

ROXANI SURVEY OF CORAL REEF OFF BIDONG  
ISLAND, TERENGGANU

RABIATUL ADAWIAH BINTI MUSTAFAR

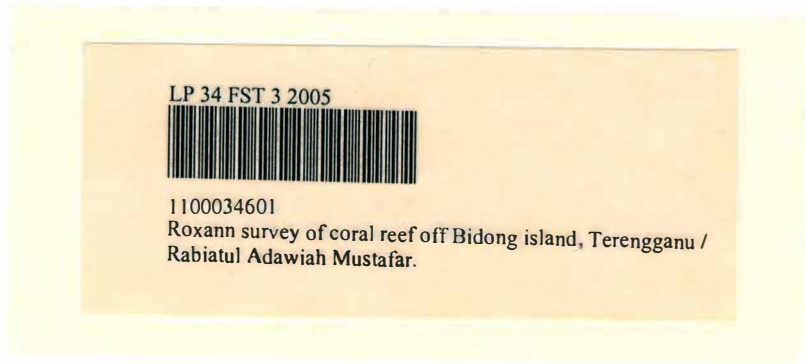
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Lihat sebelah

HAK MILIK  
PERPUSTAKAAN KUSTEM

**ROXANN SURVEY OF CORAL REEF OFF BIDONG ISLAND,  
TERENGGANU**

By

**RABIATUL ADAWIAH BINTI MUSTAFAR**

This project report is submitted in partial fulfilment of  
the requirements for the Degree of  
Bachelor of Marine Science

Department of Marine Science

Faculty of Science and Technology

**UNIVERSITY COLLEGE OF SCIENCE AND TECHNOLOGY MALAYSIA**

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**JABATAN SAINS SAMUDERA  
FAKULTI SAINS DAN TEKNOLOGI  
KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA**

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**PENGAKUAN DAN PENGESAHAN LAPORAN PROJEK PENYELIDIKAN  
TAHUN AKHIR**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

RoxAnn Survey of Coral Reef Off Bidadong Island, Terengganu

oleh Rabiatul Adawiah bt Mustafau, No. Matrik UK63FD

Telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Samudera sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah Sarjana Muda Sains (Sains Samudera), Fakulti Sains dan Teknologi, Kolej Universiti dan Teknologi Malaysia.

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## ABSTRAK

Laporan ini menunjukkan keputusan tinjauan ke atas terumbu karang yang telah dilakukan dengan menggunakan RoxAnn, sistem perbezaan dasar atau tanah berdekatan pulau Bidong, di perairan Terengganu. Objektif kajian ini adalah untuk mengkaji taburan terumbu karang serta untuk menentukan bentuk muka bumi dasar laut di kawasan kajian.

Pengambilan data telah dilakukan dengan menggunakan RoxAnn sejurus selepas prapenentuan laluan penyampelan. Kalibrasi dilakukan sebelum penyampelan dengan menggunakan pasir halus dan lumpur. Substrat yang berlainan dikenalpasti di lokasi yang berlainan dan pengesahan dilakukan oleh para penyelam.

Keputusan menunjukkan bahwa karang yang besar wujud pada kedalaman 4 meter hingga 12 meter. Kedalaman kawasan kajian meliputi kedalaman di antara 2 meter hingga 32 meter pada jarak 580 meter dari arah barat pulau. Kehadiran terumbu karang yang besar menunjukkan kawasan ini produktif dan sesuai untuk penyebaran biji benih dari pelbagai spesies terumbu karang.



## ABSTRACT

This tremendous report presents the result of a study on coral reef survey carried out by using RoxAnn, Acoustic Ground Discrimination System off Bidong Island, near Terengganu waters. The objectives of this study are to observe the coral reef and to determine the bathymetry in the study area. The acoustic technique using RoxAnn provides the information on the depth of the seabed but also gives clues to the types of ground beneath.

The data collection had been done around Bidong Island, in front of KUSTEM station and was carried out by using RoxAnn. The sampling transect had been done around the island by using a speedboat. Calibration had been done before the sampling transect is carried out. The different substrates were identified at the different location and the confirmation had done by requiring divers.

The result indicated massive coral existed from four meters to 12 m depth. The depth of the study covered range around two meters to 32 m at a distance of 580 m from the westward island. The presence of massive corals indicated the area is productive and is suitable for propagation of corals of various species.