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An annotated list of the centipedes (Chilopoda) in the National Collection of Arachnids, Instituto de Biología, Universidad Nacional Autónoma de México. Addendum: Scutigermorpha and Scolopendromorpha

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An annotated list of the centipedes (Chilopoda) in the National Collection of Arachnids, Instituto de Biología, Universidad Nacional Autónoma de México. Addendum: Scutigermorpha and Scolopendromorpha

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**Abstract.** This addendum to “An annotated list of the centipedes (Chilopoda) in The National Collection of Arachnids (Colección Nacional de Arácnidos, CNAN), Instituto de Biología, Universidad Nacional Autónoma de México” (México City), is based on new samples deposited in the last three years. It updates the preliminary list of 197 samples determined to genus and/or species. In this paper a total of 132 samples were added: Scutigermorpha, 27; and Scolopendromorpha, 105. It also provides new state distribution records for *Dendrothereua linceci* (Wood, 1867), *Scolopendra morsitans* Linnaeus, 1758, *S. polymorpha* Wood, 1861, *Rhysida immarginata* (Porat, 1876), *Scolopocryptops melanostomus* Newport, 1845, *Newportia spinipes* Pocock, 1896, and *Ectonocryptoides quadrimeropis* Shelley and Mercurio, 2005.

**Resumen.** Adiciones a la “Lista anotada de ciempiés (Chilopoda) de la Colección Nacional de Arácnidos (CNAN) del Instituto de Biología de la Universidad Nacional Autónoma de México” (Ciudad de México), se realizaron a partir de la revisión de nuevas muestras depositadas en los últimos tres años. Con estas adiciones se actualiza la lista preliminar de 197 muestras determinadas a nivel de género y/o especie. En este trabajo se adicionan en total 132 muestras: Scutigermorpha, 27; y Scolopendromorpha, 105. También se proporcionan nuevos registros de distribución estatal para *Dendrothereua linceci* (Wood, 1867), *Scolopendra morsitans* Linnaeus, 1758, *S. polymorpha* Wood, 1861, *Rhysida immarginata* (Porat, 1876), *Scolopocryptops melanostomus* Newport, 1845, *Newportia spinipes* Pocock, 1896, y *Ectonocryptoides quadrimeropis* Shelley y Mercurio, 2005.

## Introduction

Cupul-Magaña (2010a) published the first annotated list of the centipedes (Chilopoda) housed in The National Collection of Arachnids (Colección Nacional de Arácnidos, CNAN), Instituto de Biología, Universidad Nacional Autónoma de México in México City. He listed 197 samples determined to genus and/or species level from the orders Scutigermorpha [one sample; one species: *Scutigera linceci* (Wood, 1867)], Lithobiomorpha [11 samples; six species: *Arebius altimontis* Chamberlin, 1943; *Delobius corraei* Chamberlin, 1943; *Labrobium boneti* Chamberlin, 1943; *Mayobium atliacanus* Chamberlin, 1943; *Mexicobium alvarezi* Chamberlin, 1943; and *Lamyctes tolucanus* Chamberlin, 1943], Scolopendromorpha [182 samples; 10 species and two genera: *Arthrorhabdus pygmaeus* (Pocock, 1895); *Cormocephalus* sp. Newport, 1844; *Cormocephalus impressus* Porat, 1876; *Scolopendra morsitans* Linnaeus, 1758; *S. polymorpha* Wood, 1861; *S. viridis* Say, 1821; *Rhysida immarginata* (Porat, 1876); *R. longipes* (Newport, 1845); *Scolopocryptops ferrugineus* (Linnaeus, 1767) (= *Scolopocryptops mexicanus* Humbert and Saussure, 1869; following Chagas-Júnior 2008); *S. melanostomus* Newport, 1845; *S. sexspinus* (Say, 1821); and *Cryptops* spp. Leach, 1815], and Geophilomorpha [three samples; two species: *Watophilus hulenius* (Chamberlin, 1943); and *Arcophilus toltecus* Chamberlin, 1943].

Three years after the first review of the collection, I examined newly deposited samples and here update information on distributional records of the centipede species that inhabit México.

## Material and methods

The new samples were examined and comprise 132 samples: 27 Scutigermorpha, and 105 Scolopendromorpha. Unidentified material was examined with a Zeiss Stemi SV 11 stereoscope (10x–40x

magnification). I determined them using the publications of Pocock (1895–1910), Schileyko and Minelli (1998), Shelley (2002), Chagas-Júnior (2003, 2008), Chagas-Júnior and Shelley (2003), and Edgecombe and Cupul-Magaña (2008). Specimens examined were labeled and stored in glass tubes and preserved in 70% ethanol. They are all deposited in The National Collection of Arachnids (Colección Nacional de Arácnidos, CNAN), Instituto de Biología, Universidad Nacional Autónoma de México in México City. In Distribution records, new state records are in bold.

#### List of identified materials in the CNAN

**Class Chilopoda Latreille, 1817**  
**Subclass Notostigmophora Verhoeff, 1901**  
**Order Scutigermorpha Pocock, 1895**  
**Family Scutigerae Leach, 1814**  
**Subfamily Scutigerinae Verhoeff, 1904**

#### *Dendrothereua lincei* (Wood, 1867)

*Cermatia lincei* Wood, 1867

*Scutigera lincei* (Wood, 1867)

*Scutigera mexicana* Saussure and Humbert, 1872

*Scutigera occidentalis* Meinert, 1886

*Dendrothereua arborum* Verhoeff, 1944

**Type locality.** USA: Texas.

**Exemplars examined.** **Chiapas:** CNAN-SCU000004, San José Monte Bello, 20/XI/1950, 1 exemplar (ex.); CNAN-SCU000017, Comitán, 24/XII/1960, 1 ex. **Distrito Federal:** CNAN-SCU000007, México, D.F., X/1963, 1 ex.; CNAN-SCU000005, Bosque de Chapultepec, México, D.F., 1/VI/1966, collector (coll.) M. Rojas, 1 ex.; CNAN-SCU000002, Instituto de Biología, UNAM, VIII/1993, coll. W. López-Forment, 1 ex.; CNAN-SCU000001, Colonia Santo Domingo, Coyoacán, without date, house indoor, coll. E. González, 1 ex., **(new state record)**. **Hidalgo:** CNAN-SCU000003, Santa María Ilucan, Tula, 1/III/1953, 1 ex., **(new state record)**. **Jalisco:** 3 km to Ayutla, 20/I/1966, coll. C. R. Beutelspacher, 2 exemplars (exs.); CNAN-SCU000021, Volcán San Martín, 30/I/2001, 1 ex.; Área Natural Protegida (ANP) Piedra Bola, municipality of Aqualulco del Mercado, 30/III/2012, 1,894 m elevation (elev.), 20.65225° N–104.05682° W, pine-oak forest, collectors (colls.) L. Olguín, J. Mendoza, G. Contreras, C. Santibañez, D. Ortiz, 1 ex.; Reserva de la Biosfera Sierra de Manantlán, Ejido Ahuacapan, Autlán, 2/IV/2012, 1,967 m elev., 19.60469° N–104.29914° W, colls. C. Santibañez, L. Olguín, D. Ortiz, J. Mendoza, G. Contreras, 1 ex. **Michoacán:** CNAN-SCU000024, municipality of Tingambato, 13/X/1999, coll. E. González, 2 exs. **Morelos:** CNAN-SCU000009, Tepoztlán road, 20/VI/1948, 2 exs., **(new state record)**. **Oaxaca:** CNAN-SCU000018, Teotitlán, km 165, 29/IX/1990, 1 ex.; CNAN-SCU000020, La Petenera, 6/IX/2006, in bromeliad *Tillandsia prodigiosa*, 1 ex.; CNAN-SCU000013, 8 km SW Santiago Astata, 19/IX/2000, coll. J. Castelo, 2 exs.; CNAN-SCU000012, San Felipe comunal village, 12/XI/2005, 17.116294° N–96.714306° W, colls. O. Francke, G. Montiel, C. Santibañez, 2 exs.; Cueva del Diablo, 2 km W to Acatlán, municipality of Acatlán de Pérez Figueroa, 4/IX/2010, 156 m elev., 18.57637° N–97.60679° W, pine forest, colls. A. Valdez, O. Francke, D. Barrales, C. Santibañez, 1 ex. **Puebla:** CNAN-SCU000015, Villa Juárez, 12/XI/1950, 1 ex., **(new state record)**. **Quintana Roo:** CNAN-SCU000016, Reserva Ecológica “El Edén”, municipality of Lázaro Cárdenas, 7/VII/2007, 50 m elev., 20.20039° N–87.19514° W, colls. R. Paredes, G. Montiel, 1 ex., **(new state record)**. **San Luis Potosí:** CNAN: SCU000008, Xilitla, 9/VII/2000, 1 ex., **(new state record)**. **Tabasco:** Gruta de Coconá, Teapa, 13/IV/1960, 1 ex., **(new state record)**.

**Geographical distribution.** See Cupul-Magaña (2010a).

**Distribution in México.** Chiapas, **Distrito Federal**, Guerrero, **Hidalgo**, Jalisco, Michoacán, **Morelos**, Oaxaca, **Puebla**, **Quintana Roo**, **San Luis Potosí**, **Tabasco**, and Veracruz (Edgecombe and Cupul-Magaña 2008; Cupul-Magaña 2010a).

**Remark.** The genus name *Scutigera* cited in Cupul-Magaña (2010a) is referred to here as *Dendroth-ereua* according to Edgecombe and Giribet (2009).

**Order Scolopendromorpha Pocock, 1895**

**Family Scolopendridae Leach, 1815**

**Subfamily Scolopendrinae Leach, 1815**

***Scolopendra heros* Girard, 1853**

*Scolopendra castaneiceps* Wood, 1861

*Scolopendra heros* var. *castaneiceps* Wood, 1865

*Scolopendra pernix* Kohlrausch, 1881

*Scolopendra heros* var. *prismatica* Cragin, 1885

*Scolopendra heros* var. *arizonensis* Kraepelin, 1903

*Scolopendra heros* var. *heros* Attems, 1930

*Scolopendra heros arizonensis* Sandefer, 1998

*Scolopendra heros castaneiceps* Sandefer, 1998

*Scolopendra heros heros* Sandefer, 1998

**Type locality (for neotype).** USA: Mt. Scott, Wichita Mountains Wildlife Refuge, Comanche Country, Oklahoma (NMNH: National Museum of Natural History, Smithsonian Institution, Washington, DC).

**Exemplars examined. Sonora:** Álamos, municipality of Álamos, 12/VII/2006, 2 exs.

**Geographical distribution.** México, and USA (Shelley 2002).

**Distribution in México.** Chihuahua, Coahuila, Colima, Sonora, Sinaloa, and Nayarit (Shelley 2002; Cupul-Magaña 2010b).

***Scolopendra morsitans* Linnaeus, 1758**

*Scolopendra brandtiana* Gervais, 1837

*Scolopendra bilineata* Brandt, 1840

*Scolopendra crassipes* Brandt, 1840

*Scolopendra erythrocephala* Brandt, 1840

*Scolopendra limbata* Brandt, 1840

*Scolopendra platypus* Brandt, 1840

*Scolopendra elegans* Brandt, 1841

*Scolopendra fulvipes* Brandt, 1841

*Scolopendra morsitans scopoliiana* Koch, 1841

*Scolopendra angulipes* Newport, 1844

*Scolopendra leachii* Newport, 1844

*Scolopendra longicornis* Newport, 1844

*Scolopendra platypoides* Newport, 1844

*Scolopendra tuberculidens* Newport, 1844

*Scolopendra algerina* Newport, 1845

*Scolopendra fabricii* Newport, 1845

*Scolopendra formosa* Newport, 1845

*Scolopendra richardsoni* Newport, 1845

*Scolopendra tigrina* Newport, 1845

*Scolopendra varia* Newport, 1845

*Scolopendra infesta* Koch, 1847

*Scolopendra planipes* Koch, 1847

*Scolopendra tongana* Gervais, 1847

*Scolopendra pella* Wood, 1861

*Scolopendra porphyratina* Wood, 1861



*Scolopendra brachypoda* Peters, 1862  
*Scolopendra compressipes* Wood, 1862  
*Scolopendra modesta* Wood, 1862  
*Scolopendra mossambica* Peters, 1862  
*Scolopendra carinipes* Humbert and Saussure, 1870  
*Scolopendra afzelii* Porat, 1871  
*Scolopendra attenuata* Porat, 1871  
*Scolopendra chlorocephala* Porat, 1871  
*Scolopendra cognata* Porat, 1871  
*Scolopendra intermedia* Porat, 1871  
*Scolopendra picturata* Porat, 1871  
*Scolopendra pilosella* Porat, 1871  
*Scolopendra saltatoria* Porat, 1871  
*Scolopendra vaga* Porat, 1871  
*Scolopendra wahlbergi* Porat, 1871  
*Scolopendra impressa* Porat, 1876  
*Euryolithobius slateri* Butler, 1876  
*Scolopendra morsitans procera* Haase, 1887  
*Scolopendra morsitans sulcipes* Haase, 1887  
*Scolopendra morsitans calcarata* Daday, 1891  
*Scolopendra grandidieri* Saussure and Zehntner, 1902  
*Scolopendra lineata* Saussure and Zehntner, 1902  
*Scolopendra spinosella* Saussure and Zehntner, 1902  
*Scolopendra morsitans fasciata* Attems, 1930  
*Scolopendra morsitans amazonica* Bücherl, 1946  
*Trachycormocephalus jodhpurensis* Khanna, 1977

**Type locality.** India, with no more information.

**Exemplars examined. Coahuila:** Cuatro Ciénegas, Laguna de Churince, 18/II/2012, colls. J. L. Villalobos, S. Rodríguez, 1 ex., (**new state record**). **Morelos:** outside Cueva de San Juan Tlacotenco, Tepoztlán, 13/IV/2012, 2,300 m elev., 19.0137° N–99.09413° W, colls. L. Olguín, R. Monjaraz, J. Mendoza, D. Barrales, G. Contreras, D. Ortiz, C. Santibañez, 1 ex., (**new state record**). **Oaxaca:** 191 km road Mitla-Tehuantepec, municipality of Santa María Jalapa de Marques, 14/XII/2011, 461 m elev., 16.40574° N–95.69783° W, scrub-lowland forest, colls. J. Mendoza, G. Contreras, E. Hijmensen, E. Goyer, 1 ex. **Puebla:** bus stop Mezquites, municipality of Coxcatlán, 10/IX/2010, 1,086 m elev., 18.30288° N–97.21601° W, xerophilic scrub, colls. A. Valdez, O. Francke, J. A. Cruz, D. Barrales, 1 ex., (**new state record**). **Querétaro:** outside Cueva El Llano del Conejo, 7/V/2011, 2,003 m elev., 21.37851° N–99.10018° W, colls. O. Francke, G. Contreras, J. Cruz, R. Monjaraz, A. Valdez, 1 ex., (**new state record**).

**Geographical distribution.** See Cupul-Magaña (2010a).

**Distribution in México.** Baja California Sur, **Coahuila**, Colima, Distrito Federal, Estado de México, Jalisco, **Morelos**, Oaxaca, **Puebla**, **Querétaro**, Tamaulipas, Veracruz and Yucatán, Cayo Arenas, Gulf of México (Shelley et al. 2005; Cupul-Magaña 2010a, c).

***Scolopendra polymorpha* Wood, 1861**

*Scolopendra copeiana* Wood, 1862  
*Scolopendra copeana* Wood, 1865  
*Scolopendra mysteca* Humbert and Saussure, 1869  
*Scolopendra californica* Humbert and Saussure, 1870  
*Scolopendra pachypus* Kohlrausch, 1878  
*Scolopendra leptodera* Kohlrausch, 1881  
*Scolopendra viridilimbata* Daday, 1891

*Scolopendra copeiana gaumeri* Pocock, 1895  
*Scolopendra mohavea* Chamberlin, 1912  
*Scolopendra polymorpha pueblae* Chamberlin, 1915  
*Scolopendra viridis polymorpha* Attems, 1930  
*Scolopendra michelbacheri* Verhoeff, 1938

**Type locality (for lectotype).** USA: Kansas, Riley County, Fort Riley (ANSP: The Academy of Natural Sciences, Philadelphia, Pennsylvania).

**Exemplars examined.** **Chihuahua:** dirt road La Bufa-Samachique, 1 km to Quirare, 2/VIII/2005, 1,972 m elev., 27° 9.067' N–107° 33.986' W, colls. O. Francke, K. McWest, J. Ballesteros, H. Montaña, L. Jarvis, 3 exs. **Guerrero:** Ixtapa Zihuatanejo, IX/2004, 3 exs. **Hidalgo:** municipality of Zimapán, VI/2002, 3 exs. **Jalisco:** Reserva de la Biosfera Sierra de Manantlán, Ejido Ahuacapan, Autlán, 2/IV/2012, 1,967 m elev., 19.60469° N–104.29914° W, colls. C. Santibañez, L. Olgún, D. Ortíz, J. Mendoza, G. Contreras, 1 ex.; 30 km W to Ameca, Los Otates bridge, without date, 20° 31.879' N–104° 15.564' W, 1,497 m elev., colls. O. Francke, J. Ponce, M. Córdova, A. Jaimes, G. Francke, V. Capovilla, 1 ex. **Michoacán:** Landero, municipality of Benito Juárez, 24/XII/2006, 1,719 m elev., 19° 18.925' N–100° 22.930' W, coll. A. Valdez, 2 exs., (**new state record**). **Nuevo León:** El Nogal, municipality of Agualeguas, III/2002, 2 exs. **Oaxaca:** CNAN-CH000280, El Cerezo, 27/III/2006, in bromeliad *T. prodigiosa*, 1 ex. **Puebla:** CNAN-CH000410, federal road México-Puebla, I-IX/2005, coll. B. Villa, 1 ex.; bus stop Mezquites, municipality of Coxcatlán, 10/IX/2010, 1,086 m elev., 18.30288° N–97.21601° W, xeroflic scrub, colls. A. Valdez, O. Francke, J.A. Cruz, D. Barrales, 1 ex. **Querétaro:** Río Blanco, municipality of Peñamiller, VI/2007, 1 ex. **Sinaloa:** El Fuerte, municipality of El Fuerte, 14/VIII/2002, 1 ex.; El Varejonal, municipality of Badiraguato, 18/VIII/2002, 1 ex. **Sonora:** Hermosillo, 18/VI/2004, 1 ex.; Cerro La Huertita, Sierra Aconchi, municipality of Aconchi, 7/VII/2012, 1,860 m elev., 29.80500° N–110.35333° W, pine-oak forest, colls. T. R. Van Devender, N. S. Deyo, 1 ex.; W of Mazatán, municipality of Mazatán, 13/VIII/2012, 550 m elev., 29.00427° N–110.14806° W, colls. T. R. Devender, J. Palting, 1 ex.; Rancho de Los Alisos, Sierra Aconchi, municipality of Aconchi, 2/IX/2012, 1,301 m elev., 29.79833° N–110.31972° W, riparian and oak forest, colls. T. R. Van Devender, A. L. Reina, 2 exs.; Rancho de Los Jácaros, Sierra Aconchi, municipality of Aconchi, 4/IX/2012, 1,364 m elev., 29.78556° N–110.34056° W, riparian and oak forest, colls. T. R. Van Devender, A. L. Reina, 1 ex. **Tamaulipas:** Guayalejo, municipality of Llera, 25/V/2003, 1 ex.

**Geographical distribution.** See Cupul-Magaña (2010a).

**Distribution in México.** Baja California, Baja California Sur, Chihuahua, Coahuila, Distrito Federal, Durango, Guerrero, Hidalgo, Jalisco, **Michoacán**, Morelos, Nuevo León, Oaxaca, Puebla, Querétaro, Sinaloa, Sonora, Tamaulipas, and Zacatecas (Shelley 2002; Cupul-Magaña 2009, 2010a).

***Scolopendra viridis* Say, 1821**

*Scolopendra azteca* Saussure, 1860  
*Scolopendra otomita* Saussure, 1860  
*Scolopendra viridis tolteca* Saussure, 1860  
*Scolopendra microcanthus* Bollman, 1889  
*Scolopendra cuivis* Pocock, 1891  
*Scolopendra nicaraguensis* Bollman, 1893  
*Scolopendra tenuitarsis* Pocock, 1895  
*Scolopendra utahana* Chamberlin, 1925

**Type locality (for syntype).** USA: unknown site in coastal Georgia or Florida (BMNH: The Natural History Museum, London, United Kingdom).

**Exemplars examined.** **Distrito Federal:** Parque Sierra de Guadalupe, Coacalco, 13/VIII/2011, 2,415 m elev., 19.608074° N–99.094222° W, coll. D. Barrales, 1 ex.; Río Hondo, 25/XII/2012, coll. H. Brailovsky,

1 ex. **Estado de México:** La Laguna, 26/X/2002, 1,572 m elev., 18° 47.535' N–99° 36.105' W, colls. E. González, I. Santamaría, 1 ex. **Guerrero:** 8 km SE Chilpancingo, municipality of Chilpancingo, 21/IX/2012, 1,596 m elev., 17.56418° N–99.55062° W, colls. J. Cruz, J. Mendoza, G. Contreras, D. Ortiz, 1 ex. **Jalisco:** km 37 road Los Volcanes-Ayutla, 9/VII/2005, 1,886 m elev., 20° 15.241' N–104° 28.834' W, colls. O. Francke, J. Ponce, M. Córdova, A. Jaimes, G. Francke, V. Capovilla, 1 ex.; Área Natural Protegida (ANP) Piedra Bola, municipality of Ahualulco del Mercado, 30/III/2012, 1,894 m elev., 20.65225° N–104.05682° W, pine-oak forest, colls. L. Olguín, J. Mendoza, G. Contreras, C. Santibañez, D. Ortiz, 2 exs.; 4 km E Tapalpa, municipality of Tapalpa, 3/IV/2012, 2,261 m elev., 19.96645° N–103.72646° W, pine forest, colls. L. Olguín, J. Mendoza, G. Contreras, C. Santibañez, D. Ortiz, 2 exs.; Mesa del Ocote, municipality of Chapala, 8/VII/2012, 2,300 m elev., 20° 20' 18.4" N–103° 15' 11.5" W, colls. M. Vázquez, J. Ascencio, G. Contreras, 2 exs.; Área Natural Protegida (ANP) de Piedra Bola, municipality of Ahualulco del Mercado, 17/VII/2012, 1,880 m elev., 20.6517° N–104.05764° W, colls. O. Francke, G. Contreras, D. Barrales, A. Valdez, 1 ex.; Cerro de La Tetilla, municipality of Talpa de Allende, 21/VII/2012, 2,427 m elev., 20.36564° N–104.99385° W, colls. O. Francke, G. Contreras, D. Barrales, A. Álvarez, 1 ex.; Ejido Toledo y Yerbabuena, municipality of Talpa de Allende, 21/VII/2012, 2,238 m elev., 20.37728° N–104.98260° W, colls. O. Francke, G. Contreras, D. Barrales, A. Álvarez, 1 ex. **Hidalgo:** Tasquillo, IV/2002, 1 ex.; 2.5 km junction Tianguistengo road, Zacualtitán de Ángeles, 8/X/2011, 2,100 m elev., 20.67485° N–98.66895° W, 2 exs. **Michoacán:** Centro Ecoturístico Pantzingo, Nuevo San Juan Parangaricutiro, 23/X/2009, 2,428 m elev., 19° 29.654' N–102° 11.940' W, pine-oak forest, coll. G. Montiel, 1 ex. **Morelos:** Airport, Cuernavaca, 19/VII/2002, 1 ex.; CNAN-CH000404, Oaxtepec, 12/VI/2006, coll. R. Bolaños, 1 ex.; CNAN-CH000397, Cuautla, 31/VI/2007, coll. H. Brailovsky, 1 ex.; CNAN-CH000403, Cuautla, 15/II/2010, coll. H. Brailovsky, 1 ex.; 1 km E San Juan Tlacotenco, Parque Nacional El Tepozteco, Tepoztlán, 13/IV/2012, 2,420 m elev., 19.0178° N–99.001° W, colls. L. Olguín, R. Monjaraz, J. Mendoza, D. Barrales, G. Contreras, D. Ortiz, C. Santibañez, 1 ex.; Cuautla, 17/VII/2012, coll. A. Reyes, 1 ex. **Nayarit:** Volcán Ceboruco, municipality of Jala, 1/IV/2012, 1,922 m elev., 21.11760° N–104.50126° W, pine forest, colls. L. Olguín, J. Mendoza, G. Contreras, C. Santibañez, D. Ortiz, 1 ex.; Volcán Ceboruco, municipality of Jala, 18/VII/2012, 2,048 m elev., colls. O. Francke, G. Contreras, D. Barrales, A. Valdez, 2 exs. **Oaxaca:** CNAN-CH000276, 26/IX/2006, El Cerezo, in bromeliad *T. calothyrsus*, 1 ex.; CNAN-CH000277, El Cerezo, 14/IX/2005, in bromeliad *T. carlos-hankii*, 1 ex.; CNAN-CH000278, El Cerezo, 6/IX/2006, in bromeliad *T. carlos-hankii*, 1 ex.; CNAN-CH000279, El Cerezo, 26/IX/2006, in bromeliad *T. bourgaei*, 1 ex.; CNAN-CH000281, El Cerezo, 9/X/2006, in bromeliad *T. viridiflora*, 1 ex.; CNAN-CH000282, El Cerezo, 27/III/2006, in bromeliad *T. bourgaei*, 1 ex.; CNAN-CH000283, El Cerezo, 27/III/2006, in bromeliad *T. calothyrsus*, 1 ex.; CNAN-CH000284, 27/III/2006, in bromeliad *T. bourgaei*, 1 ex.; CNAN-CH000285, La Petenera, without date, in bromeliad *T. prodigiosa*, 1 ex.; CNAN-CH000286, La Petenera, 14/VIII/2005, in bromeliad *T. prodigiosa*, 1 ex.; CNAN-CH000287, El Cerezo, 26/IX/2006, in bromeliad *T. calothyrsus*, 1 ex.; El Cerezo, 14/IX/2005, in bromeliad *T. carlos-hankii*, 1 ex.; El Naranjo, Nizanda, 18/III/2011, 108 m elev., 16° 40' 55.6" N–95° 2' 13.6" W, colls. G. Montiel, G. Contreras, V. Córdoba, D. Barrales, 1 ex. **Puebla:** CNAN-CH000410, federal road México-Puebla, I-IX/2005, coll. B. Villa, 4 exs. **Querétaro:** outside Cueva El Llano del Conejo, 7/V/2011, 2,003 m elev., 21.37851° N–99.10018° W, colls. O. Francke, G. Contreras, J. Cruz, R. Monjaraz, A. Valdez, 4 exs. **Sonora:** municipality of Imuris, 16/II/2012, 744 m elev., 30° 42' 50" N–110° 55' 19" W, riparian forest, coll. T. R. Van Devender, 2 exs.; Cerro La Huertita, Sierra Aconchi, municipality of Aconchi, 7/VII/2012, 1,860 m elev., 29.80500° N–110.35333° W, pine-oak forest, colls. T. R. Van Devender, N. S. Deyo, 2 exs. **Veracruz:** Totalco, municipality of Perote, VIII/2006, 1 ex.

**Geographical distribution.** See Cupul-Magaña (2010a).

**Distribution in México.** Baja California, Baja California Sur, Chiapas, Chihuahua, Coahuila, Colima, Distrito Federal, Durango, Estado de México, Guanajuato, Guerrero, Hidalgo, Jalisco, Michoacán, Morelos, Nayarit, Nuevo León, Oaxaca, Puebla, Querétaro, San Luis Potosí, Sinaloa, Sonora, Tamaulipas, Veracruz, and Zacatecas (Shelley 2002; Cupul-Magaña 2007; Cupul-Magaña 2010a).



**Subfamily Otostigminae Kraepelin, 1903*****Rhysida immarginata* (Porat, 1876)***Branchiostoma gymnopus* Kohlrausch, 1878*Branchiostoma immarginata celebense* Haase, 1887*Branchiostoma indicum* Kohlrausch, 1878*Branchiostoma subspinosum* Tömösváry, 1885*Rhysida nuda brevicornis* Wang, 1951*Rhysida nuda brevicornuta* Wang, 1951**Type locality.** Philippines: Manila.

**Exemplars examined.** **Estado de México:** El Llano, near 4.5 km for Santa Bárbara Hydroelectric Power Plant, Santo Tomás de Los Plátanos, 7/VIII/2012, 1,326 m elev., 19.16079° N–100.30276° W, colls. D. Barrales, R. Monjaraz, P. Ortíz, C. Santibanez, 1 ex., (**new state record**). **Quintana Roo:** “Alfredo Barrera Medina” Botanical Garden, Puerto Morelos, 20/VII/2010, 23 m elev., 20.84596° N–86.90329° W, colls. O. Francke, J. Cruz-López, C. Santibañez, G. Montiel, D. Barrales, G. Contreras, M. Paradiz, 2 exs.; Rancho Guadalupe, municipality of Solidaridad, 21/VII/2010, 16 m elev., 20.74276° N–86.98919° W, colls. O. Francke, J. Cruz-López, C. Santibañez, G. Montiel, D. Barrales, G. Contreras, M. Paradiz, 6 exs., (**new state record**).

**Geographical distribution.** See Cupul-Magaña (2010a).**Distribution in México.** Chiapas, Durango, **Estado de México**, Guerrero, Jalisco, **Quintana Roo**, and Tabasco (Pocock 1895–1910, Cupul-Magaña 2010a,b).**Remark.** Cupul-Magaña and González-Salazar (2011) used ecological niche modeling to predict the distribution of *R. immarginata* in Estado de México and Quintana Roo.**Family Scolopocryptopidae Pocock, 1896****Subfamily Scolopocryptopinae Pocock, 1896*****Scolopocryptops melanostoma* Newport, 1845***Scolopocryptops luzonicus* Kohlrausch, 1879*Scolopocryptops boholiensis* Kohlrausch, 1881*Scolopocryptops megacephalus* Kohlrausch, 1881*Scolopocryptops geophilicornis* Tömösváry, 1885*Scolopocryptops luzonica* Haase, 1887*Otocryptops luzonica* var. *australis* Haase, 1887*Otocryptops luzonica* var. *celebensis* Haase, 1887*Scolopocryptops longiceps* Pocock, 1891*Otocryptops melanostoma* Pocock, 1893*Otocryptops luzonicus* Pocock, 1894*Otocryptops aculeatus* Attems, 1897*Otocryptops melanostomus* Kraepelin, 1903*Otocryptops verdescens* Chamberlin, 1921*Scolopocryptops melanostomus* Crabill, 1953**Type locality.** St. Vincent and the Grenadines.

**Exemplars examined.** **Querétaro:** outside Cueva El Llano del Conejo, 7/V/2011, 2,003 m elev., 21.37851° N–99.10018° W, colls. O. Francke, G. Contreras, J. Cruz, R. Monjaraz, A. Valdez, 1 ex., (**new state record**). **Veracruz:** CNAN-TUX00005, 3 km E Ejido Ruiz Cortinez, municipality of San Andrés Tuxtla, 12/I/2012, 1,152 m elev., 18.52357° N–95.14105° W, colls. O. Francke, G. Montiel, J. Cruz, R. Monjaraz, 1 ex.

**Geographical distribution.** See Chagas-Júnior (2008) and Cupul-Magaña (2010a).

**Distribution in México.** Chiapas, Estado de México, **Querétaro**, Nayarit, and Veracruz (Chagas-Júnior 2008, Cupul-Magaña 2010a).

### Subfamily Newportiinae Pocock, 1895

#### *Newportia spinipes* Pocock, 1896

**Type locality.** México: Guerrero, Omilteme (= Omiltemi).

**Exemplars examined. Jalisco:** Mesa del Ocote, municipality of Chapala, 8/VII/2012, 2,300 m elev., 20° 20' 18.4" N–103° 15' 11.5" W, colls. M. Vázquez, J. Ascencio, G. Contreras, 1 ex., (**new state record**).

**Geographical distribution.** México (Schileyko and Minelli 1998; Chagas-Júnior and Shelley 2003).

**Distribution in México. Jalisco,** Guerrero, and Nuevo León (Schileyko and Minelli 1998; Chagas-Júnior and Shelley 2003).

**Remark.** Mesa del Ocote, Jalisco is the second confirmed locality for *N. spinipes*, the first one is Omilteme, Guerrero according to Chagas-Júnior and Shelley (2003).

#### *Newportia stollii* (Pocock, 1896)

*Newportia mimetica* Chamberlin, 1922

*Newportia sulana* Chamberlin, 1922

**Type locality.** Guatemala: Quezaltenango (= Quetzaltenango).

**Exemplars examined. Chiapas:** Gruta de Arcotete, municipality of San Cristobal de las Casas, 17/VI/2011, 2,323 m elev., 16.72547° N–92.58463° W, pine-oak forest, colls. O. Francke, A. Valdez, C. Santibañez, J. Cruz, R. Monjaraz, G. Contreras, K. Zárate, 2 exs.; outside Cueva de Las Abejas, municipality of San Fernando, 19/VI/2011, 1,190 m elev., 16.84874° N–93.24327° W, disturbed cloud forest, colls. O. Francke, A. Valdez, C. Santibañez, J. Cruz, R. Monjaraz, G. Contreras, K. Zárate, 1 ex.; km 44 road to Campo Alegre, municipality of Las Margaritas, 17/XII/2011, 1,410 m elev., 16° 21.287' N–91° 42.470' W, cloud forest, colls. J. Mendoza, G. Contreras, E. Hijmensen, E. Goyer, 1 ex.

**Geographical distribution.** Belize, Brazil, Colombia, El Salvador, Guatemala, Honduras, and México (Schileyko and Minelli 1998).

**Distribution in México.** Campeche, Chiapas, and Veracruz (Schileyko and Minelli 1998; Chagas-Júnior and Shelley 2003).

### Family Scolopocryptopidae Pocock, 1896

#### Subfamily Ectonocryptopinae Shelley and Mercurio, 2005

#### *Ectonocryptoides quadrimeropus* Shelley and Mercurio, 2005

**Type locality.** México: Jalisco, Field Station (Universidad Nacional Autónoma de México) at Chamela. The site is approximately 59 km N Barra de Navidad on Highway 200, the coastal highway.

**Exemplars examined. Oaxaca:** 3 km SE Chivela, 20/III/2011, 218 m elev., 16° 41' 44.9" N–94° 57' 59.8" W, dunes, colls. G. Montiel, G. Contreras, D. Barrales, 1 ex., (**new state record**).

**Geographical distribution.** México.

**Distribution in México.** Jalisco, Puebla (Shelley 2009; Cupul-Magaña and Shelley 2011), and **Oaxaca**.

**Remark.** Cupul-Magaña and González-Salazar (2011) used ecological niche modeling to predict the distribution of *E. quadrimeropus* in Oaxaca (and in some other states of south and southwestern México).

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