

On the Rotifera fauna of Inner Anatolia

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Abstract: The Rotifera fauna of ten different lakes in Central Anatolia was studied between April 1998 and October 1999 at monthly intervals. A total of 46 species in 20 genera was recorded, of which *Brachionus bidentata*, *B. leydigii*, *B. variabilis*, *Cephalodella plicata*, *C. gracilis*, *Elosa worallii*, *Erignatha sagittoides* and *Lecane rhenana* are new to the Turkish fauna.

Kurzfassung: Im Rahmen von monatlichen Aufsammlungen zwischen April 1998 und Oktober 1999 wurde die Rotiferenfauna von zehn verschiedenen Seen in Inneranatolien untersucht. Es wurden 46 Arten in 20 Gattungen festgestellt, von denen *Brachionus bidentata*, *B. leydigii*, *B. variabilis*, *Cephalodella plicata*, *C. gracilis*, *Elosa worallii*, *Erignatha sagittoides* und *Lecane rhenana* neu für die Türkei sind.

Key words: Rotifera, taxonomy, faunistics, Inner Anatolia, Turkey, Middle East.

Introduction

The Rotifer fauna of Turkey is little known. Previous studies include those by DADAY (1903) at Lake Apolyont and Lake İznik, VAVRA (1903), and ZEDERBAUER & BREHM (1907) at Sari Gölü. DUMONT & DE RIDDER (1987) identified 79 species from various localities in Turkey. A great deal of information is contained in recent studies by USTAOĞLU & BALIK (1987, 1990a, 1990b), USTAOĞLU (1986), EMIR (1990a, 1990b, 1991, 1996), SEGERS et al. (1992), DUMONT (1981), ALTINDAĞ & SÖZEN (1996), ALTINDAĞ (1999), and ALTINDAĞ & YİĞİT (1999). In the present study, the Rotifer species of ten different wetlands in Inner Anatolia are examined and their distribution discussed.

Material and methods

The samples were collected at monthly intervals between April 1998 and October 1999. A standard plankton net (mesh diameter 44 µm) was used. Rotifers were fixed in 4% formaldehyde. Identification was made using the keys of KOSTE (1978), KOLISKO (1974), SEGERS (1995), NOGRADY & POUPRIOT (1995), and DE SEMET (1996).

The following wetlands were studied: Hirfanlı Dam Lake: 39°10'N, 33°39'E; Tuz Gölü: 38°45'N, 33°22'E; Eşmekaya Marshes: 38°15'N, 33°28'E; Tersakan Gölü: 38°35'N, 33°06'E; Bolluk Gölü: 38°32'N, 32°56'E; Kulu Gölü: 39°05'N, 33°09'E; Kozanlı (Saz) Gölü: 39°01'N, 32° 50'E; Samsam Gölü: 39°06'N, 32°45'E; Çöl Gölü: 39°18'N, 32°54'E; Uyuz Gölü: 39°15'N, 32°57'E.