

The Isopoda Species Found at the Coast of Bozcaada Island (NE Aegean Sea)*

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Abstract: The purpose of this study was to identify Isopoda (Crustacea) fauna at the coast of Bozcaada Island (NE Aegean Sea). Samples were collected at 20 stations in 2000 and 2001, from depths of 0-10 m, using dredges and scoop nets. Ten species were identified belonging to 4 families and 8 genera. Eight of these species were new records for the Isopoda fauna at the coast of Bozcaada Island.

Key Words: Isopoda, Crustacea, Bozcaada Island, Aegean Sea

Bozcaada Kıyılarında Bulunan Isopoda Türleri (KD Ege Denizi)

Özet: Bu çalışmanın amacı Bozcaada kıyılarının Isopoda (Crustacea) faunasını ortaya çıkarmaktır. Örnekler, 20 istasyondan, 2000 ve 2001 yıllarında, 0-10 m arasındaki derinliklerden, el keçesi ve direç kullanılarak toplanmıştır. Bu araştırma sonucunda 4 familya ve 8 cinse ait 10 tür belirlenmiştir. Bu türlerden 8'i Bozcaada kıyılarının Isopoda faunası için yeni kayıttır.

Anahtar Sözcükler: Isopoda, Crustacea, Bozcaada, Ege Denizi

Introduction

Bozcaada Island (lat 39°47'30"-39°50'90" N and long 25°57'80"- 26°05'00" E), which has an area of 42 km² and is nearly 5 km away from the mainland coast, is located in the lower part of the Aegean Sea and is between the Dardanelles Straits and Bababurnu.

In the Aegean Sea, there are three different water masses, namely surface water, an intermediate layer and deep water. The surface water is influenced by the Black Sea brackish water in the north and in the west along the coast of Greece. The salinity of this water is 26-35 psu. Intermediate water, characterised by a salinity maximum, is not distinguished on the shelf areas of the central and northern Aegean Sea, as a result of a vertical mixing process. The deep water mass of the Aegean Sea extends from a depth of approximately 300 m down to the bottom with a salinity of 38.8 psu (Yüce, 1995).

Geldiay and Kocataş (1970), Kocataş (1976, 1978) and Kırkım (1998) studied Isopoda species at the Aegean coast of Turkey.

The purpose of this study was to determine the Isopoda species living at the coast of Bozcaada Island.

Materials and Methods

The samples were collected in each season from different 20 stations during 2000 and 2001 (Figure). These samples were collected at depths of 0-10 m using dredges and scoop nets. The material was rinsed in wire sieves. The Isopoda species were separated and then fixed and preserved in 5% formaldehyde prepared in seawater. These species have been conserved in the Hydrobiological Museum of the Department of Biology, Faculty of Science, İstanbul University.

Result

Ten species belonging to 8 genera and 4 families were identified. The habitat and the numbers of the sampling stations at which the species were found are given below (Table).

Discussion

This study made it possible to determine a number of Isopoda species from 4 families at the coast of Bozcaada Island. Kırkım reported 61 Isopoda species from the

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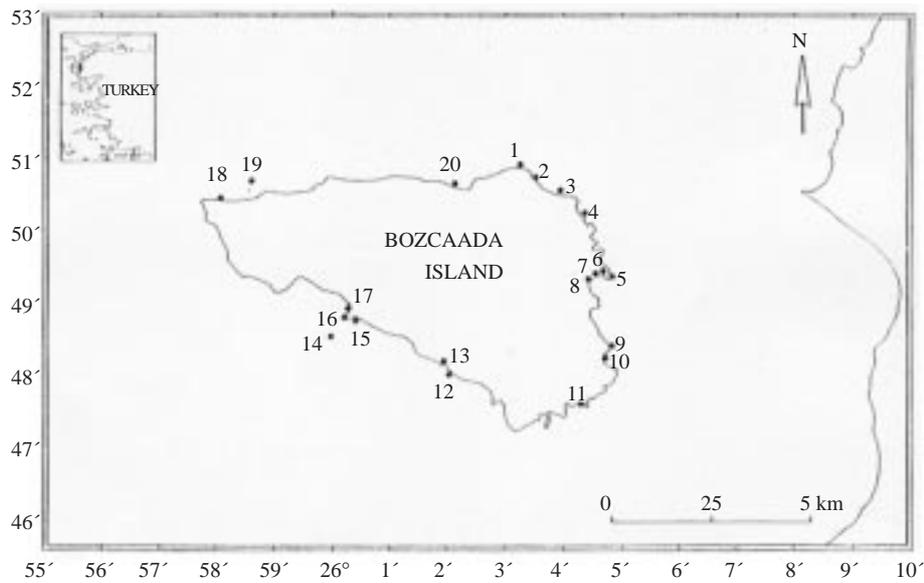


Figure. Map of the investigated area.

Table. List of each identified Isopoda species from Bozcaada Island.

Species	Station	Habitat
<i>Paranthura costana</i> Bate & Westwood, 1868	6, 7, 11, 12, 13, 14, 15, 16	algae and <i>Posidonia oceanica</i>
<i>Eurydice affinis</i> Hansen, 1905	10	algae
<i>Sphaeroma serratum</i> (Fabricius, 1787)	1, 2, 3, 7, 8, 9, 10, 15, 18	stone
<i>Cymodoce spinosa</i> (Risso, 1816)	1, 5, 6, 11, 13, 15, 16	algae
<i>Cymodoce hanseni</i> Dumay, 1970	10, 12, 14	<i>Posidonia oceanica</i>
<i>Dynamene torelliae</i> Holdich, 1968	1, 4, 6, 13	algae
<i>Idotea balthica basteri</i> Audouin, 1827	18, 20	algae
<i>Idotea hectica</i> (Pallas, 1772)	14, 19	algae
<i>Synisoma capito</i> (Rathke, 1837)	5, 6, 12, 13, 16, 18	algae
<i>Ligia italica</i> Fabricius, 1798	10, 17	rock

Turkish coast of the Aegean Sea. Of these, 5 species (*Paranthura costana* Bate & Westwood, 1868; *Eurydice pulchra* (Leach, 1815); *Cymodoce emarginata* (Leach, 1818); *C. hanseni* Dumay, 1970; and *Bopyrus squillarum* Latreillei, 1802) belonged to Bozcaada Island. In this study, 10 Isopoda species are reported from the coast of Bozcaada Island. The total number of determined Isopoda species was increased to 13 in the littoral of Bozcaada Island.

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