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ISTANBUL UNIVERSITY
FACULTY OF FISHERIES

Journal of Fisheries
&
Aquatic Sciences

Volume
Cilt 18

Number
Sayı 17

2004

ISSN 1018-1911

İSTANBUL ÜNİVERSİTESİ
SU ÜRÜNLERİ FAKÜLTESİ

SU ÜRÜNLERİ DERGİSİ
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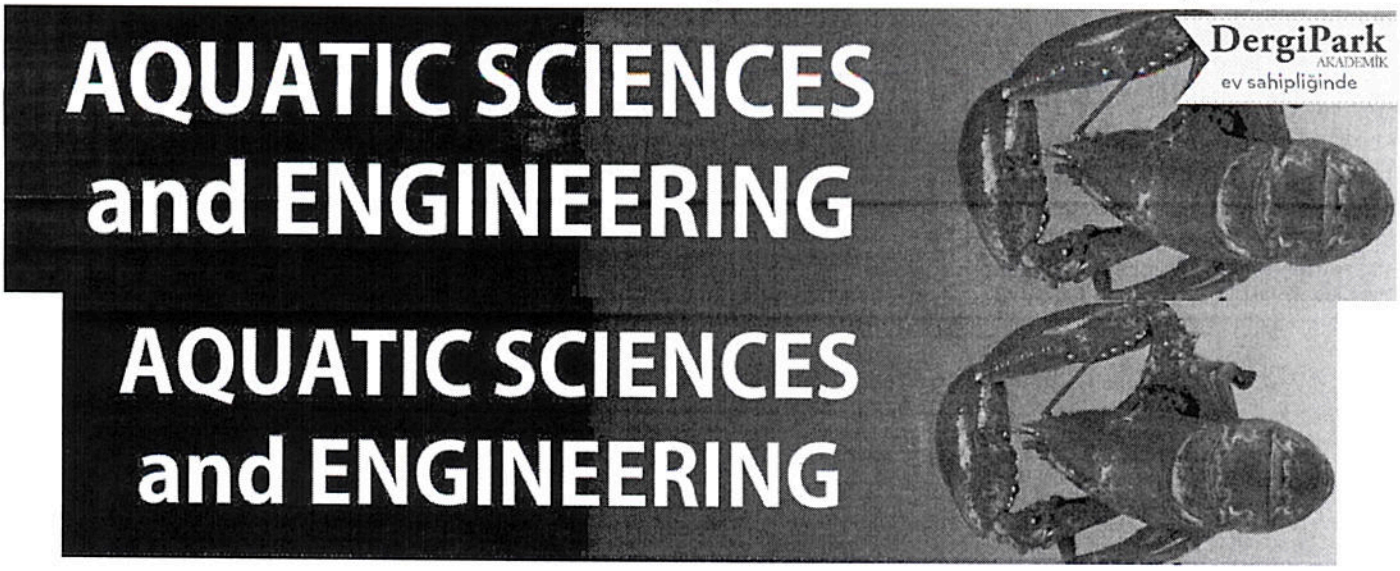

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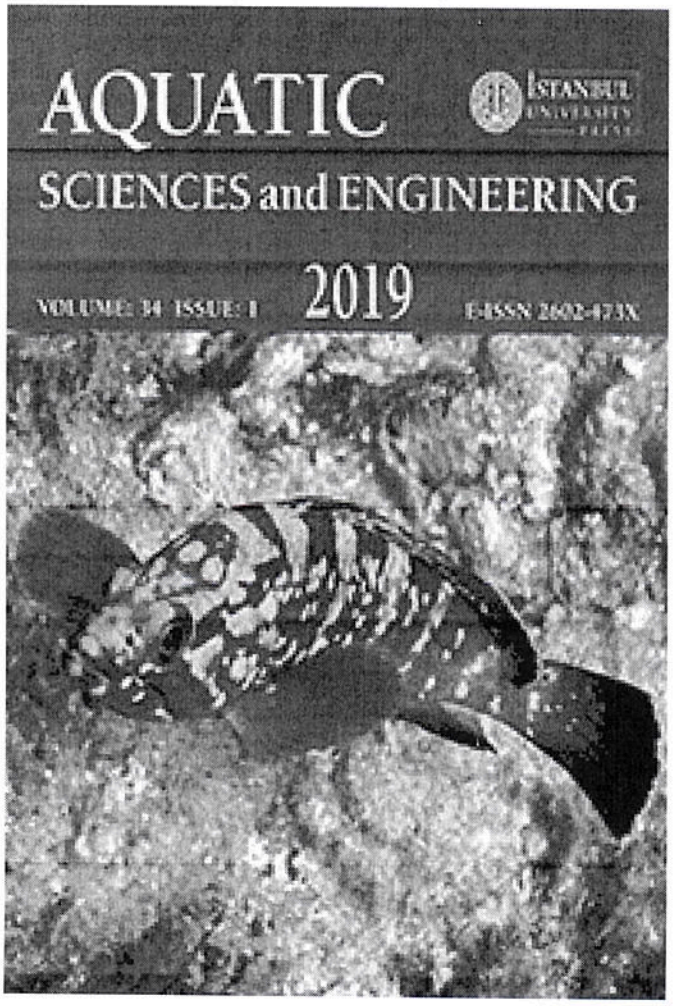

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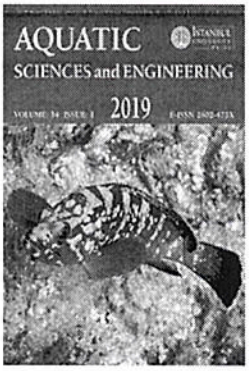

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Derginin Önceki Adı	ISSN	eISSN	Yıl
Turkish Journal of Aquatic Sciences	2149-9659	2528-9462	1987-2018

Emerging Sources Citation Index (ESCI)

TR Dizin

Clarivate Analytics-Zoological Record

DOAJ

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Istanbul Üniversitesi
Su Ürünleri Dergisi
(2003) 17:1-5

Istanbul University
Journal of Fisheries & Aquatic Sciences
(2003) 17:1-5

A NEW RECORDS OF *TORRENTICOLA* SPECIES (TORRENTICOLIDAE, ACARI) FROM THE BLACK SEA REGION TURKISH FAUNA

Davut TURAN [1] Hüseyin ŞAŞI [2] Muhlis ÖZKAN [3]

ABSTRACT

Abstract: In this study, *Torrenticola amplexa* (Koenike, 1908) which is the first recordes from Turkey in Değirmendere Stream (Trabzon). In this study, the morphological characters, measurements and drawings of various organs of this specimen was reported. Also, *Torrenticola duduchi* (Koch, 1837) has been introduced the second time which was reported earlier from Uzümlü Stream of Central Turkey.

Key Words: Acari, Torrenticolidae, *Torrenticola amplexa*, Description, Degirmendere

KARADENİZ BÖLGESİ'NDEN TÜRKİYE FAUNASI İÇİN YENİ BİR *TORRENTICOLA* TÜRÜ (TORRENTICOLIDAE, ACARI)

Özet: Bu çalışmada, Değirmendere (Trabzon)'den *Torrenticola amplexa* (Koenike, 1908) türü Türkiye için yeni bir kayıt olarak verilmektedir. Bu türe ait morfolojik özellikleri ve çeşitli organlarının orantılı ölçüleri ve çizimleri verilmiştir. Ayrıca, daha önceden Üzümlü Deresi (Konya)'nden bulunan *Torrenticola duduchi* (Koch, 1837) türü de ikinci kez tespit edilmiştir.

Anahtar Kelimeler: Acari, Torrenticolidae, *Torrenticola amplexa*, Tanımlama, Değirmendere

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[3] Atatürk Üniversitesi, Fen - Edebiyat Fak., Biyoloji Böl., Erzurum

INTRODUCTION

The genus *Torrenticola* is reported from standing and running water in widely scattered areas of the world. In to date, two species of *Torrenticola* have been recorded. The biology and structural features of some of the species in this genus have been reviewed elsewhere (Thon,1905; Viets, 1956a; 1966; Bader, 1980; Garcia-Valdecasas,1988; Özkan and Bader, 1988; Cicolani and Sabting, 1990). This paper is given to attract attention to the morphological an characteristics, zoogeographical distribution, and in the systematic of *Torrenticola amplexa* (Koenike, 1908) which is a new record for the Turkish fauna.

This study was conducted stream of Degirmendere in Trabzon province. The present paper reports a first record of specimen in the Black sea region. Also, We have found *Torrenticola duduchi* (Koch, 1837) in this stream belonging to the Torrenticolidae family, which was reported earlier from a different locality, Konya province, Uzümlü stream in Central Anatolia (Özkan ve Boyaci, 1992).

Torrenticolidae family have a Holoarctic distribution (Böttger, 1970; Cicolani and Sabting, 1990). A sample species have been collected from mudy, marshes and under gravel near the mouth of Degirmendere stream in Trabzon province, in the Black Sea Coast.

MATERYAL VE METOD

The specimens were collected, preserved and examined by methods given before (Viets, 1956a). Samples were collected seasonal in Degirmendere stream which is located in the Black Sea cost 450 m above sea level. In this study has been selected for invesion 7 stations. The specimen of *Torrenticola amplexa* was collected only from 6th station.

RESULTS

The physical and chemical parameters of this station have been shown in Table 1.

Table 1. Some phsical and chemical parameters of the station
Tablo 1. Istasyondaki bazi fiziksel ve kimyasal parametreler

Date of collection	Temp. (°C)	Oxygen (mg/l)	pH	$CaCO_3$ (mg/l)
15.02.98	4	12.2	6.8	38
14.04.98	11	8.7	6.9	43
15.07.98	19	7.8	6.9	45
20.10.98	11	11.0	6.5	50

Family : Torrenticolidae

Genus : *Torrenticola*

Species : *T. amplexa* (Koenike, 1908)

Female: This is a medium-sized water mite with the body generally round in shape (Fig. 1), 787/680 μm in size. The first dorsal plates found in the front part are depart from each other and from the others. The second dorsal plates are bigger and compound with dorsum. The main plate's formation center was sliped towards the posterior. The surface of All of the plates are smooth, but covered with small pits (Fig. 1-A).

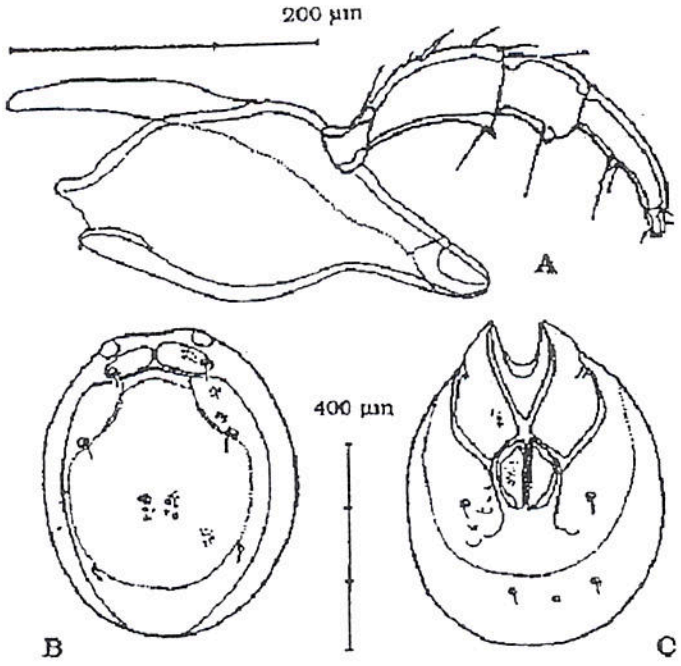

Figure 1. ***Torrenticola amplexa*****:** Female:
A) Gnathosoma B) Dorsal view C) Ventral view
Şekil 1. ***Torrenticola amplexa*****:** Dişi:
A) Gnathosoma B) Dorsal görünüm C) Ventral görünüm

Gnathosoma (=Capitulum) with a long rostrum possesses shinking infra capitulum (Fig. 1-A), bent downward and 267 μm in size; size of chelicerae is 307 μm; tip of cheliceral claw is 53 μm. Palpal segments are small and concava rarely on the the dot. Palp with delicate and setae on P-II, P-III, P-IV are important features. P-II has been inclined upward and short a bulge differently in the others (Fig. 1-A).

Distribution to the palpal segments of setae are; 1-5-2-5-2. Lengths of dorsal, ventral and heights of palpal segments; 33-97-57-90-17=294 μm, 23-53-47-27-17=167 μm and 37-53-47-27-17 μm, respectively.

Epimeric fields are 907-1680 μm in size. The female genital shield slide of arterior body part. Front of genital area coalesce line " V " shape (Fig. 1-C).

Lengths of leg segments as follow;

I. leg : 40-47-93-120-133-120 = 540 μm

II. leg : 40-67-93-120-133-120 = 573 μm

III. leg : 67-80-93-133-160-147 = 680 μm

IV. leg : 93-133-147-187-200-160 = 920 μm

Genital plates were 183μm in size; from the front part to the back part the genital area is 23-36-33-30-30-27 μm, repectively.

Habitat : Trabzon province, Değirmendere stream, altitude 500 m, under the stone and marshy bogs nearly in the stream.

Distribution : In previous studies, this species has been reported to be widely distributed in Europe, Germany, Denmark, Holland, Sweeden, Irish, France, Russia, Italy, Spain (Viets, 1956b; 1966; Garcia-Valdecasas,1988; Cicolani and Sabting, 1990; Boyaci, 1990).

It is a new record for the Turkish fauna. In previous studies, this species was reported to be widely distributed in Europe. Koenike (1905) described *T. amplexa* from Europe. In recent years it has been reported that this species was found, also, in Japan (Viets,1956b).

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