

Search > Results for Factors influenci... > Factors influencing the vertical distribution of copepods in a tropical oligotr...

Factors influencing the vertical distribution of copepods in a tropical oligotrophic estuary, South China sea

By: [Rahman, MM](#) (Rahman, Mustafizur M.) ^{[1], [2]}

[ESTUARINE COASTAL AND SHELF SCIENCE](#)

Volume: 250

Article Number: 107165

DOI: 10.1016/j.ecss.2021.107165

Published: MAR 5 2021

Early Access: FEB 2021

Indexed: 2021-03-14

Document Type: Article

Abstract

The distribution of copepods in relation to spatial and temporal variation is well understood, but less is known about the importance of various environmental factors and how these might concurrently influence the distribution of copepods in a river and its estuary. However, investigations focusing on vertical dynamics of copepods coupled with various environmental factors are totally lacking particularly in an oligotrophic river. To address this deficit, triplicate monthly copepods samples were collected concurrent with various environmental parameters and in two layers (30 cm below the surface and 30 cm above the bottom) at two locations (estuary and

[Full text at publisher](#)



[Export ▾](#)

[Add To Marked List](#)

< 1 of 1 >

influenced by the salinity, while they were negatively influenced by the water temperature. Harpacticoid copepods were observed largely in water near bottom, in which they were strongly and positively influenced by the phytoplankton density without any spatial effect. Other environmental factors minimally affected the density of copepods. Collecting similar data at other environments both nationally and internationally might facilitate future efforts of monitoring and managing aquatic systems.

Keywords

Author Keywords: [Calanoid copepods](#); [Cyclopoid copepods](#); [Harpacticoid copepods](#); [Water quality](#); [Redundancy analysis](#); [Estuary](#)

Keywords Plus: [AMAZON COAST](#)

Author Information

Corresponding Address: [Rahman, Mustafizur M.](#) (corresponding author)

Citation Network

In Web of Science Core Collection

1

Citation

[Create citation alert](#)

1

Times Cited in All
Databases

75

Cited References

[View Related Records](#)

[+ See more times cited](#)

You may also like...

[Degefu, F; Schagerl, M;](#)

[Zooplankton abundance, species composition and ecology of tropical high-mountain crater Lake Wonchi, Ethiopia](#)

[JOURNAL OF LIMNOLOGY](#)

[Errahmani, MR; Hamaidi, Cherqui, F; Hamaidi](#)

[APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH](#)

[Xu, Y; Sui, JX; Zhang, BL; et al.](#)

[Variation in the macrofaunal community over large temporal and spatial scales in the southern Yellow Sea](#)

[JOURNAL OF MARINE SYSTEMS](#)

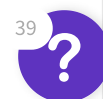
[PAFFENHOFER, GA; ATKINSON, LP; BULLUCK, LR; et al.](#)

[DISTRIBUTION AND ABUNDANCE OF THALIACEANS AND COPEPODS OFF THE](#)

[SOUTHEASTERN USA DURING WINTER](#)

[CONTINENTAL SHELF RESEARCH](#)

39



Corresponding Address: Rahman, Mustafizur M. (Corresponding author)

▼ Int Islamic Univ Malaysia IIUM, Inst Oceanog & Maritime Studies, Fac Sci, Kuantan 26160, Pahang, Malaysia

Addresses:

▼ ¹ Int Islamic Univ Malaysia IIUM, Inst Oceanog & Maritime Studies, Fac Sci, Kuantan 26160, Pahang, Malaysia

▼ ² IIUM, Dept Marine Sci, Fac Sci, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia

E-mail Addresses: mustafizu.rahman@yahoo.com

Categories/Classification

Research Areas: Marine & Freshwater Biology; Oceanography

Funding

Funding agency	Grant number
Ministry of Higher Education (MOHE), Malaysia	
International Islamic University Malaysia	FRGS19-096-0705
	P-RIGS18-032-0032

Funding Table

[View funding text](#)

Document Information

Language: English

Accession Number: WOS:000620815600003

ISSN: 0272-7714

eISSN: 1096-0015

Other Information

IDS Number: QL1B0

— [See fewer data fields](#)

Journal information

[ESTUARINE COASTAL AND SHELF SCIENCE](#)

ISSN: 0272-7714

eISSN: 1096-0015

Current Publisher: ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND

Journal Impact Factor: [Journal Citation Report™](#)

Research Areas: Marine & Freshwater Biology; Oceanography

Web of Science Categories: Marine & Freshwater Biology; Oceanography

2.929

Journal Impact Factor™ (2020)

CONTINENTAL SHELF RESEARCH

Ren, YZ; Yin, JQ; Li, KZ; et al.

[Monsoon-driven seasonal and spatial distribution of the copepod community along the northwest continental shelf of the South China Sea](#)

JOURNAL OF MARINE SYSTEMS

[See all](#)

Most Recently Cited by

Rahman, MM; Fathi, A; John, A; et al.

[Influences of environmental parameters and phytoplankton productivity on benthic invertebrates in a tropical oligotrophic lake, northern Malaysia](#)

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH

Use in Web of Science

Web of Science Usage Count

2

Last 180 Days

6

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection

- Science Citation Index Expanded (SCI-EXPANDED)

Suggest a correction

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

75 Cited References

Showing 30 of 75

[View as set of results](#)

Showing 30 of 13

[View as set of results](#)

(from Web of Science Core Collection)

Product
Support

Newsletter

Terms of
Use

