

A SYSTEM OF BIRDS ALPHABETS IN CONG
RATED WINGS OF THE FOREST, SETIA MALAYA
BERSEKUTU

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A SURVEY OF TALESS AMPHIBIANS IN GONG BATU MANGROVE FOREST,
SETIU WETLAND, TERENGGANU.

By

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Research Report submitted in partial fulfillment of
the requirements for degree of
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**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK PENYELIDIKAN I DAN II**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

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Abstract

There are no studies and information on the checklist and diversity of tailless amphibian in Gong Batu mangrove area, Setiu Wetland, Terengganu. Based on four times surveyed, a total of 111 individuals of frogs from three species of two families. This species are *Limnonectes kuhlii* and *Fejervarya limnocharis* from Ranidae families and *Polypedates leucomystax* is from Rhacophoridae family. Frogs were collected, particularly at night on the forest floor and in water puddles. They were also sighted and collected during the day. The result revealed that the species composition is very low. The Diversity Index values (species diversity, species richness and species evenness) also are very low for the tailless amphibian in this mangrove area. The Shannon- Weiner index ranged between 0.516 and 1.224 and the Simpson index ranged between 0.212 and 0.505, while Evenness index, Margalef index and Menhinick index ranged from 0.520 - 0.691, 0.307 - 0.600 and 0.392 - 0.567, respectively. The main factor caused the declining of amphibian population are lack of food resources and the eggs of the frogs been eaten by the fish.

PEMERHATIAN KE ATAS KATAK DI HUTAN PAYA BAKAU GONG BATU, SETIU WETLAND, TERENGGANU.

Abstrak

Tiada kajian dan maklumat dalam senarai dan diversity amfibia di kawasan paya bakau Gong Batu, Setiu Wetland, Terengganu. Tinjauan telah dijalankan sebanyak empat kali mendedahkan jumlah sebanyak 111 individu katak iaitu tiga spesis dari dua famili. Spesis-spesis ini ialah *Limnonectes kuhlii* dan *Fejervarya limnocharis* dari famili Ranidae dan *Polypedates leucomystax* dari famili Rhacophoridae. Katak telah dikutip pada sebelah malam di lantai hutan dan lopak air. Mereka juga ditinjau dan dikutip pada siang hari. Keputusan telah menunjukkan komposisi spesis adalah sangat rendah. Nilai Diversiti Indeks (kepelbagaian spesis, kekayaan spesis dan keserataan spesis) juga adalah sangat rendah di kawasan paya bakau ini. Indek Shannon-Weiner ialah antara 0.516 hingga 1.224 dan indik Simpson antara 0.212 hingga 0.505, sementara indik Evenness ialah antara 0.520 hingga 0.691, indik Margalef antara 0.307 hingga 0.600 dan indik Menhinick 0.392 hingga 0.567. Kekurangan sumber makanan dan telur-telur katak dimakan oleh ikan merupakan faktor major yang menyebabkan kelimpahan spesis dan komposisi spesis di kawasan paya bakau Gong Batu merosot.