



ICASMI

International Conference on
Applied Science Mathematics and Informatics

July 14, 2017 | Bandar Lampung, Indonesia

**LEMBAR HASIL PENILAIAN
SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING DAN MAKALAH YANG DIPRESENTASIKAN**

Judul Makalah (Paper) : Conservation Effort of *Acanthus ilicifolius* in Lampung Mangrove Center
 Jumlah Penulis : 3 Orang
 Nama-nama Penulis : Andari Mahardika Putri, Bainah Sari Dewi, Rudi Hilmananto
 Status Penulis : Penulis Pertama/ Penulis ke Dua/ Penulis Korespondensi (**)

Identitas Prosiding : a. Judul Prosiding : International Conference on Applied Sciences Mathematics and Informatics, Universitas Lampung
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Total (100%)		15	10	10	5	5	3	13,5
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Total (100%)		15	10	10	5	5	3	14,5

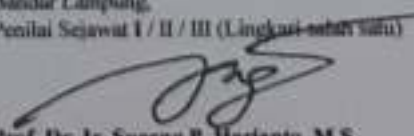
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Nilai Pengusul = BP x NP = $\frac{0,4}{3} \times 14,5 = 2,9$

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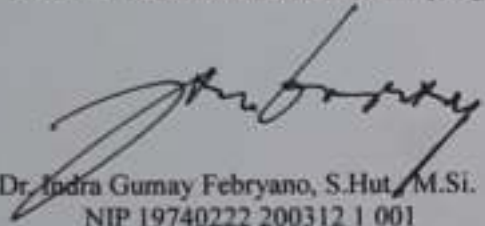
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Bandar Lampung, 06 Juli 2020

Mengetahui,
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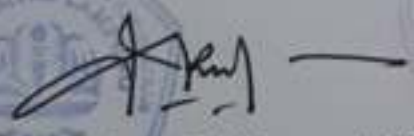

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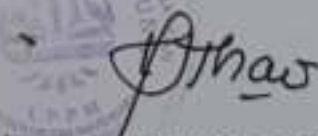

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June, 18, 2017

Subject: Notification of Acceptance

Dear Madame/Sir,
Andari Mahardika Putri *et al.*

We are happy to inform you that your paper entitled "**Conservation Effort of *Acanthus ilicifolius* in Lampung Mangrove Centre**" is accepted to be presented in the **1st International Conference on Applied Sciences Mathematics and Informatics** "*The Role and Innovation of Sciences in the Strengthening of Natural Resources*", that will be held in Lampung, July, 13-15, 2017.

We are looking forward to seeing you soon. If there is any question, please feel free to contact us.

Your sincerely,
Chairman,



Dr. Mustofa Usman, M.A.



ICASMI

**International Conference on
Applied Science Mathematics and Informatics**

July 14, 2017 | Bandar Lampung, Indonesia

CONSERVATION EFFORT of *Acanthus ilicifolius* IN LAMPUNG MANGROVE CENTER

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ABSTRACT

Jeruju (*Acanthus ilicifolius*) is naturally herbs that found in area of mangrove forest. Jeruju is also used as an environmental indicator for good maintainance of mangrove forest. This study aims to identify the conservation efforts of Margasari villagers related to the utilization of Jeruju (*Acanthus ilicifolius*). This research was conducted in March 2017 in Lampung Mangrove Center, Lampung Timur District, Lampung Province, Indonesia. The research methods is questionnaire with 97 female respondents. The result were described that the aspect of Protection, with one activity to protect of leaves *Acanthus* 47%. Utilization aspects, with five activities : (1) non-timber forest products 100%; (2) utilizing environmental services 85.6%; (3) utilizing plants for food preparations 38.1%; (4) utilizing plants to increase the economy of communities 43.3%; (5) future utilization plant for the next generations 50.5%. The aspect of Preservation, with two activities: (1) Preservation of *Acanthus* leaves 43.3%; (2) preservation of environmental ecosystem of mangrove forest 74,2%.

Keywords: Conservation, *Acanthus ilicifolius*, Society, Lampung Mangrove Center.

I. INTRODUCTION

Mangrove forests are biodiversity renewable resources with forest constituents comprising trees, shrubs and aquatic biota (Kustanti, 2011). Fisiography Indonesia coastal conditions are very diverse one place to another. Mangroves grow on a flat beach and parallel to the

direction of the wind (Samsumarlin *et. al*, 2015). According to Suhardjono (2012) mangrove as reducer wave energy, including tsunami waves. Mangrove should be existence to preserved as a protected beach area. Destruction of mangrove forest ecosystems was provided a negative impact on the availability of fish resources (Zamdial, 2016). One of the ecological functions of mangrove forests was a habitat variety of mosquitoes including mosquitoes cause malaria (*Anopheles sp.*). Outbreak of malaria could be increase due to the degradation mangrove forest (Putra *et. al*, 2015).

The length of coast line reached over 110 km in Lampung Timur District, approx. 70 km is in the Way Kambas National Park, 40 km are in two subdistricts i.e. Labuhan Maringgai and Pasir Sakti (Harianto *et. al*, 2015).

Margasari village is a coastal village in the Sub-District of Labuhan Maringgai, Lampung Timur District has 100 ha area of mangrove forests in 1995-1996 and in 2012 the increased to 700 ha or grow 85% for 17 years. The increase of mangrove area were occurred due to ground arise and cause of planting done by the surrounding communities of LMC (Lampung Mangrove Center) (Monografi Desa Margasari, 2012), but according to Cesario *et. al*, (2015) had increased the spacious 117.59 ha since 2010 until 2013, therefore the total area 817.59 ha. One of the shrub of the Mangrove Forests is jeruju (*Acanthus ilicifolius*). Jeruju is a shrub in coastal areas, river banks, as well as other places of muddy land and brackish watery. The stem is cylindrical, spherical surface slick, lightly browned, long spiked and pointy. A single leaf and short-stemmed. *Acanthus ilicifolius* is grow in groups and commonly found along the banks of the estuary and lagoon, in the land of marshy and mangrove forests (Valkenberg dan Bunyaphatsara, 2002).

Women in the village of Margasari were the people who processed foods made from Jeruju (*Acanthus ilicifolius*). Jeruju also be used as a remedy for ulcers, cancer, arthritis, libido

stimulant, asthma, blood cleanser, skin burning, snake bites and intestinal worms (Supriyanto *et. al*, 2014).

The researcher and students had been researching since 2004 until 2017 (Dewi *et. al*, 2016)

but not available research about the conservation efforts of Jeruju (*Acanthus ilicifolius*).

Therefore it is important to know the efforts of conservation Jeruju (*Acanthus ilicifolius*) that it was processed as raw material in different types of food produced by the community in the village of Margasari. During this time the ingredients have been processed into food but it is not yet known about conservation efforts Jeruju (*Acanthus ilicifolius*). Therefore this research need to be done. the purpose of the research is to identify the conservation efforts undertaken Margasari village community associated with the utilization of Jeruju (*Acanthus ilicifolius*).

II. METHOD

Time and Research Site

This research was carried out in March 2017. Location of research was in Lampung Mangrove Centre in Margasari Village, Labuhan Maringgai Subdistrict, Lampung Timur District, Lampung Province, Indonesia as in the description of Figure 1.



Figure 1. Map of research location in Margasari Village, Labuhan Maringgai Subdistrict, Lampung Timur District Lampung Province, Indonesia with a scale of 1:30,000 on the Research Efforts of conservation Jeruju (*Acanthus ilicifolius*) March 2017 (Kusuma, 2017).

Objects of Research

Instrument used in this study was a questionnaire, camera, stationery, laptops and GPS (*Global Positioning System*). The object of this research is the women in four hamlets namely hamlet 1, hamlet 4, hamlet 11 and hamlet 12 of the village of Margasari, Lampung Mangrove Centre, Labuhan Maringgai Subdistrict, Lampung Timur District, Lampung Province, Indonesia.

Methods

The data collected were the primary data and secondary data. Primary data were include data for the women respondent consist of aspects of conservation efforts, the aspects of preservation and the aspects of utilization. Data of distribution of Jeruju (*Acanthus ilicifolius*) was collected with System Information Geography. Secondary data collected, i.e. books, journals, other literature, geographical location, the physical state of the environment and infrastructure.

Determination of total sample

Samples were taken directly from the village of Margasari i.e. community involved in leaves of jeruju to use the processed into food. The data had been taken objective data (in accordance with the actual reality), representative (representing the actual state), small variansnya, timely and relevant. The sample is a portion of the members of a population selected therefore it is expected to represent the population (Nurhayati, 2008). The number of Women in the villages of Margasari Society as 3,713 inhabitants (Monografi Desa Margasari, 2012) therefore the number of respondents is determined using the formula Slovin (Firdaus, 2012):

$n =$

Description:

n = number of samples

N = the number of village women society Margasari is 3.713

e = 10% error Limit

l = Integer constant

3713 = number of women at Community data village (Monografi Desa Margasari, 2012).
then,

$$n = \frac{3713}{3713 (0.1)^2 + 1}$$

$$n = 97,37 = 97 \text{ respondents}$$

Analyses Data

Data analysis in this research was using qualitative descriptive. Qualitative research is one method to get the truth and belong to scientific research. Qualitative research interprets the correlation of existing factors including the point of view or the ongoing process.

The qualitative research methods were based on the framework of research, a research paradigm, formulation of the problem, the stages of research, research techniques, criteria and engineering inspection data, analysis and interpretation of data (Sudarto, 1995).

The respondent assignment was done by taking a person who has been elected by the researchers. The method was called a purposive sampling technique that mean carefully chosen samples to relevant to the design of the study. Researchers trying to let in the sample there are representatives of all layers of social the population so that it can be considered fairly representative (Nasution, 1996).

RESULT AND DISCUSSION

According to Departemen Kehutanan (1990), natural resource conservation biodiversity is resource management and utilization of natural resources biodiversity which follow up wisely to ensure resources with still maintain and enhance the quality and diversity of its value.

Conservation of biodiversity and natural resources, the ecosystem were done through aspects:

(a) a buffer zone system of protection; (b) Preservation of the diversity of animal and plant

species and their ecosystem (c) the Sustainable Utilization of natural resources, the ecosystem and biodiversity.

Margasari Village communities largely have a job as a fisherman. Women in the village of Margasari have a job as housewives, selling fish and make fish salted. Sales results that can increase the economy of the community. Food made from the leaves of jeruju (*Acanthus ilicifolius*) were processed by women who participate in Kelompok Wanita Cinta Bahari Lampung Timur District i.e. crackers, rempeyek and stick of jeruju. According to Arifia *et. al.* (2014) the mangrove forests are exploited directly by the society is jeruju leaf (*Acanthus ilicifolius*) as the basic ingredients to make a number of crackers. Crackers in each month was produced 2,280 kg.

The products of produced using raw materials of the leaf jeruju: cracker, rempeyek, dumplings, pempek and tea (Wahyukinasih *et. al.*, 2014). Irwanto *et. al.* (2015) said that jeruju plant is a plant that contains bioaktif which is able reduce the disease. Antibacterial on jeruju can be classified bacteriostatic and bakteriosidal (Ardiantami *et. al.*, 2015).

Aspect of protection, with one activity that is keeping the leaves jeruju 47%. Aspects of utilization, with five activities, are consist namely (1) non timber forest products 100%; (2) utilize environmental services 85.6%; (3) utilizing plants for processed foods 38.1%; (4) make use of plants to improve the economics of 43.3%; (5) utilization in future 50.5%.

Aspects of Preservation, with the two activities, are such as (1) preservation of leaves jeruju 43.3%; (2) preservation of the ecosystem of mangrove forest environment 74.2%. According of Febryano *et. al.*, (2015) that local institutional has an important role in rural development because it can mobilize the society to undertake collective action mangrove management sustainably therefore instituted practices that are environmentally friendly. Based on analysis of data conservation efforts can be seen in Table 1.

Table 1. The results of the questionnaire research on the Aspect of utilization of conservation efforts conservation efforts Jeruju (*Acanthus ilicifolius*) in Lampung Mangrove Centre Margasari Village Labuhan Maringgai Subdistrict Lampung Timur District Lampung Province Indonesia March 2017.

Question Number	2	4	5	6	8
Yes	97	83	37	42	45
No	0	14	60	55	52
% Yes	100	85,6	38,1	43,3	46,4
% No	0,0	14,4	61,9	56,7	53,6
%	100	100	100	100	100

According Zulkarnain *et al.* (2008) utilization of coastal resources is often done without looking at the balance, preservation, exploited and personal gain, these are causing coastal resources in an endangered and allows a wide range of potential will be degraded and all forms of wealth destroyed therein. Mangrove forest area in the village of Tawiri Maluku Province, seen that the surrounding communities utilize the area with various forms of utilization, good utilization impacting negatively or positively impact (Hiarley, 2009). While in the village of Margasari majority communities do it especially in karenakan Margasari Village communities know how to utilize the results of wood and non wood forest sustainably in addition pemafaatan from forest products, villagers Margasari mangrove seedling planting was also doing that in an effort to pay attention the potential diversity of plant species, particularly women Margasari Village communities did attempt the utilization of Jeruju Leaf (*Acanthus ilicifolius*) processed into chips , kemplang and rempeyek. Pemafaatan mangrove forest resources in Margasari Village is like the utilization of wood and non-wood, wood is a type of utilization such as fallen twigs and dead for use as fuel. Retrieval of firewood is performed by the community is dried wood found in the mangrove

forests and sold at a price of Rp 1,250/belt. Within a year the firewood produced mangrove can reach 180 bunch. The value of the benefits of firewood got by way of multiplying the price/ikat wood with many wood is produced, so that the obtained value of Rp 225,000 per annum (Suzana *et. al*, 2011). Utilization in the form of non wood such as air, water, fish, crabs and many ecotourism in Margasari Village Community take advantage of, crabs and fish a lot in order to make the sale and for its own consumption, in addition there is also a society which utilizes mangrove forests as places of ecotourism such as fringing mangroves, birdwaching, and read. Mangrove ecosystems in the Coastal sub-district of Labakkang, Mandalle and Segeri also had fisheries resources has been widely exploited by the surrounding community. The utilization of the results of the fisheries in this area are generally still use the traditional technology. The fishermen mostly use the rowboat with the tool in the form of fishing rods, nets, bubu and serok (Mayudin, 2012).

Preservation of plants is done by people in the village of Margasari is the planting of mangrove tree seedlings, but the community in Margasari Village just did not do the seeding and planting nursery, so that if the community wants to do planting then the seeds came from other areas or purchase. Preservation of plants outside the asylum area natural do with keep and breed plants to avoid the danger of extinction (Departemen Kehutanan, 1990).



Figure 2. Map of the spread of the tree Jeruju (*Acanthus ilicifolius*) on the research efforts of Conservation Jeruju (*Acanthus ilicifolius*) in Lampung Mangrove Centre Margasari Village Labuhan Maringgai Subdistrict Lampung Timur District Lampung Province Indonesia March 2017 (Putri and Putri, 2017).

III. CONCLUSION

Conservation efforts in Margasari Village, Labuhan Maringgai Subdistrict, Lampung Timur District, Lampung Province, Indonesia on March were described that the aspect of Protection, with one activity to protect of leaves *Acanthus* 47%. Utilization aspects, with five activities : (1) non-timber forest products 100%; (2) utilizing environmental services 85.6%; (3) utilizing plants for food preparations 38.1%; (4) utilizing plants to increase the economy of communities 43.3%; (5) future utilization plant for the next generations 50.5%. The aspect of Preservation, with two activities: (1) Preservation of *Acanthus* leaves 43.3%; (2) preservation of environmental ecosystem of mangrove forest 74,2%.

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APPENDIX



Image Of Research Conservation Effort Of *Acanthus Ilicifolius* In Lampung Mangrove Center.