan endoparasites on *Caesio cuning* is *Anisakis sp.* which were found in digestive tract that is 60% and 7.9 (≈ 8.0) of parasites per fish infected respectively. The second highest prevalence and mean intensity for metazoan endoparasite is *Intuscirrus sp.* was found in the stomach of *Caesio cuning* that is 57% and 6.3 (≈ 6.0) of parasites per fish infected respectively. The relation between parasites, host, diet of the host is also discussed.

ABSTRAK

Ikan Delah, *Caesio cuning* diperolehi dari Pulau Kambing, Kuala Terengganu dan digunakan dalam projek ini. Sejumlah 6 spesies metazoan endoparasit telah dijumpai daripada 30 spesimen ikan daripada famili Caesionidae, *Caesio cuning* dari Ogos 2008 hingga Februari 2009. Metazoan endoparasit yang diperolehi adalah seperti berikut : i) *Intuscirrus sp.*, ii) *Dollfustrema sp.*, iii) *Digenea sp.*, iv) *Anisakis sp.*, v) *Cucullanus sp.*, and vi) Acanthocephalan. Peratusan kepadatan dan min keamatan untuk metazoan endoparasit pada *Caesio cuning* ialah *Anisakis sp.* yang didapati dalam saluran penghadaman iaitu 60% dan 7.9 (8.0) ekor parasit bagi setiap ikan yang dijangkiti masing-masing. Peratusan kepadatan dan min keamatan yang kedua tinggi untuk metazoan endoparasit ialah *Intuscirrus sp.* yang didapati dalam perut ikan iaitu 57% dan 6.3 (\approx 6.0) ekor parasit bagi setiap ikan yang dijangkiti masing-masing. Hubungan antara parasit-parasit, tuan rumah, pemakanan bagi tuan rumah juga dibincangkan.