International Journal of Environment and Geoinformatics 11(1):050 (2024)

**Erratum Article**

# Corrigendum to “Pre-study of the evaluation of ecological sessile succession and their relationship with bacteria on concrete artificial reef material” (Gül and Ünsal, 2024)

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Received: 27.03.2024
Accepted 30.03.2024

**How to cite:** Çağlar Balkıs and Balcıoğlu İlhan (2024). Corrigendum to “Pre-study of the evaluation of ecological sessile succession and their relationship with bacteria on concrete artificial reef material” (Gül and Ünsal, 2024). *Journal of Environment and Geoinformatics (IJEGEO),* 11(1): 050. doi. 10.30897/ijegeo.1460015

## Abstract

There was a need to correct the errors in chemical oceanography in the findings of Gül and Ünsal's (2024) study, which was about the ecological succession on the concrete artificial reef material in the Heybeliada artificial reef area and its relationship with bacteria.

## Introduction

We, as the researchers responsible for the TUBITAK (The Scientific and Technological Research Council of Turkey) Project No. 121G102 "Determination of chemical (nutrient) properties of water" work package, and as the personal conductors of the chemical analyses (Gül and Ünsal, 2024 *references list*), would like to correct the inaccuracies listed below regarding the chemical data in the content of the mentioned article. Organize your manuscript as follows:

1. The sampling period is not clearly given in the details in the "Material and Method" section of the study conducted in Heybeliada, which is an artificial reef area. However, in the results section, data from the TUBITAK project report for the period between October 2021 and October 2022 were used. Since the sampling period is not given clearly, it is meaningless to use the results of physicochemical and nutrient analysis in the findings section for that region.
2. Within the scope of the data of the TUBITAK project numbered 121G102 stated by the authors on page 31, there is no "Heybeliada" artificial reef area among the artificial reef areas subject to research in the project report. Therefore, there are no findings from this region in the aforementioned project report. Therefore, the reference to the results of the analysis of the area in question is incorrect. This sampling area belongs to the project carried out in Kınalıada and Burgazada-Heybeliada artificial reef areas within the scope of the "Monitoring of Istanbul Artificial Reef Area" project of Istanbul Governorship Provincial Directorate of Agriculture and Forestry.
3. Although the values for NO2+NO3 and PO4 parameters given in Paragraph 2 of the Results section (Page 31) are numerically correct, their units are completely wrong. The use of existing units mentioned in the article leads to misinterpretation of the water quality of that region. The units of values for these two parameters are µM (MicroMolar), not "mg/L". This is a very significant error in scientific evaluations.
4. In Table 1 on page 32, where physicochemical and nutrient elements of the water environment at 20-meter depth are given, the units of some parameters are not given exactly. The units of values given in this context are ‰, µM, µM and µg/L for salinity, NO2+NO3, o- PO4 and Chlorophyll-a, respectively.
5. Similarly, the representation of PO4 as PO4-P among the parameters in Paragraph 2 of the findings section and Table 1 (page 32) is incorrect. This parameter was determined as inorganic phosphate and is represented as *o*-PO4.
6. A better understanding and correct interpretation of the situation identified in the study by potential readers interested in this study is only possible with the corrections given above.

## References

Gül, B., Unsal, T. (2024). Pre-study of the evaluation of ecological sessile succession and their relationship with bacteria on concrete artificial reef material. *International Journal of Environment and Geoinformatics*, 11(1), 30-35. doi.org/10.30897/ijegeo.1435748