

AN ANALYSIS OF HATCH SUCCESS AND HATCH FAILURE IN IN-SITU
AND RELOCATED NESTS OF THE GREEN TURTLE, CHELONIA MYDAS IN
GAMBAR HUTANG, BEDANG ISLAND

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**AN ANALYSIS OF HATCH SUCCESS AND HATCH FAILURE IN *IN-SITU*
AND RELOCATED NESTS OF THE GREEN TURTLE, *Chelonia mydas* IN
CHAGAR HUTANG, REDANG ISLAND.**

By

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**JABATAN SAINS MARIN
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UNIVERSITI MALAYSIA TERENGGANU**

**PENGESAHAN DAN KELULUSAN LAPORAN AKHIR
PROJEK PENYELIDIKAN I DAN II**

Dengan ini disahkan bahawa kami (Penyelia) telah membaca, memperbaiki dan meluluskan laporan projek pelajar bertajuk *An analysis of hatch success and hatch failure in in-situ and relocated nests of the green turtle, Chelonia mydas* at Chagar Hutang, Redang Island. Projek ini adalah sesuai sebagai satu projek penyelidikan tahun akhir di Fakulti Pengajian Maritim dan Sains Marin. Laporan ini dikemukakan sebagai memenuhi sebahagian daripada keperluan memperoleh Ijazah Sarjana Muda Sains (Biologi Marin), Universiti Malaysia Terengganu.

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ABSTRACT

A total of 54 nests were excavated and analyzed from nests that had undergone incubation more than 60 days to determine the hatch success and hatch failure of green turtle nest at Chagar Hutang, Redang Island. Among those, 43 nests were *in-situ* nests while 11 nests were relocated nests. The latter were relocated when they were attacked by ants during incubation. The average hatch success at *in-situ* nests was 75.75% (n=43, ± 28.60) whereas the average hatch success in relocated nests was 68.33% (n=11, ± 42.41) both ranging from 0% to 100% in values. Among the eggs that had been predated upon in *in-situ* nests, the main predator was ants, 58.49% followed by ghost crabs, 25.47%, maggot, 13.21% and plant root with 2.83%. But in relocated nests the trend was different with ghost crabs being the main predator (49.23%) followed by maggot (26.15%) and ants, 24.62%. The relocated nests had no plant root infiltration (0%).