

Book of Abstracts

THE 3rd INTERNATIONAL SYMPOSIUM OF MARINE AND FISHERIES

"Strengthening Innovation for Aquatic Resource Management"

Makassar, 6th June 2020

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SCOPUS - INDEXED PROCEEDINGS

Group 2: (B) Aquatic Ecology dan Conservation

Time	Code	Speaker	Title
		Parallel S	Session 1
13:00-14:00	B1	Irman Rumengan	The Potential For Recovery of Coral Habitat
			In Marine Protected Area Kofiau - Boo
			Islands, Birds Head Seascape
	B2	Annita Sari	Water Quality Study and Pollution index
			based on Physics-Chemical Parameters In th
			Youtefa Bay Tourism Area, Jayapura
	B3	Agus Indarjo	The Growth Model Composition of Giant
			Prawns (Macrobranchium rosenbergii) in
			Muara Tepian Sembakung, Nunukan
	B4	Gazali Salim	Allometric Growth and Condition Index
			Comparison of White Shrimp (Litopenaeus
			vannamei) from Fishpond and Juata Laut
			Waters, Tarakan (Indonesia)
Time	Code	Speaker	Title
		Parallel S	Session 2
14:00-15:00	В5	Annita Sari	Identification And Composition of Fish
			Types in The Youtefa Bay Tourism Area
	B6	Mohammad Syakir	Effectiveness Study of Scrap Material Used
			for Nursery Racks at Coral Transplantation
			Program in Makakata Beach - South Batui,
			Banggai Regency - Central Sulawesi
	B7	Andi Niartiningsih	Improving the quality of tridacnid clam
			juveniles through crossbreeding broodstock
			from different zones across the Spermonde
			Archipelago
	B8	Aidah A. A. Husain	Do herbivore reef fishes have their own
			different regimes
Time	Code	Speaker	Title
		Parallel S	
15:30-16:30	B9	Natsir Nessa	The Role of Women in the Utilization of
			Enhalus acoroides: Livelihoods, Food
			Security, Impacts and Implications for
			Coastal Area Management
	B10	Syafyudin Yusuf	Coral Reef Biodiveristy and Habitat
			Coverage Dynamic in Turbid Water Nothern
			Bone Bay, Coral Triangle Indonesia
	B11	Abigail Mary Moore	Microhabitat preference of the Banggai
			cardinalfish (<i>Pterapogon kauderni</i>): a
			behavioural experimental approach
16:30 - 17:00	Closir	ng ceremony for interna	tional symposium

[**B6**]

EFFECTIVENESS STUDY OF SCRAP MATERIAL USED FOR NURSERY RACKS AT CORAL TRANSPLANTATION PROGRAM IN MAKAKATA BEACH - SOUTH BATUI, BANGGAI REGENCY - CENTRAL SULAWESI

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ABSTRACT

Coral transplantation program is a biodiversity-environmental programs of JOB Tomori that had started since 2010. A total of 9600 coral seedlings were successfully planted and bred to improve the coral reefs condition around JOB-Tomoris field of operations and succeeded in increasing about 9250m2 of the coral reefs area. Some innovations programs, more effective and beneficial, had been carried out. One of it was by using scrap material from remain construction and production activity such as iron scrap, steel packaging, and others for creating nursery racks in Makakata Beach while in Tiaka field by using the new material. The effectiveness of the rack was analyzed by looking at 1) the coral seedlings survival rate and 2) the cost effectiveness. Results showed that Makakata coral transplantation program had a lower survival rate (about 60%) but more effective in term of cost effectiveness (75%) compare to Tiaka Field. The Makakata transplantation program also resulted an additional benefit, such as in increasing communitys knowledge and income through Ecotourism and Education program.

Keywords: coral transplantation, survival rate, cost effectiveness, biodiversity

Effectiveness study of scrap material used for nursery racks at Coral Transplantation program in Makakata beach - South Batui , Banggai Regency - Central Sulawesi

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(2) University of Muhammadiyyah Luwuk, Banggai Regency – Central Sulawesi

Makassar, 5 – 6 June 2020

Delivered for :

3rd International symposium Marine & Fisheries



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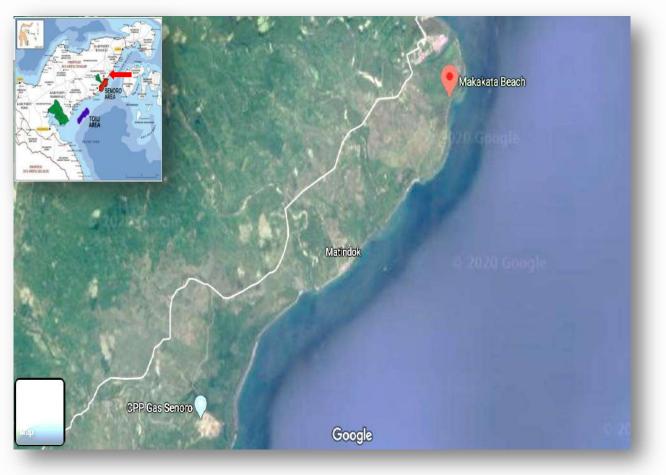
INTRODUCTION

- JOB Tomori is one of the Contractors for the Cooperation of the Upstream Oil and Gas Special task force Unit (KKKS SKK MIGAS) started operating since 2004
- □ Coral transplantation program has been running since 2010 and up to now there have been 6 phases of the coral transplantation program
- Challenge from the top management to evaluate the effectiveness of the program
- The Makakata Coral Transplantation Program is an alternative program initiated to try to address the concerns and existing problems





METHODS



- Program was conducted from Desember 2018 to September 2019 at Makakata beach – Banggai regency
- Nursery racks made from scraps material from remain of production and construction activities
- The effectiveness of the rack was analyzed by looking at (1) the coral seedlings survival rate and (2) the cost effectiveness
- □ Monitoring and evaluation

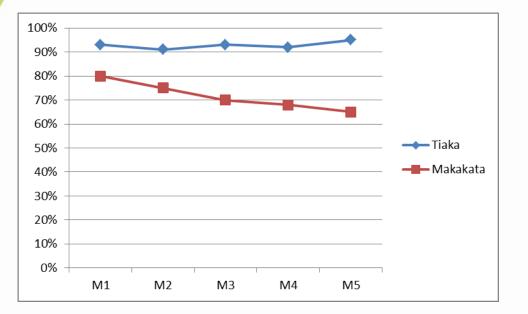


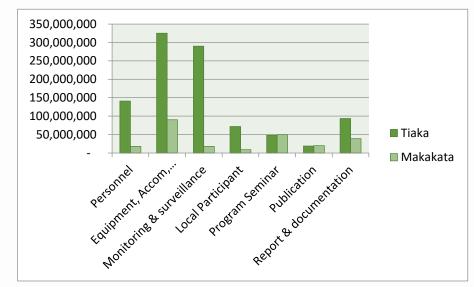
Field activities





Results and Discussion





- The Survival Rate of Makakata program is about 65% while in Tiaka Program reach up to 95% (30% lower)
- Makakata Program has lower cost compared to Tiaka Program (75% lower)
- Base on interview with local government and the community, they put more hope for the development of Makakata beach as local tourism destination



Conclusion and Recommendation

- Coral transplantation program at Makakata beach has a lower Survival Rate but in term of cost effectiveness it can save budget up to 75% compared to program at Tiaka Field.
- To increase the survival rate of Makakata program, experts can be invited to assist the program and can conduct the training program.
- By collaboration between local government, communities and the companies, Makakata beach can be developed for become Eco and Education tourism destination program.







Thank you Terima kasih





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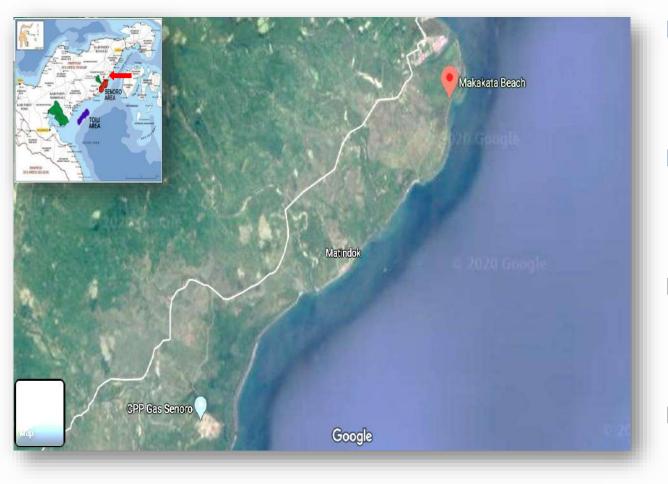
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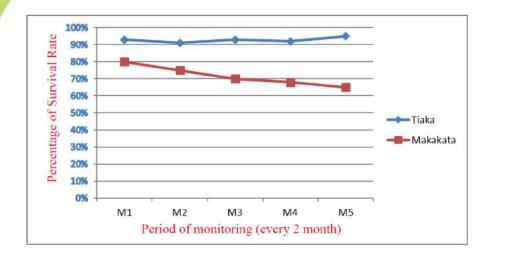
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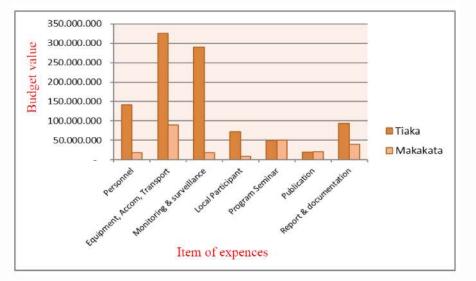


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CERTIFICATE Presented to

Mohammad Syakir

as a Presenter

at the 3rd International Symposium on Marine and Fisheries, Faculty of Marine Science and Fisheries , Universitas Hasanuddin *"Strengthening Innovations for Aquatic Resource Management"* conducted virtually due to the covid 19 pandemic



Dr. Ir. St. Aisjah Farhum, M.Si. Dean Makassar, 6th June 2020



Dr. Mahatma Lanuru, ST., M.Sc. Head of Organizing Committee

