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EMBRIO IPB <embrio.ipb@gmail.com> Kepada: Fauziyah Arifin Sab, 22 Jun 2019 jam 18:46

Dear Participant,

Congratulations. We are delighted to accept your abstract. Kindly find the details in the attached files. You may visit our website: eis-embriopb.org for payment instructions and the deadline. Let us know if you have any questions.

Best regards,

EMBRIO Management Office
 EPK International Room 4th Floor
 Faculty of Fisheries and Marine Science IPB
 Jl. Agatis, Kampus IPB Dramaga, Bogor 16650
 Website: <http://embrio.ipb.ac.id/>
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Attachments: Letter of Acceptance 19 June 2019

Dear Fauziyah,

Thank you for submitting your abstract to our peer-reviewed, the 4th EMBRIO International Symposium 2019 (4th EIS) and the 7th East Asia Fisheries Technologist Association Symposium (EAFTA), which will be held on 5-6 August 2019 in Bogor, Indonesia.

However, on behalf of the Organizing Committee, we are pleased to announce that your abstract has been ACCEPTED as detailed below:

Title: Assessing the stock status of *Lutjanus fulviflamma* in Banyuwangi Coastal Waters, Province of South Sumatra, Indonesia
 Type: Oral presentation

However, the abstract need to be revised according to the review result attached. We hope to receive the revision before 30 June 2019. Please be informed that the deadline of full paper submission is on 2 August 2019. Thank you for your kind attention.

If you have any requests, please contact an EMBRIO Secretariat +62(81)22848741 or email: embrio.ph@gmail.com, and for more information about EMBRIO, please visit <http://eis-embriopb.org>.

Your sincerely,
 Director of EMBRIO,
 Dr. Mita Yantiwati, S.P., M.Si., NIP. 19930403200312001

Head of Committee,
 Dr. Asadnan Abadih, S.P., M.Si., M.M., NIP. 19830403200302001

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Stock status of snapper (*Lutjanus sp.*) in Banyuwangi Coastal Waters, South Sumatra, Indonesia

Fauziyah¹, A. I. Purvayanto², Agustriani³, W. A. Putri⁴, L. Marnanti⁵, and A. Putra⁶

¹Math Science Study Program, Faculty of Mathematics and Natural Sciences, Sriwijaya University, Indonesia
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Abstract: Snapper (*Lutjanus sp.*) is an economically important fish for local fishermen in Banyuwangi coastal waters of South Sumatra. However, the current and historical stock of this species is still unknown. The aim of this study was to estimate the stock status of *Lutjanus sp.* in the Banyuwangi Coastal Waters. The annual catch and effort data were analyzed from 2008 to 2016 year. The different surplus production models (Schaefer, Gulland, Pella and Trottman, Pella, Hahnle, Mouton, CTR, and von Bertalanffy) were used to obtain the best-fitted model based on sign variability test, model performance test and multiple criteria analysis. The results indicated that the best-fitted model for snapper was von Bertalanffy. The model had the best value for the determination coefficient ($R^2 = 97.2\%$), Nash-Sutcliffe Efficiency (NSE = 0.277), Mean Absolute Deviation (MAD = 39.186), Mean Squared Error (MSE = 1,094.522), Root Mean Square Error (RMSE = 34.345), and RMSE-observation Standard Deviation Ratio (ROR = 1.21), whereas the value of Mean Absolute Percentage Error (MAPE = 4.159) was the second best value. The optimum effort (F_{max} , maximum sustainable catch (C_{max}), and Total Allowable Catch (TAC) over 22,226 Spaw-year, 621 ton and 480 spaw-year, respectively. Based on analyzing the effort and catch data level (44%, 102%) in 2016, the stock status of *Lutjanus sp.* indicated declining stock.

Key words: snapper, stock status, surplus production model

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EMBRIO IPB <embrio.ipb@gmail.com> Kepada: Benaya Simeon, Eny Budi Sri Haryani, Firsta Kusuma, Ida Nurokhmah, Niken Dharmayanti dan 76 lainnya... Jum, 24 Mei 2019 jam 10:48

Dear participants of the 3rd EMBRIO International Workshop 2018,

Thank you for all of your cooperation. We are pleased to say that your proceedings are published and can be found here:

<https://iopscience.iop.org/issue/1755-1315/278/1>

We would also like to announce that EMBRIO will hold another international event: The 4th EMBRIO International Symposium 2019. Kindly find attached the poster about the event.

The 4th EMBRIO International Symposium (EIS) will be held in conjunction with the 7th International Symposium of East Asia Fisheries and Technologist Association (EAFTA) under the theme "Innovative Solution and Technology for Marine Biodiversity and Sustainable Fisheries", in Bogor, Indonesia on 5-6 August 2019.

We invite the submission of abstracts and papers for oral and poster presentation. All submitted papers will be peer-reviewed and selected papers will be published in Reputable International Journals, Accredited National Journals or in the IOP Conference Series: Earth & Environmental Sciences (SCOPUS Indexed).

Please register yourself at bit.ly/4thEIS

For more information, please visit eis-embriopb.org

Best regards,

IOP Conference Series: Earth and Environmental Science

PAPER • OPEN ACCESS

Determining the stock status of snapper (*Lutjanus* sp.) using surplus production model: a case study in Banyuasin coastal waters, South Sumatra, Indonesia

Fauziah¹, A I S Purwiyanto¹, F Agustriani¹, W A E Putri¹, Ermatita² and A Putra²

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