

THE EFFECT OF SPRING/NEAP TIDES ON  
THE CATCH COMPOSITION OF RECREATIONAL  
FISHING AT SEBERANG TAKIR, KUALA  
TERENGGANU

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**THE EFFECT OF SPRING/NEAP TIDES ON THE CATCH COMPOSITION OF  
RECREATIONAL FISHING AT SEBERANG TAKIR, KUALA TERENGGANU**

**By**

**Azmi Marzuki Bin Muda**

**Research Report submitted in partial fulfillment of  
the requirement for the degree of  
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DEPARTMENT OF MARINE SCIENCE  
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DECLARATION AND VERIFICATION REPORT  
 FINAL YEAR RESEARCH PROJECT

It is hereby declared and verified that this research report entitled:

THE EFFECT OF SPRING / NEAP TIDES ON CATCH COMPOSITION  
 OF RECREATIONAL FISHING AT SERERANG TAKIR, 2012

by AZMI MARZUKI BIN MUDA, Matric No. 4K23532 have

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## DECLARATION

I declare that this thesis entitle “**The Effect of Spring/Neap Tides on the Catch Composition of Recreational Fishing at Seberang Takir, 2012**” is of my own writing except some quotes and brief paragraphs which every single one of it is clearly shown of its sources.

Signature : 

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Matrix no. : UK23532

Date : 19 June 2013

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## LIST OF SYMBOLS

$H_1$	Alternate hypothesis
$H_0$	Null hypothesis
Ave	Average
cm	Centimeter
g	Gram
min	Minimum
max	Maximum
no.	Number
%	Percentage
Sp.	Species
Vs.	Versus
S.D.	Standard Deviation
$\chi^2$	Chi-square test

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Seberang Takir, Kuala Terengganu

**ABSTRACT**

This thesis describes a study about the catch composition by recreational fishing at Seberang Takir. The objectives of this study were to inventory the fish species that can be caught by recreational fishing during spring or neap tides and to compare the catch composition of recreational fishing between the spring tide and neap tides in Seberang Takir. The method use in the sampling was shoreline fishing by using shrimp bait. The data of the fish such time of caught, species name, common name, weight and length will be used in data analyzing process. Total of 20 species were caught with the number of catches were 113. Spring tide caught 69 numbers of catches while neap tide caught only 44 numbers if catches. The frequently caught species were *Arius maculatus*, *Leiognathus equulus* and *Caranx ignobilis*. Spring tide caught 28 fishes which 54.9% of the total frequently caught species while neap tide caught 23 fishes which 45.1% of total frequently caught species.

## Kajian Kesan Air Pasang Perbani/ Pasang Surut Terhadap Komposisi Tangkapan Rekreasi di Seberang Takir, Kuala Terengganu

### ABSTRAK

Tesis ini menerangkan kajian komposisi tangkapan memancing secara rekreasi di Seberang Takir. Objektif kajian ini adalah untuk menghasilkan inventori spesies ikan yang boleh ditangkap melalui memancing secara rekreasi pada waktu air pasang surut atau air pasang perbani dan membandingkan komposisi tangkapan ikan rekreasi di antara air pasang perbani dan air pasang surut di Seberang Takir. Kaedah persampelan yang digunakan adalah pancingan pantai dengan menggunakan umpan udang putih. Data daripada masa ikan ditangkap, nama spesies, nama biasa, berat dan panjang akan digunakan dalam proses menganalisis data. Sejumlah 20 spesies telah diperolehi dengan bilangan tangkapan ikan sebanyak 113 ekor. Untuk pasang perbani, sebanyak 69 ekor ikan berjaya ditangkap manakala 44 ekor ikan untuk pasang surut. Spesis yang paling banyak ditangkap adalah *Arius maculatus*, *Leiognathus equulus* dan *Caranx ignobilis*. Air pasang perbani berjaya memperolehi ikan sebanyak 28 ekor untuk spesis yang sering tertangkap manakala pasang surut pula berjaya menangkap 23 ekor ikan untuk spesis yang sering tertangkap.