

DISTRIBUTION, ABUNDANCE AND  
ASSOCIATION OF FORAMINIFERA IN THE  
MANGROVES OF KAPAR, SELANGOR AND  
LARUT MATANG, PERAK, MALAYSIA

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TESIS

**DISTRIBUTION, ABUNDANCE AND ASSOCIATION OF FORAMINIFERA IN  
THE MANGROVES OF KAPAR, SELANGOR AND LARUT MATANG, PERAK,  
MALAYSIA**

By

**RAZARUDIN BIN IBRAHIM**

**Thesis Submitted in Fulfillment of the Requirements for the  
Degree of Master of Science in the Faculty of Science and Technology  
Kolej Universiti Terengganu  
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Abstract of thesis presented to the Senate of Universiti Putra Malaysia in  
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By  
HAZARINUS BINTI USMAN

August 2000

Chairman: Assoc. Prof. Dr. Ahmad Latimer Bin Ismail

Faculty: Science and Technology

**DEDICATION**

**THIS HARDWORK IS DEDICATED TO MY MOTHER, SABARIAH ISMAIL,  
BELOVED LATE FATHER, IBRAHIM SAAD, SISTERS AND BROTHERS**

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**Chairman: Assoc. Prof. Dr. Mohd. Lokman Bin Husain**

**Faculty: Science and Technology**

A study was conducted to determine the availability and the variability of foraminifera in two mangrove areas, namely, Kapar in Selangor and Larut Matang in Perak. The distribution of benthic foraminifera in the respective mangrove areas were determined by analysis surface sediment samples collected along 3 transect lines. In addition, core sediment samples were also collected from these sites to assess changes in the distribution of foraminifera with depth. Environmental variables such as sediment texture, total organic carbon, salinity, pH and root abundance were also measured at each these sites. Univariate and multivariate analysis were performed using the PC-ORD statistical package version 3.0.

On the whole, 45 foraminiferal species including 2 of thecamoebians belonging to 19 families have been identified from the mangrove sediments of Kapar, Selangor and Larut Matang, Perak. Of the families observed, Lituolidae, Rotaliidae and Trochamminidae are the most abundant within the study area.