

Appendix 1. Earthworms of Turkey and its Neighbouring Countries.

Species	Turkey	Greece mainland	Bulgaria	Crete	Cyprus	Syria	Iran	Armenia	Azerbaijan	Georgia	Distribution type
Family: LUMBRICIDAE Rafinesque-Schmaltz, 1815											
<i>Allolobophora bulgarica</i> Černosvitov, 1934			*								Balkan endemicism
<i>Allolobophora s.l. brunnecephala</i> Kavadze, 1985	*							*	*		Caucaso-Anatolian
<i>Allolobophora chlorotica</i> (Savigny, 1826)	*	*	*	*					*	*	Peregrine
<i>Allolobophora dofleini</i> (Ude, 1922)		*									Balkan endemicism
<i>Allolobophora immaculata</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Allolobophora kosowensis</i> Karaman, 1968		*									Balkan endemicism
<i>Allolobophora kintrishiana</i> Kavadze 1987										*	Caucasian endemicism
<i>Allolobophora leoni</i> Michaelsen, 1891	*		*							*	Trans-Aegean
<i>Allolobophora mehadiensis</i> (Rosa, 1895)			*								Balkan endemicism
<i>Allolobophora robusta robusta</i> (Rosa, 1895)			*								Balkan endemicism
<i>Allolobophora tuleshkovi</i> (Černosvitov, 1934)			*								Balkan endemicism
<i>Aporrectodea caliginosa caliginosa</i> (Savigny, 1826)	*	*	*	*	*	*	*	*	-	*	Peregrine
<i>Aporrectodea caliginosa trapezoides</i> (Dugès, 1828)	*	*	*	*	*	*	*	*	*	*	Peregrine
<i>Aporrectodea dubiosa</i> (Örley, 1881)	*		*							*	Trans-Aegean
<i>Aporrectodea georgii</i> (Michaelsen, 1890)		*	*	*		*					Atlanto-Mediterranean
<i>Aporrectodea handlirschi</i> (Rosa, 1897)	*	*	*							*	Trans-Aegean
<i>Aporrectodea handlirschi mahnerti</i> (Zicsi, 1973)	*										Anatolian endemicism
<i>Aporrectodea jassyensis</i> (Michaelsen, 1891)	*	*	*	*			*	*	*	*	Trans-Aegean
<i>Aporrectodea longa</i> (Ude, 1885)		*	*				*				Peregrine
<i>Aporrectodea rosea</i> (Savigny, 1826)	*	*	*	*	*		*	*	*	*	Peregrine
<i>Bimastos eiseni</i> (Levinsen, 1884)		*	*				*				Peregrine
<i>Bimastos parvus</i> (Eisen 1874)							*				Peregrine
<i>Bimastos rubidus</i> (Savigny, 1826)	*	*	*		*		*	*	*	*	Peregrine
<i>Cernosvitovia biserialis</i> (Černosvitov, 1937)			*								Balkan endemicism
<i>Cernosvitovia dobrogeana</i> (Pop, 1938)			*								Balkan endemicism
<i>Cernosvitovia muntieniana</i> Zicsi & Pop, 1991			*								Balkan endemicism
<i>Cernosvitovia rebeli</i> (Rosa, 1897)		*	*								Moesian
<i>Cernosvitovia schweigeri</i> (Zicsi, 1973)	*										Anatolian endemicism
<i>Dendrobaena alpina alpina</i> (Rosa, 1884)		*	*	*				*	*	*	?Balkan-Alpine

<i>Dendrobaena alpina armeniaca</i> (Rosa, 1893)	*							*	*		Caucaso-Anatolian
<i>Dendrobaena alpina diplotritheca</i> Kavadze, 1972										*	Caucasian endemism
<i>Dendrobaena attemsi attemsi</i> (Michaelsen, 1902)	*	*	*					*	*	*	Trans-Aegean
<i>Dendrobaena attemsi decipiens</i> (Michaelsen, 1910)	*									*	Caucaso-Anatolian
<i>Dendrobaena balcanica</i> (Černosvitov, 1937)		*	*								Balkan endemism
<i>Dendrobaena bokakotorensis</i> Šapkarev, 1975		*									Balkan endemism
<i>Dendrobaena bruna</i> Omodeo & Rota, 1989	*										Anatolian endemism
<i>Dendrobaena byblica byblica</i> (Rosa, 1893)	*	*	*	*	*	*	*			*	Circum-Mediterranean
<i>Dendrobaena byblica arsiatica</i> Kavadze 1985										*	Caucasian endemism
<i>Dendrobaena byblica olympiaca</i> (Michaelsen, 1902)		*		*							Balkan endemism
<i>Dendrobaena cevdeti</i> Szederjesi, Pavlicek, Coşkun & Csuzdi, 2014	*										Anatolian endemism
<i>Dendrobaena cognettii</i> (Michaelsen, 1903)	*	*									Atlanto-Mediterranean
<i>Dendrobaena epirotica</i> Zicsi & Michalis, 1993		*									Balkan endemism
<i>Dendrobaena faucium</i> (Michaelsen, 1910)										*	Caucasian endemism
<i>Dendrobaena fridericae fridericae</i> Omodeo & Rota, 1989	*										Anatolian endemism
<i>Dendrobaena fridericae uludagi</i> Omodeo & Rota, 1991	*										Anatolian endemism
<i>Dendrobaena jaloniensis</i> Kavadze, 1985										*	Caucasian endemism
<i>Dendrobaena hauseri</i> Zicsi, 1973	*										Levant-Anatolian
<i>Dendrobaena hortensis</i> (Michaelsen, 1890)	*	*	*	*			*	*	*	*	Peregrine
<i>Dendrobaena hrabei</i> (Černosvitov, 1934)		*	*								Balkan endemism
<i>Dendrobaena imeretiana</i> Kavadze, 1992										*	Caucasian endemism
<i>Dendrobaena kelassuriensis</i> Kavadze, 1985										*	Caucasian endemism
<i>Dendrobaena kervillei</i> (Michaelsen, 1910)						*					Levantine endemism
<i>Dendrobaena kurashvili</i> Kavadze 1971	*							*		*	Caucaso-Anatolian
<i>Dendrobaena loebli</i> (Zicsi, 1985)	*	*									Balkan-Anatolian
<i>Dendrobaena mahnerti</i> Zicsi, 1974		*									Balkan endemism
<i>Dendrobaena mahunkai</i> Csuzdi, Pavlíček & Mısırlıoğlu 2007	*										Anatolian endemism
<i>Dendrobaena mamişsonica</i> Kavadze, 1984										*	Caucasian endemism
<i>Dendrobaena michalisi</i> Karaman, 1972		*									Balkan endemism
<i>Dendrobaena montana</i> (Michaelsen, 1910)	*							*			Caucaso-Anatolian
<i>Dendrobaena nassonovi adjarica</i> Kavadze 1973										*	Caucasian endemism
<i>Dendrobaena nassonovi nassonovi</i> Kulagin, 1889										*	Caucasian endemism
<i>Dendrobaena nivalis</i> Omodeo & Rota 1989	*										Anatolian endemism

<i>Dendrobaena octaedra</i> (Savigny, 1826)		*	*				*			*	Peregrine
<i>Dendrobaena olympica</i> (Černosvitov, 1938)		*									Balkan endemicism
<i>Dendrobaena omodeoi</i> Csuzdi, Pavliček & Mısırlıoğlu, 2007	*										Anatolian endemicism
<i>Dendrobaena orientalis orientalis</i> Černosvitov, 1940	*						*	*	*		Levant-Anatolian
<i>Dendrobaena orientalioides</i> Zicsi, 1985	*										Anatolian endemicism
<i>Dendrobaena pantaleonis</i> (Chinaglia, 1913)		*		*	*						Alpine -East-Mediterranean
<i>Dendrobaena pantaleonis eutypica</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Dendrobaena parabyblica</i> Perel, 1972								*			Levantine endemicism
<i>Dendrobaena pentheri</i> (Rosa, 1905)	*	*			*		*	*	*	*	Caucasian-East-Mediterranean
<i>Dendrobaena persimilis</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Dendrobaena perula</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Dendrobaena pindonensis</i> Zicsi & Michalis, 1993		*									Balkan endemicism
<i>Dendrobaena platyura depressa</i> (Fitzinger, 1833)				*							Central European
<i>Dendrobaena proandra</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Dendrobaena resslii</i> Zicsi, 1973	*										Anatolian endemicism
<i>Dendrobaena retrosella</i> Szederjesi & Csuzdi, 2012		*									Balkan endemicism
<i>Dendrobaena rhodopensis</i> (Černosvitov, 1937)		*	*								Balkan endemicism
<i>Dendrobaena samarigera</i> (Rosa, 1893)	?*										? Levant-Anatolian
<i>Dendrobaena schmidti marinae</i> Kvavadze, 1985	*									*	Caucaso-Anatolian
<i>Dendrobaena schmidti surbiensis</i> (Michaelsen 1910)								*	*	*	Caucasian endemicism
<i>Dendrobaena schmidti tellermanica</i> Perel, 1966	*							*	*	*	Caucaso-Anatolian
<i>Dendrobaena semitica</i> (Rosa, 1893)	*				*	*	*				Levant-Anatolian
<i>Dendrobaena swanetiana</i> Kvavadze, 1992										*	Caucasian endemicism
<i>Dendrobaena szalokii</i> Szederjesi, Pavlicek, Coşkun & Csuzdi, 2014	*										Levant-Anatolian
<i>Dendrobaena veneta</i> (Rosa, 1884)	*	*	*	*	*	*	*	*	*	*	Peregrine
<i>Dendrobaena verihemiandra</i> Kvavadze, 1989										*	Caucasian endemicism
<i>Dendrodriloides ganjiensis</i> (Kvavadze 1985)								*	*		Caucasian endemicism
<i>Dendrodriloides grandis grandis</i> (Michaelsen, 1907)	*							*	*	‡	Caucaso-Anatolian
<i>Dendrodriloides grandis perelae</i> (Kvavadze 1973)								*		*	Caucasian endemicism
<i>Dendrodriloides hydrophilicus</i> (Kvavadze, 1979)	*									*	Caucaso-Anatolian
<i>Dendrodriloides polysegmenticus</i> (Kvavadze, 1973)	*									*	Caucaso-Anatolian
<i>Dendrodriloides supsaiensis</i> (Kvavadze 1985)										*	Caucasian endemicism

<i>Eisenia andrei</i> Bouché, 1972			*					*	*	*	Peregrine
<i>Eisenia ariadne</i> (Michaelsen, 1928)		*									Balkan endemicism
<i>Eisenia colchidica</i> (Perel, 1967)	*	*								*	Caucasian-East-Mediterranean
<i>Eisenia ebneri</i> (Michaelsen, 1914)		*		*							Balkan endemicism
<i>Eisenia fetida</i> (Savigny, 1826)	*	*	*	*	*		*	*	*	*	Peregrine
<i>Eisenia iverica</i> (Kvavadze, 1973)										*	Caucasian endemicism
<i>Eisenia kafaniensis</i> Kvavadze 1985								*	*	*	Caucasian endemicism
<i>Eisenia kattoulasi</i> Zicsi & Michalis, 1981	*	*									Balkan-Anatolian
<i>Eisenia kotschani</i> Szederjesi, Pavliček & Csuzdi 2014	*										Anatolian endemicism
<i>Eisenia lagodechiensis</i> (Michaelsen, 1910)								*	*	*	Caucasian endemicism
<i>Eisenia lucens</i> (Waga, 1857)			*								Central European
<i>Eisenia malekiae</i> Szederjesi, Latif & Csuzdi, 2014							*				Iranian endemicism
<i>Eisenia muganiensis</i> (Michaelsen, 1910)								*	*		Caucasian endemicism
<i>Eisenia omranii</i> Latif, Malek & Csuzdi, 2017							*				Iranian endemicism
<i>Eisenia oreophila</i> Szederjesi & Csuzdi, 2012		*									Balkan endemicism
<i>Eisenia patriciae</i> Szederjesi, Pavlicek, Coşkun & Csuzdi, 2014	*										Anatolian endemicism
<i>Eisenia storkani</i> Černosvitov, 1934			*								Balkan endemicism
<i>Eisenia thamarae</i> Kvavadze and Nikolasvili 1983								*	*	*	Caucasian endemicism
<i>Eiseniella neapolitana</i> (Örley, 1885)	*	*			*	*					Circum-Mediterranean
<i>Eiseniella tetraedra</i> (Savigny, 1826)	*	*	*	*	*	*	*	*	*	*	Peregrine
<i>Healyella baloghi</i> (Zicsi, 1981)	*										Anatolian endemicism
<i>Healyella boluana</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Healyella mariae</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Healyella michaelseni</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Healyella naja</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Healyella schweigeri</i> (Zicsi, 1981)	*										Anatolian endemicism
<i>Healyella syriaca</i> (Rosa, 1893)	*					*	*				Levant-Anatolian
<i>Healyella zapparolii</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Helodrilus balcanicus balcanicus</i> (Černosvitov, 1931)		*									Balkan endemicism

<i>Helodrilus cernosvitovianus</i> (Zicsi, 1967)		*									Uncleared type
<i>Helodrilus duhlinkae</i> Zicsi & Csuzdi, 1986			*								Balkan endemicism
<i>Helodrilus oculatus</i> (Hoffmeister, 1845)									*		Caucasian endemicism
<i>Helodrilus patriarchalis</i> (Rosa, 1893)	*	*		*	*	*	*	*	*	*	Caucasian-East Mediterranean
<i>Helodrilus vagneri</i> Mršić, 1991		*									Balkan endemicism
<i>Lumbricus meliboeus</i> Rosa, 1884			*								Balkan-Alpine
<i>Lumbricus polyphemus</i> (Fitzinger, 1833)			*								Central European
<i>Lumbricus rubellus</i> Hoffmeister, 1843	*	*	*	*				*	*	*	Peregrine
<i>Lumbricus terrestris</i> Linnaeus, 1758			*							*	Peregrine
<i>Murchieona minuscula</i> (Rosa, 1896)	*	*	*	*	*						Circum-Mediterranean
<i>Octodrilus complanatus</i> (Dugés, 1828)	*	*	*	*	*	*				*	Circum-Mediterranean
<i>Octodrilus croaticus</i> (Rosa, 1895)		*									Illyric
<i>Octodrilus transpadanus</i> (Rosa, 1884)	*	*	*						*	*	Trans-Aegean
<i>Octolasion cyaneum</i> (Savigny, 1826)	*				*						Peregrine
<i>Octolasion lacteum</i> (Örley, 1881)	*	*	*			*	*	*	*	*	Peregrine
<i>Perelia galileana</i> Csuzdi & Pavlíček, 2005	*										Levant-Anatolian
<i>Perelia hatayica</i> Csuzdi, Pavlíček & Mısırlıoğlu, 2007	*										Anatolian endemicism
<i>Perelia kaznakovi</i> (Michaelsen, 1910)							*		*		Caucasian endemicism
<i>Perelia makrisi</i> Szederjesi, Pavlicek & Csuzdi, 2017					*						Cypriot endemicism
<i>Perelia nematogena</i> (Rosa 1903)					*						Balkan-Alpine
<i>Perelia persiana</i> (Michaelsen, 1900)							*				Iranian endemicism
<i>Perelia phoebea</i> (Cognetti, 1913)		*			*						Balkan endemicism
<i>Proctodrilus antipai</i> (Michaelsen, 1891)		*	*								Central-European
<i>Proctodrilus opisthoductus</i> Zicsi, 1985		*	*								Central-European
<i>Proctodrilus tuberculatus</i> (Černosvitov, 1935)	*	*	*		*					*	Trans-Aegean
<i>Spermophorodrilus antiquus</i> (Černosvitov, 1938)		*	*								Balkan endemicism
<i>Spermophorodrilus simsoni</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Spermophorodrilus vignai</i> Omodeo & Rota, 1989	*										Anatolian endemicism
<i>Trapezonscolex cavazzutii cavazzutii</i> Omodeo, 1988	*										Anatolian endemicism
<i>Trapezonscolex cavazzutii pascuorum</i> Omodeo, 1988	*										Anatolian endemicism
Family: ACANTHODRILIDAE Claus, 1880											
<i>Dichogaster bolau</i> (Michaelsen, 1891)							*				Peregrine
<i>Microscolex dubius</i> (Fletcher, 1887)	*	*		*			*			*	Peregrine
<i>Microscolex phosphoreus</i> (Duges, 1837)	*	*			*		*			*	Peregrine

Family: CRIODRILIDAE Vejdovsky, 1884											
<i>Criodrilus lacuum</i> Hoffmeister, 1845	*	*	*			*				*	Peregrine
Family: MEGASCOLECIDAE Rosa, 1891											
<i>Amyntas corticis</i> (Kinberg, 1867)	*	*					*			*	Peregrine
<i>Amyntas gracilis</i> (Kinberg, 1867)	*	*									Peregrine
<i>Amyntas morrisi</i> (Beddard, 1892)	*										Peregrine
<i>Metaphire californica</i> (Kinberg, 1867)	*	*									Peregrine
<i>Pontodrilus litoralis</i> (Grube, 1855)		*									Peregrine
Family: OCNERODRILIDAE Beddard, 1891											
<i>Eukerria saltensis</i> (Beddard, 1895)		*									Peregrine
<i>Ocnerodrilus occidentalis</i> Eisen, 1878		*									Peregrine
Total Species Number	83	66	49	20	21	14	28	31	29	58	

Remarks. *Allolobophora carpathica* Cognetti, 1927 was registered in Bulgaria by Mihailova (1964), but it is a doubtful record for the country. Besides, we did not regard *B. rubidus subrubicundus* as a separate taxon.