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## Preface

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## PREFACE

### **The International Conference on Sustainable Utilization of Natural Resources (ICSUNR) 2020**

Indonesia has a very abundance of land and marine natural resources, and it is a vital object in increasing the nation's economic sector. The utilization of natural resources wisely and sustainably can provide opportunities in the future, especially in economic resilience. Referring to the main priority of economic development, it can be illustrated that the utilization of natural resources from each sector can become the foundation for the economic development of the nation. Especially at this time, when the entire world is facing the Covid-19 pandemic that has nearly paralyzed the economy, the utilization of natural resources has to be done effectively. For this reason, strategic policies are needed to support the right pattern and purpose of proper utilization.

However, the utilization of natural resources is sometimes deemed ineffective in contributing to the welfare of people. On one hand, the utilization of natural resources is considered to have been underutilized, while on the other hand, it is considered to have been over-utilized, and if the sustainability aspect is not taken into account, it could become a major problem in the future.

So as part of the academic world of a large nation, Pattimura University recognizes the importance of providing a forum for academics, government institutions, and NGOs to express their various thoughts and findings related to this matter, as well as a platform for all stakeholders to exchange knowledge and technology for the sustainable utilization of natural resources. Therefore, the International Conference on Sustainable Utilization of Natural Resources (ICSUNR) was organized and held for the first time by Pattimura University, Ambon, Indonesia under the theme "Sustainable Utilization of Natural Resources to Increase Economic Resilience". This topic is quite urgent because it is in line with global policies regarding Sustainable Development Goals (SDG) and Indonesia's policies in maintaining economic stability. The conference featured a keynote speaker, Deputy Minister for Maritime and Natural Resource Affairs at Ministry of National Development Planning/ National Development Planning Agency Republic of Indonesia who presented a 30- minute talk followed by 15-minute discussion period. There were six invaluable invited speakers from the following institutions: The University of British Columbia Canada, Kagoshima University Japan, Nickum Consultant, Hawaii, USA, CIDAD-CIFOR France, Southern Cross University Australia, and IPB University Indonesia that gave the presentations in two plenary sessions. In each session, three invited speakers presented a 20- minute talk followed by 30- minute question-and-answer sessions for three speakers.

ICSUNR was held on November 28th, 2020 virtually due to pandemic Covid-19 where Indonesia has a national policy of large-scale social restriction that began since March 2020. During this restriction, traveling and gathering are prohibited. By conducting this conference online people from different places in Indonesia and abroad can participate well. The conference was conducted using zoom conference by online broadcasting studio and YouTube Live platform.

Six parallel sessions were held in simultaneously, each covering the following topics :  
The 1<sup>st</sup> Panel : Fisheries and Marine Science (Room 1)



The 2<sup>nd</sup> Panel: Fisheries and Marine Science (Room 2)

The 3<sup>rd</sup> Panel: Agriculture (Room 3)

The 4<sup>th</sup> Panel: Agriculture (Room 4)

The 5<sup>th</sup> Panel: Forestry (Room 5)

The 6<sup>th</sup> Panel: Eco-Tourism

For four speakers, each presenter was allocated 10 minutes for their presentation and 20 minutes for question-and-answer sessions. The question-and-answer session was conducted with participants sending their questions to the chat room, which were then presented to each speaker by the moderator. A total of 66 papers were received from universities, research institutions, and NGOs in Indonesia and overseas. There were 295 participants including academics, government institutions, and NGOs. The majority of the participants were from Indonesia, but there were also participants from Canada, Australia, Japan, The USA, and France.

Technically, the virtual implementation of the ICSUNR supported by Pattimura University went very smoothly. The participants were very engaged throughout all the sessions which was apparent from many questions raised during question-and answer sessions. Occasionally during the conference network problem occurred which caused quality drop of audio and video but it was not a major issue. In general, ISCUNR 2020 was held successfully, the plenary and panel sessions resulted in a fruitful discussion.

### CONFERENCE PHOTOGRAPHS



Master of Ceremony of ICSUNR



Conference Report by Chairperson of the ICSUNR Committee



**Opening Speech by Vice Rector of Academic Affairs Pattimura University**

**Keynote Speaker Session**



**Moderator of Keynote Speaker Presentation**



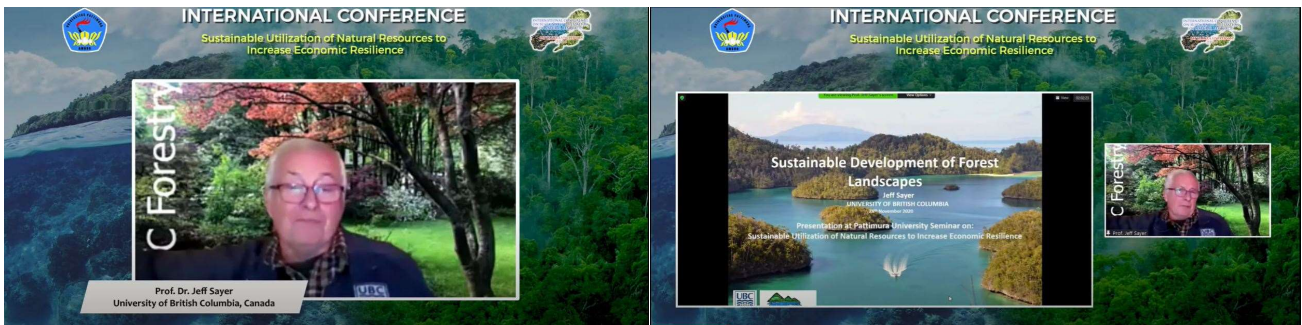
**Keynote Speaker**

**Deputy Minister for Maritime and Natural Resource Affairs at The Ministry of National Development Planning/ National Development Planning Agency Republic of Indonesia**

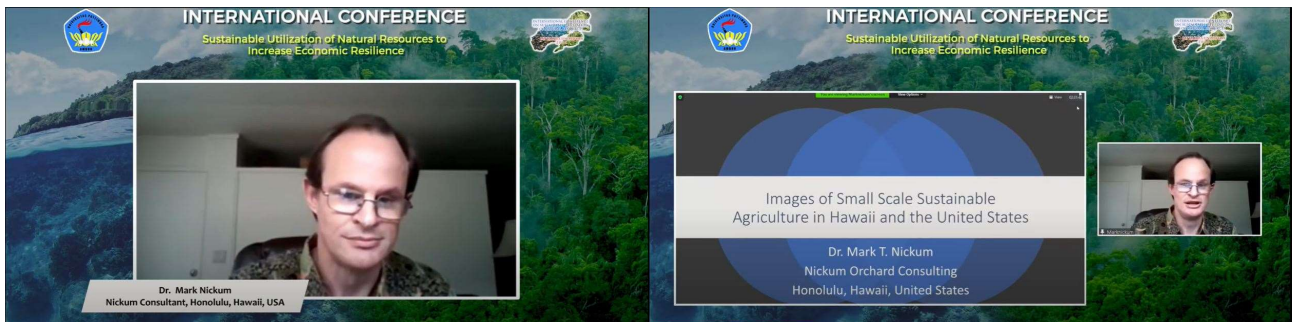


**Keynote Speaker Presentation**

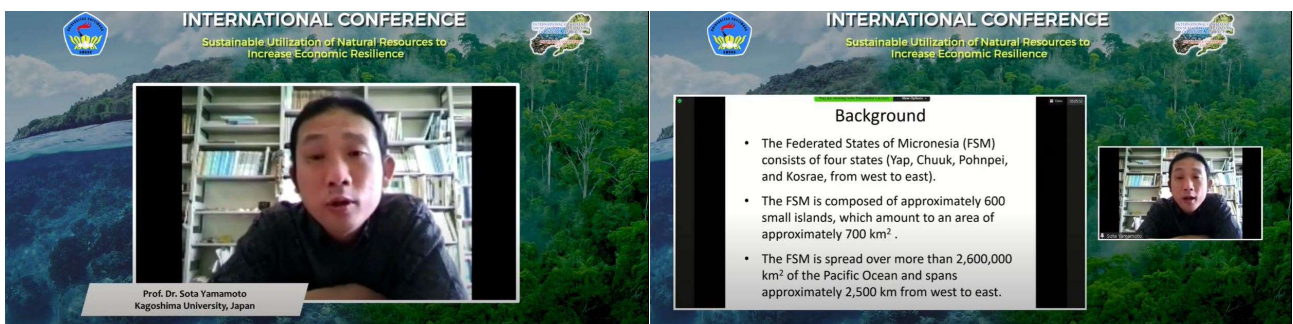
**1<sup>st</sup> Plenary Session**



**1<sup>st</sup> Speaker: Prof. Dr. Jeff Sayer**



**2<sup>nd</sup> Speaker: Dr. Mark Nickum**

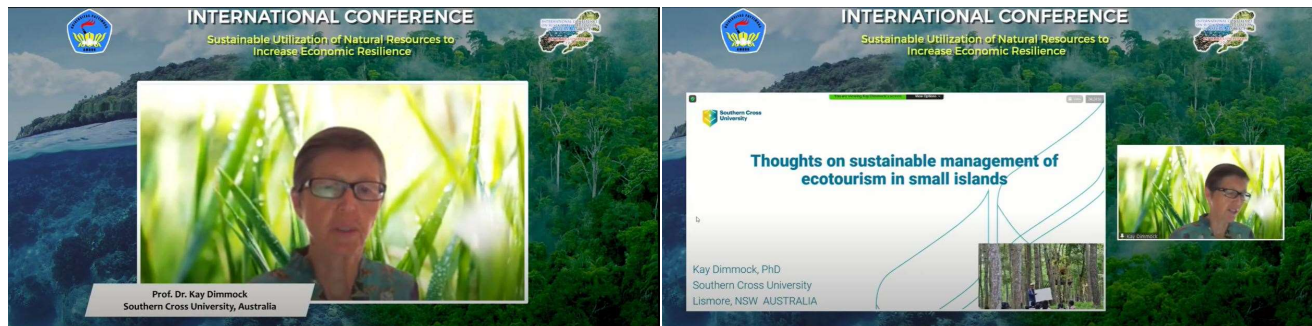


**3<sup>rd</sup> Speaker: Ass. Prof. Dr. Sota Yamamoto**

**2<sup>nd</sup> Plenary Session**



**1<sup>st</sup> Speaker: Dr. Ir. Neviaty P. Zamani, M.Sc**



**2<sup>nd</sup> Speaker: Prof. Dr. Kay Dimmock**



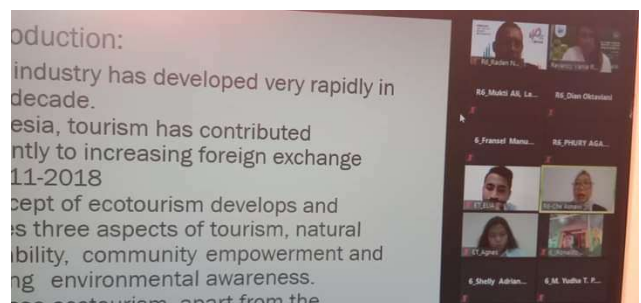
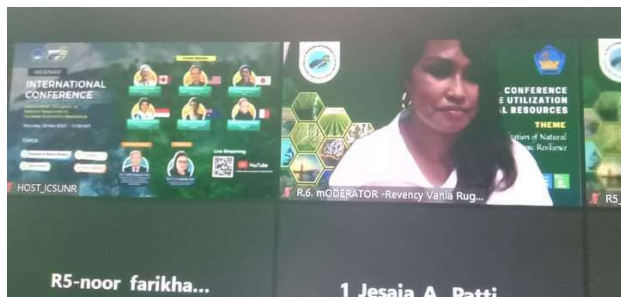
**3<sup>rd</sup> Speaker: Ass. Prof. Dr. Yves Laumonier**



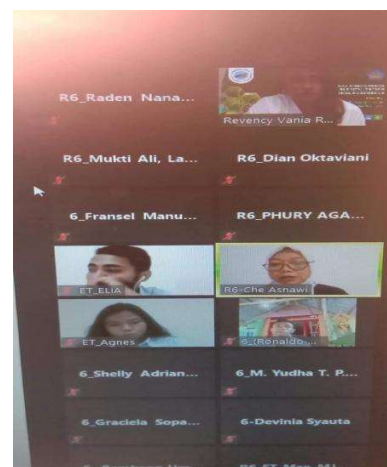
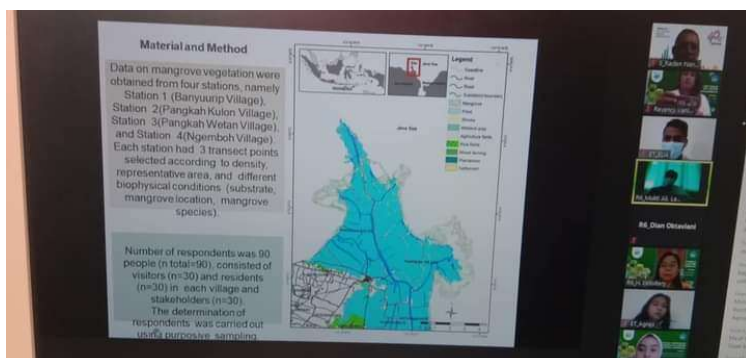
**Parallel Session**



**Guide to Breakout Room for 6 Parallel Sessions**



**The 6<sup>th</sup> Panel: Eco- Tourism (Room 6)**



### ACKNOWLEDGEMENTS

We would like to express our gratitude to The Pattimura University for providing the funding for this conference. Prof. Dr. F. Leiwakabessy as Vice Rector of Academic Affairs Pattimura University is hereby acknowledged for giving the remarkable opening speech. We thank our distinguished keynote speakers Dr. Ir. Arifin Rudiyanto, M.Sc. (Deputy Minister for Maritime and Natural Resources Affairs at The Ministry of National Development Planning/ National Development Planning Agency Republic of Indonesia). We thank our extraordinary, invited speakers Prof. Dr. Jeff Sayer, Dr. Mark Nickum, Prof. Dr. Sota Yamamoto, Dr. Ir. Neviaty P. Zamani, M.Sc , Prof. Dr. Kay Dimmock , and Ass. Prof. Dr. Yves Laumonier. We would like to thank members of reviewers, the editorial boards for their hard work. We really appreciated Magox Studio, all the steering and organizing committees, lecturers, staff and students from several Faculties of Pattimura University for their help and hard work to make this virtual ICSUNR a successful one. We thank all the participants for their participation and support in making this conference a lively and successful event to share best practices, lesson learned, new insight and policy towards sustainable utilization of natural resources not only in Indonesia but also globally.

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## Papers

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### Status of yellowfin tuna (*Thunnus albacares*) handlines fisheries based on length of maturity

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012002

**Utilization and optimization of the sustainability of yellowfin tuna (*Thunnus albacares*) in Simeulue waters, Aceh Indonesia**

Burhanis, Alaudin, Edwarsyah, Jaliadi, A Rozi, Zulfadhli, R Fadhillah and Zulradmi

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012003

**Impact of climate variability on skipjack tuna (*Katsuwonus pelamis*) catches in the Indonesian Fisheries Management Area (FMA) 715**

Sepri, A Hartoko, WS Suradi and A Ghofar

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012004

**Carbon footprint of tuna and tuna like production landed based at Bitung fish port**

P Rahmadi, A A Widodo and R Marzuki

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012005

**Palm fiber as potential material for FADs: durability enhancement and increasing fish catching for small scale fisheries**

H Hasaruddin, M A Thahir, R Yusfiandayani, M S Baskoro and I Jaya

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012006

**Vulnerability analysis for demersal fisheries in the Banten Region (A case study of Karangantu Port)**

S Saptanto, M Boer, Sulistiono and Taryono

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012007

### Fleet diversity of squid fisheries in Indonesia Fisheries Management Area – 711

Suryanto, D Oktaviani, D Nugroho and R F Anggawangsa

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012008

### The potential study of marine aquaculture location in Eastern Bintan Island

R Pramana, R D Putra, B Y Suprpto and Z Nawawi

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012009

### Abundance of filamentous algae on *Kappahycus alvarezii* and *Euचेuma denticulatum* cultivated by vertical net

Devi, M Kasim, N Irawati, A M Balubi and W Jalil

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012010

### Water physical factor analysis using aqua-modis image data to determine the tour ship route in Karimunjawa

B E Wibawa, A N Bambang, F Purwanti and D Suprpto

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012011

### A Study on the distribution of water quality in Labuang Sasi waters, Nolloth Village, Central Maluku

S Hatulesila, A Bambang and B Sulardiono

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012012

### Study on phytoplankton diversity of Batang Toru River and its surrounding, North Sumatra, Indonesia

A Asriansyah, D M Wilden, N T M Pratiwi, C P H Simaniuntak, Sulistiono, T Hestirianto, D Shafrudin and T Nugroho

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012013

**Ecological status based on the diversity of macrozoobenthic in Cengkok coastal waters, Banten Bay, Indonesia**

E S Srimariana, C Hilmira and Sulistono

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012014

**Reproductive aspects of greenback mullet *Planiliza subviridis* (Valenciennes, 1836) in Cengkok coastal waters, Banten Bay Indonesia**

N Fitriah, M F Rahardjo, R Affandi, Sulistiono, D M Wildan and C P H Simanjuntak

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012015

**Bioaccumulation of lead (Pb) and mercury (Hg) in green mussel *Perna viridis* (Linnaeus, 1758) in Cengkok Coastal Waters, Banten Bay, Indonesia**

T Melinda, A M Samosir, Sulistiono and C P H Simanjuntak

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012016

**Mangrove ecosystem related to fisheries productivity in the coastal area of Karawang Regency, West Java, Indonesia**

Y A Nugraha, Sulistiono, H A Susanto, C PH Simanjuntak and D M Wildan

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012017

**The effectiveness of the electricity and LPG for the sustainability of Sandfishes *Holothuria scabra* drying process on small islands**

B Pramana, Akhirman and H Irawan

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012018

**Evaluation of crude ethanolic extract of aquatic plants as inhibition zone against *Flavobacterium columnare***

H Novita, M F I Nugraha, R Firmania kn, M. Fadjar and M A L Radjamuddin

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012019

**Antioxidant of n-hexane, ethyl acetate and methanol extracts of *Padina* sp with DPPH method**

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012020

**Potential of antibacterial compound from extract of the green algae *Bornetella* sp**

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012021

**Sasi laut as a non penal effort treatment of illegal fishing for sustainable utilization of fishery resources**

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012022

**The analysis of the influence of running cost, shore cost and labor cost, towards profitability at the purse seine capture fisheries business units in the District of Seram Bagian Barat**

E Turukay, M J F Esomar and L Loppies

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012023

**Sustainability status and index of Acen palm oil in central production of West Region Nagan Raya District**  
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### Coconut sugar production of Dwarf coconut varieties

H Novarianto, M A Tulalo and S Mawardi

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012025

### The effect of bulbs size and induction techniques of tuberose (*Polianthes tuberosa* L.) on its sprouting rate, simultaneity, and bulbs number

E Sugiartini, E R Palupi and E Widajati

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012026

### Control of bacterial leaf blight disease in several varieties of rice plants (*Oryza sativa* L.) by using bacteria of *Paenibacillus polymyxa* Mace

Sopialena, Suyadi, R Jannah and D Tantiani

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012027

### Potential of *Paenibacillus polymyxa* bacteria and *Trichoderma* sp. as biological pesticides to control maize leaf blight (*Zea mays* L)

Sopialena, Sofian, A Wiranata and D Tantiani

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012028

### Utilization of sago grub (*Rhynchophorus ferrugineus* Olivier) (Coleoptera: Curculionidae) as an alternative

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J A Leatemia, J A Patty, E D Masauna, S H Noya and J V Hasinu

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012029

**Optimization the ratio of concentrations of liquid organic and inorganic fertilizers to increase soybean production**

J Herawati, Indarwati, P D Karyati, Ernawati and R W Inti

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012030

**Water-system changes in swampy rice agro-ecosystems area and their economic impacts on farmers in South Sumatra, Indonesia**

E Purbiyanti, F Sjarkowi, D Adriani, M Antoni, I Alamsyah, Yulius, N Yudhistira and G Utami

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**Characteristics of frozen yogurt made with a variety of local bananas/plaintains**

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**Formulation and physical stability test of hand sanitizer based on nutmeg oil (*Myristica fragrans* Houtt)**

R D Agustin and Y M J Taihuttu

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012033

**The effectiveness of herbal fermentation into drinking water on the performance of kampung chickens**

F N L Lubis, R Palupi, L Solihin and M W Syafigurrahman

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## Agro-ecological system and its significance to social security in small-island communities of the Central Maluku, Eastern Indonesia

H L Soselisa

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## Innovation study of the leading commodity agroecological zone in the Central Aceh Region

A Nasution and E Alemina

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012036

## Local wisdom and archipelago agriculture: Poverty in Maluku

M J Pattinama and M G Nanere

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## Corporate social responsibility reporting of agriculture companies: evidence from Indonesia

S R Ika, FA Akbar, D Puspitasari, B T Sumbodo and A K Widagdo

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## A new C & I for sustainable forest management

Supratman, S Alam, M A K Sahide, A Sabar, Makkarennu and D A L Hasannudin

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012039

## The conservation of endemic and endangered tree species *Kalapia celebica* Kosterm with Mycorrhizal bio-fertilizer technology in post-gold mining areas

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012040

**Conservation and utilization of *Melaleuca cajuputi* sub sp *cajuputi*, an indigenous species in Moluccas Island, Indonesia**

A Rimbawanto, N K Kartikawati and F Latumahina

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**Flowering pattern and effective population size in cajuput clonal seed orchard in Yogyakarta, Indonesia**

N K Kartikawati, A Rimbawanto and A I Putri

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012042

**Species diversity and estimation of carbon stock in abandoned shrimp pond of mangrove ecosystem in East Kalimantan**

R Diana, P Matius, Syahrudin, Karyati, M Hendra and R Melsitiara

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012043

**Estimation of heritability in three months old sengon (*Falcataria moluccana*) seedlings at a progeny testing in Kediri, East Jawa, Indonesia**

UJ Siregar, A Nugroho, H Shabrina, Y Istikorini, R Rahmawati, Y Amin and NF Haneda

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012044

**Genetic variation of seven years old *Araucaria cunninghamii* progeny test in Bondowoso East Java**

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## The study of forest land use on land characteristics and soil hydrological characteristics in the Wanggu Watershed, Southeast Sulawesi

L O Alwi, S Marwah and Astriwana

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012046

## Vegetation composition in the community gold post-mining land and PT Panca Logam Nusantara in Bombana Regency, Southeast Sulawesi Province

Albasri, F D Tuheteru, Husna, A Arif, Basrudin, Azimudin, Berlian and L M Erif

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012047

## Small island watershed morphometric and hydrological characteristics in Ambon Region, Maluku Province

B Latuamury, H Marasabessy, M Talaohu and W Imlabla

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## Is it possible that logged-over areas can recover naturally: the case of logged-over areas in South Kalimantan

M A Qirom, S Andriani, W Halwany and F Lestari

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012049

## Economic and ecological adaptation to changes in agricultural land use to increase sustainable economic resilience

S Jumiyati, R Nurdin, I Rahman, A S Alam and N Akkas

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**The role of urban household wood product consumption on forest management and its impact: a system modelling simulation approach in Bogor City**

L Abdulah, E Suhendang, H Purnomo and J R Matangaran

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012051

**Resilience of forest village communities in the implementation of the community forest policy**

M Tjoa, Iskar and S H Latukau

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**Identification and assessment of invasive plant species at Bogor Botanic Gardens, Indonesia**

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**Initiating Napoleon wrasse (*Cheilinus undulatus* Ruppell, 1835) as watching species object in Banda Islands marine ecotourism**

D Oktaviani, S R Suharti, I N Edrus, I S Hermana, J M S Pelupessy and D Nugroho

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