

PRELIMINARY STUDY: DISTRIBUTION OF PINEAPPLE VEGETATION
ALONG SETIA ROAD, SEREMBAN

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1976

**PRELIMINARY STUDY: DISTRIBUTION OF RIPARIAN VEGETATION AT SETIU
RIVER, TERENGGANU**

By

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**Research Report submitted in partial fulfillment of
the requirements for the degree of
Bachelor of Science (Marine Biology)**

**Department of Marine Science
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2006**

1100042428

This project should be cited as;

Siti Nurul Hunadia, H. (2006). Preliminary Study: Distribution of Riparian Vegetation at Setiu River. Undergraduate thesis, Bachelor of Science in Marine Biology, University College of Science and Technology Malaysia, Terengganu.

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Specially to ummi, abah, angah, alang, aten and all my friends.

Thanks a lot



JABATAN SAINS SAMUDERA
FAKULTI SAINS DAN TEKNOLOGI
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**PENGAKUAN DAN PENGESAHAN LAPORAN
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ACKNOWLEDGEMENTS

Alhamdulillah, praise to Allah for His blessing which enabled me to finish this project. First of all, I would like to express my appreciation to my supervisor, Associate Prof. Sulong b. Ibrahim for his kindly supervision, guidance, assistance and support in every aspect of my study. Thank you for spending your precious time to hold meeting to check the progress of my thesis. Also thank to my co-supervisor En. Mohd Suffian b. Haji Idris for his help, encouragement and advice to finish this project.

I would like to express my sincere thanks to Mr Abdull Habir Alias, Mr Razali Salam, Mr Yunus Ibrahim, Mr Ruzalizam Katimon and Mrs Izarenah Md. Repin for cooperation and providing the additional information especially during the sampling was carried out. Without their assist and guidance, this study might not run smoothly.

Most importantly, my beloved families, Mr Husin Mahat and Mrs Norhasni Ismail, my brothers and sister, Ju, Mat and Fatin for supporting me from the start till the end in pursuing the Degree in Marine Biology in KUSTEM. I really appreciate your consistent support, patience and encouragement that help to pull me through this final and tough year in Marine Biology. I would also like to thank my housemate Yanti, Wani and Laili for struggling through the ups and downs with me for the past 3 years.

Last but not least, a million thank to whom reviewing this thesis. If, by any chances, of error in any part of my thesis, I offer my sincere request for forgiveness in advance.

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LIST OF ABBREVIATIONS

Abbreviation	Meaning
DGPS	Digital Global Positioning System
DBH	Diameter Breast Height
S	Species richness
E	Species evenness
H	Species diversity
m	meter
km	kilometer
cm	centimeter
≥	more than
%	percent

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ABSTRACT

Riparian areas have unique plant and soil characteristic, often much different from the land and water environments they connect. Well vegetated riparian zones are important for many reasons. According to that, this study is mainly focusing to determine the distribution, density and diversity of riparian vegetation at Setiu River, Terengganu. There were 27 species found along the study sites. At the field, the inventory plot was established through the riparian zone at Setiu River. Using forest inventory method, 10 plots were established along the river and all data were recorded into PC-ORD software. From data analysis, *Eugenia longiflora* was performed as most species richness and species diversity at this study site with the value of 6 and 1.605, respectively. The distribution for this species was occurred at most of the plots. There were 4 species appeared as a species evenness such as *Gluta renghas*, *Noelitsea zeylanic*, *Acrostichum speciosum* and *Bruguiera sexangula* with value, 1.000. For the downstream part, the vegetation becomes even more characteristics for brackish adaptation and *Bruguiera sexangula* were found dominantly with value 6.1690.

ABSTRAK

Kawasan riparian mempunyai ciri tumbuhan dan tanah yang unik dan biasanya berbeza dari segi perhubungan persekitaran tanah dan air. Zon riparian yang dapat hidup dengan baik mempunyai kepentingannya yang tersendiri. Kajian ini adalah mengenai taburan, kepadatan dan kepelbagaian tumbuhan riparian di Sungai Setiu, Terengganu. Terdapat 27 spesies yang telah dijumpai di sepanjang tempat kajian. Plot inventori telah dijalankan di kawasan riparian di Sungai Setiu. Sebanyak 10 plot yang telah dilakukan di kawasan kajian dengan menggunakan kaedah inventori dan semua data direkodkan dalam perisian PC-ORD. Daripada analisis data, *Eugenia longiflora* merupakan 'species richness' di kawasan tersebut dan kepelbagaian spesies bagi kawasan kajian ini adalah 6.000 dan 1.605. Taburan bagi spesies ini terdapat di kebanyakan plot. Terdapat 4 spesies yang dikenali sebagai 'species evenness' seperti *Gluta renghas*, *Noelitsea zeylanic*, *Acrostichum speciosum* dan *Bruguiera sexangula* dengan nilai 1.000. Di bahagian hilir sungai, tumbuhan di situ mempunyai ciri adaptasi dengan air payau dan spesies dominan di kawasan itu adalah *Bruguiera sexangula* dengan nilai 6.1690.