DISTRIBUTION OF FISH USING THE ECHO-SOUNDER IN KUPAH ISLAND, TERENGGANU

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FACULTY OF SCIENCE AND TECHNOLOGY
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DISTRIBUTION OF FISH USING THE ECHO-SOUNDER IN KARAH ISLAND, TERENGGANU

By

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RESEARCH PROJECT FINAL DRAFT APPROVAL AND VALIDATION FORM I AND II

I certify that the report of this final year project entitled as: **Distribution of fish using the echo-sounder in Karah Island, Terengganu** by **Mohammad Zaini bin Zainal**, Matriculation No. **UK 6529** has been read and all the alteration and correction recommended by examiners have been done. This final draft submitted to Department of Marine Science has been accepted as fulfillment of the requirement for Bachelor of Science (Marine Science) under the Faculty of Science and Technology, Kolej Universiti Sains dan Teknologi Malaysia.

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Km	Kilometer
U	Utara (North)
T	Timur(East)
^{o}	degrees
'	minutes

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ABSTRACT

This research aims to study relative fish distribution and to produce a data base and determine the fish distribution pattern using Biosonics DT 6000 scientific echo sounders in waters around Karah Island, Terengganu. Data were collected 15 meters from the rocky shore of the island starting at the position 05°36.01'N and 103°03.89'E and along a predetermined transects. This acoustic survey consisted 8 transects, each having a length of 1 nautical miles (1.852 km).The survey been conducted in April and May using research vessel UNIPERTAMA III. Result from analysis using Visual Analyzer program shows that rich distributions were higher along Transect 1, Transect 2, Transect 7 and Transect 8. Result also shows that distribution if fish were higher in coral reef area.

ABSTRAK

Kajian ini menyumbang kearah penghasilan tentang hubungan taburan ikan dan data asas serta pengenalpastian corak taburan ikan menggunakan penduga gema saintifik Biosonics DT6000 diseluruh kawasan perairan Pulau Karah,Terengganu. Data telah diambil pada 15 meter daripada pesisiran berbatu pulau bermula pada kedudukan 05°36.01'U dan 103°03.89'T dan sepanjang transect yang telah dikenalpasti. Tinjauan akustik ini mempunyai 8 transet yang meliputi keseluruhan pulau dimana setiap transet mempunyai panjang 1 batu notika (1.852km).Tinjauan telah dilakukan pada bulan April dan Mei,menggunakan kapal penyelidikan UNIPERTAMA III. Keputusan daripada analisis menggunakan program 'Visual analyzer' menunjukkan taburan adalah paling tinggi dapat dikesan di sepanjang transet 1,transet 2,transet 7 dan transet 8. Keputusan juga menunjukkan taburan ikan lebih tinggi dikawasan terumbu karang.