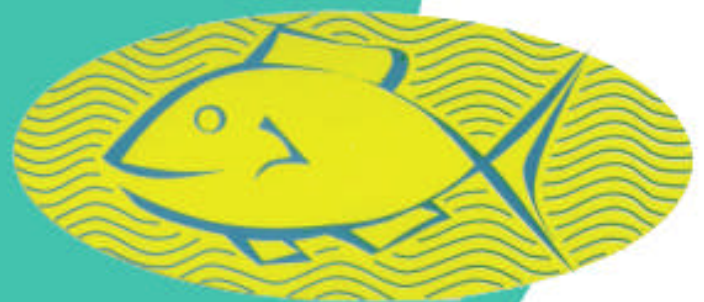


# INDONESIAN FISHERIES RESEARCH JOURNAL



**CENTER FOR FISHERIES RESEARCH**  
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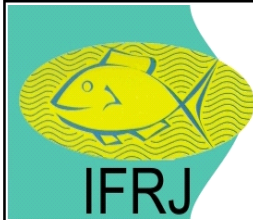
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## INDONESIAN FISHERIES RESEARCH JOURNAL

### SHEET INDEXING

#### FOCUS AND SCOPE OF INDONESIAN FISHERIES RESEARCH JOURNAL

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## PREFACE

Indonesian Fisheries Research Journal (IFRJ) in 2019 entered the Volume 25. The process of publishing this journal is funded by Research Center for Fisheries of the fiscal year 2019. All submissions should be published through the process of evaluation by the Editorial Board, Peer-Reviewers and editing by Editorial Office.

The IFRJ Volume 25 Number 1 2019 presented seven fisheries research articles: Population Dynamic and Spawning Potential Ratio of Short Mackerel (*Rastrelliger brachysoma* Bleeker, 1851) in The Northern Coast of Java; Potentials Yield and Fisheries of Malahayu Reservoir, Brebes; Population Parameters of Endeavour Shrimp (*Metapenaeus ensis* de Haan) in Binuangeun and Adjacent Waters, West Java; Preliminary Study On Biological Aspects of Papuan Seerfish (*Scomberomorus multiradiatus* Munro, 1964) in Merauke Waters, Papua, Indonesia; Genetic Chracterization of Kissing Gourami (*Helostoma temminckii* Cuvier, 1829) in Ogan River, South Sumatra Inferred From 16S *rRNA* and *COI* Mitochondrial Genes; Characteristic of Small Scale Tuna Fisheries Associated With FADs in Labuhan Lombok, Nusa Tenggara-Indonesia; New Record of Giant Devil Ray (Chondrichthyes: Myliobatidae) From Oran Bay (Western Mediterranean Sea).

Those scientific papers are expected to contribute to policy makers and managers of fisheries resources in Indonesia. Editor would deliver sincere thanks to reseachers from the Resarch Center for Fisheries and outside for their active participation in this edition.

**Editor in Chief**

**INDONESIAN FISHERIES RESEARCH JOURNAL**  
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**INDONESIAN FISHERIES RESEARCH JOURNAL**  
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**ABSTRACT**

**POPULATION DYNAMIC AND SPAWNING POTENTIAL RATIO OF SHORT MACKEREL (*Rastrelliger brachysoma* Bleeker, 1851) IN THE NORTHERN COAST OF JAVA**

Achmad Zamroni  
*IFRJ, Vol. 25 No. 1, Page: 1-10*

**ABSTRACT**

Short mackerel fish (*Rastrelliger brachysoma*) is one of small pelagic fish mostly exploited by mini purse seine fishing gear. Exploitation of short mackerel by mini purse seine has an increasing trend every year and suspected to have negative impacts. One of the negative impact is the decrease of fish abundance, so it is necessary to carry out population dynamics and Spawning Potential Ratio (SPR) studies through length-based approach to provide exploitation indicator as biology reference point. The result of length-weight relationship analysis shows that the growth pattern ( $b = 2.3483$ ) is negative allometry. The estimated length at first capture and its first sexual maturity analysis shows that the value of length at first capture ( $L_c = 15.4$  cm FL) is greater than the length at first sexual maturity ( $L_m = 15.21$  cm FL). The estimated maximum length ( $L_\infty$ ) is 21.05 cm FL with growth rates ( $K$ ) is 1.01 year<sup>-1</sup> and  $t_0$  at -0.177 years. The estimated total mortality ( $Z$ ) was 5.48 year<sup>-1</sup>, natural mortality ( $M$ ) was 2.02 year<sup>-1</sup> and fishing mortality ( $F$ ) was 3.46 year<sup>-1</sup>. The predicted exploitation rate ( $E$ ) is 0.63 which higher than the optimum value ( $E = 0.5$ ). The estimated length-based SPR (LB-SPR) of 30% (SPR > 20% or above limit) means that short mackerel fishing activity has full exploitation.

**Keywords:** Growth parameter; northern Java; short mackerel; spawning potential ratio

**POTENTIALS YIELD AND FISHERIES OF MALAHAYU RESERVOIR, BREBES**

Setiya Triharyuni  
*IFRJ, Vol. 25 No. 1, Page: 11-17*

**ABSTRACT**

Fishing activity in Malahayu Reservoir has been done since long time. Unlimited fishing may impact to the decreasing of fish resources of those waters. This study presents an assessment of fishing practices in Malahayu reservoir between 2008-2016 periods. Data of potential fish production and catch per unit effort were estimated by using different estimate models, catch per unit effort was analyzed annually, while potential fish production was analyzed by using five models namely

model by Henderson & Welcome (1974), Teows & Griffith (1979), Marshal (1984), Moreau & De Silva (1991) and Crul (1992). The results show that changes of fish composition has accured, which was originally dominated by native fish while for now it is dominated by 72,05% of tilapia (*Oreochromis niloticus*) as an introduced fish. Furthermore, the average catch per unit effort (CPUE) in Malahayu reservoir is about 11,82 kg / fisherman, while the average potential production is about 198,55 kg / year. CPUE value and potential production indicate that exploitation rate in Malahayu Reservoir are in fully-exploited or perhaps over-exploited condition. Related to those conditions, not to increase the number of efforts (fishermen) as a management option towards sustainable fisheries.

**Keywords:** CPUE; yield; Malahayu reservoir; exploitation rate

**POPULATION PARAMETERS OF ENDEAVOUR SHRIMP (*Metapenaeus ensis* de Haan) IN BINUANGEUN AND ADJACENT WATERS, WEST JAVA**

Ali Suman  
*IFRJ, Vol. 25 No. 1, Page: 19-26*

**ABSTRACT**

Study on the population dynamic of endeavour shrimp (*Metapenaeus ensis*) was conducted in Binuangeun waters based on data collected during period of survey, January to November 2016. The purpose of the study was to identify population parameters of the endeavour shrimp. Result showed that the endeavor shrimp growth pattern in Binuangeun waters was negative allometric and sex ratio of males and females was 1.0 : 2.7. The chi square test indicated that comparison of male and female of the endeavour shrimp was significantly different. It mean that there was imbalance in number between males and females. The length at first capture ( $L_c$ ) of endeavour shrimp was 28.9 mm (carapace length), smaller than the length at first maturity ( $L_m$ ) at 37.7 mm (carapace length). The growth parameter of endeavour shrimp was 1.33/year with maximum carapace length ( $L_{oo}$ ) of 51.45 mm. Instantaneous total mortality ( $Z$ ) and natural mortality ( $M$ ) were 7.74/year and 1.88/year, respectively. While fishing mortality ( $F$ ) and exploitation rate ( $E$ ) respectively were 5.86/year and 0.76/year. The exploitation rate of endeavour shrimp in Binuangeun and adjacent waters was high. It was, therefore, recommended that fishing effort of the endeavour shrimp in that waters should be reduced about 52 % in the next year.

**Keywords:** Population dynamic; endeavour shrimp; Binuangeun waters; FMA 573

## PRELIMINARY STUDY ON BIOLOGICAL ASPECTS OF PAPUAN SEERFISH (*Scomberomorus multiradiatus* MUNRO, 1964) IN MERAUKE WATERS, PAPUA, INDONESIA

Duranta Diandria Kembaren  
*IFRJ, Vol. 25 No. 1, Page: 27-35*

### ABSTRACT

Papuan seerfish (*Scomberomorus multiradiatus*; local: tenggiri papua) is an endemic species to the Papuan waters and distributed from the waters of Papua New Guinea to Merauke in Indonesia. The biological information of this species is little known. This study aimed to determine the biological aspects of Papuan seerfish to fill the research gap of this species. The data collection were conducted from February to November 2016. Biological parameters observation of the fish sample included of fork length (FL), sex, and maturity stages. All the data were analyzed using standard methods. The maximum length and weight of Papuan seerfish from Merauke waters were 49 cm and 908 g and this size became the largest published size ever. The sex ratio was in an equal condition and the growth pattern was isometric. Spawning occurs all year arounds and reach its peak on August. The relative condition factor of Papuan seerfish tend to be low in the reproductive periods. Papuan seerfish from Merauke waters were caught before reaching their size at maturity ( $L_c < L_m$ ). For the sustainability of this resources and precautionary approach of fisheries management, it is suggested to apply the minimum catch size in 33 cm.

**Keywords:** Biological; condition factor; size; maturity; Papuan seerfish

## GENETIC CHARACTERIZATION OF KISSING GOURAMI (*Helostoma temminckii* Cuvier, 1829) IN OGAN RIVER, SOUTH SUMATRA INFERRED FROM 16S *rRNA* AND *COI* MITOCHONDRIAL GENES

Tuty Arisuryanti  
*IFRJ, Vol. 25 No. 1, Page: 37-44*

### ABSTRACT

Genetic characterization data of kissing gourami are important to understand historical lineage thus enhancing sustainability of the species and to establish regulation for sustainable management of the fish stock in their habitat. However, investigation of genetic characterization of kissing gourami, one of native Indonesian freshwater fishes has poorly understood. Therefore, the aim of this study was to examine genetic characterization of the fish species collected from Ogan River, South Sumatra using partial sequences of two mitochondrial genes, 16S *rRNA* and *COI*. The results revealed that for the 621 bp determined in 16S *rRNA* gene of the samples, five sites were variable, of which

### Abstract

one was parsimony informative. Concatenate data revealed three haplotypes with an overall haplotype diversity of  $0.833 \pm 0.222$  and nucleotide diversity of  $0.003 \pm 0.001$ . The genetic divergence varied from 0-0.49%. Next, sequence analysis of *COI* gene exhibited 609 bp which can be translated into 203 amino acids. For the 609 bp sequence determined in the fish samples, three haplotypes were revealed with nine variable sites and two parsimony informatives. Haplotype diversity and nucleotide diversity of the fish samples were  $0.833 \pm 0.22$  and  $0.00794 \pm 0.0025$ , respectively. The haplotype divergence between the fish samples was also supported by three nonsynonymous codons. In addition, the genetic divergence varied from 0 % to 1.16 %. The results suggest that genetic variation of the kissing gourami has to be monitored and further studies are needed to compare the same species from different location to know the historical lineage and demography.

**Keywords:** Genetic variation; kissing gourami; mt-DNA; Ogan River

## CHARACTERISTIC OF SMALL SCALE TUNA FISHERIES ASSOCIATED WITH FADs IN LABUHAN LOMBOK, WEST NUSA TENGGARA-INDONESIA

Fathur Rochman  
*IFRJ, Vol. 25 No. 1, Page: 45-54*

### ABSTRACT

Fish aggregating devices, or FADs are used extensively in developing countries to attract and to collect pelagic fish and give positive impacts on fish production. Use of FADs has started in early 20<sup>th</sup> century with different names among the countries and regions. This study investigated the design, deployment, distribution, density and the number of FADs used by small scale tuna fisherman in Labuhan Lombok, including characteristics of fishing boat, fishing gear, catch composition, catch per unit of effort (CPUE), fish diversity and species richness. There were 65 FADs identified in this study and 47 of them were in normal distribution. Type of the FADs used was anchored FADs, spreading between 56.63 to 267.70 NM from Labuhan Lombok fishing port. The placement of FADs were arranged in such a way as to resemble a fence, in which the distance from one to another was close. It is expected to disrupt tuna movement towards the strait in the small islands around West Nusa Tenggara. The dimensional size of vessels used to catch fish was small boat (< 7 GT) with handline as fishing gears. Fish catches were dominated by skipjack (40.30%) followed by yellowfin tuna (30.90%), tuna juvenile (13.44%), frigate tuna (4.19%), albacore (3.41%), bigeye tuna (2.71%) and others (5.03%). The highest nominal CPUE occurred in January and February, accounted for 278 kg and 285 kg per day at sea respectively. The average diversity of fish and species richness in FADs area were 1.07674 and 1.3573 correspondingly. Overall results inform that diversity of fish, productivity and ecosystem were at sufficient condition and mid ecological pressure but species

richness was in low condition. If this continues, it is possible that tuna diversity will decrease and endanger the survival of tuna species and others species related to the tuna.

**Keywords:** FADs; tuna fisheries; Indian Ocean; Labuhan Lombok; West Nusa Tenggara

**NEW RECORD OF GIANT DEVIL RAY (CHONDRICHTHYES: MYLIOBATIDAE) FROM ORAN BAY (WESTERN MEDITERRANEAN SEA)**

Kais Boumediene Hussein  
IFRJ, Vol. 25 No. 1, Page: 45-54

**ABSTRACT**

The present paper reports a new record of Giant devil ray *Mobula mobular* (Bonnaterre, 1788) from western

Algerian waters that is encountered for the first time in that coast since its first description in 1901 and last observation in late 80's. This elasmobranch is categorized as endangered on the IUCN Red List (Endangered A2d ver 3.1) and is likely to be the rarest of the nine species of *Mobula* genus. Occasionally it is captured in Mediterranean Sea by purse seines, bottom and pelagic trawls, pelagic nets, bottom longlines, drifters and harpoons. The specimen stranded in "la Madraque Beach" in Western Algerian coasts. Its disc length was measuring 108.96 cm and disc width was 226.02 cm. This Myliobatidae is rarely seen with daily landed fish at Oran fishery. Up to date no explicit reason can be given for the strand of *M. mobular* but ghost fishing and important maritime traffic stay the most plausible cause of this incident.

**Keywords:** Myliobatidae; Morphometric measurements; Western Mediterranean; Oran Bay; Algeria