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Population dynamics of Yellowfin Tuna Thunnus albacares (Bonnaterre, 1788) in the fisheries management area 573 of the Indian Ocean

Ghofar A.^a ⋈ , Saputra S.W.^a, Sabdono A.^b, Solichin A.^a, Taufani W.T.^a, Febrianto S.^a

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Abstract

Author keywords

SciVal Topics

Abstract

Yellowfin tuna Thunnus albacares is one of the major species of tuna caught in the Fisheries Management Area (FMA) 573 of the Indian Ocean. Its production contributed to 35.83% of the total production of tuna in 2013. The study was conducted to assess the population dynamics of this species in FMA 573, based on length-frequency data collected in 2013-2017, and was analysed using FiSAT II software. The results obtained show length-weight relationship of W = 0.000052 FL^{2.78}, negative allometric growth and growth equation of Lt = 194.25 ($1-e^{-0.51}$ ($t+^{0.1889}$). The length at first capture was estimated at 140 cm FL. Recruitment season occurs between July and September, with a peak in August. The rate of total mortality (Z) was 2.32 yr^{-1} , including natural mortality rate (M) of 0.69 yr^{-1} and fishing mortality rate (F) of 1.63 yr^{-1} . The exploitation rates of yellowfin tuna were estimated to be 0.70, indicating that it has exceeded the optimum exploitation rate (E = 0.5) and that overexploitation had occurred. There is an obvious need for consistent monitoring and surveillance of fishing fleet, type and size of fishing gear, as well as the fish size and quantity of the catch. © 2021 Author(s).

Author keywords

Effort distribution; Exploitation rate; FMA Growth pattern; Length-weight relationship; Mortality rate

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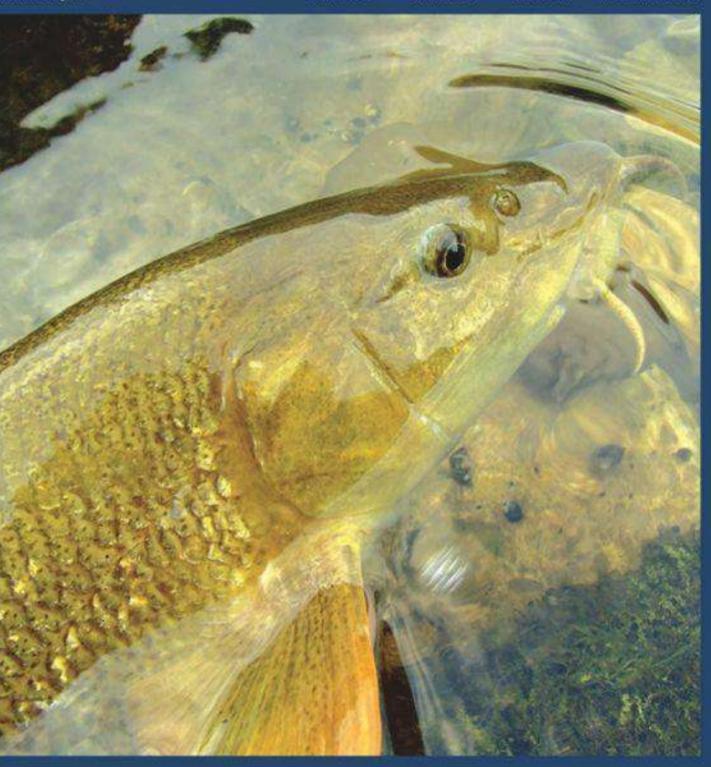
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Sustainable Operational Analysis of the Cultivation of Indonesian Thunnus albacares by Bioeconomic Approach

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The Average Weight of Fish Caught by Anglers at the Croatian Section of the Sava River Catchment

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<u>Detection and Confirmation of Freshwater Blenny Salaria</u> fluviatilis (Actinopterygii: Blenniidae) in Bosnia and Herzegovina

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New Distribution Data for Prussian Carp Carassius gibelio (Bloch 1782) in the Middle Black Sea Region of Turkey

Serdar Yedier, Derya Bostanci and Nazmi Polat

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CODEN RIBAEG ISSN 1330-061X (print) 1848-0586 (online)



NEW DISTRIBUTION DATA FOR PRUSSIAN CARP *Carassius gibelio* (BLOCH 1782) IN THE MIDDLE BLACK SEA REGION OF TURKEY

Serdar Yedier^{1*}, Derya Bostanci¹, Nazmi Polat²

ARTICLE INFO	ABSTRACT				
Received: 4 January 2021 Accepted: 18 February 2021 Keywords: Invasive fish Carassius gibelio Distribution data Middle Black Sea	In this study, the new occurrence of <i>Carassius gibelio</i> belonging to the genus <i>Carassius</i> in Ulugöl Plateau Pond (Mesudiye-Ordu, Turkey) and Perşembe Plateau Pond (Aybasti-Ordu, Turkey) in the Middle Black Sea Region (Turkey) is reported. The distribution data of Prussian carp was updated in the Middle Black Sea Region of Turkey in comparison to the previously known data. Presenting morphological data of samples collected from two different areas in the Middle Black Sea Region may contribute to revealing the current distribution status of this invasive species and determining the potential distribution areas.				
How to Cite	Yedier, S., Bostanci, D., Polat, N. (2021): New distribution data for prussian carp <i>Carassius gibelio</i> (BLOCH 1782) in the Middle Black Sea region of Turkey. Croatian Journal of Fisheries, 79, 83-88. DOI: 10.2478/cjf-2021-0010.				

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^{*}Corresponding Author: serdar7er@gmail.com

DOI: 10.2478/cjf-2021-0007

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SUSTAINABLE OPERATIONAL ANALYSIS OF THE CULTIVATION OF INDONESIAN Thunnus albacares BY BIOECONOMIC APPROACH

Mimit Primyastanto*, Rizky Agung Lestariadi, Ade Khadar Haris

Department of Marine and Fisheries Social Economic, Faculty of Fisheries and Marine Science, Brawijaya University, Malang 65145, East Java, Indonesia

*Corresponding Author: mimitp@ub.ac.id

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Received: 6 May 2020 Accepted: 12 January 2021

Keywords:

Maximum sustainable yield Maximum economic yield Tuna resource Economic overfishing Biological overfishing

How to Cite

ABSTRACT

This study aimed to describe the characteristics and cultivation conditions of Thunnus albacares in Pelabuhan Perikanan Pantai (PPP, shore-port fisheries) of Labuhan Lombok, East Lombok. Data was collected by a simple random sample using a questionnaire for 30 fishing boats. Primary data was collected by interview with respondents and field observation, while secondary data was obtained from records of PPP in Labuhan Lombok, BPS and DKP, East Lombok. Results showed that East Lombok has a high potential for T. albacares cultivation as well as eco-friendly fishery cultivation; this is practiced by local fishermen who commonly use traditional boats sized 4-7 GT complete with fishing utilities, including handline rods and trolling rods. From a biological aspect, there was open access to T. albaceros in 2006, followed by biological overfishing in 2007, and economic overfishing in 2005, 2008, 2009, 2010 and 2011. The maximum sustainable yield (MSY) reached 922,518.18 kg per year (MSY level 3,313 per year). The resource optimization of *T. albaceros* reached the peak of maximum economic yield (MEY) valued at IDR 24,693,982,361, with fish haul efforts from 2,063 annual trips yielding 791,270.90 kg of tuna per year.

Primyastanto, M., Lestariadi, R. A., Haris, A. K. (2021): Sustainable operational analysis of the cultivation of Indonesian *Thunnus albacares* by bioeconomic approach. Croatian Journal of Fisheries, 79, 61-70. DOI: 10.2478/cjf-2021-0007.

DOI: 10.2478/cjf-2021-0009

CODEN RIBAEG ISSN 1330-061X (print) 1848-0586 (online)



DETECTION AND CONFIRMATION OF FRESHWATER BLENNY Salaria fluviatilis (ACTINOPTERYGII: BLENNIIDAE) IN BOSNIA AND HERZEGOVINA

Pero Tutman^{1*}, Branko Glamuzina²

ARTICLE INFO	ABSTRACT				
Received: 18 January 2021 Accepted: 30 January 2021	Distributional range of freshwater blenny <i>Salaria fluviatilis</i> extends to the tributaries along the Mediterranean and Black seas. It is considered endangered in several Mediterranean European countries. Although previously mentioned in the lists of freshwater fish species, its presence has never before been confirmed in Bosnia and Herzegovina. Consequently, this has led to doubts about its distribution there. A sample specimen of freshwater blenny was obtained from the lower Neretva River (Adriatic Sea watershed) in Bosnia and Herzegovina in May 2020, representing the first reliable record of this species. Considering that this record confirms				
Keywords: Biodiversity Management Adriatic Sea watershed Update check-lists	older reports, however, it seems that earlier surveys have failed to locate the fish. Knowledge of the composition of fish species in river basins and updating their list are among the important requirements for managing the biodiversity of each country, as well as water and fish resources.				
How to Cite	Tutman, P., Glamuzina, B. (2021): Detection and confirmation of freshwater blenny <i>Salaria fluviatilis</i> (ACTINOPTERYGII: BLENNIIDAE) in Bosnia and Herzegovina. Croatian Journal of Fisheries, 79, 75-82. DOI: 10.2478/cjf-2021-0009.				

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