

DIVERSITY OF BASIDIOMYCETES IN BUKIT BAKU FOREST
RESERVES, TERENGGANU

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2007

1100051194



LP 4 FST 3 2007



1100051194
Diversity of Basidiomycetes in Bukit Bauk Forest Reserves,
Terengganu / Aqilah Mohammad.

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DIVERSITY OF BASIDIOMYCETES IN BUKIT BAUK FOREST RESERVES,
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Research report submitted in partial fulfillment of
the requirement for the degree of
Bachelor of Applied Science (Biodiversity Conservation and Management)

Department of Biological Sciences
Faculty of Science and Technology
UNIVERSITI MALAYSIA TERENGGANU
2007

1100051194

This project should be cited as:

Aqilah, M. 2007. Diversity of Basidiomycetes in Bukit Bauk Forest Reserves, Terengganu. Undergraduate thesis, Bachelor of Applied Science in Biodiversity Conservation and Management, Faculty of Science and Technology, Universiti Malaysia Terengganu , Terengganu. 37p.

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THANK YOU FOR ALL THE LOVE, SUPPORTS AND MOTIVATION!

ACKNOWLEDGEMENTS

Assalamualaikum warahmatullahi wabarakatuh

Alhamdulillah, praised to the God that finally, I have completed my research study entitled 'Diversity of Basidiomycetes in Bukit Bauk Forest Reserves, Terengganu' within the period given. This research was conducted under the supervision of Cik Jamilah binti Mohd Salim @ Halim and I would like to wish my express of gratitude to her for helping and guiding me towards my project.

Next, my appreciation goes to the laboratory assistant, En. Syed Ahmad Rizal Tuan Nek, for invaluable assistance during the preparation of the equipments and chemicals and also throughout the sampling period.

Deepest gratitude also goes to Forestry Department Peninsular Malaysia (FDPM) Terengganu for allowing me to conduct my research in Bukit Bauk Forest Reserves. I also would like to thank my family for their supports and advices for me as well as my friends for their help during this project.

I would also like to give a token of appreciation to the Department of Biological Sciences and Faculty of Science and Technology, Universiti Malaysia Terengganu (UMT) for the facilities that have been provided as well as their concern and attention throughout my study.

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LIST OF ABBREVIATIONS

mm	millimeter
m	meter
a.s.l.	above sea level
RH	relative humidity
temp	temperature
df	degree of freedom
%	percentage
°C	degree of celcius
N	number of samples
Sig	significant
SD	standard deviation

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ABSTRACT

Bukit Bauk Forest Reserves known to harbour tremendous biodiversity of plants and other forms of organisms including fungus. Basidiomycetes play an important role in forest decomposition. This study was conducted in Bukit Bauk Forest Reserves, Terengganu aimed to investigate the diversity and abundance of Basidiomycetes and to relate the diversity and abundance of Basidiomycetes with elevations. Diversity and abundance of Basidiomycetes was compared between four elevations (45, 145, 245 and 345m above sea level). In total, 159 individuals and 42 clumps of Basidiomycetes representing 46 genera were collected. The most dominant genus of Basidiomycetes found individually was *Ganoderma* with 32 individuals. The highest abundance of Basidiomycetes found in clumps was *Schizophora* with total collection of 10 clumps. The diversity and abundance of Basidiomycetes at Bukit Bauk were not related with physical parameters and elevations. Other factors such as rate of decomposition, light, forest turnover rate, soil organic contents and degree of human interventions were identified affecting the diversity and abundance of Basidiomycetes in Bukit Bauk Forest Reserves, Terengganu.

**KEPELBAGAIAN DAN KELIMPAHAN BASIDIOMYCETES DI HUTAN
SIMPAN BUKIT BAUK, TERENGGANU**

ABSTRAK

Hutan Simpan Bukit Bauk dikenalpasti sebagai kawasan hutan simpan yang menyimpan pelbagai khazanah tumbuhan serta organisma yang lain termasuk pelbagai jenis fungus. Fungus jenis Basidiomycetes memainkan peranan yang penting dalam aspek penguraian komponen hutan. Kajian ini telah dijalankan di Hutan Simpan Bukit Bauk bertujuan untuk mengenalpasti kepelbagaian Basidiomycetes yang wujud berdasarkan faktor ketinggian. Kepelbagaian dan komposisi fungus Basidiomycetes telah dibandingkan di antara empat ketinggian (45, 145, 245 dan 345m di atas paras laut). Secara keseluruhan, 159 individu dan 42 kelompok spesimen Basidiomycetes mewakili 46 genus telah dikutip. Genus yang mendominasi kutipan individu ialah Genus *Ganoderma* dengan jumlah kutipan sebanyak 32 individu sementara bagi kutipan kelompok pula ialah Genus *Schizopora* dengan koleksi sebanyak 10 spesimen. Taburan dan komposisi Basidiomycetes di Hutan Simpan Bukit Bauk adalah tidak signifikan dengan faktor fizikal dan ketinggian. Faktor-faktor lain seperti kadar penguraian, cahaya, kadar kitaran hutan, kandungan organik tanah dan tahap gangguan manusia telah dikenalpasti mempengaruhi kepelbagaian dan komposisi Basidiomycetes di Hutan Simpan Bukit Bauk, Terengganu.