

Checklist of megadrile Earthworms (Annelida : Oligochaeta) from TamilNadu, south India

by Robert J. Blakemore

COE fellow, Soil Ecology Group, YNU, Yokohama Japan. May, 2006

Abstract

The current checklist of 100 earthworms from TamilNadu, south India is updated, corrected and modified from: Kathireswari, P., Julka, J.M., and Reynolds, J.W. (2005). "Checklist of Oligochaeta of Tamil Nadu, India". *Megadrilogica* **10(8)**: 57-68. These authors listed only 95 megadriles but most taxa were placed in the wrong genera and/or families and some names are misspelled, eg. *E. foetida*, *D. sapphirinoides*, *Pontoscolex corethrurus*, *Pontoscolex corethrururs*, *Lamipito*, etc. An additional 29 species they listed in a microdrile section is unchecked here. Families as per Blakemore (2000) "Tasmanian Earthworms" and Blakemore (2002, 2006) "Cosmopolitan Earthworms". *Species inquirenda* means a species of doubtful identity needing further investigation.

FAMILY	Genus	species	Author	Distribution	Notes	Synonyms	Status
ALMIDAE	<i>Glyphidrilus</i>	<i>annandalei</i>	Michaelsen, 1910: 101	Southern India.		<i>G. achencoili</i> (laps.); Cognetti, 1911: 506. <i>G. fluviatilis</i> + <i>G. elegans</i> + <i>G. rarus</i> + <i>G. saffronensis</i> Rao, 1922: 53, 62, 64, 66.	
ALMIDAE	<i>Glyphidrilus</i>	<i>tuberosus</i>	Stephenson, 1916: 349	Orissa, Bengal, Tamil Nadu, India.			
GLOSSOSCOLECIDAE	<i>Pontoscolex</i>	<i>corethrurus</i>	(Müller, 1857)	Cosmopolitan.		Many.	
LUMBRICIDAE	<i>Aporrectodea</i>	<i>rosea</i>	(Savigny, 1826)	Cosmopolitan.		Many.	
LUMBRICIDAE	<i>Aporrectodea</i>	<i>trapezoides</i>	(Dugès, 1828)	Cosmopolitan.		Many.	
LUMBRICIDAE	<i>Bimastos</i>	<i>parvus</i>	(Eisen, 1874)	Cosmopolitan.		Originally <i>Allolobophora parva</i> Eisen, 1874	
LUMBRICIDAE	<i>Dendrobaena</i>	<i>octaedra</i>	(Savigny, 1826)	Cosmopolitan.		Many.	
LUMBRICIDAE	<i>Dendrodrilus</i>	<i>rubidus</i>	(Savigny, 1826)	Cosmopolitan.		Many.	

LUMBRICIDAE	<i>Eisenia</i>	<i>fetida</i>	(Savigny, 1826)	Cosmopolitan.	? <i>Eisenia andrei</i> Bouche, 1972
LUMBRICIDAE	<i>Eiseniella</i>	<i>tetraedra</i>	(Savigny, 1826)	Cosmopolitan.	Many.
LUMBRICIDAE	<i>Octolasion</i>	<i>cyaneum</i>	(Savigny, 1826)	Cosmopolitan.	
LUMBRICIDAE	<i>Octolasion</i>	<i>tyrtaeum</i>	(Savigny, 1826)	Cosmopolitan.	
MONILIGASTRIDAE	<i>Drawida</i>	<i>aculeata</i>	Gates, 1945: 57	Chennai, Tamil Nadu, and ?Bengal, India.	
MONILIGASTRIDAE	<i>Drawida</i>	<i>annandalei</i>	Stephenson, 1913: 261	Tamil Nadu, South India. In mud below water in Ca(u)veri River.	
MONILIGASTRIDAE	<i>Drawida</i>	<i>barwelli</i>	(Beddard, 1886)	Cosmopolitan	<i>Drawida beddardii</i> (Rosa, 1890); <i>D. parva</i> (Bourne, 1894)?; etc.
MONILIGASTRIDAE	<i>Drawida</i>	<i>calebi</i>	Gates, 1945: 211		
MONILIGASTRIDAE	<i>Drawida</i>	<i>caenosa</i>	Gates, 1945: 61		Sometimes cited "Gates, 1945: 60".
MONILIGASTRIDAE	<i>Drawida</i>	<i>chlorina</i>	(Bourne, 1894: 364)		
MONILIGASTRIDAE	<i>Drawida</i>	<i>coonoorensis</i>	Gates, 1945: 63		
MONILIGASTRIDAE	<i>Drawida</i>	<i>dolosa</i>	Gates, 1945: 64		
MONILIGASTRIDAE	<i>Drawida</i>	<i>fausta</i>	Gates, 1945: 65		
MONILIGASTRIDAE	<i>Drawida</i>	<i>grandis</i>	(Bourne, 1886: 671)	Nilgiris, Tamil Nadu, South India.	Sometimes misdated "Bourne, 1894: 307" eg. by Reynolds & Cook (1976: 108).
MONILIGASTRIDAE	<i>Drawida</i>	<i>loricata</i>	Gates, 1945: 67		
MONILIGASTRIDAE	<i>Drawida</i>	<i>minuta</i>	(Bourne, 1887: 672)		Sometimes misdated "Bourne, 1886: 672" and also miscited as both " <i>Moniligaster minutus</i> Bourne, 1887: 672" and " <i>Moniligaster minuta</i> Bourne, 1894: 372" by Reynolds & Cook (1976: 138).
MONILIGASTRIDAE	<i>Drawida</i>	<i>modesta</i>	Rao, 1921: 525		Sometimes (mis)cited "Rao, 1921: 523"

MONILIGASTRIDAE	<i>Drawida</i>	<i>naduvatamensis</i>	(Bourne, 1894: 361)	Nadivata, Nilgiris Hills, Tamil Nadu.
MONILIGASTRIDAE	<i>Drawida</i>	<i>parva</i>	(Bourne, 1894: 371)	Ootacamund, Gates Possibly a synonym of <i>Species inquirenda</i> . south India; (1972: <i>Drawida barwelli</i> type material 244) calls (Beddard, 1886); also not known; it "sp. mispelt " <i>Drawida</i> also reported dub." <i>parvus</i> ". from Aru Islands near West Papua
MONILIGASTRIDAE	<i>Drawida</i>	<i>pellucida pallida</i>	Michaelsen, 1910: 51	
MONILIGASTRIDAE	<i>Drawida</i>	<i>pellucida pellucida</i>	(Bourne, 1894: 363)	
MONILIGASTRIDAE	<i>Drawida</i>	<i>pellucida raoi</i>	Stephenson, 1926: 255	
MONILIGASTRIDAE	<i>Drawida</i>	<i>ramnadana</i>	Michaelsen, 1907: 145	Ramnad, South India on sandy coastal plains and reported from Bandung NW Java, Indonesia (Dec., 2005)
MONILIGASTRIDAE	<i>Drawida</i>	<i>robusta ophidiodes</i>	(Bourne, 1894: 365)	
MONILIGASTRIDAE	<i>Drawida</i>	<i>robusta robusta</i>	(Bourne, 1887: 672)	<i>Moniligaster indicus</i> Benham, 1893: 363.
MONILIGASTRIDAE	<i>Drawida</i>	<i>rubra</i>	(Bourne, 1887: 672)	From Salem in Often Originally <i>Moniligaster Species</i> the Nilgiri overlooke <i>ruber</i> . Michaelsen <i>inquirenda</i> . Hills of Tamil d from (1900: 120) gives its Nadu. species' authorship but no lists description; Stephenson (1923: 131) only mentions it in passing.

MONILIGASTRIDAE	<i>Drawida</i>	<i>sapphirinaoides</i>	(Bourne, 1887: 672)	Sometimes misspelt "sapphirinoides" eg Reynolds & Cook (1976: 167).
MONILIGASTRIDAE	<i>Drawida</i>	<i>scandens</i>	Rao, 1921: 515	<i>Drawida raii</i> Stephenson, 1921: 755.
MONILIGASTRIDAE	<i>Drawida</i>	<i>shunkarai</i>	Michaelsen, 1913: 4	Misspelt "D. shunkarai" by Stephenson (1932).
MONILIGASTRIDAE	<i>Drawida</i>	<i>sulcata</i>	Michaelsen, 1907: 144	
MONILIGASTRIDAE	<i>Drawida</i>	<i>thurstoni</i>	Gates, 1945: 70	
MONILIGASTRIDAE	<i>Drawida</i>	<i>uniqua</i>	(Bourne, 1887: 671)	Originally <i>Moniligaster</i> <i>uniquus</i> .
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>cernosvitovi</i>	Gates, 1962: 355	Nom. nov. pro <i>M. beddardi</i> Gates, 1940: 496 [non <i>Moniligaster beddardii</i> Rosa, 1890 (?= <i>Drawida</i> <i>barwelli</i>)].
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>deshayesi deshayesi</i>	Perrier, 1972: 130	
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>horsti</i>	Gates, 1940: 42	
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>michaelseni</i>	Gates, 1940: 42	
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>perrieri</i>	Michaelsen, 1907: 146	Often found in water.
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>stephensoni</i>	Gates, 1940: 42	Omitted by Reynolds & Cook (1976).
MONILIGASTRIDAE	<i>Moniligaster</i>	<i>troyi</i>	Jamieson, 1977: 111	
OCTOCHAETIDAE	<i>Dichogaster</i>	<i>annae</i>	(Horst, 1893: 32)	Cosmopolitan Many synonyms, including <i>D. curgensis</i> .
OCTOCHAETIDAE	<i>Dichogaster</i>	<i>bolau</i>	(Michaelsen, 1891: 9)	Cosmopolitan
OCTOCHAETIDAE	<i>Hoplochaetella</i>	<i>stuarti</i>	(Bourne, 1887: 667)	Yercaud, Nandi Hills, Tamil Nadu.
OCTOCHAETIDAE	<i>Octochaetona</i>	<i>barnesi</i>	(Stephenson, 1925: 68)	Andra Praesh and Tamil Nadu.

OCTOCHAETIDAE	<i>Octochaetona</i>	<i>maindroni</i>	(Michaelsen, 1907: 168)	Gingi, Weyre Karur, Tamil Nadu.	<i>Octochaetus maindroni chaperi</i> Michaelsen, 1907: 169.
OCTOCHAETIDAE	<i>Octochaetona</i>	<i>pattoni</i>	(Michaelsen, 1907: 170)	Chennai, Tamil Nadu, India.	
OCTOCHAETIDAE	<i>Octochaetona</i>	<i>serrata</i>	(Gates, 1945: 87)	Chennai, Tamil Nadu, India.	
OCTOCHAETIDAE	<i>Octochaetona</i>	<i>surensis</i>	(Michaelsen, 1910: 88)	Sur Lake, Orissa; Tamil Nadu and Myamnar.	<i>Octochaetus surensis</i> (laps.); <i>O. birmanicus</i> Gates, 1925: 55.
OCTOCHAETIDAE	<i>Octochaetona</i>	<i>thurstoni</i>	(Michaelsen, 1907: 173)	Tamil Nadu.	
OCTOCHAETIDAE	<i>Ramiella</i>	<i>bishambari</i>	(Stephenson, 1914: 347)	Cosmopolitan	? <i>Ramiella parva</i> Stephenson, 1924: 344; <i>Ramiella cultrifera</i> Stephenson, 1931: 187; ? <i>Howascolex sinicus</i> Chen, 1936: 113.
OCTOCHAETIDAE	<i>Wahoscolex</i>	<i>veereshi</i>	Julka, 1988: 362	Karnataka and Nilgiri Hills, Tamil Nadu.	
MEGASCOLECIDAE	<i>Amyntas</i>	<i>corticis</i>	(Kinberg, 1867)	Cosmopolitan.	<i>Megascolex diffringens</i> Baird, 1869; ? <i>Megascolex (Perichaeta)</i> <i>sanctaehelenae</i> Baird, 1873; <i>Perichaeta</i> <i>subquadrangula</i> Grube, 1877 (sometimes misspelt "subquandrangula"); <i>Megascolex</i> <i>indicus</i> Horst, 1883: 186 [non <i>Perichaeta</i> <i>indica</i> : Horst, 1885: 4 (= <i>Pheretima</i> <i>darnleiensis</i>)]; <i>Perichaeta peregrina</i> Fletcher, 1887; ? <i>Perichaeta mirabilis</i> Bourne, 1887; <i>Perichaeta heterochaeta</i>

Michaelsen, 1891; (*Perichaeta ijimae*
 Rosa, 1891)?; *Perichaeta divergens*
 Michaelsen, 1892; *Perichaeta nipponica*
 Beddard, 1892; ?*Perichaeta molokaiensis*
 Beddard, 1896; *Perichaeta heteropoda*
 Goto & Hatai, 1898; (*Pheretima*
marenzelleri Cognetti, 1906)?; ?*Pheretima*
silvestrii Cognetti, 1909; *Pheretima*
divergens yunnanensis Stephenson,
 1912; ?*Pheretima pingi* Stephenson,
 1925; ?*Pheretima sheni* Chen,
 1935; ?*Pheretima directa* Chen, 1935;
Pheretima oyamai Ohfuchi, 1937;
Pheretima tajiroensis Ohfuchi,
 1938; ?*Pheretima homoseta* Chen, 1938:
 414; ?*Pheretima morii* Kobayashi, 1938;
Pheretima toriii Ohfuchi, 1941; *Pheretima*
clerica Benham 1947; *Pheretima campestri*

MEGASCOLECIDAE	<i>Amyntas</i> ?	<i>burliarensis</i>	(Bourne, 1886: 667)	Palni Hills, Nilgiris, Tamil Nadu.	Possibly same as <i>A. rodericensis</i> or <i>Po. elongata</i> ?	Comb. nov.; Species inquirenda.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>aquatilis</i>	(Stephenson, 1921: 756)	Kotagiri, Nilgiris.	Possibly needs reallocation.	Comb. nov.

MEGASCOLECIDAE	<i>Argilophilus</i>	<i>campsiaulus</i>	(Stephenson, 1924: 328)	Vandaravu & Palni Hills.	Kathireswari <i>et al.</i> (2005: 63) give incorrect type which were changed by Reynolds & Cook (1981: 30).	Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>indicus indicus</i>	(Michaelsen, 1907: 148)	Kodaikanal, Palni Hills.	Possibly needs reallocation.	Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>indicus silvestris</i>	(Michaelsen, 1907: 149)	Tiger Shola near Kodaikanal, Palni Hills.	Possibly needs reallocation.	Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>kempi</i>	(Stephenson, 1924: 327)	Kodaikanal, Palni Hills.	Possibly needs reallocation.	Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>macrochaetus macrochaetus</i>	(Stephenson, 1925: 54)	Valparia, Andmali Hills (4,500ft).	Possibly needs reallocation.	Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>macrochaetus simplicisetus</i>	(Jamieson, 1977: 482)	Vandaravu Range.	Possibly junior synonym.	Comb. nov.; Species inquirenda.
MEGASCOLECIDAE	<i>Argilophilus</i>	<i>rallus</i>	(Gates, 1945: 72)	Kodaikanal, Palni Hills.		Comb. nov.
MEGASCOLECIDAE	<i>Argilophilus</i> ?	<i>palniensis</i>	(Michaelsen, 1907: 149)	Tiger Shola, Kodaikanal, S. India.	Male and spermathecal pores unpaired cf. <i>Fletcherodrillus</i> ..	Comb. nov.; Species inquirenda.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>bursata</i>	Jamieson, 1977: 487	Vandarvu	Non <i>Anisochaeta bursata</i> (Jamieson, 1974).	

			Range.	
MEGASCOLECIDAE	<i>Celeriella</i>	<i>ditheca</i>	(Stephenson, 1924: 332)	Kodaikanal, Palni Hills.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>duodecimalis</i>	(Michaelsen, 1907: 152)	Kodaikanal, Palni Hills.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>kempi</i>	(Stephenson, 1924: 332)	Marian Shola, Tamil Naidu.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>punctata</i>	Jamieson, 1977: 489.	Gundar Shola, Palni Hills. Tamil Nadu.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>quadripapillata</i>	(Stephenson, 1924: 331)	Kodaikanal, Palni Hills.
MEGASCOLECIDAE	<i>Celeriella</i>	<i>regularis</i>	(Stephenson, 1924: 330)	Kodaikanal, Palni Hills.
MEGASCOLECIDAE	<i>Diporochaeta</i>	<i>pellucida</i>	(Bourne, 1894: 13)	Ootacamund, Nilgiris (1940: 116) but herein returned to Species inquirenda. (6,700-8,000 ft), and Coonoor, 1930: 237). From a study by Tamil Naidu, Julka (1988: 310- 315) of the types Southern India of <i>Priodoscolex montanus</i> Gates, (Stephenson, 1940: 122 it appears to me that the 1923: 318; the two monotypic genera 1925: 63). <i>Priodochaeta</i> Gates, 1940: 116 and <i>Priodoscolex</i> Gates, 1940: 123 are indistinguishable and should be merged. Julka (1988), as with Gates, has these taxa erroneously in Octochaetidae, herein they are transferred to Megascolecidae.

MEGASCOLECIDAE	<i>Lampito</i>	<i>bouchei</i>	Jamieson, 1977: 496	Tamil Nadu	
MEGASCOLECIDAE	<i>Lampito</i>	<i>kempi</i>	Gates, 1938: 407	Tamil Nadu	
MEGASCOLECIDAE	<i>Lampito</i>	<i>kumiliensis</i>	(Aiyer, 1929: 70)	Tamil Nadu	Karmegam, N. Daniel, T. (2001). A First Report on the Occurrence of a Megascolecid Earthworm, <i>Lampito kumiliensis</i> (Annelida: Oligochaeta) in Sirumalai Hills of Tamil Nadu, South India. ECOLOGY ENVIRONMENT AND CONSERVATION. 7(1): 115-116.
MEGASCOLECIDAE	<i>Lampito</i>	<i>marianae</i>	(Stephenson, 1924: 336)	Tamil Nadu	
MEGASCOLECIDAE	<i>Lampito</i>	<i>mauritii</i>	Kinberg, 1867: 103	Cosmopolitan.	- -
MEGASCOLECIDAE	<i>Lampito</i>	<i>sylvicola</i>	Michaelsen, 1907: 161	Tamil Nadu	
MEGASCOLECIDAE	<i>Lampito</i>	<i>vilpattiensis</i>	Michaelsen, 1907: 160	Tamil Nadu	
MEGASCOLECIDAE	<i>Notoscolex</i>	<i>palniensis</i>	Stephenson, 1924: 333	Marian Shola, Tamil Nadu, South India.	Lumbricine thus restored to its original genus rather than <i>Lampito</i> , <i>Nelloaster</i> , <i>Lennoascolex</i> or what-have-you.
MEGASCOLECIDAE	<i>Megascolex</i>	<i>hendersoni</i>	Michaelsen, 1907: 162	Tamil Nadu	
MEGASCOLECIDAE	<i>Megascolex</i>	<i>imperatrix</i>	(Bourne, 1894: 12)	Lamb's Rock, Coonoor, and Hulikal Droog, Tamil Nadu, South India.	
MEGASCOLECIDAE	<i>Megascolex</i>	<i>konkanensis</i>	Fedarb, 1898: 434	South India and Laccadive Is.	One of four species reported from Tamil Nadu by Senapati <i>et al.</i> (1999) see http://www.fao.org/ag/aGL/agll/soilbiod/cases/caseA1.pdf .
MEGASCOLECIDAE	<i>Megascolex</i>	<i>lawsoni</i>	(Bourne, 1886: 664)	Ootacamund, Nilgiris, Tamil Nadu, India	<i>Megascolex lawsoni</i> Michaelsen, 1921 (from Easton, 1982).

MEGASCOLECIDAE	<i>Megascolex ?</i>	<i>gracilis</i>	(Bourne, 1886: 666)	Naduvatom, Nilgiris Hills.	See Michaelsen (1900), Stephenson (1923: 227).	Species inquirenda.
MEGASCOLECIDAE	<i>Megascolex ?</i>	<i>hulikalisensis</i>	(Bourne, 1886: 668)	Hulikol-drug, Nilgiris, Tamil Nadu.	Apparently omitted from Kathireswari <i>et al.</i> , 2005.	Species inquirenda.
MEGASCOLECIDAE	<i>Metaphire</i>	<i>houletti</i>	(Perrier, 1872: 99)	Cosmopolitan.	Gates (1972: 190, 194) after inspection of types, was apparently added acceptable to Gates (1972: 191)]; various <i>Perichaeta udekemi</i> Michaelsen, 1892: 240 parthenog [Michaelsen originally cited his species as entic "Grube (in litteris)"]; <i>?Perichaeta guillelmi</i> morphs to Michaelsen, 1895 - this synonymy by this taxon, Michaelsen, 1900 doubted by Gates (1935, reversing 1972); <i>Perichaeta crescentica</i> Fedarb, his earlier 1898: 447 (synonymy suggested by opinions. Stephenson, 1923: 305, cf. Michaelsen, 1900); <i>Amyntas kelantanensis</i> Beddard, 1900: 903 - this synonymy from Stephenson (1932: 216); <i>Pheretima wimberleyana</i> Stephenson, 1925 [name misspelt "wimberlayana" by Sims & Easton (1972: 246) and Reynolds & Cook	

					(1976: 190)]; <i>Pheretima houletti</i> var. <i>tortuosa</i> Gates, 1926: 454; <i>Pheretima houletti</i> var. <i>rugosa</i> Gates, 1926: 459; <i>Pheretima campanulata</i> var. <i>penetralis</i> Gates, 1931: 435; <i>Pheretima campanulata</i> var. <i>meridiana</i> Gates, 1932: 457; ? <i>Pheretima yapensis</i> Ohfuchi, 1941 - this last synonym from Gates (1972: 195) while Gates (1972: 192) rejects the
MEGASCOLECIDAE	<i>Notoscolex</i>	<i>scutarius</i>	Michaelsen, 1907: 153	Vilpatti, Tamil Nadu. Possibly belongs in <i>Lenoscolex</i> ?	
MEGASCOLECIDAE	<i>Perionyx</i>	<i>excavatus</i>	Perrier, 1972: 100	Cosmopolitan.	
MEGASCOLECIDAE	<i>Perionyx</i>	<i>saltans</i>	Bourne, 1886: 669	Nilgiris, Tamil Nadu.	
MEGASCOLECIDAE	<i>Perionyx</i>	<i>sansibaricus</i>	Michaelsen, 1891: 4	South India and Zanzibar.	
MEGASCOLECIDAE	<i>Polypheretima</i>	<i>elongata</i>	(Perrier, 1872: 124)	Cosmopolitan	Several.
MEGASCOLECIDAE	<i>Pontodrilus</i>	<i>litoralis</i>	(Grube, 1855)	Cosmopolitan. -	<i>Pontodrilus bermudensis</i> Beddard, 189, etc.
MEGASCOLECIDAE	<i>Travoscolides</i>	<i>dorsochaetus</i>	(Jamieson, 1977: 480)	Gundar Shola, Kodaikanal.	Lumbricine setae; megascolecine tubular prostates and meroic nephridia comply with Australasian <i>Megascolides</i> which, in Comb. nov.; Species inquirenda.

India, Gates, 1940 has
described as
Travoscolides.

MEGASCOLECIDAE	<i>Troyia</i>	<i>gundarshola</i>	Jamieson, 1977: 494	Gundar Shola, Kodaikanal.
EUDRILIDAE	<i>Eudrilus</i>	<i>eugeniae</i>	Kinberg, 1867: 98	Cosmopolitan.

[End TamilNadu Earthworm checklist]