

STUDIES ON CATERPILLARS (SUBPHYLUM: LEPIDOPTERA)
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**STUDIES ON OSTRACODS (SUBPHYLUM: CRUSTACEA) IN
TERENGGANU WATERS**

By

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Degree of Bachelor of Science (Marine Biology)**

**Department of Marine Science
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FAKULTI PENGAJIAN MARITIM DAN SAINS MARIN
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PENGAKUAN DAN PENGESAHAN

LAPORAN PROJEK PENYELIDIKAN I DAN II

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

..... **Studies on Ostracods (Subphylum: Crustacea) in Terengganu Waters**

oleh **Yap Lee Chuen**, No. Matrik **UK 9416**

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ABSTRACT

Study was conducted at Universiti Malaysia Terengganu (UMT) beach and Redang Island to identify and describe ostracods collected and examine if there are correlation between their occurrence and environmental conditions. Ostracod abundance and diversity between stations and day/ night at manland and island were also examined. Ostracods were collected by towing a 125 μm -plankton net at inshore areas of Redang Island and UMT beach. From a total of 39 samples collected, ostracods were found in only nine samples and were totally absence from UMT beach. Seven possible genera from Order Platycopida, Myodocopida and Podocopida were found presence at Redang Island. Ostracod abundance between Redang Island stations ranging from 0 to 0.23 ± 0.40 individual/ m^3 did not differ significantly from each other. Ostracod abundance was higher at night but was not significant due to large variance between samples. Among the eight stations, highest diversity was found at station R3N in Redang Island with seven possible genera of ostracods. The higher ostracod abundance (6.82 ± 5.17 individuals/ m^3) and diversity at night compared to day (though not significant) was most probably due to diel vertical migration. The absence of ostracods in UMT Beach may be due to the presence of hydromedusae predators, beach exposure, coarse sediment, absence of subaquatic vegetation and pollution. Further studies have to be conducted to confirm this statement. Abundance of ostracods showed very weak correlation with the water parameters although many studies have shown great relation probably due to small sample size.