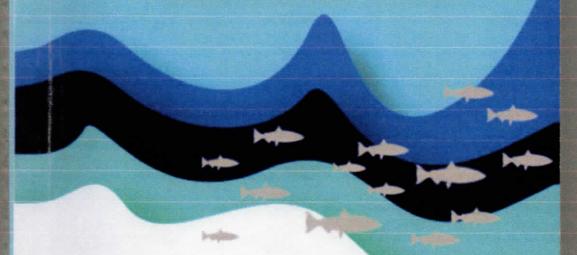


THE 2ND INTERNATIONAL CONFERENCE ON FISHERIES, **AQUATIC AND ENVIRONMENTAL SCIENCES** In Conjunction with
THE 6TH ANNUAL CONFERENCE OF THE ASIAN SOCIETY OF ICHTHYOLOGIST















"Advancing marine, fisheries, and environmental research towards improving human and community welfare"

> June 19th - 20th, 2019 Banda Aceh, Indonesia

Tabel of content

raper of contenti
Advisory Boardii
Organizing Committeeii
International Scientific Committeeii
Welcome Speech from Rector of Syiah Kuala Universityiv
Welcome Speech from Chairpersonvi
Guidelinesvii
Maps and Locationix
Гесhnical Program Schedulexii
Oral Presentation Schedulexv
Poster Presentation Schedulexxxiv
Book of Abstracts



Advisory Board

- Prof. Dr. Samsul Rizal M.Eng. Rector of Syiah Kuala University, Indonesia
- Prof. Dr. Muchlisin Z.A., S.Pi., M.Sc Dean of Marine and Fisheries Faculty, Syiah Kuala University, Indonesia
- Dr. Muhammadar, ST., MP Vice Dean I for Academic Affairs
- ♣ Drs. Muhammad, M.Si Vice Dean I for Financial Affairs
- Dr. Zulkarnain, S.Si., M.Si Vice Dean III for Alumnae and Student Affairs
- 4 Prof. Dr. Ir. Syamsul Rizal

Organizing Committee

- Adrian Damora, S.Pi., M.Si General Chairperson
- Siska Mellisa, S.Kel., M.Sc General Secretary
- Syahrul Purnawan, M.Si Event/Protocol
- ↓ Irma Dewiyanti, M.Sc Publication
- Nurfadillah M.S Treasurer and Finance Chair
- ♣ Rianjuanda, M.Si Public Relations

International Scientific Committee

- Prof. Dr. Muchlisin Z.A., S.Pi., M.Sc Syiah Kuala University, Indonesia
- + Prof. Dr. Ir. Syamsul Rizal Syiah Kuala University, Indonesia
- Prof. Larry M. Page Florida Museum of Natural History, University of Florida, USA
- Dr. Martin Wilkes Centre for Agroecology, Water and Resilience - Coventry University, UK
- The 2nd ICFAES in conjunction with The 6th Annual Conference of the Asian Society of Ichthyologists, June 19-20, 2019

- Prof. Siti Azizah Institute of Marine Biotechnology, Universiti Malaysia Terengganu
- Prof. K. Marimuthu Department of Biotechnology, Faculty of Applied Sciences, AIMST University
- Dr. Peng Fei Li Guangxi Key Laboratory of Marine Environmental Science, Guangxi Academy of Sciences, Nanning, P.R. China
- Dr. Zeehan Jaafar National University of Singapore,
 Singapore
- Dr. Sébastien Lavoué School of Biological Sciences,
 Universiti Sains Malaysia
- Dr. Luky Adrianto IPB University, Indonesia

First Report of Molecular Identification Based on Melanophores Pattern to Determine Species Composition of Nike Fish Schooling in Gorontalo Bay, Indonesia

Femy M. Sahami¹, Rene Charles Kepel², Abdul Hafidz Olii¹, Silvester Benny Pratasik²

¹Faculty of Fisheries and Marine Science, Gorontalo State University, Jl. Jendral Sudirman. No. 6, Gorontalo City, Gorontalo Province, Indonesia

²Faculty of Fisheries and Marine Science, Sam Ratulangi University,
Jl. Kampus Unsrat Bahu, Manado
City, 95115, North Sulawesi Province, Indonesia.

*Email: femysahami@ung.ac.id

Abstract

Nike is the local name of small fish found in the sea and the estuary of Bone River, Gorontalo, Indonesia and is one of the local mainstay fisheries resources that are relatively small in size compared to other types of fish. This type of fish is known as an unique sort of fish in the Gorontalo Bay. Presently, the fish is one of the economically valuable commodities that prompts high fishing intensity. This study aims to identify species that make up the schooling of nike fish in the waters of Gorontalo Bay using an approach to differences in melanophore patterns and molecular analysis with the CO1 gene. Initial identification was morphologically carried out based on differences in melanophore patterns found in individuals composing schooling of nike fish. Sampling was done randomly by picking up nike fish of approximately 100-150 grams from the catch of fishermen during the period of its appearance in Gorontalo Bay on October 5-11 2018. Samples were grouped into 5 groups, each of which was coded as N1, N2, N3, N4, and N5. From each group of samples, each individual fish was taken and preserved in 70% alcohol for molecular analysis. The results showed that the nike school in Gorontalo Bay consisted of several species successfully identified, Sicyopterus pugnans, S. cynocephalus, Belobranchus segura, and Bunaka gyrinoides.

Keywords: goby, melanophore, molecular, morphology, nike fish

130

The 2nd ICFAES in conjunction with The 6th Annual Conference of the Asian Society of Ichthyologists, June 19-20, 2019

Lenght-Weight Relationship Shrimp *Penaeus merguensis* in The Waters of Nagan Raya, Aceh, Indonesia

M. Ulfa^{1*}, D F Putra¹, A A Muhammadar²

¹Aquaculture study program, Faculty of marine and fisheries, Syiah kuala university Darussalam, Banda Aceh, Indonesia,

²Lhok village, coastal kuala, Nagan Raya

*E-mail: Mariaulfakamal@gmail.com

Abstract

Penaeus merguensis shrimp is one of the most important commodities in the waters of Nagan Raya. The purpose of this study was to determine the relationship of length of weight, sex ratio, and the level of gonad shrimp maturity caught in Nagan Raya waters. This research method used a simple random withdrawal method that is. Shrimp samples were 10% of the total catch of the fishermen. Sampling was conducted in October 2018. Sampling place at TP1 Kuala Tuhan, Nagan Raya. The results shoud that male and female carapace lengths ranged from 4.7 mm to 25.42 mm and 25.4 mm to 45.5 mm. The growth characteristics of shrimp in males and females in Nagan Raya waters are positive allometric (b = 5.3611) and positive allometric (b = 6.2997). Comparison of male and female sex ratios 1: 0.47. Gonad maturity level was dominated by level V TKG, but at the time of the study there was no level I TKG.

Keyword: Lenght-weight, Penaeus merguensis, sex ratio, and the level of gonad shrimp















Certificate of Appreciation

This is to certify that:

Femy M. Sahami, S.Pi., M.Si

As Presenter

Has participated in

THE 2^{ND} INTERNATIONAL CONFERENCE ON FISHERIES, AQUATIC AND ENVIRONMENTAL SCIENCES In Conjunction with the 6^{TH} Annual conference of the asian society of ichthyologist

"Advancing marine, fisheries, and environmental research towards improving human and community welfare"

Which was held on June 19th - 20th, 2019 At Syiah Kuala University, Banda Aceh, Indonesia

Dean of Faculty of Marine and Fisheries Syiah Kuala University

Prof. Dr. Muchlisin ZA, S.Pi., M.Sc

Chairman

Adrian Damora, M.Si













Certificate of Appreciation

Certificate is proudly presented to:

Femy M. Sahami, Rene Charles Kepel, Abdul Hafidz Olii, Silvester Benny Pratasik

As Author

For the paper entitled:

First Report of Molecular Identification Based on Melanophores Pattern to Determine Species Composition of Nike Fish Schooling in Gorontalo Bay, Indonesia

THE 2^{ND} INTERNATIONAL CONFERENCE ON FISHERIES, AQUATIC AND ENVIRONMENTAL SCIENCES In Conjunction with the 6^{TH} Annual conference of the asian society of ichthyologist

Banda Aceh, June 19th - 20th, 2019

Dean of Faculty of Marine and Fisheries
Syiah Kuala University

Prof. Dr. Muchlisin ZA, S.Pi., M.Sc

Chairman

Adrian Damora, M.Si