

PREMILINARY SURVEY OF ESTUARINE CROCODILE (*Crocodylus*
Porosus) NESTING DISTRIBUTION IN SETIU WETLAND

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**PREMILINARY SURVEY OF ESTUARINE CROCODILE (*Crocodylus Porosus*)
NESTING DISTRIBUTION IN SETIU WETLAND**

By

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**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:

PREMILINARY SURVEY OF ESTUARINE CROCODILE (*CROCODYLUS POROSUS*) DISTRIBUTION AT SETIU WETLAND by **MUHAMAD FIKRIE MAT ZAWAWI**, Matric No. **UK 16736** has been examined and all errors identified have been corrected. This report is submitted to the Department of Marine Science as partial fulfillment towards obtaining the **Degree of Science (Marine Science)**, Faculty of Maritime Studies and Marine Science, University Malaysia Terengganu.

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LIST OF ABBRERIVIATON

Cm	-	Milimeter
DO	-	Dissolve oksigen
g	-	Gram
GPS	-	Global Position System
hp	-	Horse power
Ind	-	Individual
Km	-	Kilometer
m	-	Meter
PH	-	Past hatched nest
Ppt	-	Part per thousand
RCH	-	Recently pasted hatched
Sp	-	Species
SPOT	-	Satellite Pour l' Observation de la Terra
Temp	-	Temperature
°C	-	Degree celcius

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ABSTRACT

There are two species of crocodile inhabit the Setiu River, the *Crocodylus Porosus* (estuarine crocodile) at the estuarine of Setiu River and the *Tomistoma schlegelli* (false garial). The preliminary nesting survey was done at 2nd September and 15th February at Setiu Wetland River with two time sampling. The distance of nesting survey were 26.6 km, starting from Jetty Merang till Penarik Bridge. There are three main river in Setiu Wetland that active in crocodile nesting that were Sungai Bukit Putera, Sungai Bari, and Sungai Chalok. Sungai Chalok have high number of crocodile nesting with 52 eggs hatchlings at 2006. Most of nesting crocodile were near the *Nypa Fructicans* and *Melaleuca leucadendron*. There are two types of nesting that are swamp nesting and the riverside nesting. The longest distance from the river bank was 34 meters located and Sungai Bari. The nearest distance from river bank was 3 meter located at Sungai Bukit Putera. Most of the nesting was unthreatened at Sungai Bari and Sungai Chalok. However the nesting were under threatened at Sungai Bukit Putera. Chalok River was the highest location number of nesting observed with 5 and second highest was Bari River. The lowest location of number nesting observed was Bukit Putera River

ABSTRAK

Terdapat dua jenis buaya mendiami Sungai Setiu. Antaranya ialah *Crocodylus Porosus* (Buaya Muara) yang tinggal di muara Sungai Setiu, dan *Tomistoma schlegelli* (Buaya Julong-julong). Permulaan dalam mencari taburan sarang telah di lakukan pada 2nd dan 15th bulan Febuari di Sungai Setiu Wetland dengan jarak sejauh 26.6 km yang bermula dari jeti Merang sehingga ke jambatan penarik. Terdapat 3 sungai utama di Setiu Wetland yang aktif dengan sarang buaya iaitu di Sungai Bukit Putera, Sungai Bari, dan Sungai Chalok. Sungai Chalok mempunyai sarang yang memiliki 52 telur yang telah menetas 2006. Kebanyakan srang buaya di bina berdekatan dengan pokok nipah dan *Melaleuca leucadendron*. Terdapat dua jenis sarang iaitu sarang di tepi sungai dan juga sarang di dalam hutan paya. Jarak sarang yang paling jauh dari tebing sungai ialah 34 meter yang terletak di Sungai Bari. Jarak sarang yang paling dekat sejauh 3 meter yang terletak di Sungai Bukit Putera. Kebanyakan sarang tidak terancam lagi di Sungai Bari dah juga Sungai Chalok. Walaubagaimana pun sarang yang terdapat di Sungai Bukit Putera sudah terancam. Sungai Chalok mempunyai taburan sarang yang tertinggi dengan 5 sarang yang di jumpai diikuti oleh Sungai Bari dan taburan sarang yang paling rendah terletak di Sungai Bukit Putera.