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ABSTRACT

INTERNATIONAL CONFERENCE ON BIODIVERSITY

SOCIETY FOR INDONESIAN BIODIVERSITY
Bandung, 28 May 2016

Rice field in Panyawuyan, West Java., photo by Dede Ruslan

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ABSTRACT

INTERNATIONAL CONFERENCE ON BIODIVERSITY

SOCIETY FOR INDONESIAN BIODIVERSITY

Bandung, 28 May 2016

THEME:

**Indonesian Biodiversity for Supporting Sustainable
Development Goals**

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TIME SCHEDULE
International Conference on Biodiversity
Society for Indonesian Biodiversity (SIB)
Bandung, Indonesia, 28 May 2016

TIME	ACTIVITIES	PERSON IN CHARGE	SITE
May 28, 2016			
07.00-08.00	Registration	Committee	Lobby
08.00-08.30	Unpad student's performance	Committee	R1
08.30-08.40	Speech of the Committee	Chairman of the committee	R1
08.40-08.50	Opening speech	Rector of Unpad Bandung	R1
08.50-09.00	Photo session and coffee break	Committee	R1, Lobby
09.00-10.30	Panel 1 Prof. Dr. Yayat Dhahiyat Prof. Dr. Ngurah N. Wiadnyana	Moderator	R1
10.30-12.00	Panel 2 Dr. Carsten Thoms Dr. Ingrid born	Moderator	R1
12.00-13.00	Rest, prayer, lunch & Poster session	Committee	Lobby
13.00-14.00	Parallel presentation I Group 1: AO-01 to AO-07 Group 2: AO-08 to AO-14 Group 3: AO-15 to AO-21 Group 4: AO-22 to AO-24 & BO-01 to BO-04 Group 5: BO-05 to BO-11 Group 6: BO-12 to BO-18	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 R5 R6
14.00-15.00	Parallel presentation II Group 7: BO-19 to BO-25 Group 8: BO-26 to BO-32 Group 9: BO-33 to BO-39 Group 10: BO-40 to BO-46 Group 11: BO-47 to BO-53 Group 12: BO-54 to BO-55 & CO-01 to CO-05	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 R5 R6
15.00-15.15	Coffee break, prayer	Moderator	Lobby
15.15-16.15	Parallel presentation III Group 13: CO-06 to CO-12 Group 14: CO-13 to CO-17 & DO-01 to DO-02 Group 15: DO-03 to DO-08 & O-01 Group 16: EO-02 to EO-08 Group 17: EO-09 to EO-16 Group 18: EO-17 to EO-24	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 R5 R6
16.15-16.15	Closing speech and other explanations	Chairman of the committee	R1

Upcoming events:

1. International Conference on Biodiversity, Gorontalo, Indonesia, 20 August 2016
<http://biodiversitas.mipa.uns.ac.id/S/2016/gorontalo/home.html>
2. International Conference on Biodiversity, Pontianak, Indonesia, 8 October 2016
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Note: A. Genetic Diversity, B. Diversity of Species, C. Diversity of Ecosystem, D. Ethnobiology, E. Bioscience (Life Science and Technology); O. Oral, P. Poster

to maintain protected area. Protected areas in oil palm plantation were expected to have higher bird diversity than areas which were only populated by oil palm. The objective of this study to identify bird diversity in oil palm plantation at different distance from protected area in eight oil palm plantation landscapes in Riau Province, Indonesia. The birds were observed on 30 transect lines and divided into two categories: oil palm plantation site near protected area and oil palm plantation site far from protected area. The results showed that bird species diversity was slightly higher (13 species, 10 families, 105 individuals) at sites near the protected area than those sites far from protected area (12 species, 9 families, 143 individuals). These findings supported the theory that more natural habitats, enhanced connectivity among riparian and other natural habitats and the protection of remnant tall trees. Moreover, there are other factors may affect bird diversity on this study; for example stand's age and management system. Overall, results for all habitat types were surprisingly almost similar, and species diversity recorded was unexpectedly lower than secondary forest patched along plantation. Maintaining habitat heterogeneity is highly recommended in oil palm to enhance bird diversity.

Bird diversity, oil palm, protected area, Riau

BO-32

Community structure of herpetofauna at some type of landuse in Cijedil landscape, Cugenang, Cianjur District, West Java

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This research was carried out on the community structure of herpetofauna in Cijedil Landscape, Cugenang sub-district, Cianjur District on May to July 2015. This research aims to study the species composition and distribution of herpetofauna on six types of habitat/land use i.e.: (i) natural forest, (ii) production forest, (iii) talun mixture, (iv) talun bamboo, (v) rice fields, and (vi) the riverbank. In collecting data, the quadrat method is used (Heyer et al. 1994). It uses four quadrat squares measuring 10x10 m on each type of land use. Data collected includes: the number of species, the number of individuals of each species which found in each type of habitat. Community structure were analyzed by calculating the relative dominance and while distribution or occupation were analyzed by calculating the relative frequency. Diversity was compared by using a number of species, Shannon-Wiener index and Pielou index of evenness/ equitability. The similarities of species composition between types of habitat were compared by using Sorensen similarity index. The results of the analysis are presented in tables, charts and/or histogram. Herpetofauna that were collected are 82 individuals

consisting of 55 individual of amphibian and 27 individual of reptilian. 10 species of amphibians belongs to four families, 12 species of reptiles belongs to nine families. The species richness is low and almost evenly (range 0-6 species), as well as Shannon-Wiener Index (range 0-1.59) with high Pielou Index (range 0.891 to 1.0). The similarity of species composition between the types of habitats is generally low except between the watery habitat types and adjacent. No species occupied all of the types of habitat, the species most only occupy three types of habitat.

Amphibian, community structure, diversity, Herpetofauna, reptilia

BO-33

Planula recruitment pattern based on oceanography condition in Biawak Islands, Indramayu, West Java

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This research aimed to know the recruitment pattern of planula in the Biawak Islands waters. The dispersion of planula and corals recruitment is an important factor to determine distribution of the adult corals. The spawning and brooding are the beginning processes of planula dispersion. Dispersion factors are highly influenced by water environment. One of the main factors in planula dispersion is sea currents. The circulation of sea currents on Biawak Island waters is influenced by the tidal movement. The results of research showed that Biawak Islands waters have mixed tide prevailing semidiurnal type of tidal movement. Sea currents of Biawak Islands waters moved from the northern toward the southern with a range of speed between 0.045-0.075 m/s on northeast and south and for west and north range of speed of sea currents are between 0.015-0.195 m/s, the sea currents movement of Biawak Islands waters was dominated by tidal movement. Biawak Islands have various wind speed, the strongest wind moved from northwestern toward southeastern by predominance speed of 4.8-7.2 m/s. The results of research showed that planula on the Biawak Island moved to northern and northeastern at high tide and then moved to southern and southeastern at low ebb with the furthest movement of planula on the Biawak Island was 2.2 Km. The furthest movement of planula on the Gosong Island was 1.66 km and planula dispersed to east and west region of Gosong Island, on the Cendikia Island planula dispersed to northern and eastern with the furthest movement of planula on the Cendikia Island was 0.44 Km. Based on the movement of planula, it can be concluded that source of coral reefs on the Gosong Island derived from the coral reefs on the Biawak Island.