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The aquatic oligochaete fauna of Lake Çıldır, Ardahan-Kars, Turkey, including an updated checklist of freshwater annelids known to occur in the country

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Abstract

In this paper, we present the results of the first survey for aquatic oligochaetes in Lake Çıldır, northeastern Turkey, during which 22 oligochaete species were recorded from the lake. The results of this survey were integrated into an updated and annotated list of oligochaetes and other aquatic annelids occurring in the country, summarized from historical and recent publications. Currently, the freshwater annelid fauna of Turkey includes 150 species of oligochaetes (1 Crassiclitellata, 21 Enchytraeidae, 1 Propappidae, 1 Haplotaxidae, 4 Lumbriculidae, 56 Naidinae, 64 Tubificinae, 2 Lumbricidae), 1 species of Branchiobdellida, and 6 species of Aphanoneura (1 Potamodrilidae and 5 Aeolosomatidae). Although studies focusing on the aquatic oligochaete fauna of Turkey have increased over the past 15–20 years, species diversity still remains unclear.

Keywords: Checklist, Annelida, Oligochaeta, oligochaetes, Turkey, Lake Çıldır

Introduction

Three distinct biogeographical areas are present in Turkey: Anatolian, Mediterranean, the Black Sea regions, and their transition zones. The diverse climatic and geographical features often vary greatly—even within short distances—due to their location in the country (https://www.iucn.org/content/biodiversity-turkey). Surrounded by three seas, Turkey (783,356 km2 in area) is uniquely positioned geographically with its mountain ranges such that terrestrial, fresh water, and marine biodiversity is considerably high. The biological diversity of the country can be compared to that of a small continent. Its territory includes forests, mountains, steppes, wetlands, coastal and marine ecosystems as well as different forms and combinations of these systems, supporting considerable species diversity. The faunal biodiversity of Turkey is quite high compared to that of other countries in the temperate zone. Despite the lack of extensive data, invertebrates constitute the largest group among the identified living species. The total number of invertebrate species in Turkey is estimated to be ~19,000; of these, ~4,000 species / subspecies are considered to be endemic (International Union for Conservation of Nature 2018). In addition, Turkey is blessed with a diversity of lentic and lotic resources, including 107 major rivers and 25 river basins, more than 120 natural lakes, and 135 wetlands of international significance. The map of Earth's freshwater ecosystems, as published by The Nature Conservancy (2015), is based on the data regarding the distribution and composition of freshwater fish species. According to data presented therein, Turkey has eight different freshwater ecoregions, but as previously stated, these regions are categorized based on their fish, amphibian and reptile species. Therefore in this study, the inland water categorization published by Timm (1980) was used for freshwater oligochaete species. Inland waters have been categorized into six different zoogeographical regions; Turkey is located entirely within the Holoarctic region. Timm (1980) divided the Holoarctic region into six subregions on the basis of the distribution of oligochaetes: Euro-Siberian, West Balkan, Ponto-Caspian (brackish water), east Siberian, Pacific, and Atlantic. Turkey is located within the Ponto-Caspian region.

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The Oligochaeta is a large group of annelid worms that inhabit terrestrial, freshwater and marine environments. While earthworms (Crassiclitellata and Moniligastridae) and enchytraeids (Enchytraeidae) are mainly terrestrial, taxa in the other 14 families are predominantly aquatic (Timm 2017). Timm (1980) reported that 700 limicolous and 100 true marine oligochaete species are known worldwide. However, this number has greatly increased because of other recent studies (e.g., Erséus 1979; Timm 1980; Erséus 1981; Dumnicka 1983; Erséus 1984; Brinkhurst *et al.* 1994; Erséus 1997; Arslan *et al.* 2006; Matamoros *et al.* 2007; Timm 2013; Arslan *et al.* 2018). Timm (2017) published an annoted catalogue, which included 1081 new nominal taxa and 372 new combinations or names with new ranks of available scientific names given to the oligochaetes in freshwater and marine families that were described since the publication of the monograph by Brinkhurst & Jamieson (1971) and its supplement (Brinkhurst & Wetzel 1984).

Although studies on the aquatic oligochaete fauna of Turkey have increased over the last 20+ years, the diversity of oligochaete species still remains unclear. To date, one branchiobdellidan, 150 oligochaete and six aphanoneuran species have been reported. Although several scientists have described new taxa from Turkey, this number is undoubtedly lower than estimated. The reason is that Turkey is the only country covering almost entirely 3 out of 34 global biodiversity hotspots (Caucasus, Irano-Anatolian, and Mediterranean). Their geographical locations, with mountains acting as an isolation barrier for aquatic organisms as well the characteristics of its peninsulas, support a high biodiversity. In Turkey, there are numerous disconnected rivers, and lakes are commonly separated from each other by mountains. One of those lakes is Lake Çıldır, located in the northern part of East Anatolia. In recent years, several studies have focused on the freshwater oligochaetes of the Turkish lakes and rivers, but to date no study has focused specifically on the oligochaete fauna of Lake Çıldır.

In this paper, we discuss the oligochaete fauna of Lake Çıldır in northeastern Turkey based on our recent survey, then we present an updated list of freshwater annelid species that have been recorded from the country, including distributional information and citations for papers in which those species were presented.

Material and Methods

Study area

Lake Çıldır (41° 04' N, 43° 12' E) is located in northeastern part of Turkey. It's a large freshwater lake between Kars and Ardahan provinces (Figure 1). The surface area of the Lake is 124 km^2 and has a maximum depth of around 40 m (Alkan *et al.* 2016). Its altitude is 1959 m. The surface of the lake is ice-covered for approximately 6–7 months. Lake Çıldır has IBA (important bird area) and IPA (important plant area) status due to the fact that it is home to two rare birds—the Ruddy shelduck (*Tadorna ferruginea* (Pallas)) and the Armenian gull (*Larus armenicus* Buturlin), and three rare plants—*Carex limosa* (Linnaeus), *Potamogeton alpinus* (Balbis), *Scholochloa festucacea* (Willd.), and *Sparganium minimum* Wallr.

Sampling

In this present study, 116 oligochaete specimens were collected from the lake between July–August 2017 using hand net or Ekman grab sampler (with coverage of 225 cm^2), one haul per station. In addition, some physico-chemical parameters of surface water were measured *in situ* by using Hach Lange HQ40D. After the samples were processed in the field using a series of sieves with decreasing mesh sizes, specimens were extracted from raw samples in lab, under a dissecting microscope, and transferred to 70% ethyl alcohol. Specimens were prepared for the identification either in glycerin or polyvinyl lactophenol. Taxonomic identifications of oligochaetes followed the keys and species diagnoses presented in Brinkhurst and Jamieson (1971), Brinkhurst and Wetzel (1984), Sperber (1948, 1950), Kathman and Brinkhurst (1998) and Timm (1999).

Literature review: aquatic Oligochaetes and other annelids occuring in Turkey

The first study on the freshwater oligochaete fauna of Turkey was published by Sperber (Sperber 1958). Martínez-Ansemil & Giani (1987) indicated that the occurrence of *Limnodrilus hoffmeisteri* Claparède in Turkey was mentioned in Naidu (Naidu 1965). Since 1949, several Turkish scientists have contributed to the knowledge of the aquatic oligochaetes of Turkey.

We completed an extensive review of historical and recent literature focusing on studies of aquatic fauna

in Turkey, specifically those including freshwater oligochaetes and other annelids. Distributional and habitat information for these species as presented in those publications has been summarized and is presented in the Appendix. The list of oligochaetes in the Appendix does not include records or other information discussed in unpublished MSc and PhD theses, nor those pertinent to soil forms (e.g., Lumbricidae and Enchytraeidae). However, species considered to be primarily terrestrial, but are occasionally collected from semi-aquatic habitats have been included in the Appendix. The primary focus of this study was to evaluate the oligochaete fauna of Lake Çıldır, which had no previous studies on Annelida fauna, and to then integrate the results of that study to compile an updated list of oligochaete species that had been presented in historical as well as recent publications.

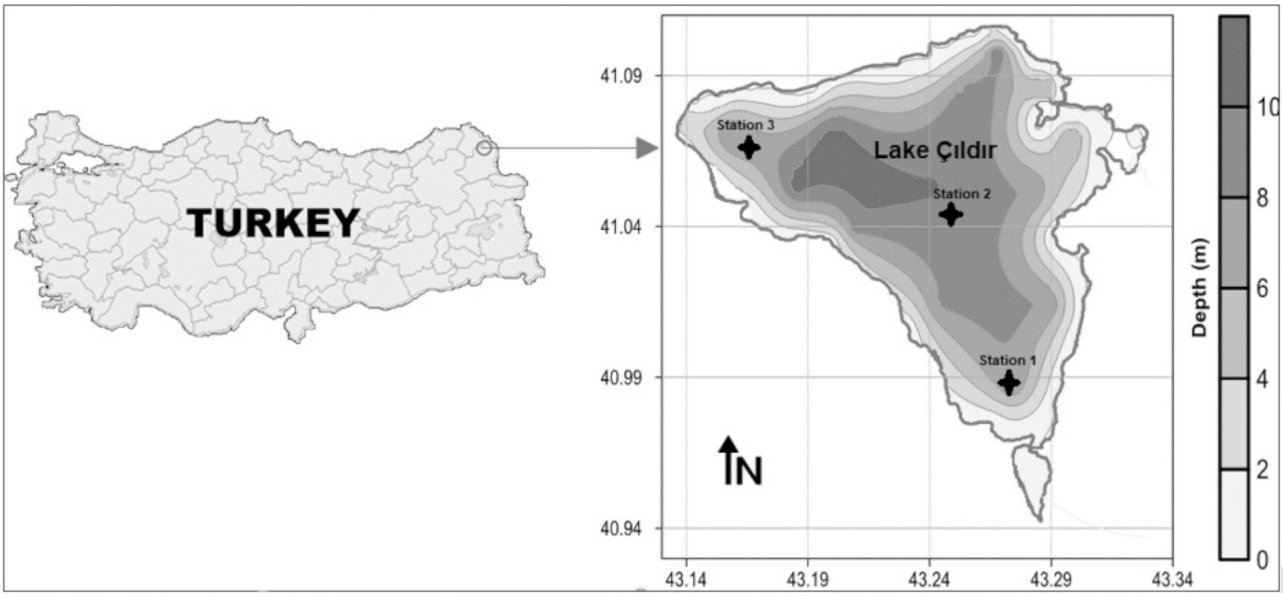

FIGURE 1: Geographical position of Lake Çıldır in Turkey, with location of sampling points (this map was modified from Alkan *et al.* 2016).

Results and Conclusions

The Oligochaete fauna of Lake Çıldır

In the present study, a total of 22 oligochaete species were identified from Lake Çıldır. All identified species are new records for Lake Çıldır (Table 1). Although oligochaete species identified in this study were reported several times from different parts of Turkey, four species—*Chaetogaster diastrophus* (Gruithuisen), *Uncinais uncinata* (Ørsted), *Spirosperma velutinus* (Grube) and *Stylodrilus parvus* (Hrabě & Cernosvitov)—were reported from only a few locations (see Appendix). Two other species, *Peipsidrilus libanus* (Giani *et al.*) and *Tubifex acuticularis* Martínez-Ansemil & Giani, first described as new to science from Lebanon by Giani *et al.* (1982) and Martínez-Ansemil & Giani (1983), are reported herein from Turkey for only the second time. Arslan *et al*. (2007) had previously collected each of these two species from Göksu River (Balıkdamı wetland). These two species were recorded during this present study from Lake Çıldır (Turkey), suggesting that *Tubifex acuticularis* and *Peipsidrilus libanus* may have a wider distribution in the Near East.

Remarks on two oligochaete taxa occurring in Lake Çıldır

***Tubifex* sp.:** Specimen length 5.3–9.8 mm, genital segments in X–XI. Segment number 42–63. Prostomium not obtuse and clitellum inconspicuous, no coelomocytes. In dorsal bundles 2–4 hair seta and 3–4 pectinate seta, upper and lower toot equal. Hair chaetae smooth anteriorly but slightly serrate posteriorly. Ventral bundles contain bifid chaetae, 4–5 per bundle (anteriorly), 2–3 (posteriorly). Male genitalia paired in X–XI,

vas deferens longer than atrium. Atrium comma shaped. In segment X, testes paired, ovaries in XI, spermatozeugmata present.

This species is similar to *Tubifex blanchardi* Vejdovský form (Holmquist 1983; Marotta *et al.* 2014), but it has a few different structures. In this study this specimen was listed as *Tubifex* sp. since the exact species identification will be done following the DNA analysis.

***Potamothrix alatus* Finogenova:** Among the identified oligochaete species in the Lake Çıldır, another interesting species is *Potamothrix alatus* whose taxonomic status based on specimens collected during this study is still uncertain. Several morphological features of the *P. alatus* specimens collected from Lake Çıldır are similar to two previously described subspecies (*P. alatus paravanicus* Poddubnaja & Pataridze and *P. alatus hazaricus* Timm & Arslan) yet have different morphological characteristics from these two subspecies. This taxon is listed as *P. alatus* for this study; we hope that DNA sequencing will determine whether specimens of this taxon collected during this study are identical to *P. alatus paravanicus* or *P. alatus hazaricus* or represent a separate subspecies. *Potamothrix a. paravanicus* was identified as a different species from Lakes Paravani, Sagamo and Sevan. However, it was then revised as a subspecies of *P. alatus* (Poddubnaja & Pataridze 1989; Finogenova & Poddubnaja 1990). *Potamothrix alatus hazaricus* was described in Lake Hazar (Arslan *et al.* 2013), which is close to Lake Çıldır. *Potamothrix alatus hazaricus* differs morphologically from *P. a. paravanicus*, the former has a different structure with lateral wings in the genital region of the body. The genital segments of *P. a. hazaricus* X–XI almost always have large, lateral wing-like protrusions. These "wings" start anteriorly in the dorsolateral part of X and continue in XI (Arslan *et al.* 2013), while lateral wing-like protrusions of *P. alatus*, a morphology observed on specimens collected from sites Çıldır Lake sites, are only present in XI and not as large or as wide as those observed on *P. a. hazaricus* specimens. The differences of *P. alatus* in Lake Çıldır were not only in the genital region, but also in the hair, pectinate and ventral chaetae that were located in the ventral and dorsal bundles. Nuclear TSI and mitochondrial COI analyses appear to be a prerequisite for them to be defined as a different subspecies.

TABLE 1. Composition of oligochaete species and some environmental parameters for 3 sampling points in Lake Çıldır during the research period (July–August 2017). Numerals across the species show the individual number of oligochaete species collected.

	Parameters	**Sampling sites**		
		1	**2**	**3**
	Latitude and longitude coordinates	40º 59’28.83’’N 43º 56’16.72’’E	41º 02’38.92’’N 43º 15’46.57’’E	41º 03’45.62’’N 43º 10’12.96’’E
	Hydrogen Ion Concentration (as pH)	7.8	8.2	8.1
	Dissolved oxygen (mg l^{-1})	7.6	8.7	9.3
	Depth (m)	3	12	5
	Surface water temperature (°C)	18	20	19
	Oligochaeta species			
	Naidinae			
1	*Chaetogaster diastrophus* (Gruithuisen, 1828)	4	-	1
2	*Paranais frici* Hrabě, 1941	2	1	-
3	*Uncinais uncinata* (Ørsted, 1842)	25	32	54
4	*Stylaria lacustris* (Linnaeus, 1767)	4	15	7
5	*Nais elinguis* Müller, 1773	2	5	3
6	*Nais communis* Piguet, 1906	-	1	4
7	*Nais variabilis* Piguet, 1906	2	-	-
8	*Nais pardalis* Piguet, 1906	3	-	4
9	*Nais simplex* Piguet, 1906	2	-	-

...Continued on the next page

TABLE 1. (Continued)

	Parameters	Sampling sites		
		1	**2**	**3**
	Tubificinae			
10	*Tubifex tubifex* (Müller, 1774)	3	5	2
11	*Tubifex* sp.	2	4	-
12	*Tubifex acuticularis* Martínez-Ansemil & Giani, 1983	3	2	-
13	*Peipsidrilus libanus* (Giani *et al.*, 1982)	-	-	4
14	*Limnodrilus hoffmeisteri* Claparède, 1862	6	2	-
15	*Spirosperma velutinus* (Grube, 1879)	2	-	-
16	*Haber speciosus* (Hrabě, 1931)	-	-	4
17	*Potamothrix hammoniensis* (Michaelsen, 1901)	3	-	3
18	*Potamothrix bavaricus* (Oschmann, 1913)	-	2	-
19	*Potamothrix alatus* Finogenova, 1972	2	1	2
20	*Psammoryctides albicola* (Michaelsen, 1901)	2	-	-
	Lumbriculidae			
21	*Stylodrilus parvus* (Hrabě & Černosvitov, 1927)	4	-	-
	Enchytraeidae			
22	*Enchytraeus albidus* (Henle, 1837)	2	-	-

Checklist of Turkish fauna

In summarizing the data presented in the publications annotated in Appendix and complimented by the survey of oligochaete species recently collected from Lake Çıldır (Table 1), 150 oligochaete, 1 branchiobdellidan and 6 aphanoneuran species are now known to occur in Turkey. Several scientists have described new taxa from Turkey, yet we believe additional taxa, including as yet undescribed species, have yet to be discovered in the country, which certainly could include one or more cosmopolitan species. According to the distribution charts prepared by Timm (Timm 1980), it can be emphasized that among these 157 freshwater annelid species recorded from Turkey, 23 species—*Aeolosoma variegatum* Vejdovský, *Slavina appendiculata* (D'Udekem), *Dero digitata* (Müller), *Dero furcatus* (Müller), *Dero obtusa* (d'Udekem), *Nais elinguis, Nais communis, Nais variabilis, Chaetogaster limnaei* von Baer, *Chaetogaster langi* Bretscher, *Pristina longiseta* Ehrenberg, *Pristina aequiseta* Bourne, *Pristina jenkinae* (Stephenson), *Pristina proboscidea* Beddard, *Tubifex tubifex, Limnodrilus hoffmeisteri, Limnodrilus udekemianus* Claparède, *Limnodrilus claparedeanus* Ratzel, *Rhyacodrilus coccineus* (Vejdovský), *Aulodrilus pigueti* Kowalewski, *Aulodrilus limnobius* Bretscher, *Lumbriculus variegatus* (Müller), and *Eiseniella tetraedra* (Savigny)—have cosmopolitan or wide distribution. Apart from these, *Chaetogaster diastrophus, Nais elinguis, Allonais pectinata* (Stephenson), and *Aulodrilus pluriseta* (Piguet) were also considered to be cosmopolitan species by Spencer (Spencer 1980). All of these species had previously been recorded from different areas in Turkey. In addition, many European species (e.g., *Paranais frici, Potamothrix hammoniensis, Ophidonais serpentina* (Müller), and *Vejdovskyella comata* (Vejdovský)) and transholarctic species (e.g., *Stylaria lacustris, Uncinais uncinata, Chaetogaster diaphanus, Limnodrilus profundicola* (Verrill)) were recorded from Turkey several times by different authors (see Appendix). These transholarctic species have also been reported from the Sino-Indian region (Timm 1980). Eight species (*Paranais litoralis* (Müller), *Paranais frici, Nais simplex, Nais pseudobtusa* Piguet, *Vejdovskyella comata, Tubifex ignotus* (Stolc), *Ilyodrilus templetoni* (Southern), and *Bothrioneurum vejdovskyanum* (Štolc) have been recorded as being Holarctic, yet their known distribution includes the Ethiopian region (Spencer 1980). These eight species were also recorded in Turkey. Several oligochaete species occurring in Turkey show similarities to the communities in neighboring regions.

The uniqueness of Turkey with respect to its mountainous regions act as an isolation barrier for aquatic

organisms, and the characteristics of its peninsulas have contributed to the country's in high biodiversity. There are numerous disconnected rivers in the country, and lakes are separated from one another by mountains, including Lake Çıldır, which is located in the northern part of East Anatolia. Surveys of new as well as understudied aquatic and semi-aquatic habitats in Turkey will certainly result in the discovery of new distributional records and, as well, new species to science.

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Appendix. List of Aphanoneura, Branchiobdellida and Oligochaeta species reported from different aquatic systems of Turkey, including the results of this present study in Lake Çıldır (abbreviations used in this Appendix–S.: stream, L.: lake, R.: river, DL: Dam lake, TML: Taurus Mountains's lake, WBSL: West Black Sea Lakes, GL: Glasier Lake, CW: Coastal Wetland, EBSL: Eastern Black Sea Lakes; EHEBSL: Eastern High Elevation Black Sea Lakes, TTRR: Thrace Region Rivers).

	Taxa	**Literature data**
Phylum	**Annelida**	
Subclass	**Branchiobdellida**	
Order	**Branchiobdellida**	
1	*Branchiobdella kozarovi* Subchev, 1978	Yenikarpuzlu Pond- Edirne (Odabaşı *et al.* 2016);
Subclass	**Oligochaeta**	
Order	**Crassiclitellata**	
Family	**Criodrilidae**	
2	*Criodrilus lacuum* Hoffmeister, 1845	Emir L. (Geldiay, 1949);
Order	**Enchytraeida**	
Family	**Enchytraeidae**	
3	*Achaeta* sp.	Balıkdamı Wetland (Arslan *et al.* 2006);
4	*Cognettia sphagnetorum* (Vejdovský, 1878)	EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Tunca R. (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005);
5	*Cognettia glandulosa* (Michaelsen, 1889)	EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Tunca R (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005);
6	*Cognettia* sp.	TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005);
7	*Enchytraeus polatdemiri* Arslan & Timm, 2018	Van L. (Arslan *et al.* 2018);
8	*Enchytraeus albidus* (Henle, 1837)	Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Çıldır L. (Arslan & Mercan present study);
9	*Enchytraeus buchholzi* Vejdovský, 1879	Localities? (Pop 1974); Işıklı L. (Balık *et al.* 2000); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005);
10	*Enchytraeus coronatus* Nielsen and Christensen, 1959	Yuvarlak R. (Yıldız *et al.* 2007b);

...Continued on the next page

	Taxa	Literature data
Phylum	**Annelida**	
11	*Enchytraeus* sp.	Locality? (Pop 1974); Gölcük L. (Geldiay & Tareen 1972); Buldan L. (Ustaoğlu *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005);
12	*Frederica* sp.	Ankara S. (Moubayed *et al.* 1987); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005); Denizli mountain lakes (Yıldız & Ustaoğlu 2016);
13	*Henlea ventriculosa* (d'Udekem, 1854)	Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); EBSL (Yıldız *et al.* 2010b); Tigris R. (Zeybek *et al.* 2016);
14	*Henlea nasuta* (Eisen, 1878)	Lake District Region (Yıldız & Balık 2005); Tigris R. (Zeybek *et al.* 2016);
15	*Henlea perpusilla* Friend, 1911	EBSL (Yıldız *et al.* 2010b); TTRR (Taş *et al.* 2012); Karagöl L. (Topkara *et al.* 2018); Tunca R. (Çamur-Elipek *et al.* 2006); Tunca R. (Kırgız *et al.* 2005);
16	*Henlea* sp.	EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012);
17	*Lumbricillus lineatus* (Müller, 1774)	Gediz Delta (Balık *et al.* 2004);
18	*Lumbricillus tuba* Stephenson, 1911	Gediz Delta (Balık *et al.* 2004);
19	*Lumbricillus* sp.	TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006);
20	*Marionina argentea* (Michaelsen, 1889)	Specific locality information not included in publication (Pop 1974);
21	*Marionina triplex* Matamoros, Yıldız & Erséus, 2007	Sinop (Matamoros *et al.* 2007);
22	*Mesenchytraeus armatus* Levinsen, 1884	Lake District Region (Yıldız & Balık 2005); EBSL (Yıldız *et al.* 2010); EHEBSL (Yıldız *et al.* 2012);
23	*Mesenchytraeus* sp.	Yuvarlak R. (Yıldız *et al.* 2007b); EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012); Tigris R. (Zeybek *et al.* 2016);
Family	**Propappidae**	
24	*Propappus volki* Michaelsen, 1916	Tunca R. (Kırgız *et al.* 2005); Tunca R. (Çamur-Elipek *et al.* 2006); TTRR (Taş *et al.* 2012);
Family	**Haplotaxidae**	
25	*Haplotaxis gordioides (Hartmann, 1821)*	Antakya (Omedeo 1987); Ankara S. (Kazancı & Girgin 1998); Lake District Region (Yıldız & Balık 2005); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Porsuk R. (Arslan & İlhan 2010);
Order	**Lumbriculida**	
Family	**Lumbriculidae**	
26	*Lumbriculus variegatus* (Müller, 1774)	Işıklı L. (Balık *et al.* 2000); Kelkit S. (Duran *et al.* 2003); Lake District Region (Yıldız & Balık 2005); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); İkizgöl (Yıldız *et al.* 2009); Eğirdir L. (Arslan 2006); Musaözü DL (Arslan *et al.* 2007); Porsuk R. (Arslan & İlhan 2010);
27	*Lumbriculus* sp.	Gölcük L. (Geldiay & Tareen 1972); Karamuk L. (Anonymous 1993); Eğirdir; Bafa and Eber L.; Büyük Menderes Delta (Kazancı *et al.* 2000);
28	*Trichodrilus* sp.	Balıkdamı Wetland (Arslan *et al.* 2006); Uluabat L. (Kökmen *et al.* 2007);

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	Taxa	Literature data
Phylum	**Annelida**	
29	*Rhynchelmis* sp.	Porsuk R. (Arslan & İlhan 2010);
Family	**Naidinae**	
30	*Allonais pectinata* (Stephenson, 1910)	Sakarya R. (Arslan & Şahin 2004);
31	*Allonais gwaliorensis* (Stephenson, 1910)	Sakarya R. (Arslan & Şahin 2004); Yuvarlak R. (Yıldız *et al.* 2007b);
32	*Amphichaeta leydigii* Tauber, 1879	Gediz Delta (Balık *et al.* 2004); Buldan L. (Ustaoğlu *et al.* 2004);
33	*Amphichaeta sannio* Kallstenius, 1892	Gediz Delta (Balık *et al.* 2004);
34	*Chaetogaster diaphanus* (Gruithuisen, 1828)	Işıklı L. (Balık *et al.* 2000); Sakarya R. (Arslan & Şahin 2004); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007); EHEBSL (Yıldız *et al.* 2012); Aksu R. (Çapraz & Arslan 2005); Porsuk R. (Arslan & İlhan 2010);
35	*Chaetogaster diastrophus* (Gruithuisen, 1828)	Yuvarlak R. (Yıldız *et al.* 2007b); Balıkdamı Wetland (Arslan *et al.* 2006); Sazlıdere S. (Taş *et al.* 2011); Çıldır L. (Arslan & Mercan present study);
36	*Chaetogaster langi* Bretscher, 1896	Sakarya R. (Arslan & Şahin 2004);
37	*Chaetogaster limnaei* von Baer, 1827	Gölcük L. (Geldiay & Tareen 1972);
38	*Chaetogaster limnaei limnaei* von Baer, 1827	Tuzla S. (Odabaşı *et al.* 2015);
39	*Chaetogaster* sp.	EHEBSL (Yıldız *et al.* 2012);
40	*Dero borelli* Michaelsen, 1900	Sakarya R. (Arslan & Şahin 2004);
41	*Dero dorsalis* Ferroinére, 1899	Sazlıgöl L. (Balık *et al.* 2001); İkizgöl (Yıldız *et al.* 2009); Ceyhan River Basin Lakes (Fındık & Aras 2016);
42	*Dero digitata* (Müller, 1773)	Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Topçam DL (Yıldız & Balık 2006); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Gölcük L. (Yıldız *et al.* 2015); Akgöl L. (Yıldız *et al.* 2009); İkizgöl (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R. (Taş *et al.* 2008); Menderes R. (Akbulut *et al.* 2009); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016);
43	*Dero furcatus* (Müller, 1774)	Sakarya R. (Arslan & Şahin 2004); Buldan L. (Ustaoğlu *et al.* 2004); TTRR (Taş *et al.* 2012); Aksu R. (Çapraz & Arslan 2005); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Ceyhan River Basin Lakes (Fındık & Aras 2016);
44	*Dero obtusa* d'Udekem, 1855	Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Topçam DL (Yıldız & Balık 2006); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Çorlu R. (Taş *et al.* 2008); Euphrates R. (Aras & Fındık 2016);

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	Taxa	Literature data
Phylum	**Annelida**	
45	*Homochaeta naidina* Bretscher, 1896	Gediz S. (Balık *et al.* 1999); Işıklı L. (Balık *et al.* 2000); Gediz Delta (Balık *et al.* 2004);
46	*Homochaeta setosa* (Moszynski, 1933)	Gediz Delta (Balık *et al.* 2004);
47	*Nais alpina* Sperber, 1948	Yuvarlak R. (Yıldız *et al.* 2007b);
48	*Nais barbata* Müller, 1773	Sakarya R. (Arslan & Şahin 2004); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Tigris R. (Zeybek *et al.* 2016); Kovada L. (Arslan & Şahin 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Küçük Menderes R. (Arslan *et al.* 2016);
49	*Nais behningi* Michaelsen, 1923	Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Tigris R. (Zeybek *et al.* 2016);
50	*Nais bretscheri* Michaelsen, 1899	Sakarya R. (Arslan & Şahin 2004); Gümüş S. (Öntürk & Arslan 2003); Yuvarlak R. (Yıldız *et al.* 2007b); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Eğirdir L. (Arslan 2006); Musaözü DL (Arslan *et al.* 2007); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011);
51	*Nais communis* Piguet, 1906	Sakarya R. (Arslan & Şahin 2004); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Sapanca L. (Şahin & Yıldız 2011); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Gala L. (Çamur-Elipek *et al.* 2010); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
52	*Nais christinae* Kasprzak, 1973	Gümüldür R. (Yıldız & Balık 2010);
53	*Nais elinguis* Müller, 1773	Ankara S. (Moubayed *et al.* 1987); Sakarya R. (Arslan & Şahin 2004); Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R. (Taş *et al.* 2008); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016); Çıldır L. (Arslan & Mercan present study);

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	Taxa	Literature data
Phylum	**Annelida**	
54	*Nais pardalis* Piguet, 1906	Sivas (Sperber 1958); Sakarya R. (Polatdemir Arslan & Şahin 2003); Gümüş S. (Öntürk & Arslan 2003); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Adıgüzel DL (Özbek *et al.* 2016); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Porsuk R. (Arslan & İlhan 2010); Küçük Menderes R. (Arslan *et al.* 2016); Çıldır L. (Arslan & Mercan present study);
55	*Nais pseudobtusa* Piguet, 1906	Sakarya R. (Arslan & Şahin 2004); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); Tigris R. (Zeybek *et al.* 2016); Balıkdamı Wetland (Arslan *et al.* 2006); Porsuk R. (Arslan & İlhan 2010);
56	*Nais simplex* Piguet, 1906	Sakarya R. (Arslan & Şahin 2004); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); Tigris R. (Zeybek *et al.* 2016); Balıkdamı Wetland (Arslan *et al.* 2006); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
57	*Nais stolci* Hrabě, 1981	Tigris R. (Yıldız & Ahıska 2010);
58	*Nais variabilis* Piguet, 1906	Ayva keuy? (Sperber 1958); Sakarya R. (Polatdemir Arslan & Şahin 2003); Gümüş S. (Öntürk & Arslan 2003); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); TTRR (Taş *et al.* 2012); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Gala L. (Çamur-Elipek *et al.* 2010); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Çıldır L. (Arslan & Mercan present study);
59	*Nais* sp.	Gölcük L. (Geldiay & Tareen 1972); Ankara S. (Kazancı & Girgin 1998); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); Ceyhan River Basin Lakes (Fındık & Aras 2016);
60	*Ophidonais serpentina* (Müller, 1773)	Afchin? (Sperber 1958); Gölcük L. (Geldiay & Tareen 1972); Tigris basin and West of Ceyhan channel (Moubayed *et al.* 1987); Sakarya R. (Polatdemir Arslan & Şahin 2003); Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012) ; Tigris R. (Zeybek *et al.* 2016); Kovada L. (Arslan & Şahin 2006); Eğirdir L. (Arslan 2006); Musaözü DL (Arslan *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R (Taş *et al.* 2008); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Büyük Akgöl L. (Arslan *et al.* 2018);

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	Taxa	Literature data
Phylum	**Annelida**	
61	*Paranais botniensis* Sperber, 1948	Gediz Delta (Balık *et al.* 2004); Yuvarlak R. (Yıldız *et al.* 2007b);
62	*Paranais frici* Hrabě, 1941	Sakarya R. (Arslan & Şahin 2004); Gümüş S. (Öntürk & Arslan 2003); Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); TTRR (Taş *et al.* 2012); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Uluabat L. (Kökmen *et al.* 2007); Menderes R. (Akbulut *et al.* 2009); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Çıldır L. (Arslan & Mercan present study);
63	*Paranais litoralis* (Müller, 1784)	Gediz Delta (Balık *et al.* 2004); Yuvarlak R. (Yıldız *et al.* 2007b);
64	*Paranais simplex* (Hrabě, 1936)	Gediz Delta (Balık *et al.* 2004);
65	*Piguetiella blanci* Piguet, 1906	Gediz Delta (Balık *et al.* 2004);
66	*Pristina aequiseta* Bourne, 1891	Sakarya R. (Polatdemir Arslan & Şahin 2003); Yuvarlak R. (Yıldız *et al.* 2007b); Tigris R. (Zeybek *et al.* 2016); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Uluabat L. (Kökmen *et al.* 2007); Porsuk R. (Arslan & İlhan 2010); Büyük Akgöl L. (Arslan *et al.* 2018); Ceyhan River Basin Lakes (Fındık & Aras 2016);
67	*Pristina arcaliae* Pop, 1974	Bozova and Antalya (Pop 1974);
68	*Pristina foreli* Bourne, 1891	Erekli; Insirti? (Sperber 1958); locality? (Pop 1974); Sakarya R. (Polatdemir Arslan & Şahin 2003); Küçük Menderes R. (Balık *et al.* 2006a); WBSL (Yıldız *et al.* 2008);
69	*Pristina longiseta* Ehrenberg, 1931	Locality? (Pop 1974); Sakarya R. (Polatdemir Arslan & Şahin 2003); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011);
70	*Pristina proboscidea* Beddard, 1896	Muğla (Pop 1974); Sakarya R. (Polatdemir Arslan & Şahin 2003);
71	*Pristinella acuminata* Liang, 1958	Işıklı L. (Balık *et al.* 2000); Yuvarlak R. (Yıldız *et al.* 2007b); Lake District Region (Yıldız & Balık 2005);
72	*Pristinella amphibiotica* (Lastočkin, 1927)	Sakarya R. (Arslan & Şahin 2004); Gediz Delta (Balık *et al.* 2004);
73	*Pristinella bilobata* (Bretscher, 1903)	Sakarya R. (Arslan & Şahin 2004); Gediz S. (Balık *et al.* 1999); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006);
74	*Pristinella jenkinae* (Stephenson, 1931)	Erekli; Khodja Ali? (Sperber 1958); Sakarya R. (Polatdemir Arslan & Şahin 2003); Yuvarlak R. (Yıldız *et al.* 2007b); TTRR (Taş *et al.* 2012); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Porsuk R. (Arslan & İlhan 2010); Çatören and Kunduzlar DL (Arslan *et al.* 2014);
75	*Pristinella menoni* (Aiyer, 1930)	Yarim Bourghaz? (Sperber 1958); Sakarya R. (Arslan & Şahin 2004); Gediz S. (Balık *et al.* 1999); Buldan L. (Ustaoğlu *et al.* 2004); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008);

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	Taxa	Literature data
Phylum	**Annelida**	
76	*Pristinella osborni* (Walton,1906)	Işıklı L. (Balık *et al.* 2000); Sakarya R. (Arslan & Şahin 2004); Lake District Region (Yıldız & Balık 2005); WBSL (Yıldız *et al.* 2008); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005);
77	*Pristinella rosea* (Piguet, 1906)	Sakarya River (Arslan & Şahin 2004); Yuvarlak R. (Yıldız *et al.* 2007b); Porsuk R. (Arslan & İlhan 2010); Ceyhan River Basin Lakes (Fındık & Aras 2016);
78	*Pristinella sima* (Marcus, 1944)	Sakarya R. (Arslan & Şahin 2004); Yuvarlak R. (Yıldız *et al.* 2007b);
79	*Slavina appendiculata* (d'Udekem, 1855)	Sakarya R. (Arslan & Şahin 2004); Işıklı L. (Balık *et al.* 2000); Gediz Delta (Balık *et al.* 2004); WBSL (Yıldız *et al.* 2008); Sazlıdere S. (Taş *et al.* 2011);
80	*Spericaria josinae* (Vejdovský, 1884)	Sakarya R. (Arslan & Şahin 2004);
81	*Stylaria fossularis* Leidy, 1852	Gölcük L. (Geldiay & Tareen 1972); Sakarya R. (Arslan & Şahin 2004); Işıklı L. (Balık *et al.* 2000); Lake District Region (Yıldız & Balık 2005); WBSL (Yıldız *et al.* 2008);
82	*Stylaria lacustris* (Linnaeus, 1767)	Tigris basin (Moubayed *et al.* 1987); Gediz and Güzelhisar S. (Balık *et al.* 1999); Işıklı L. (Balık *et al.* 2000); Sakarya R. (Polatdemir Arslan & Şahin 2003); Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); TTRR (Taş *et al.* 2012); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R. (Taş *et al.* 2008); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
83	*Uncinais uncinata* (Ørsted, 1842)	Sakarya R. (Arslan & Şahin 2004); Gediz S. (Balık *et al.* 1999); Yuvarlak R. (Yıldız *et al.* 2007b); EHEBSL (Yıldız *et al.* 2012); EHEBSL (Yıldız *et al.* 2012); Uluabat L. (Kökmen *et al.* 2007); Çatören and Kunduzlar D.L. (Arslan *et al.* 2014); Çıldır L. (Arslan & Mercan present study);
84	*Vejdovskyella comata* (Vejdovský, 1884)	Işıklı L. (Balık *et al.* 2000); Gediz Delta (Balık *et al.* 2004);
85	*Vejdovskyella intermedia* (Bretscher, 1896)	Ayva keuy? (Sperber 1958);
Family	**Tubificinae**	
86	*Aulodrilus pigueti* Kowalewski, 1914	Upper Sakarya R. (Arslan & Şahin 2003); Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Topçam DL (Yıldız & Balık 2006); Some Lagune L. (Yıldız *et al.* 2007c); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Karasu R. (Zeybek *et al.* 2018); Akgöl L. (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005);

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	Taxa	Literature data
Phylum	**Annelida**	
87	*Aulodrilus pluriseta* (Piguet, 1906)	Upper Sakarya R. (Arslan & Şahin 2003); Gediz Delta (Balık *et al.* 2004); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); TML (Yıldız *et al.* 2007a); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Tahtalı DL (Taşdemir *et al.* 2010); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Aksu R. (Çapraz & Arslan 2005); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006);
88	*Aulodrilus limnobius* Bretscher, 1899	Gediz Delta (Balık *et al.* 2004); Yuvarlak R. (Yıldız *et al.* 2007b); Sapanca L. (Şahin & Yıldız 2011); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006);
89	*Bothrioneurum vejdovskyanum* Štolc, 1886	Karamenderes S. (Odabaşı *et al.* 2017);
90	*Branchiura sowerbyi* Beddard, 1892	Buldan L. (Ustaoğlu *et al.* 2004);
91	*Coralliodrilus amissus* Arslan, Timm & Erséus, 2007	Balıkdamı Wetland (Arslan *et al.* 2006);
92	*Epirodrilus moubayedi* Giani & Martínez-Ansemil, 1983	Balıkdamı Wetland (Arslan *et al.* 2006);
93	*Gianius anatolicus* Arslan, Timm & Erséus, 2007	Balıkdamı Wetland (Arslan *et al.* 2006);
94	*Haber speciosus* (Hrabě,1931)	Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Topçam DL (Yıldız & Balık 2006); WBSL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Balıkdamı Wetland (Arslan *et al.* 2006); Porsuk R. (Arslan & İlhan 2010);
95	*Haber swirencowi* (Jaroschenko, 1948)	Gediz Delta (Balık *et al.* 2004);
96	*Heterochaeta costata* Claparède, 1863	Some Lagune L. (Yıldız *et al.* 2007c); Karasu R. (Zeybek *et al.* 2018);
97	*Ilyodrilus templetoni* (Southern,1909)	Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); EHEBSL (Yıldız *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Gölcük L. (Yıldız *et al.* 2015);
98	*Ilyodrilus frantzi* Brinkhurst, 1965	Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b);
99	*Ilyodrilus* sp.	Hazar L. (Timm *et al.* 2013);
100	*Isochaetides* sp.	TTRR (Taş *et al.* 2012);
101	*Limnodrilus claparedeianus* Ratzel, 1868	Işıklı L. (Balık *et al.* 2000); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Küçük Menderes R. (Balık *et al.* 2006a); TML (Yıldız *et al.* 2007a); Küçük Menderes CW (Yıldız *et al.* 2010a); Tigris R. (Zeybek *et al.* 2016); Gölcük L. (Yıldız *et al.* 2015); Porsuk R. (Arslan & İlhan 2010); Gala L. (Çamur-Elipek *et al.* 2010); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016);

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	Taxa	Literature data
Phylum	**Annelida**	
102	*Limnodrilus hoffmeisteri* Claparède, 1862	Locality? (Naidu 1965); Karagöl (Ustaoğlu 1980); Asi S. (Moubayed *et al.* 1987); Ankara S. (Kazancı & Girgin 1998); Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gümüş S. (Öntürk & Arslan 2003); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Topçam DL (Yıldız & Balık 2006); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Tahtalı DL (Taşdemir *et al.* 2010); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Karasu R. (Zeybek *et al.* 2018); Akgöl L. (Yıldız *et al.* 2009); İkizgöl (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007);
		Çorlu R. (Taş *et al.* 2008); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Gala L. (Çamur-Elipek *et al.* 2010); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
103	*Limnodrilus hoffmeisteri* f. *parvus* Southern, 1909	Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Bozalan L. (Balık *et al.* 2006b); Some Lagune L. (Yıldız *et al.* 2007c); Sapanca L. (Şahin & Yıldız 2011); Gölcük L. (Yıldız *et al.* 2015); Kovada L. (Arslan & Şahin 2006);
104	*Limnodriloides pierantonii* (Hrabě, 1971)	Gediz Delta (Balık *et al.* 2004);
105	*Limnodrilus profundicola* (Verrill, 1871)	Işıklı L. (Balık *et al.* 2000); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R.(Balık *et al.* 2006a); Yuvarlak R. (Yıldız *et al.* 2007b); Kemer DL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Gölcük L. (Yıldız *et al.* 2015); Uluabat L. (Kökmen *et al.* 2007); Gala L. (Çamur-Elipek *et al.* 2010);

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	Taxa	Literature data
Phylum	**Annelida**	
106	*Limnodrilus udekemianus* Claparède, 1862	Ankara S. (Kazancı & Girgin 1998); 1998; Işıklı L. (Balık *et al.* 2000); Gümüş S. (Öntürk & Arslan 2003); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Topçam DL (Yıldız & Balık 2006); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Tahtalı DL (Taşdemir *et al.* 2010); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Gölcük L. (Yıldız *et al.* 2015); İkizgöl (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Musaözü DL (Arslan *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R. (Taş *et al.* 2008); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Küçük Menderes R. (Arslan *et al.* 2016);
107	*Limnodrilus* sp.	Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Menderes R. (Akbulut *et al.* 2009); Gala L. (Çamur-Elipek *et al.* 2010);
108	*Monopylephorus irroratus* (Verrill, 1873)	Hazar L. (Şahin & Baysal 1972);
109	*Peipsidrilus libanus* (Giani *et al.*, 1982)	Balıkdamı Wetland (Arslan *et al.* 2006); Çıldır L. (Arslan & Mercan present study);
110	*Peipsidrilus* sp.	TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006);
111	*Peloscolex arganoi* Pop, 1974	Mersin (Pop 1974);
112	*Peloscolex boitanii* Pop, 1974	Mersin (Pop 1974);
113	*Peloscolex cottarelli* Pop, 1974	Mersin (Pop 1974);
114	*Peloscolex euxinicus* Hrabě, 1966	Gediz Delta (Balık *et al.* 2004);
115	*Potamothrix alatus* Finogenova, 1972	Çıldır L. (Arslan & Mercan present study);
116	*Potamothrix alatus hazaricus* Timm & Arslan, 2013	Hazar L. (Timm *et al.* 2013);
117	*Potamothrix bavaricus* (Oschmann, 1913)	Seyhan Dam Lake (Kırgız 1989); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); Some Lagune L. (Yıldız *et al.* 2007c); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Karasu R. (Zeybek *et al.* 2018); Gebekirse L. (Yıldız *et al.* 2009); Kovada L. (Arslan & Şahin 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Euphrates R. (Aras & Fındık 2016); Çıldır L. (Arslan & Mercan present study);
118	*Potamothrix bedoti* (Piguet, 1913)	Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Topçam DL (Yıldız & Balık 2006); Yuvarlak R. (Yıldız *et al.* 2007b); Some Lagune L. (Yıldız *et al.* 2007c); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Karasu R. (Zeybek *et al.* 2018); Karagöl L. (Topkara *et al.* 2018); Büyük Akgöl L. (Arslan *et al.* 2018);

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	Taxa	Literature data
Phylum	**Annelida**	
119	*Potamothrix heuscheri* (Bretscher, 1900)	Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Yuvarlak R. (Yıldız *et al.* 2007b); Some Lagune L. (Yıldız *et al.* 2007c); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Karasu R. (Zeybek *et al.* 2018); Akgöl L. (Yıldız *et al.* 2009); Küçük Menderes R. (Arslan *et al.* 2016);
120	*Potamothrix hammoniensis* (Michaelsen, 1901)	Seyhan Dam Lake (Kırgız 1989); Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Topçam DL (Yıldız & Balık 2006); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); Some Lagune L. (Yıldız *et al.* 2007c); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Karasu R. (Zeybek *et al.* 2018); Karagöl L. (Topkara *et al.* 2018); Gölcük L. (Yıldız *et al.* 2015); Gebekirse and Akgöl L. (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Sazlıdere S. (Taş *et al.* 2011); Gölbaşı L. (Arslan *et al.* 2013); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
121	*Potamothrix moldaviensis* Vejdovský & Mrazek, 1902	Eğrigöl L. (Yıldız *et al.* 2005);
122	*Potamothrix vejdovskyi* (Hrabě, 1941)	Gediz Delta (Balık *et al.* 2004); Sapanca L. (Şahin & Yıldız 2011);
123	*Potamothrix* sp.	Eğirdir L. (Arslan 2006);
124	*Psammoryctides albicola* (Michaelsen, 1901)	Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gümüş S. (Öntürk & Arslan 2003); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Lake District Region (Yıldız & Balık 2005); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); TTRR (Taş *et al.* 2012); Gölcük L. (Yıldız *et al.* 2015); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Gölbaşı L. (Arslan *et al.* 2013); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Küçük Menderes R. (Arslan *et al.* 2016); Euphrates R. (Aras & Fındık 2016); Çıldır L. (Arslan & Mercan present study);
125	*Psammoryctides barbatus* (Grube, 1861)	Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); TML (Yıldız *et al.* 2007a); Sapanca L. (Şahin & Yıldız 2011); Hazar L. (Timm *et al.* 2013); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Ceyhan River Basin Lakes (Fındık & Aras 2016);

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	Taxa	Literature data
Phylum	**Annelida**	
126	*Psammoryctides deserticola* (Grimm, 1877)	Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Topçam DL (Yıldız & Balık 2006); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Kemer DL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Gölcük L. (Yıldız *et al.* 2015);
127	*Psammoryctides longicapillatus* Martínez-Ansemil & Giani, 1983	Euphrates (Moubayed *et al.* 1987);
128	*Psammoryctides moravicus* (Hrabě, 1934)	Ankara S. (Kazancı & Girgin 1998); Gediz Delta (Balık *et al.* 2004); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Balıkdamı Wetland (Arslan *et al.* 2006);
129	*Psammoryctides* sp.	Eğirdir L. (Arslan 2006);
130	*Rhyacodrilus coccineus* (Vejdovský, 1876)	Gümüş S. (Öntürk & Arslan 2003); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Uluabat L. (Kökmen *et al.* 2007); Porsuk R. (Arslan & İlhan 2010);
131	*Spirosperma ferox* (Eisen, 1879)	Ankara S. (Kazancı & Girgin 1998); Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Sapanca L. (Şahin & Yıldız 2011); EHEBSL (Yıldız *et al.* 2012);
132	*Spirosperma nikolskyi* Lastočkin & Sokolskaya, 1953	Lake District Region (Yıldız & Balık 2005); Denizli mountain lakes (Yıldız & Ustaoğlu 2016);
133	*Spirosperma velutinus* (Grube, 1879)	Gediz Delta (Balık *et al.* 2004); Balıkdamı Wetland (Arslan *et al.* 2006); Çıldır L. (Arslan & Mercan present study);
134	*Stylodrilus parvus* (Hrabe & Černosvitov, 1927)	EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012); Balıkdamı Wetland (Arslan *et al.* 2006); Çıldır L. (Arslan & Mercan present study);
135	*Stylodrilus heringianus* Claparède, 1862	EBSL (Yıldız *et al.* 2010b); EHEBSL (Yıldız *et al.* 2012);
136	*Tubifex acuticularis* Martínez-Ansemil et Giani, 1983	Balıkdamı Wetland (Arslan *et al.* 2006); Çıldır L. (Arslan & Mercan present study);
137	*Tubifex blanchardi* Vejdovský, 1891	Denizli mountain lakes (Yıldız & Ustaoğlu 2016);
138	*Tubifex costatus* (Claparède, 1863)	Gediz Delta (Balık *et al.* 2004);
139	*Tubifex ignotus* (Stolć, 1886)	Sazlıgöl L. (Balık *et al.* 2001); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); Balıkdamı Wetland (Arslan *et al.* 2006);
140	*Tubifex nerthus* Michaelsen, 1908	Sazlıgöl L. (Balık *et al.* 2001); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Yuvarlak R. (Yıldız *et al.* 2007b); WBSL (Yıldız *et al.* 2008); Sapanca L. (Şahin & Yıldız 2011); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); İkizgöl (Yıldız *et al.* 2009);

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	Taxa	Literature data
Phylum	**Annelida**	
141	*Tubifex newaensis* (Michaelsen, 1903)	Yuvarlak R. (Yıldız *et al.* 2007b); Some Lagune L. (Yıldız *et al.* 2007c); Karasu R. (Zeybek *et al.* 2018);
142	*Tubifex montanus* Kowalewski, 1919	Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Topçam DL (Yıldız & Balık 2006); TML (Yıldız *et al.* 2007a); Yuvarlak R. (Yıldız *et al.* 2007b); EHEBSL (Yıldız *et al.* 2012);
143	*Tubifex tubifex* (Müller,1774)	Gölcük L. (Geldiay & Tareen 1972); Karagöl (Ustaoğlu 1980); Karasu S. (Çetinkaya *et al.* 1994); Ankara S. (Kazancı & Girgin 1998); Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Gümüş S. (Öntürk & Arslan 2003); Gediz Delta (Balık *et al.* 2004); Kuş L. (Balık *et al.* 2005); Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Küçük Menderes R. (Balık *et al.* 2006a); Bozalan L. (Balık *et al.* 2006b); Topçam DL (Yıldız & Balık 2006); Yuvarlak R. (Yıldız *et al.* 2007b); Kemer DL (Yıldız *et al.* 2008); Uludağ GL (Ustaoğlu *et al.* 2008); Küçük Menderes CW (Yıldız *et al.* 2010a); Sapanca L. (Şahin & Yıldız 2011); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Tigris R. (Zeybek *et al.* 2016); Karagöl L. (Topkara *et al.* 2018); Gölcük L. (Yıldız *et al.* 2015); Gebekirse and Akgöl L. (Yıldız *et al.* 2009); İkizgöl (Yıldız *et al.* 2009); Aksu R. (Çapraz & Arslan 2005); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006); Eğirdir L. (Arslan 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Musaözü DL (Arslan *et al.* 2007); Uluabat L. (Kökmen *et al.* 2007); Manyas L. (Arslan & Ahıska 2007); Çorlu R. (Taş *et al.* 2008); Menderes R. (Akbulut *et al.* 2009); Porsuk R. (Arslan & İlhan 2010); Gala L. (Çamur-Elipek *et al.* 2010); Sazlıdere S. (Taş *et al.* 2011); Çatören and Kunduzlar DL (Arslan *et al.* 2014); Büyük Akgöl L. (Arslan *et al.* 2018); Euphrates R. (Aras & Fındık 2016); Ceyhan River Basin Lakes (Fındık & Aras 2016); Çıldır L. (Arslan & Mercan present study);
144	*Tubifex tubifex* f. *tubifex*	Locality? (Pop 1974); Upper Euphrates and Ankara S. (Moubayed *et al.* 1987); TML (Yıldız *et al.* 2007a);
145	*Tubifex tubifex* f. *bergi* (Müller, 1774)	Eğrigöl L. (Yıldız *et al.* 2005); Lake District Region (Yıldız & Balık 2005); Some Lagune L. (Yıldız *et al.* 2007); WBSL (Yıldız *et al.* 2008); Denizli mountain lakes (Yıldız & Ustaoğlu 2016); Gebekirse L. (Yıldız *et al.* 2009);
146	*Tubifex* sp.	Çıldır L. (Arslan & Mercan present study);
147	*Tubifex* spp.	Seyhan Dam Lake (Kırgız 1989); Enne S. (Tanatmış 1989); Akşehir L. (Sözen & Yiğit 1999); Karacaören Dam Lake (Karaşahin & Yıldırım 2000); EHEBSL (Yıldız *et al.* 2012); TTRR (Taş *et al.* 2012); Kovada L. (Arslan & Şahin 2006); Tunca R. (Çamur-Elipek *et al.* 2006);
148	*Quistadrilus multisetosus* (Smith, 1900)	Işıklı L. (Balık *et al.* 2000); Sazlıgöl L. (Balık *et al.* 2001); Lake District Region (Yıldız & Balık 2005); Denizli mountain lakes (Yıldız & Ustaoğlu 2016);
149	*Varichaetadrilus psammophilus* (Loden, 1977)	Gediz Delta (Balık *et al.* 2004);
Family	**Lumricidae**	
150	*Eisenella tetraedra* (Savigny, 1826)	Adana (Omodeo 1956); Ankara S. (Kazancı & Girgin 1998); Yuvarlak S. (Barlas *et al.* 2000); TTRR (Taş *et al.* 2012); Tunca R. (Çamur-Elipek *et al.* 2006); Balıkdamı Wetland (Arslan *et al.* 2006); Porsuk R. (Arslan & İlhan 2010);

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	Taxa	Literature data
Phylum	**Annelida**	
151	*Tatriella slovenica* Hrabě, 1936	Yuvarlak R. (Yıldız *et al.* 2007b);
Subphylum	**Annelida sbp Incertae sedis**	
Order	**APHANONEURA**	
Family	**Potamodrilidae**	
152	*Potamodrilus fluviatilis* (Lastočkin, 1935)	Gediz S. (Balık *et al.* 1999);
Family	**Aeolosomatidae**	
153	*Aeolosoma tenebrarum* Vejdovský, 1884	Gediz S. (Balık *et al.* 1999); Gediz Delta (Balık *et al.* 2004);
154	*Aeolosoma headleyi* Beddard, 1888	Tarsus (Pop 1974); Gediz S. (Balık *et al.* 1999);
155	*Aeolosoma variegatum* Vejdovský, 1886	Gediz S. (Balık *et al.* 1999);
156	*Aeolosoma leidyi* Cragin, 1887	Gediz Delta (Balık *et al.* 2004);
157	*Aeolosoma* sp.	Gölcük L. (Geldiay & Tareen 1972); Buldan L. (Ustaoğlu *et al.* 2004).