

MAPPING THE DISTRIBUTION OF MANGROVE FORESTS IN
UNIVERSITI KOLEJ TERENGGANU

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**MAPPING THE DISTRIBUTION OF MANGROVE FORESTS IN
UNIVERSITI KOLEJ TERENGGANU**

**BY
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ABSTRACT

Universiti Putra Malaysia Terengganu (Universiti Kolej Terengganu) is unique in the sense that mangrove forests surround the campus. Mangroves are reckoned as an ecosystem with a relatively diverse flora and fauna. Universiti Putra Malaysia is blessed with such a heritage and should make long due efforts to preserve the encompassing mangroves. This study was conducted on the distribution of mangrove forest occurring adjacents to Universiti Putra Malaysia Terengganu. The study also included the identification and determination of the species within these forests. To meet the objectives, remote sensing was extensively used where the main method of interpretation was through aerial photos. Sampling was also carried out in the field using the traverse method and mangrove area measurement was about 13.6 ha. The black and white panchromatic aerial photo from the year 1978, showed that about 17.25 ha was covered by mangrove forests. A total of 25 mangrove species were found inclusive of true mangrove species and associate species. The mangroves were distributed in grouping, parallel to mengabang and does not show any particular pattern of zonation. To enrich species diversity in the area, replanting has been suggested. This study is a preliminary study to pave the way for further studied much needed to efficacious management strategies on mangroves.

ABSTRAK

Universiti Putra Malaysia Terengganu (Universiti Kolej Terengganu) adalah merupakan satu-satunya kampus yang terdapat dan dikelilingi oleh hutan bakau. Hutan bakau adalah satu ekosistem dunia yang utama dengan kepelbagaiannya spesis flora dan fauna yang tinggi. Bagi Universiti Kolej Terengganu, ia merupakan satu anugerah yang unik dan perlu kepada perhatian yang sewajarnya supaya ia dapat dimanfaatkan. Kajian mengenai taburan hutan bakau telah dijalankan untuk mengenal pasti spesis dan bilangan spesis yang terdapat di Universiti Kolej Terengganu. Kajian ini telah dilakukan dengan menggunakan kaedah ‘remote sensing’ iaitu melalui penafsiran foto udara dan melalui penyampelan di lapangan secara ‘traverse’. Penafsiran foto udara pankromatik hitam-putih bagi tahun 1978 telah dilakukan dan menunjukkan terdapat 17.25 ha kawasan yang diliputi oleh hutan bakau. Melalui penyampelan di lapangan terdapat 13.6 ha kawasan diliputi oleh hutan bakau. Terdapat 25 spesis bakau kesemuanya bagi kedua-dua spesis bakau benar dan bakau sekutuan. Taburan hutan bakau di Universiti Kolej Terengganu adalah bercorak secara berkelompok, selari di sepanjang tepi mengabang dan tidak mempunyai zonasi. Bagi memperkayakan lagi spesis bakau proses penanaman semula telah dicadangkan. Kajian ini merupakan kajian awal untuk kajian seterusnya bagi mempertingkatkan pengurusan ke atas hutan ini.