

Chilean earthworms - a checklist of species updated from Seilfeld (2002) and Zicsi (2007)

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Summary

Approximately 88 taxa are listed from Chile and its off-shore islands; most (ca. 59 spp.) are endemic Acanthodrilidae, and ca. 20 spp. are exotic Holarctic Lumbricidae introduced directly or indirectly. Significantly, native Glossoscolecidae are not known. Michaelsen (1904) first listed 49 species from Chile, the current checklist is modified and updated from that provided online by Seilfeld (2002) and from the critical review of 75 taxa by Zicsi (2004) and 77 taxa by Zicsi & Csuzdi (2007). Additional records are compiled from Blakemore (2002) and sources cited in the references. The locations are not thoroughly checked for correct spelling / authority so the list must be used with caution; nor is it claimed that it is a complete species inventory for Chile – rather it's just a working foundation to build upon in lieu of other online taxonomic resources.

American taxa placed by some authors in either *Diploptrema* Spencer, 1900 or *Eodrilus* Michaelsen, 1907, require re-evaluation as the type, *Eodrilus cornigravei* from WA, is in synonymy in *Diploptrema* thus the genus enters synonymy too. Many possibilities exist for generic reallocation (eg. *Hegesipyle* Kinberg, 1782; *Notiodrilus* Michaelsen, 1899; etc.) but, pending resolution, taxa are provisionally transferred to the earlier genus *Microscolex*. See also genera listed in Blakemore (2005) “Review of Southern Ocean, South Atlantic and Subantarctic species after Lee (1994)”.

Survey Results:

Checklist of Chilean species - with distributions mostly from Seilfeld (2002), Zicsi & Csuzdi (2001), and other sources listed in References. Family level taxonomy follows Blakemore (2000). A name with “?” implies some uncertainty of report (or “?” with the genus *Microscolex*, indicates a provisional transfer of a species from *Diploptrema* and/or its junior synonym *Eodrilus*).

Family Lumbricidae - not natives

1. *Allolobophora chlorotica* (Savigny, 1826) Santiago & Talcahuano
2. *Aporrectodea caliginosa* (Savigny, 1826) Juan Fernández, Santiago, Corral, Talcahuano; Titicaca; Isla Chiloe (Zicsi & Csuzdi, 2001)
3. *Aporrectodea rosea rosea* (Savigny, 1826) V Región; Isla Chiloe (Zicsi & Csuzdi, 2001)
4. *Aporrectodea trapezoides* (Dugès, 1828) Isla Chiloe (Zicsi & Csuzdi, 2001)
5. *Dendrobaena hortensis* (Michaelsen, 1890) Santiago
6. *Dendrobaena octaedra octaedra* (Savigny, 1826) Puerto Varas (Zicsi & Csuzdi, 2001)
7. *Dendrobaena pygmaea* (Savigny, 1826) [recorded from Chile as *D. cognettii* (Michaelsen, 1903) by Csuzdi & Zicsi (2003: 115)]
8. *Dendrobaena veneta veneta* (Rosa, 1886) Santiago: Quinta Normal (Sielfeld, 2002 from Muñoz-Pedrerros *et al.*, 1997, 2001)
9. *Dendrodrilus rubidus rubidus* (Savigny, 1826) Santiago, Coronel, Pta. Arenas, T. Del Fuego; Titicaca [including reports of junior synonym *Bimastus constrictus* (Rosa, 1884) from Valparaíso, Talcahuano, Valdivia, Punta Arenas, I. Navarino]; Isla Chiloe (Zicsi & Csuzdi, 2001)
10. *Dendrodrilus rubidus subrubicundus* (Eisen, 1874) listed from central and south Chile by Michaelsen (1900: 491) cf. *De. rubidus rubidus*
11. *Dendrodrilus rubidus tenuis* (Savigny, 1826) [possibly a morph rather than subspecies] reported from Chile by George Brown (pers. comm. Dec. 2006).
12. *Eisenia fetida fetida* (Savigny, 1826) Santiago, Valparaíso, Concepción, Valdivia, etc.
13. *Eisenia fetida andrei* Bouché, 1972 claimed from Chile by Muñoz-Pedrerros *et al.* (1997, 2001) [possible junior synonym of the nominal subspecies]
14. *Eiseniella tetraedra cerni* Blakemore, 2004: 78 [nom. nov. pro *Eiseniella tetraedra* var. *intermedia* Cernosvitov, 1934 (non *Eiseniella intermedius* Jackson, 1931 (= *Eiseniella tetraedra tetraedra*)), reported from Chile by Zicsi (2004) as *Ei. tetraedra intermedia*
15. *Eiseniella tetraedra tetraedra* (Savigny, 1826) Juan Fernández & V Región, Navarino Island
16. *Lumbricus rubellus* Hoffmeister, 1843 Chile record from Muñoz-Pedrerros *et al.* (1997, 2001) and Isla Chiloe (Zicsi & Csuzdi, 2001)
17. *Lumbricus terrestris* Linnaeus, 1758 Chile (Zicsi, 1993; 2004)
18. *Octolasion cyaneum* (Savigny, 1826) Chile record from Muñoz-Pedrerros *et al.* (1997, 2001) and Mt Osorno (Zicsi & Csuzdi, 2001)
19. *Octolasion lacteum lacteum* (Örley, 1881) Isla Chiloe (Zicsi & Csuzdi, 2001)
20. *Octolasion tyrtaeum* (Savigny, 1826) reported from Chile (as well as Argentina) by Mischis (2000; 2004: 269)

Family Glossocolecidae – no known natives; the two reported by Sielfeld (2002), *Andiorrhinus montanus* Zicsi, 1995 and *Tamayodrilus roembkei* Zicsi, 1995, were both from La Paz, Bolivia.

1. *Pontoscolex corethrurus* (Muller, 1857) reported from Chile by Zicsi (2004)

Family Ocnerodrilidae – natives?

1. *Eukerria saltensis* (Beddard, 1895) Juan Fernández, Coquimbo, Valparaíso, El Salto; en sectores arenosos a orillas de esteros & arroyos
2. *Phoenicodrilus taste* Eisen, 1895 Isla Juan, Canal Wide

Family Acanthodrilidae Perrier, 1872 s. Blakemore (2000) - mainly (all?) natives

1. *Acanthodrilus doellojuradoi* Cordero, 1942 [emend., sometimes also reported as “*Eodrilus doello-juradoi*” thus *incertae sedis*, claimed from Chile (as well as Argentina) by Mischis (2004: 269), possibly also from Brazil; name here corrected under ICZN (1999: Art. 32) with hyphen removed]
2. *Chilota bicincta* (Beddard, 1895) (syn. *Acanthodrilus purpureus* Beddard, 1895) “Pictou Island, Smyth Channel, Wide Bay, Juan Island”; Isla Juan: Canal Smyth, Punta Arenas, Islas Picton, Lennox, Navarino; [name sometimes spelt “bicinctus”]
3. *Chilota bidiverticulata* Zicsi, 1993 (syn. originally *Chilota bidiverticulatus*) Limache, Villarrica; Mt Osorno, Nationalpark Puyehue (Zicsi & Csuzdi, 2001)
4. *Chilota carnea* (Beddard, 1895) (syn. *Chilota bertelseni* Michaelsen, 1900) Peña Blanca by *Quilpue*: Valparaíso; tierra en huerto
5. *Chilota chilensis* (Beddard, 1895) Teja Island; Isla Tejas: Valdivia; bajo arboles caidos
6. *Chilota cingulata* (Beddard, 1895) (syn. *Chilota beckmanni* Michaelsen, 1900) Isla Tejas: Valdivia; bajo arboles caidos
7. *Chilota corralensis corralensis* (Beddard, 1895: 222) Los Lagos: Corral “Wald, unter Steinen”
8. *Chilota dalei* (Beddard, 1890) Port Stanley, Falklands; Michaelsen (1900: 155) said that Beddard’s (1896) report from Valdivia, Agua Fresca in Magellan’s Strait and Picton Island were mistaken (cf. *C. bicincta*); however, Zicsi (2004: 114) lists *C. dalei* from Chile so it is provisionally retained
9. *Chilota decipiens* (Beddard, 1895) Estancilla: Valdivia
10. *Chilota farellonensis* Zicsi, 1993 (mispelt “farellonensis” in Sielfeld, 2002) Farellones (or Farrellones), Cordillera de los Andes de Santiago
11. *Chilota fehlandti* Michaelsen, 1900 Collinhue: Valdivia
12. *Chilota hilgeri* (Michaelsen, 1889) Corral: Valdivia (sometimes misspelt “helgeri”)
13. *Chilota lossbergi* Michaelsen, 1900 (1899?) Valdivia

14. *Chilota mahunkai* Zicsi, 1993 Loncoche & Villarrica
15. *Chilota minuta* (Beddard, 1895) Putabla: Valdivia; bajo arboles caidos
16. *Chilota osornoi* Zicsi & Csuzdi, 2001 Mt Osorno volcano
17. *Chilota paessleri* Michaelsen 1904 Coronel
18. *Chilota patagonica* (Kinberg, 1867) [syns. *Mandane litoralis* Kinberg, 1867; *Mandane picta* Michaelsen, 1900?; *Chilota corralensis* v. *belgicae* Cernosvitov, 1934: 254 – listed as synonym but misspelt "*C. patagonica* v. *belgicae*" (laps.) in Zicsi (2004: 115)] Valdivia a Cabo de Hornos e Is. de los Estados; bosques australes; Isla Chiloe, Nationalpark Puyehue (Zicsi & Csuzdi, 2001). [Name sometimes spelt "patagonicus"]
19. *Chilota picta* (Michaelsen, 1889) Valdivia?, Nationalpark Puyehue [Zicsi & Csuzdi, 2001: 130 - as *Chilota pictus* (sic); note Zicsi (2004: 115) lists this both as a synonym of *C. patagonicus* and, as restored by Zicsi & Csuzdi (2001: 130), as a separate taxon]
20. *Chilota platei* (Michaelsen, 1898) Corral
21. *Chilota platura* (Michaelsen, 1892) originally *Acanthodrilus platurus*; Isla Teja: Valdivia; Chiloe, Nationalpark Puyehue (Zicsi & Csuzdi, 2001)
22. *Chilota porteri* Michaelsen, 1904 Chillán
23. *Chilota putablensis* (Beddard, 1895) Putabla: Valdivia; bajo arboles caidos
24. *Chilota simulans* (Beddard, 1895) Corral "Wald, unter Steinen"
25. *Chilota strandi* Michaelsen, 1936/7 Corral & Coronel
26. *Chilota valdiviensis* (Beddard, 1895) Valdivia & Corral Lenox, Tierra del Fuego; bajo arboles caídos
27. *Microscolex* ? *albus* (Beddard, 1895) originally in *Acanthodrilus* and transferred to *Notiodrilus*; Corral "bachrande" - by creek or "Wald, unter Steinen", a orillas de arroyo, bajo piedras; as *Eodrilus albus* from Isla Chiloe, Rio Negro (Zicsi & Csuzdi, 2001); [non *Diplocardia alba* sub-spp from Mexico]
28. *Microscolex* ? *andrassyi* (Zicsi, 1993) Chile
29. *Microscolex bovei* (Rosa, 1889) Islas Falkland, Navarino (Chile), Hoste (Chile), Picton & Nueva (Chile); Punta Arenas; [originally *Notiodrilus mandane bovei*]
30. *Microscolex dubius* (Fletcher, 1887) Valparaíso: El Salto; Cosmopolitan – probably originally from Chile?
31. *Microscolex* ? *irregularis* (Zicsi, 1993) Punta Charrua
32. *Microscolex* ? *loksai* (Zicsi, 1993) from Chile
33. *Microscolex* ? *magellanicus* (Beddard, 1895) Elizabeth Island (Isla Isabela), Magellan Straits
34. *Microscolex michaelseni* Beddard, 1895 South Patagonia, Magellan Straits, Punta Arenas, Tierra del Fuego, Ushuaia, Navarin Island, Porto Toro, "Puerto bridges"; Harberton

- Harbour; bajo arboles caídos. Returned to its original genus, *Microscolex*, from *Yagansia* by Zicsi (1993a; 2005)
35. *Microscolex* ? *occidentalis* (Beddard, 1895) V Región: El Salto; en tierra
 36. *Microscolex* ? *philippii* (Michaelsen, 1900) Lota; en sectores húmedos bajo piedras
 37. *Microscolex phosphoreus* (Dugès, 1837) Valparaíso: El Salto [misspelt “phosphoreus” in Zicsi (2004: 119)], Cosmopolitan, possibly originating from Chile?
 38. *Parachilota coquimboensis* (Michaelsen, 1904) Coquimbo (“coquimbensis” laps. per Zicsi, 2004)
 39. *Parachilota papillata* Zicsi, 1993 Chile [originally *P. papillatus* (sic)]
 40. *Yagansia chiloensis* Michaelsen, 1921 Chiloé
 41. *Yagansia corralensis* (Beddard, 1895: 235) Valdivia: Corral; bajo piedras cerca de arroyos
 42. *Yagansia covarrubiasi* Zicsi, 1989 Tiltil, Cerro El Roble
 43. *Yagansia delfini* Michaelsen, 1900 Araucani; “San Ignacio de Pemehue”? – Sielfeld, 2002
 44. *Yagansia dicastrii* Zicsi, 1989 Curacavi, Santiago, Tiltil
 45. *Yagansia diversicolor* (Beddard, 1895) Valdivia, Estancilla, Corral, Valdiva; “Isla Tejas; bajo piedras & arboles podridos” – Sielfeld, 2002; Isla Chiloe, Mt Osorno, Nationalpark Puyehue (Csuzdi & Zicsi, 2001).
 46. *Yagansia gracilis* (Beddard, 1895) Tierra del Fuego, Ushuaia, Lennox and Picton Islands; “bajo arboles caidos” – Sielfeld, 2002
 47. *Yagansia grandis* Zicsi, 1993 Valdivia
 48. *Yagansia grisea* (Beddard, 1895) Valparaíso, in garden, Quilipué, Coronil, Valdiva, San José; bajo piedras & césped
 49. *Yagansia hajeki* Zicsi, 1989 Islas Desolación, Mornington & Grant
 50. *Yagansia lajaensis* Zicsi & Csuzdi, 2001 Salto del Laja
 51. *Yagansia longiseta* (Beddard, 1895: 229) Tierra del Fuego, Puerto Pantalón, Ushuaia, Navarin, Porto Toro; (Puerto Edén, Islas Mornington & Grant; Ushuaia, Navarino, Hoste; bajo arboles caidos - listed twice in Sielfeld, 2002). Cf. *Y. papillosa*
 52. *Yagansia pallida* (Michaelsen, 1898) Valdivia: Corral
 53. *Yagansia papillosa* (Beddard, 1895: 230) from Canal Smyth, Punta Arenas Patagonia, “forest at Ushuaia” Ushuaia and Is. Steward, Is. Gordon and Is. Lenox in Tierra del Fuego archipelago). Ushuaia, Argentina. [Misspelt “papilosa” in Sielfeld (2002) and in synonymy of *Y. longiseta* in Zicsi (2004: 122) although there are considerable differences in original description as given in Michaelsen (1900b: 160)]
 54. *Yagansia parinacotana* Zicsi, 1989 Caquena & Guallatiri (at 4,789 m)
 55. *Yagansia peruana* Cernovitov, 1939 ?Altiplano (the highland Altiplano just overlaps into

- Chile but the type location is in Peru) – Titicaca, this unconfirmed citation from Sielfeld (2002)
56. *Yagansia rahmi* Michaelsen, 1936 Pucón
 57. *Yagansia robusta* (Beddard, 1895) Valdivia & Isla Tejas; bajo piedras & arboles podridos
 58. *Yagansia spatulifera* (Michaelsen, 1889) (syn. *Y. chilensis* Cognetti, 1906: 25) Valparaíso, Corral, Lota, Valdivia; bajo piedras & arboles caídos; Isla Chiloe, Nationalpark Puyehue, Rio Gol-Gol (Zicsi & Csuzdi, 2001)
 59. *Yagansia villarricai* Zicsi & Csuzdi, 2001 Mt Villarrica

Family Octochaetidae s. Blakemore (2000) – not native

1. *Dichogaster (Diplotheodrilus) affinis* (Michaelsen, 1890) from Chile in Zicsi (2004: 123)
2. *Dichogaster (Diplotheodrilus) bolau*i (Michaelsen, 1891) reported from Chile (as well as Argentina) by Mischis (2000; 2004: 269)

Family Megascolecidae s. Blakemore (2000) – not natives

1. *Amyntas gracilis* (Kinberg, 1867) Santiago: Quinta Normal.
2. *Amyntas morrissi* (Beddard, 1892) (as *P. sanctijacobi* from Santiago, Quinta normal – Beddard, 1895; overlooked by Sielfeld, 2002)
3. *Metaphire californica* (Kinberg, 1867) Chile and Argentina by Mischis (2000; 2004: 269)

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[End of Chile Checklist].