

Journal of the BLACK SEA/MEDITERRANEAN ENVIRONMENT

International Journal a Trimesterly International Publication of Earth, Marine,
Environment and Engineering Science

Volume 27, Number 2, 2021 **ISSN: 1304-9550 / e-ISSN: 2717-8129**

Web

www.blackmeditjournal.org, www.tudav.org

Category Link

Pollution, Marine Biology, Physical and Chemical Oceanography, Marine Geology and Geophysics, Maritime Policy, Biological Conservation, Coastal Zone Management.

Editor

Bayram Öztürk

Associate Editor

Ayaka Amaha Öztürk

Technical Assistants

Zeynep Gülenç, Arda M. Tonay

Advisory Board Members

Tamara Shiganova (Russian Academy of Science, Russia)	Melih E. Çınar (Ege Uni., Turkey)
Cemal Turan (İskenderun Technical Uni., Turkey)	Kohei Kihara (Tokyo, Japan)
Dani Golani (Hebrew Uni. of Jerusalem, Israel)	Didier Aurelle (Aix-Marseille Uni., France)
Barış Salihoğlu (Middle East Technical Uni., Turkey)	Ergün Taşkın (Manisa Celal Bayar Uni., Turkey)
Ferdinando Boero (Uni. of Naples Federico II, Italy)	Nuri Başusta (Fırat Uni., Turkey)
Keith Brander (Technical Uni. of Denmark)	Vasilis Gerovasileiou (Hellenic Centre for Marine Research, Greece)
	Daniel Cebrian-Menchero (UNEP/MAP, SPA-RAC, Tunis)

Founder

Kasım Cemal Güven

Publisher

Turkish Marine Research Foundation (TUDAV)

Printed by: Metin Copy Plus (Tel: 0212 527 61 81)

Editorial Address: Turkish Marine Research Foundation (TUDAV), P.O. Box: 10 Beykoz, 34820, Istanbul, Turkey.

E mail: tudav@tudav.org

Abstracted in: Chemical Abstracts, ASFA (Aquatic Sciences and Fisheries abstracts), Biosis (Biological Abstracts, Biosis Previews), Zoological Record, CAB Abstracts, EBSCO

Journal of the
BLACK SEA/MEDITERRANEAN
ENVIRONMENT

Volume 27, Number 2, 2021

Contents

Editor's note.....123

Research Article

New record of the benthic marine mucilage aggregates *Phaeocystis giraudii* from Turkish Eastern Mediterranean Sea

Emine Şükran Okudan, Berrin Dural, Hüseyin Erdugan, Yelda Aktan, Volkan Demir, Veysel Aysel.....124

Investigation of the effects of mucilage on maritime operation

Esmâ Uflaz, Emre Akyüz, Fırat Bolat, Pelin Bolat, Özcan Arslan.....140

A preliminary assessment of the mass mortality of some benthic species due to the mucilage phenomenon of 2021 in the Çanakkale Strait (Dardanelles) and North Aegean Sea

H. Barış Özalp.....154

Sea snot and its impacts on the fisheries in the Sea of Marmara and its adjacent waters

Taner Yıldız, Onur Gönülal.....167

Vertical distribution of mucilage typology in the water column after a massive mucilage formation in the surface waters of the Sea of Marmara

İ. Destan Öztürk, Sabri Mutlu, Gökhan Kaman, Fatma Bayram Partal, Ayşen Demirtaş, Senem Çağlar, Ersan Kuzyaka, Hüsne Altıok, Dilek Ediger.....184

Preliminary study on cryptobenthic fish assemblages affected by the mucilage event in the northeastern Aegean Sea

Cem Dalyan, Nur Bikem Kesici, Ferhat Yalgın.....202

Effects of mucilage on the benthic crustacean in the North Aegean Sea

Herdem Aslan, Zeynep Tekeli, Özge Bacak.....214

The early stage of mucilage formation in the Marmara Sea during spring 2021

Halim Aytekin Ergul, Neslihan Balkis-Ozdelice, Merve Koral, Serdar Aksan, Turgay Durmus, Mert Kaya, Melih Kayal, Fatih Ekmekci, Oltan Canli.....232

Short Communication

The current impact of mucilage on tourism and underwater cultural heritage in the Marmara region

Can Kalkavan.....258

The impact of the massive mucilage outbreak in the Sea of Marmara on gorgonians of Prince Islands: A qualitative assessment

Nur Eda Topçu, Bayram Öztürk.....270

Corrigendum

First record of *Leucothea multicornis* (Quoy & Gaimard, 1824) (Ctenophora: Lobota: Leucotheidae) in the Lebanese coastal waters, eastern Mediterranean Sea - CORRIGENDUM

Ghazi Bitar, Ali Badreddine.....279

INSTRUCTION TO AUTHORS

Journal of the Black Sea/Mediterranean Environment (J. Black Sea/Mediterr. Environ.) is published trimesterly. The journal publishes original researches, review papers and short communications on marine environment, rivers and atmosphere. The aim and scope of Journal of the Black Sea/Mediterranean Environment is to publish stirring, high-quality science that addresses questions in pollution, marine biology, physical and chemical oceanography, marine geology and geophysics, maritime policy, biological conservation, coastal zone management and engineering. The papers submitted for publication must be unpublished and should contain data that have not previously been published elsewhere as a whole or in part. Review papers must provide a synthesis and critical evaluation of the state of knowledge of the subject. Manuscripts should be written in clear and concise English and conform to general style of the journal. Manuscript may be accepted for publication after the advice of two referees (double blind peer review process).

Manuscript should be typed single spaced with the format of journal as:

Page limit maximum 15 pages (with some exceptions such as review papers)

Page size 23.5×16 cm.

Margin bottom-top 2.5 cm, left-right 2.3 cm.

All text characters should be “Times New Roman”.

Title (13 pt, Bold) must be brief and should not exceed 10 words.

Author’s name(s) (11 pt, Bold) and ORCID ID(s)

Institutional address (9 pt, Normal)

Email address of the corresponding author

Abstract (9 pt, Normal) briefly describes the results and conclusion, less than 200 words.

Keywords (9 pt, Normal) maximum 6 words

Introduction, Materials and Methods, Result, Discussion (10 pt, Normal).

Acknowledgement (9 pt, Normal)

Turkish Summary for Turkish writers only (9 pt, Normal)

Tables and Figures in Arabic numerals must be saved within the text. They should be adjusted to fit the printed page size (see above).

Tables should be sent as a word document (not tiff or jpeg).

Figures should be 300 dpi resolution as tiff or jpeg format.

References in text should be cited as (Polikarpov 2007 or Polikarpov and Zaitsev 2000 or Polikarpov *et al.* 2007). (10 pt, Normal)

References with 21 or more authors: the first 20 authors’ names, *et al.* (year) ...

The title of the references should be in English but original language to be indicated. For example: Öztürk, B. (2006) Climate change - an ecological approach for Turkish Seas. *Science and Utopia* 139: 28-32 (in Turkish).

References to a journal publication

Author(s) name, year (in parenthesis), title of paper, journal name (italic), volume number, first and last page number of the paper.

Example

Ehrhardt, G.M., Burns, K.A. (1992) Hydrocarbons and related photo-oxidation products in Saudi Arabian Gulf coastal waters and hydrocarbons in underlying sediments and bioindicator bivalves. *Mar Poll Bull* 27: 187-197.

References to a book

Names and initial of all authors, year, title of the book, publisher, location of publisher.

Example

Golani, D., Öztürk, B., Başusta, N. (2006) The Fishes of the Eastern Mediterranean. Turkish Marine Research Foundation, Istanbul, Turkey.

References to a chapter in book

Names and initial of all authors, year, title of paper, title of the book (name of editor(s) in parenthesis), publisher, location of publisher, number of page.

Example

Galil, B.S. (2006) The Marine Caravan – The Suez Canal and the Erythrean Invasion. In: Bridging Divides Maritime Canals as Invasion Corridors, (eds., Gollasch, S., Galil, B.S., Cohen, A.N.), Springer, Netherlands, pp. 207-300.

References to a website

Names and initial of all authors, year, title of website, URL, the date when the author accessed for his/her publication.

Example

FAO. (2011) FAO fishery and aquaculture country profiles: Turkey. Available at http://www.fao.org/fishery/countrysector/FI_TR/en (accessed 10 Oct. 2011).

Submission of manuscript: Manuscript must be submitted online at www.blackmedjournal.org

Subscription: Yearly subscription rate including postal and handling is €50 for individual subscribers and €100 for institutional subscribers. Please contact tudav@tudav.org for subscription.

Cover photograph: Sea snout (mucilage) in the Marmara Sea, spring 2021

© Bayram ÖZTÜRK

Ethics: Publication Ethics and Publication Malpractice Statement are presented on the journal's website (www.blackmedjournal.org).

All rights reserved: Articles published in this Journal are under copyright protection. Such rights as arise from it are reserved, in particular those of translation, reprinting, public lecture, reproduction of illustrations and tables, radio and television transmission, microfilming or other methods of reproduction, including extract form. Duplicating, reproduction or distribution for commercial purpose of this journal or parts thereof is not permitted. The copying of individual articles or parts thereof is permitted only under the provisions of the Turkish Copyright Law. All published work is licensed under a Creative Commons Attribution 4.0 International License.

Disclaimer: The Publisher and Editors cannot be held responsible for errors or any consequences arising from the use of information contained in this journal; the views and opinions expressed do not necessarily reflect those of the Publisher and Editors.

Open Access Statement: Journal of the Black Sea / Mediterranean Environment is an open access journal which means that all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

Journal of the Black Sea / Mediterranean Environment does not charge any submission, processing and publication fee.

For Publication Ethics and Publication Malpractice Statement, please visit the website.