

**FIELD PRACTICE REPORT ON THE MORPHOMETRY AND PARASITOLOGICAL
PROFILING OF DIFFERENT SHELLFISHES AND MOLECULAR TECHNIQUES
DONE IN FISHERIES BIOTECHNOLOGY CENTER,
SCIENCE CITY OF MUNOZ , NUEVA ECIJA
PHILIPPINES**

By

ARIES PAUL DURAN PADRON

**Department of Aquaculture
COLLEGE OF FISHERIES
CENTRAL LUZON STATE UNIVERSITY
Science city of Munoz, Nueva Ecija
Philippines**

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**Undergraduate Field Practice Report presented to the faculty
of College of Fisheries, Central Luzon State University
in partial fulfillment of requirements for the degree**

of

BACHELOR OF SCIENCE IN FISHERIES

Approved:


APOLINARIO V. YAMBOT
Adviser


CLAIRE SAMANTHA T. JUANICO
Critic


KARL MARX A. QUIAZON
Department Chairperson


CLAIRE SAMANTHA T. JUANICO
Field Practice Coordinator

Accepted:


RAVELINA R. VELASCO
Dean

**Department of Aquaculture
COLLEGE OF FISHERIES
Central Luzon State University
Science City of Muñoz, Nueva Ecija
Philippines**

2017

BIOGRAPHICAL DATA



Personal Data

Name	Aries Paul Duran Padron
Birthday	June 19, 1996
Birth Place	Campoyong Guiuan, Eastern Samar
Address	Campoyong Guiuan Eastern Samar
Parents	Artemio D. Padron and Julita D. Padron

Educational Attainment

Elementary	Campoyong Elementary School Campoyong Guiuan, Eastern Samar
Secondary	Guiuan National High School Guiuan, Eastern Samar
Tertiary	Central Luzon State University Science City of Muñoz, Nueva Ecija

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EXECUTIVE SUMMARY

The field practice was conducted at the Fisheries Biotechnology Center (FBC) located in Bureau of Fisheries and Aquatic Resources-National Freshwater Fisheries Technology Center (BFAR-NFFTC) at CLSU compound in Science City of Munoz, Nueva Ecija from June 13, 2016 to July 16, 2016. The field practice constitutes two main topics; the morphometry and parasitological profiling of different shellfishes sourced from different areas in Luzon and an emphasis on the molecular techniques done in FBC. The first topic was part of the research project conducted by FBC entitled "Identification and diagnosis of parasites in high valued shellfishes in the Philippines as a biological reference for their management and control" while the latter was a basic techniques done in FBC for any related molecular activities. For the morphometry and parasitology of shellfishes, samples were sourced from different coastal towns in Luzon and were brought to the FBC laboratory for examination. Initially, morphometric parameters of the samples were recorded, and were followed by the dissection of the internal organ for parasitological examination using Olympus stereomicroscope. Normally, the shell surface was also subjected to such examination. Parasites found in samples were preserved in vials containing 96% ethanol. Moreover, molecular activities done in FBC constitute the following: DNA extraction, polymerase chain reaction (PCR) and gel electrophoresis which were discussed in details at the latter part of this report.

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