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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
 FPIK International Room 4th Floor
 Faculty of Fisheries and Marine Science IPB
 Jl. Agatis, Kampus IPB Dramaga, Bogor 16680
 Website: <http://embrio.ipb.ac.id/>
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LoA_Fauziyah 1.pdf Halaman 1 dari 1

EMBRIO
 EMBRIO Management Office
 FPIK-IPB
 Attached: [Reviewed abstract, template & example] 19 June 2019
 Subject: Letter of acceptance

Dear Fauziyah,

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

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

Title: Detection of bottom substrate type using single-beam echosounder backscatter: case study in the East Coastal of Banyuwangi-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 inquiries, please contact at EMBRIO Secretariat (+622121318754) or email: embrio@ipbmail.com, and for more information about EMBRIO, please visit <http://eis-embriopb.org>.

Yours sincerely,
 Dr. Mida Nurhidayah, S.P., M.Sc., M.M.
 NIP. 197004020002004 Head of Committee,
 EMBRIO

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IOP paper review 6 Yahoo/Terkirim

EMBRIO IPB <embrio.ipb@gmail.com> Kepada: Fauziyah Arifin Min, 1 Sep 2019 jam 16:24

Dear participant,

Please find attached the review results for your paper. Please revise according to the notes given by the reviewer and get back to us before Tuesday, 4 September 2019. Please revise the paper immediately, otherwise we cannot process your paper any further.

Thank you for your cooperation.
 Best regards

EMBRIO Management Office
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Fauziyah_Review... Halaman 1 dari 10

Detection of bottom substrate type using single-beam echosounder backscatter: case study in the East Coastal of Banyuwangi

Fauziyah, A I S Purvayanti, F Agustina, W A K Putri, M Lyana, M Aryawan, & N Nugraha and 1 other

Marine Science Study Program, Faculty of Mathematics and Natural Sciences, Sepuluh Nopember University, Indonesia
 Marine Science Department, Faculty of Marine Science and Fisheries, Udayana University, Indonesia
 E-mail: el_fauziyah@yahoo.com

Abstract: Information on the bottom substrate type would very useful for various fields such as marine geology, marine ecology, marine biology, offshore construction as well as marine habitat management analysis and monitoring. Currently, hydroacoustic is one of the most non-invasive methods for detecting the bottom substrate types. This research was aimed to identify and classify substrate type in the east part of the Banyuwangi coastal waters using quantitative backscatter data from single-beam echo sounding system. A scientific single beam echo sounder (EM3002 SV) mounted at 200 m depth were used to identify and classify the seabed substrate types. The ground truth data were required for validating the acoustic classification result. Two acoustic methods and Shepard's Neighbour Diagram were used to analyse the ground truth samples. The acoustic data were filtered in order to extract the volume backscattering strength of bottom surface (SV) using Echosounder 4S. The data of bottom surface backscattering strength (ES) and SV were classified by using Hierarchical Cluster Method. Data of substrate type from the ground truth will be used as a guideline to classify the ES data from the substrate type based on the ES characteristic which associated with substrate type of the bottom substrate. The results show that the single beam echosounder system can identify the bottom substrate types easily despite that the ES beam range from 47.50 to 62.25 (ES) and 40.00 to 65.00 (SV) value range from 51.00 to 65.00 (ES), ranged 60.00 to 65.00 (SV) value range from 61.47 to 62.25 (ES), and only stay with the ES value range from 60.00 to 62.25 (ES).

Keywords: bottom surface backscattering, single beam, echo sounder, substrate

1. Introduction
 Information on a seabed composition is very important for various fields of activity such as marine geology, marine biology, offshore construction, marine habitat management.

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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... Jun, 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 Technologists 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

Detection of bottom substrate type using single-beam echo sounder backscatter: a case study in the east coastal of Banyuasin

Fauziyah¹, A I S Purwiyanto¹, F Agustriani¹, W A E Putri¹, M Liyani¹, R Anyawati¹, E N Ningsih¹ and Y Suteja²

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