

THE STAND STRUCTURE OF MIXED TROPIC FOREST
TYPE AT BONGGALI, KELANTAN

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FAKULTI SAINS DAN TEKNOLOGI
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THE STAND STRUCTURE OF MIXED MANGROVE FOREST TYPE AT TOK
BALI, KELANTAN

By

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Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk: THE STAND STRUCTURE OF MIXED MANGROVE FOREST TYPE AT TOK BALI, KELANTAN, oleh Lilian Suiking, no. matrik: UK7982 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh ijazah Sarjana Muda Sains Gunaan-Pengurusan dan Pemuliharaan Biodiversiti, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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LIST OF SYMBOLS

dbh	diameter breast height
m	centimeter
m ²	metre square
m ³	metre cubic
ha	hectare
m	metre
no	number

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ABSTRACT

A study on mixed mangrove forest types was carried out at Tok Bali Mangrove Forest, Kelantan. This study was conducted in mixed mangrove forest types that cover over 15.8 ha at Tok Bali Mangrove Forest. There were 10 mangroves species recorded at the sampling area. They are *Aegiceras corniculatum*, *Avicennia alba*, *Bruguiera cylindrica*, *Bruguiera sexangula*, *Ceriops decandra*, *Derris heterophylla*, *Excoecaria agallocha*, *Rhizophora apiculata*, *Sonneratia alba* and *Nypa fruticans*. A total of 20 plots for sampling design were built to get current information of the mixed mangroves forest. 30 metre length of forest profile transect line was built to get the mixed mangrove forest profile description. The total stocking for mangrove trees, mangrove saplings and mangroves seedlings for sampling design were 2 065 stems/ha, 3 920 saplings/ha and 212 200 seedlings/ha respectively. Six species of trees occurred in the forest profile transect line. The number of trees and saplings that existed in the forest profile transect line was 31 and 43 respectively. Many seedlings occurred in length from 10 to 14 m of the forest profile transect line. The data obtained are useful for monitoring and give update information for mangrove forest in Tok Bali.

STRUKTUR DIRIAN HUTAN CAMPURAN BAKAU DI TOK BALI, KELANTAN

ABSTRAK

Kajian pada hutan campuran bakau telah dijalankan di Hutan Bakau Tok Bali, Kelantan. Kajian ini dilaksanakan di kawasan hutan campuran bakau yang meliputi lebih daripada 15.8 ha Hutan Bakau Tok Bali, Kelantan. Hutan simpan ini mencatatkan 10 spesis pokok bakau iaitu *Aegiceras corniculatum*, *Avicennia alba*, *Bruguiera cylindrica*, *Bruguiera sexangula*, *Ceriops decandra*, *Derris heterophylla*, *Excoecaria agallocha*, *Rhizophora apiculata*, *Sonneratia alba* dan *Nypa fruticans*. Sejumlah 20 plot bagi inventori telah dibina untuk mendapatkan maklumat semasa pokok bakau. Transet profil hutan berukuran 30 meter telah dibina untuk mendapatkan gambaran profil hutan bagi pokok bakau. Dalam inventori pokok, jumlah pokok yang dicatatkan adalah 2 065 pokok/ha, 3 920 anak pokok/ha dan 212 200 anak benih/ha. Enam spesis pokok dijumpai di dalam transet profil hutan, 31 pokok dan 43 anak pokok telah dijumpai dalam transet profil hutan. Banyak anak benih dijumpai pada ukuran 10 hingga 14 m transet profil hutan. Data yang diperolehi adalah berguna untuk memberi maklumat terkini tentang hutan bakau di Tok Bali.