

Look Up Full Text

Full Text from Publisher



Save to EndNote online

Add to Marked List

◀ 1 of 1 ▶

Importance of Sand Particle Size and Temperature for Nesting Success of Green Turtles in Penang Island, Malaysia

By: Salleh, SM (Salleh, Sarahaizad Mohd)^[1,2,5]; Nishizawa, H (Nishizawa, Hideaki)^[3]; Ishihara, T (Ishihara, Takashi)^[4]; Sah, SAM (Sah, Shahrul Anuar Mohd)^[1,2]; Chowdhury, AJK (Chowdhury, Ahmed Jalal Khan)^[5]

CHELONIAN CONSERVATION AND BIOLOGY

Volume: 17 Issue: 1 Pages: 116-122

DOI: 10.2744/CCB-1266.1

Published: JUN 2018

Document Type: Article

[View Journal Impact](#)

Abstract

The microhabitats of green turtle (*Chelonia mydas*) nests were investigated to identify key factors influencing nesting success by monitoring both successful nests (n = 43) and aborted nests (n = 106) created by the same individuals (n = 9) from September 2013 to September 2014 on Penang Island, Malaysia. The effect of sand particle size on nesting success was significant, suggesting that green turtles tend to abort nesting at sites with sands of particle sizes, 1 mm. In addition, nests were successful at superficial sand temperatures less than 32.95 degrees C.

Keywords

KeyWords Plus: [LOGGERHEAD SEA-TURTLES](#); [WAN-AN ISLAND](#); [CHELONIA-MYDAS](#); [CARETTA-CARETTA](#); [SITE SELECTION](#); [ERETMOCHELYS-IMBRICATA](#); [HATCHING SUCCESS](#); [PENGHU ARCHIPELAGO](#); [MARINE TURTLES](#); [BEACH](#)

Author Information

Reprint Address: Salleh, SM (reprint author)

+ Univ Sains Malaysia, Sch Biol Sci, George Town 11800, Penang, Malaysia.

Reprint Address: Salleh, SM (reprint author)

+ Univ Sains Malaysia, Ctr for Marine & Coastal Studies CEMACS, George Town 11800, Penang, Malaysia.

Reprint Address: Salleh, SM (reprint author)

+ Int Islamic Univ Malaysia, Dept Marine Sci, Kulliyah Sci, Kuantan 25200, Pahang, Malaysia.

Addresses:

+ [1] Univ Sains Malaysia, Sch Biol Sci, George Town 11800, Penang, Malaysia

+ [2] Univ Sains Malaysia, Ctr for Marine & Coastal Studies CEMACS, George Town 11800, Penang, Malaysia

+ [3] Kyoto Univ, Grad Sch Informat, Sakyo Ku, Kyoto 6068501, Japan

[4] Suma Aqualife Pk, Suma Ku, 1-3-5 Wakamiya Cho, Kobe, Hyogo, Japan

+ [5] Int Islamic Univ Malaysia, Dept Marine Sci, Kulliyah Sci, Kuantan 25200, Pahang, Malaysia

E-mail Addresses: sarahaizad.mohd.solleh@gmail.com; nishiza@bre.soc.i.kyoto-u.ac.jp; t-ishihara@sumasui.jp; sanuar@usm.my; jkchowdhury@iium.edu.my

Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

43

Cited References

[View Related Records](#)

Use in Web of Science

Web of Science Usage Count

1

Last 180 Days

1

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection
- Science Citation Index Expanded

Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

Funding

Funding Agency	Grant Number
MyBrain15	
Ministry of Education Malaysia	
Universiti Sains Malaysia	
Ministry of Higher Education Malaysia	6711134
International Islamic University Malaysia through the Research Initiative Grant Scheme	RIGS-16-106-0270

[View funding text](#)

Publisher

ALLEN PRESS INC, 810 E 10TH ST, LAWRENCE, KS 66044 USA

Journal Information

Impact Factor: [Journal Citation Reports](#)

Categories / Classification

Research Areas: Zoology

Web of Science Categories: Zoology

See more data fields

◀ 1 of 1 ▶

Cited References: 43

Showing 30 of 43 [View All in Cited References page](#)

(from Web of Science Core Collection)

- PHYSIOLOGICAL AND ECOLOGICAL ASPECTS OF GAS-EXCHANGE BY SEA TURTLE EGGS** **Times Cited: 83**

By: ACKERMAN, RA
 AMERICAN ZOOLOGIST Volume: 20 Issue: 3 Pages: 575-583 Published: 1980
- Characterization and geotechnical properties of Penang residual soils with emphasis on landslides** **Times Cited: 32**

By: Ahmad, F.; Yahayaand, A.S.; Farooqi, M.A.
 American Journal of Environmental Sciences Volume: 2 Issue: 4 Pages: 121-8 Published: 2006
- Fitting Linear Mixed-Effects Models Using lme4** **Times Cited: 6,077**

By: Bates, Douglas; Maechler, Martin; Bolker, Benjamin M.; et al.
 JOURNAL OF STATISTICAL SOFTWARE Volume: 67 Issue: 1 Pages: 1-48 Published: OCT 2015
- Effect of tagging marine turtles on nesting behaviour and reproductive success** **Times Cited: 18**

By: Broderick, AC; Godley, BJ
 ANIMAL BEHAVIOUR Volume: 58 Pages: 587-591 Part: 3 Published: SEP 1999
- PHYSICAL AND CHEMICAL FACTORS AFFECTING HATCHING IN GREEN SEA TURTLE CHELONIA MYDAS (L)** **Times Cited: 87**

By: BUSTARD, HR; GREENHAM, P
 ECOLOGY Volume: 49 Issue: 2 Pages: 269-& Published: 1968
- The influence of the beach environment on the digging success and nest site distribution of the green turtle, Chelonia mydas, on Wan-an Island, Penghu Archipelago, Taiwan** **Times Cited: 10**