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Checklist of Macroscopic Troglobitic Organisms of the United States

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The first attempt at a systematic classification of cavernicolous organisms was made by Schidote (1851). He grouped cavernicoles into *Skyyge-Dyr* (shade animals), *Tusworke-Dyr* (twilight animals), *Hule-Dyr* (cave animals) and *Drypsteenhule-Dyr* (stalactite animals). In the first class were placed those organisms having a preference for a cool, moist habitat and which were occasionally found at cave entrances. The second class consisted of organisms that periodically penetrated into the dark recesses of the cave. The third class was composed of organisms that lived their whole life in total darkness; the terrestrial forms were blind, while the aquatic forms had organs of sight. Finally, in the fourth class were blind, wingless, nonpigmented forms.

Schiner (1854) modified this classification and first proposed the three categories which are the basis for cavernicolous classification today. The first, trogloxenes, includes all organisms which may be found occasionally in caves. They do not complete their life cycles in total darkness. The trogloxenes are predominantly an epigean fauna although some hypogean arthropods are included in this group. In the second category are the troglobites, organisms that spend part or most of their life cycle in caves. Some of these are adapted for a hypogean existence and thus readily survive in the cave habitat. A majority of troglobites are facultative cavernicoles while all the members of the third group, the troglophiles, are obligative cavernicoles. These are blind or have nonfunctional optic organs, manifest little pigmentation and have developed highly sensitive tactile organs.

In 1896, Hamann, utilizing Schiner's categories, classified all the known European cavernicoles and listed 382 troglobitic species, although many were subsequently regrouped as troglobites or trogloxenes. His list included one vertebrate (*Proteus anguinus*), 16 gastropods, 229 insects (including 196 Coleoptera), 14 myriapods, 5 chilopods, 83 arachnids, 10 crustaceans and 24 other species in other orders. Although numerous papers on cavernicoles were published during the next thirty-five years by such eminent investigators as Chappuis, Cope, Jeannel, Martel, Packard, Racovitza and Spandl, it was not until the appearance of the classic *Animalium Cavernarum Catalogus* (Wolf, 1934-1938) that any attempt was made to present a checklist of cavernicolous organisms of the world. This work includes trogloxenes, troglobites and troglobites.

No previous attempt has been made to publish a checklist of troglobitic organisms of the United States, although checklists of a few families and of several limited geographical areas are available. Dearolf (1937, 1941, 1953, 1956) has compiled lists of the invertebrate and vertebrate fauna found in North American caves, but these do not contain information on ranges nor are they necessarily complete. Individual state lists are too numerous to mention but none of these are limited to troglobites.

Troglobitic Tricladida have been described by Hyman (1937, 1945, 1954, 1956). Gates (1959) reviewed the earthworms of North America but did not include these organisms in any specific category. It would be difficult to determine the degree of adaptation of earthworms to the cave habitat. Hubricht (1941) and Smith (1957) have compiled lists of cavernicolous molluscs. The troglobitic forms are confined to the eastern and southeastern United States. Hubricht (1943) has also published a list of cavernicolous Amphipoda of the eastern United States. The cavernicolous Isopoda are to be found in the synopses of Van Name (1936, 1940, 1943) with additional species listed by Eberly (1954). The crayfish inhabiting caves are in need of a thorough study as many of the papers published since the authoritative work of Hobbs (1942) are at variance concerning range and nomenclature. Hubbell's monograph (1936) remains the standard work dealing with cavernicolous Orthoptera. A large number of papers have been published dealing with the classification of cavernicolous Coleoptera. The most recent significant papers dealing with the Carabidae are those of Jeannel (1949), Valentine (1942, 1952), Krekeler (1958) and Barr (1959, 1960). Park (1947, 1951, 1953, 1958) has discussed the classification of the Pselaphidae. Cavernicolous Diplopoda are listed in the general checklist of Chamberlin and Hoffman (1958) with additional species recorded by Causey (1959a, 1959b). The Amblyopsidae have been reviewed by Woods and Inger (1957). The nomenclature of cave-dwelling Plethodontidae is that of Schmidt (1953). Cavernicolous Chiroptera, all of which are trogloxenes, are treated in the recent work of Hall and Kelson (1959).

All species listed in this checklist are obligative cavernicole. Hence, such common facultative forms as *Eurycea lucifuga*, *Plethodon glutinosus*, *Ceuthophilus stygius*, *Hadenoecus subterraneus* and *Meta menardi* are omitted. In the case of such naturally occurring hypogean taxa, it is difficult to determine whether the occurrence is obligative or facultative. Authenticated records of cavernicolous organisms, observed for the greater portion of their life cycle away from the cave (barring accidental or forced migration), have resulted in their exclusion from this list.

In the matter of distribution, the paucity of troglobites from certain limestone areas not subject to glaciation or flooding in the Pleistocene is indicative more of a lack of thorough collecting than an absence of life in the caves of these areas. Recent intensive collecting by T. C. Barr, Jr. and C. H. Krekeler through the Ohio and Mississippi valleys has disclosed many well-known caves with hitherto unknown troglobitic species. Another important factor limiting our knowledge of both the number of species and their ranges is lack of published data. The author knows of two species of troglobitic salamanders and at least eight species of Phalangida that have yet to be described. Many collections of cave material preserved in several of our larger museums have yet to be examined. The ranges listed are based on published records or amendments from personal observations of many investigators. It is hoped that presentation of the species and ranges

as now known will encourage those with additional observations to publish their data.

While some taxa remain undescribed, the status of others is dubious, especially with regard to synonymy. The Astacidae and Plethodontidae are particularly in need of further analysis. Confusion still exists on taxonomic differences between two genera of Asellidae, *Asellus* and *Caecidotea* (Chappuis, 1927; Miller, 1933). Use of the latter in this checklist is in keeping with the usage of more recent authors (Collinge, 1944; Mackin and Hubricht, 1940; and Levi, 1949).

Many have aided in the verification of the information listed. To name all who contributed to the compilation of this publication would necessitate several long paragraphs. Particular appreciation is expressed to the following for their assistance with the taxa noted: Dr. Thomas C. Barr, Jr., Catopidae, Campodeidae and Carabidae; Dr. Orlando Park, Pselaphidae; Dr. Kenneth Christiansen, Collembola; Dr. Libbie H. Hyman, Turbellaria; Dr. Clarence J. Goodnight, Phalangida; Dr. Willis J. Gertsch, Araneae; Dr. Nell Causey, Diplopoda; Dr. William Eberly, Decapoda. Dr. Robert E. Gordon has been helpful with pertinent suggestions throughout the preparation of the manuscript. The author, however, assumes full responsibility for any errors or omissions. This publication is part of a series that is planned to eventually include a checklist of all Nearctic troglobites.

PLATYHELMINTHES
TURBELLARIA
TRICLADIDA

Dendrocoelidae

Macrocotyla glandulosa Hyman

Macrocotyla glandulosa Hyman, 1956. Am. Mus. Novitates, no. 1808:9.
Type locality.—Unnamed cave, Rock Bridge, 5 miles south of Columbia,
Boone Co., Missouri.

Range.—Known only from type locality.

Sorocelis americana Hyman

Sorocelis americana Hyman, 1939. Proc. U. S. Nat. Mus., 86:422.
Type locality.—Bat Cave, Adair Co., Oklahoma.
Range.—Caves of Oklahoma and Arkansas.

Kenkiidae

Kenkia rhynchida Hyman

Kenkia rhynchida Hyman, 1937. Trans. Am. Microscop. Soc., 56:456.
Type locality.—Malheur Cave, 15 miles west-by-north from Folly Farm,
Harney Co., Oregon.

Range.—Known only from type locality.

Speophila buchanani Hyman

Speophila buchanani Hyman, 1937. Trans. Am. Microscop. Soc., 56:468.
Type locality.—Mammoth Cave, Edmonson Co., Kentucky.
Range.—Known only from type locality.

Speophila hoffmasteri Hyman

Speophila hoffmasteri Hyman, 1954. Proc. U. S. Nat. Mus., 103:570.
Type locality.—Blowing Cave, Pendleton Co., West Virginia.
Range.—Type locality and Mystic Cave, Pendleton Co., West Virginia.

Speophila hubrichti Hyman

Speophila hubrichti Hyman, 1945. Am. Midl. Nat., 34:479.
Type locality.—Morrison's Cave, 2 miles south of Burksville, Monroe Co.,
Illinois.

Range.—Caves of Illinois and Missouri.

Speophila pricei Hyman

Speophila pricei Hyman, 1937. Trans. Am. Microscop. Soc., 56:462.

Type locality.—Refton Cave, 1 mile northwest of Refton, Lancaster Co., Pennsylvania.

Range.—Caves of Pennsylvania.

Sphalloplana alabamensis Hyman

Sphalloplana alabamensis Hyman, 1956. Am. Midl. Nat., 34:476.

Type locality.—Sauta Cave, Lim Rock, Jackson Co., Alabama.

Range.—Type locality; Meredith Cave, Campbell Co.; Harve Petty Cave, Putnam Co.; Creeping Cave, Van Buren Co., Tennessee.

Sphalloplana georgiana Hyman

Sphalloplana georgiana Hyman, 1954. Proc. U. S. Nat. Mus., 103:566.

Type locality.—Waterfall Cave, Trenton, Walker Co., Georgia.

Range.—Known only from type locality.

Sphalloplana mohri Hyman

Sphalloplana mohri Hyman, 1939. Trans. Am. Microscop. Soc., 58:277.

Type locality.—Ezell's Cave, San Marcos, Hays, Co., Texas.

Range.—Caves of Texas, Oklahoma, Arkansas and Missouri.

Sphalloplana kansensis Hyman

Sphalloplana kansensis Hyman, 1945. Am. Midl. Nat., 34:478.

Type locality.—Purity Springs, near Augusta, Butte Co., Kansas.

Range.—Known only from type locality.

Sphalloplana percoeca (Packard)

Dendrocoelum percoeca Packard, 1880. Zoology for High Schools and Colleges:142.

Sphalloplana percoeca (Packard) de Beauchamp, 1931. Arch. Zool. exp. Gen., 71:323.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Edmonson and Hart Cos., Kentucky.

Sphalloplana virginiana Hyman

Sphalloplana virginiana Hyman, 1945. Am. Midl. Nat., 34:477.

Type locality.—Showalter's Cave, near Lexington, Rockbridge Co., Virginia.

Range.—Known only from type locality.

Planariidae

Phagocata cavernicola Hyman

Phagocata cavernicola Hyman, 1954. Proc. U. S. Nat. Mus., 103:563.

Type locality.—Evac Cave, near Hillside, Westmoreland Co., Pennsylvania.

Range.—Type locality and possibly Conoduginet Cave, Cumberland Co., Pennsylvania.

Phagocata subterranea Hyman

Phagocata subterranea Hyman, 1937. Trans. Am. Microscop. Soc., 56:474.

Type locality.—Donaldson's Cave, 4 miles east of Mitchell, Lawrence Co., Indiana.

Range.—Caves of Lawrence and Monroe Cos., Indiana.

ARTHROPODA

CRUSTACEA

AMPHIPODA

Gammaridae

Allocrangonyx pellucidus (Mackin)

Niphargus pellucidus Mackin, 1935. Trans. Am. Microscop. Soc., 54:42.

Allocrangonyx pellucidus (Mackin) Schellenberg, 1936. Mitt. Zool. Mus. Berlin, 22(1):33.

Type locality.—Bird's Mill Spring, southern Pontotoc Co., Oklahoma.

Range.—Type locality; Phelps and Pulaski Cos., Missouri; and Murray Co., Oklahoma.

Apocrangonyx lucifugus (O. P. Hay)

Crangonyx lucifugus O. P. Hay, 1882. Am. Nat., 16:144.

Apocrangonyx lucifugus (O. P. Hay) Stebbing, 1899. Trans. Linn. Soc. London, II, 7:422.

Type locality.—Well in Abingdon, Knox Co., Illinois.

Range.—Known only from type locality.

Apocrangonyx subtilis Hubricht

Apocrangonyx subtilis Hubricht, 1943. Am. Midl. Nat., 29:711.

Type locality.—Small seep near Bat Cave, 5 miles southwest of Pomona, Jackson Co., Illinois.

Range.—Jackson, Jersey and Union Cos., Illinois.

Batrurus brachycaudus Hubricht and Mackin

Batrurus brachycaudus Hubricht and Mackin, 1940. Am. Midl. Nat., 23:201.

Type locality.—A walled spring, Keifer Creek, 0.6 mile northwest of Fern Glen, St. Louis Co., Missouri.

Range.—Illinois and Missouri.

Batrurus hubrichti Shoemaker

Batrurus hubrichti Shoemaker, 1945. J. Wash. Acad. Sci., 35:27.

Type locality.—A well, Topeka, Shawnee Co., Kansas.

Range.—Eastern Kansas and Oklahoma.

Batrurus mucronatus (Forbes)

Crangonyx mucronatus Forbes, 1876. Bull. Ill. State Lab. Nat. Hist., 1:6.

Batrurus mucronatus (Forbes) W. P. Hay, 1902. Proc. U. S. Nat. Mus., 25:429.

Type locality.—Normal, McLean Co., Illinois.

Range.—Iowa, Missouri, Illinois, Indiana and Ohio.

Crangonyx antennatus Packard

Crangonyx antennatus Packard, 1881. Am. Nat., 15:880.

Type locality.—Nickajack Cave, Shellmound, Marion Co., Tennessee.

Range.—Virginia, Tennessee and Alabama.

Crangonyx dearolfi Shoemaker

Crangonyx dearolfi Shoemaker, 1942. Smithsonian Misc. Coll., 101:20.

Type locality.—Hobo Cave, Wernersville, Berks Co., Pennsylvania.

Range.—Known only from type locality.

Crangonyx forbesi (Hubricht and Mackin)

Eucrangonyx forbesi Hubricht and Mackin, 1940. Am. Midl. Nat., 23:196.

Crangonyx forbesi (Hubricht and Mackin) Hubricht, 1943. Am. Midl. Nat., 29:689.

Type locality.—A spring, Osage Golf Course, Kirkwood, St. Louis Co., Missouri.

Range.—Illinois, Missouri, Arkansas and Oklahoma.

Crangonyx gracilis packardi Smith

Crangonyx packardi Smith, 1888. Mem. Nat. Acad. Sci., 4:35.

Eucrangonyx packardi (Smith) Stebbing, 1899. Trans. Linn. Soc. London, II, 7:423.

Crangonyx gracilis packardi Smith, Hubricht, 1943. Am. Midl. Nat., 29:691.

Type locality.—Shiloh Cave, 2 miles east of Fayetteville, Lawrence Co., Indiana.

Range.—Indiana, Kentucky and Kansas.

Crangonyx hobbsi Shoemaker

Crangonyx hobbsi Shoemaker, 1941. Charleston Mus. Leaflet no. 16:9.

Type locality.—A well, 50 feet deep, 1.5 miles northeast of Chiefland, Levy Co., Florida.

Range.—Known only from type locality.

Crangonyx obliquus (Hubricht and Mackin)

Eucrangonyx obliquus Hubricht and Mackin, 1940. Am. Midl. Nat., 23:195.

Crangonyx obliquus (Hubricht and Mackin) Hubricht, 1943. Am. Midl. Nat., 29:689.

Type locality.—Small creek west of the college chapel, Clarksville, Johnson Co., Arkansas.

Range.—Eastern United States and southern Canada.

Gammarus acherondytes Hubricht and Mackin

Gammarus acherondytes Hubricht and Mackin, 1940. Am. Midl. Nat., 23:192.

Type locality.—Morrison's Cave, 2 miles south of Burksville, Monroe Co., Illinois.

Range.—Caves in Monroe Co., Illinois.

Gammarus minus Say

Gammarus minus Say, 1818. J. Acad. Nat. Sci. Phila., 1:373.

Type locality.—A spring, 1 mile west of Exton, Chester Co., Pennsylvania.

Range.—Pennsylvania, West Virginia, Virginia, Indiana, Kentucky, Tennessee, Alabama, Arkansas and Oklahoma.

Gammarus pseudolimnaeus Bousfield

Gammarus pseudolimnaeus Bousfield, 1958. Can. Field Nat., 72:74.

Type locality.—Rideau River, below Hog's Back, Ottawa, Ontario, Canada.

Range.—St. Lawrence River drainage and upper Mississippi River drainage as far south as northern Arkansas.

Gammarus troglophilus Hubricht and Mackin

Gammarus troglophilus Hubricht and Mackin, 1940. Am. Midl. Nat., 23:189.

Type locality.—Morrison's Cave, 2 miles south of Burksville, Monroe Co., Illinois.

Range.—Caves and springs of Illinois and Missouri.

Stygobromus exilis Hubricht

Crangonyx vitreus (Cope) Holmes, 1909. Trans. Wisc. Acad. Sci., 16:78.

Stygobromus exilis Hubricht, 1943. Am. Midl. Nat., 29:697.

Type locality.—Mammoth Onyx Cave, Hart Co., Kentucky.

Range.—Hart and Edmonson Cos., Kentucky; Blount and Hamilton Cos., Tennessee; Bibb Co., Alabama.

Stygobromus heteropodus Hubricht

Stygobromus heteropodus Hubricht, 1943. Am. Midl. Nat., 29:701.

Type locality.—Pickle Springs, head of Pickle Creek, Genevieve Co., Missouri.

Range.—Known only from type locality.

Stygobromus hubbsi Shoemaker

Stygobromus hubbsi Shoemaker, 1942. Occ. Pap. Mus. Zool., Univ. Mich., no. 466:1.

Type locality.—Malheur Cave, Harney Co., Oregon.

Range.—Known only from type locality.

Stygobromus iowae Hubricht

Stygobromus iowae Hubricht, 1943. Am. Midl. Nat., 29:703.

Type locality.—A spring, 0.7 miles north of Fayette, Fayette Co., Iowa.

Range.—Known only from type locality.

Stygobromus mackini Hubricht

Stygobromus mackini Hubricht, 1943. Am. Midl. Nat., 29:695.

Type locality.—Sikes Cave, 4.5 miles north of Lebanon, Russell Co., Virginia.

Range.—Type locality; Chimney Cave, Tazewell Co., Virginia, and Indian Cave, Grainger Co., Tennessee.

Stygobromus onondagaensis (Hubricht and Mackin)

Crangonyx onondagaensis Hubricht and Mackin, 1940. Am. Midl. Nat., 23:202.

Stygobromus onondagaensis (Hubricht and Mackin) Hubricht, 1943. Am. Midl. Nat., 29:699.

Type locality.—Onondaga Cave, 5 miles southeast of Leasburg, Crawford Co., Missouri.

Range.—Missouri and Kansas.

Stygobromus putealis (Holmes)

Crangonyx putealis Holmes, 1908. Trans. Wisc. Acad. Sci., 16:77.

Stygobromus putealis (Holmes) Schellenberg, 1936. Mitt. Zool. Mus. Berlin, 22:37.

Type locality.—Well, Rosendale, Fond du Lac Co., Wisconsin.

Range.—Fond du Lac Co., Wisconsin.

Stygobromus smithi Hubricht

Stygobromus smithi Hubricht, 1943. Am. Midl. Nat., 29:703.

Type locality.—A well, Woodstock, Bibb Co., Alabama.

Range.—Bibb and Tuscaloosa Cos., Alabama.

Stygobromus spinosus (Hubricht and Mackin)

Crangonyx spinosus Hubricht and Mackin, 1940. Am. Midl. Nat., 23:203.

Stygobromus spinosus (Hubricht and Mackin) Hubricht, 1943. Am. Midl. Nat., 29:697.

Type locality.—A spring near Hawksbill Mountain, Skyline Drive, Shenandoah National Park, Madison Co., Virginia.

Range.—Type locality and Luray Caverns, Page Co., Virginia.

Stygobromus vitreus Cope

Stygobromus vitreus Cope, 1872. Am. Nat., 6:422.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Kentucky, Alabama and Tennessee.

Stygonectes balconis Hubricht

Stygonectes balconis Hubricht, 1943. Am. Midl. Nat., 29:707.

Type locality.—Boyett's Cave, 14 miles northwest of San Marcos, Hays Co., Texas.

Range.—Type locality and Cave-Without-A-Name, 11 miles NE. of Boerne, Kendall Co., Texas.

Stygonectes flagellatus (Benedict)

Crangonyx flagellatus Benedict, 1896. Proc. U. S. Nat. Mus., 18:616.

Stygonectes flagellatus (Benedict) Hay, 1902. Proc. U. S. Nat. Mus., 25:429.

Type locality.—Artesian well, San Marcos, Hays Co., Texas.

Range.—Hays Co., Texas.

Synpleonia alabamensis (Stout)

Crangonyx alabamensis Stout, 1911. Pomona Coll. J. Entomol., 3:569.

Synpleonia alabamensis (Stout) Schellenberg, 1936. Mitt. Zool. Mus. Berlin, 22:40.

Type locality.—A well, 1 mile east of post office, Auburn, Lee Co., Alabama.

Range.—Known only from type locality.

Synpleonia americana (Mackin)

Boruta americana Mackin, 1935. Trans. Am. Microscop. Soc., 54:46.

Synpleonia americana (Mackin) Schellenberg, 1936. Mitt. Zool. Mus. Berlin, 22:40.

Type locality.—Crevices in San Bois Mountains near Wilburton, Latimer Co., Oklahoma.

Range.—Missouri, Arkansas and Oklahoma.

Synpleonia clantoni Creaser

Synpleonia clantoni Creaser, 1934. Occ. Pap. Mus. Zool., Univ. Mich., no. 282:2.

Type locality.—A well, 4 miles southeast of Ottawa, Franklin Co., Kansas.
Range.—Missouri, Kansas, Arkansas and Oklahoma.

Synpleonia emarginata Hubricht

Synpleonia emarginata Hubricht, 1943. Am. Midl. Nat., 29:707.

Type locality.—Organ Cave, Greenbrier Co., West Virginia.

Range.—Type locality and Hayes Cave, Greenbrier Co., West Virginia.

Synpleonia hayi Hubricht and Mackin.

Synpleonia hayi Hubricht and Mackin, 1940. Am. Midl. Nat., 23:205.

Type locality.—A spring, south end of National Zoological Park, Washington, D. C.

Range.—Type locality and caves of Fayette and Centre Cos., Pennsylvania.

Synpleonia pizzinnii Shoemaker

Synpleonia pizzinnii Shoemaker, 1938. Proc. Biol. Soc. Wash., 51:137.

Type locality.—Wetzel's Spring, Grover Archbold Park, just west of Georgetown, D. C.

Range.—District of Columbia, Fairfax Co., Virginia and southern Pennsylvania.

Synpleonia tenuis (S. I. Smith)

Crangonyx tenuis S. I. Smith, 1874. Rept. U. S. Fish Comm., 1872-3, 2:656.

Synpleonia tenuis (S. I. Smith) Shoemaker, 1938. Proc. Biol. Soc. Wash., 51:140.

Type locality.—Wells in Middletown, Middlesex Co., Connecticut.

Range.—New York, Connecticut south to Virginia.

ISOPODA

Asellidae

Asellus adenta Mackin and Hubricht

Asellus adenta Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 50:396.

Type locality.—Cave located 15 miles south of Mountain View, Kiowa Co., Oklahoma.

Range.—Known only from type locality.

Asellus brevicauda Forbes

Asellus brevicauda Forbes, 1876. Bull. Ill. Mus. Nat. Hist., no. 1:8.

Type locality.—Southern Illinois.

Range.—Southern Illinois, Missouri, Tennessee and Arkansas.

Asellus californicus Miller

Asellus californicus Miller, 1933. Univ. Calif. Publ. Zool., 39:97.

Type locality.—A well near Kelseyville, Lake Co., California.

Range.—Known only from type locality.

Caecidotea acuticarpa Mackin and Hubricht

Caecidotea acuticarpa Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:394.

Type locality.—Byrd's Mill Spring, Pontotoc Co., Oklahoma.

Range.—Springs, wells and caves in the Arbuckle Uplift in Pontotoc, Johnson, Murray and Seminole Cos., Oklahoma.

Caecidotea alabamensis Stafford

Caecidotea alabamensis Stafford, 1911. Pomona Coll. J. Entomol., 3:572.

Type locality.—A well in Auburn, Lee Co., Alabama.

Range.—Known only from type locality.

Caecidotea antricola Greaser

Caecidotea antricola Greaser, 1931. Occ. Pap. Mus. Zool., Univ. Mich., 222:1.

Type locality.—River Cave, Hahatonka, Camden Co., Missouri.

Range.—Type locality and St. Louis Co., Missouri.

Caecidotea conestogensis Levi

Caecidotea conestogensis Levi, 1949. Notulae Nat., no. 220:3.

Type locality.—Hammer Creek, 2 miles from Buffalo Springs, Lebanon Co., Pennsylvania.

Range.—Known only from type locality.

Caecidotea dimorpha Mackin and Hubricht

Caecidotea dimorpha Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:385.

Type locality.—Seep, 0.5 mile south of Greenville, Wayne Co., Missouri.

Range.—Type locality and small spring, 1.5 miles SW. of Olyphant, Jackson Co., Arkansas.

Caecidotea hobbsi (Maloney)

Asellus hobbsi Maloney, 1939. Proc. U. S. Nat. Mus., 96:457.

Caecidotea hobbsi (Maloney) Van Name, 1943. Bull. Am. Mus. Nat. Hist., 80:321.

Type locality.—Dudley Cave, Gainesville, Alachua Co., Florida.

Range.—Type locality and Calhoun Co., Florida.

Caecidotea macropropoda Chase and Blair

Caecidotea macropropoda Chase and Blair, 1937. Am. Midl. Nat., 18:221.

Type locality.—Small streams in unnamed cave, 5 miles south of Kansas, Delaware Co., Oklahoma.

Range.—Known only from type locality.

Caecidotea nickajackenis Packard

Caecidotea nickajackensis Packard, 1881. Am. Nat., 15:879.

Type locality.—Nickajack Cave, Shellmound, Marion Co., Tennessee.

Range.—Type locality and Metcalf, Thomas Co., Georgia.

Caecidotea oculata Mackin and Hubricht

Caecidotea oculata Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:395.

Type locality.—Springs in Rich Mountain, Rich Mountain Station, Polk Co., Arkansas.

Range.—Ouachita Mountain Uplift in Polk Co., Arkansas; Latimer and Leflore Cos., Oklahoma.

Caecidotea ozarkana Chase and Blair

Caecidotea ozarkana Chase and Blair, 1937. Am. Midl. Nat., 18:221.

Type locality.—Spring, 5 miles south of Kansas, Delaware Co., Oklahoma.

Range.—Known only from type locality.

Caecidotea packardi Mackin and Hubricht

Caecidotea packardi Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:388.

Type locality.—Morrison's Cave, 2 miles south of Burksville, Monroe Co., Illinois.

Range.—Type locality and caves of St. Clair Co., Illinois.

Caecidotea pricei Levi

Caecidotea pricei Levi, 1949. Notulae Nat., no. 220:2.

Type locality.—Refton Cave, Lancaster Co., Pennsylvania.

Range.—Known only from type locality.

Caecidotea richardsonae Hay

Caecidotea richardsonae Hay, 1901. Proc. Biol. Soc. Wash., 14:180.

Type locality.—Nickajack Cave, Shellmound, Marion Co., Tennessee.

Range.—Known only from type locality.

Caecidotea smithii Ulrich

Caecidotea smithii Ulrich, 1902. Trans. Am. Microscop. Soc., 23:93.
Type locality.—Subterranean stream near San Marcos, Hays Co., Texas.
Range.—Known only from type locality.

Caecidotea spatulata Mackin and Hubricht

Caecidotea spatulata Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:392.
Type locality.—Swales, 1 mile south of Falling Spring, St. Clair Co., Illinois.

Range.—Type locality; St. Louis and Boone Cos., Missouri.

Caecidotea stiladactyla Mackin and Hubricht

Caecidotea stiladactyla Mackin and Hubricht, 1940. Trans. Am. Microscop. Soc., 59:386.
Type locality.—Spring, 3.5 miles south of Jasper, Newton Co., Arkansas.

Range.—Newton and Boone Cos., Arkansas.

Caecidotea stygia Packard

Caecidotea stygia Packard, 1871. Am. Nat., 5:752.
Type locality.—Mammoth Cave, Edmonson Co., Kentucky.
Range.—Kentucky, Indiana, Illinois, Pennsylvania and Virginia.

Cirolanidae

Cirolanides texensis Benedict

Cirolanides texensis Benedict, 1896. Proc. U. S. Nat. Mus., 18:616.
Type locality.—Artesian well at San Marcos, Hays Co., Texas.
Range.—Known only from type locality.

Ligidae

Ligidium koifoidi Maloney

Ligidium koifoidi Maloney, 1930. Univ. Calif. Publ. Zool., 23:291.
Type locality.—Potter Creek Cave, Shasta Co., California.
Range.—Known only from type locality.

Trichoniscidae

Amerigoniscus henroti Vandel

Amerigoniscus henroti Vandel, 1950. Arch. Zool. exp. Gen., 87:191.
Type locality.—Gillie's Cave, Lee Co., Virginia.
Range.—Known only from type locality.

Brackenridgia cavernarum Ulrich

Brackenridgia cavernarum Ulrich, 1902. Trans. Am. Microscop. Soc., 23:90.
Type locality.—Ezell's Cave, near San Marcos, Hays Co., Texas.

Range.—Caves of Hays Co., Texas, and Bat Cave, Eddy Co., New Mexico.

Miktoniscus racovitzai Vandel

Miktoniscus racovitzai Vandel, 1950. Arch. Zool. exp. Gen., 87:192.
Type locality.—Luray Caverns, Luray, Page Co., Virginia.
Range.—Known only from type locality.

DECAPODA

Astacidae

Cambarus cahni Rhoades

Cambarus cahni Rhoades, 1941. Proc. U. S. Nat. Mus., 91:146.
Type locality.—Belgreen Cave, Franklin Co., Alabama.
Range.—Known only from type locality.

Cambarus cryptodytes Hobbs

Cambarus cryptodytes Hobbs, 1941. Am. Midl. Nat., 26:110.
Type locality.—A well, 2 miles south of Graceville, Jackson Co., Florida.
Range.—Known only from type locality.

Cambarus hamulatus (Cope and Packard)

Orconectes hamulatus Cope and Packard, 1881. Am. Nat., 15:881.
Cambarus hamulatus (Cope and Packard) Faxon, 1884. Proc. Am. Acad. Arts and Sci., 20:145.

Type locality.—Nickajack Cave, Shellmound, Marion Co., Tennessee.
 Range.—Caves of Marion and Franklin Cos., Tennessee.

Cambarus hubrichti Hobbs

Cambarus hubrichti Hobbs, 1952. Am. Midl. Nat., 48:690.
 Type locality.—Lewis Cave, 15 miles northwest of Doniphan, Ripley Co., Missouri.
 Range.—Type locality; Dewey Minick Cave, Oregon Co.; Midco Cave, Carter Co., Missouri.

Cambarus jonesi Hobbs and Barr

Cambarus jonesi Hobbs and Barr, 1960. Am. Midl. Nat., 64:19.
 Type locality.—Cave Spring Cave, 12.1 miles northwest of Valhermosa, Morgan Co., Alabama.
 Range.—Type locality and Shelta Cavern, Huntsville, Madison Co., Alabama.

Cambarus setosus Faxon

Cambarus setosus Faxon, 1889. Bull. Mus. Comp. Zool., 17:237.
Cambarus ayersii Steele, Hobbs and Barr, 1960. Am. Midl. Nat., 64:27.
 Type locality.—Wilson's Cave, Jasper Co., Missouri.
 Range.—Caves of James River drainage, southwestern Missouri.

Orconectes pellucidus pellucidus (Tellkampf)

Astacus pellucidus Tellkampf, 1844. Arch. Anat. Physiol. u. Wissensch. Med., p. 383.
Cambarus pellucidus (Tellkampf) Hagen, 1870. Ill. Cat. Mus. Comp. Zool. 3:5.
Orconectes pellucidus pellucidus (Tellkampf) Hobbs, 1942. Am. Midl. Nat., 28:352.
 Type locality.—Mammoth Cave, Edmonson Co., Kentucky.
 Range.—Caves of northern Kentucky and southern Indiana.

Orconectes pellucidus australis (Rhoades)

Cambarus pellucidus australis Rhoades, 1941. Proc. U. S. Nat. Mus., 91:142.
Orconectes pellucidus australis (Rhoades) Hobbs, 1942. Am. Midl. Nat., 28:353.
 Type locality.—Shelta Cave, Huntsville, Madison Co., Alabama.
 Range.—Known only from type locality.

Orconectes pellucidus inermis Cope

Orconectes inermis Cope, 1872. Am. Nat., 6:420.
Orconectes pellucidus inermis Cope, Rhoades, 1959. Am. Midl. Nat., 61:401.
 Type locality.—Wyandotte Cavern, Crawford Co., Indiana.
 Range.—Caves of southern Indiana.

Orconectes pellucidus packardii Rhoades

Orconectes pellucidus packardii Rhoades, 1944. Am. Midl. Nat., 31:121.
 Type locality.—Cumberland Crystal Cave, Alpine, Pulaski Co., Kentucky.
 Range.—Caves of Pulaski Co., Kentucky.

Procambarus acherontis Lonnberg

Procambarus acherontis Lonnberg, 1894. Proc. U. S. Nat. Mus., 89:387.
 Type locality.—Cave near Palm Springs, Seminole Co., Florida.
 Range.—Known only from type locality.

Procambarus lucifugus lucifugus Hobbs

Procambarus lucifugus lucifugus Hobbs, 1940. Proc. U. S. Nat. Mus., 89:398.

Type locality.—Gum Cave, 5 miles southwest of Floral City, Citrus Co., Florida.

Range.—Known only from type locality.

Procambarus lucifugus alachua Hobbs

Procambarus lucifugus alachua Hobbs, 1940. Proc. U. S. Nat. Mus., 89:402.

Type locality.—Hog Sink, 10 miles west of Gainesville, Alachua Co., Florida.

Range.—Known only from type locality.

Procambarus pallidus Hobbs

Procambarus pallidus Hobbs, 1940. Proc. U. S. Nat. Mus., 89:394.

Type locality.—Warrens Cave, 11 miles northwest of Gainesville, Alachua Co., Florida.

Range.—Known only from type locality.

Troglocambarus maclanei Hobbs

Troglocambarus maclanei Hobbs, 1942. Am. Midl. Nat., 28:345.

Type locality.—Squirrel Chimney Cave, 11 miles northwest of Gainesville, Alachua Co., Florida.

Range.—Caves of Alachua and Citrus Cos., Florida.

Atyidae

Palaemonias ganteri Hay

Palaemonias ganteri Hay, 1901. Proc. Biol. Soc. Wash., 14:180.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Known only from type locality.

Palaemonidae

Palaemonetes antrorum Benedict

Palaemonetes antrorum Benedict, 1896. Proc. U. S. Nat. Mus., 18:165.

Type locality.—Artesian well, San Marcos, Hays Co., Texas.

Range.—Caves in vicinity of San Marcos, Hays Co., Texas.

Palaemonetes cummingi Chace

Palaemonetes cummingi Chace, 1954. J. Wash. Acad. Sci., 44:319.

Type locality.—Squirrel Chimney Cave, 11 miles northwest of Gainesville, Alachua Co., Florida.

Range.—Known only from type locality.

MYRIPODA

DIPLOPODA

Cambalidae

Cambala caeca Loomis

Cambala caeca Loomis, 1953. J. Wash. Acad. Sci., 43:417.

Type locality.—Sonora, Sutton Co., Texas.

Range.—Caves in Sutton Co., Texas.

Cambala captiosa Causey

Cambala captiosa Causey, 1959. Proc. Biol. Soc. Wash., 72:69.

Type locality.—Beck's Ranch Cave, 6 miles west of Round Rock, Williamson Co., Texas.

Range.—Known only from type locality.

Eclomus speobius (Chamberlin)

Eclytus speobius Chamberlin, 1952. Entomol. News, 63:11.

Eclomus speobius (Chamberlin) Chamberlin, 1952. Entomol. News, 63:71.

Type locality.—Wyatt Cave, Sonora, Sutton Co., Texas.

Range.—Known only from type locality.

Troglocambala loomsi Hoffman

Troglocambala loomsi Hoffman, 1956. Geol. Surv. Alabama, Mus. Pap. no. 35:10.

Type locality.—Turk's (Brooklyn) Cave, Conecuh Co., Alabama.

Range.—Known only from type locality.

Cleidogonidae

Dearolfia lusciosa Loomis

Dearolfia lusciosa Loomis, 1939. Bull. Mus. Comp. Zool., 86:178.

Type locality.—Seneca Caverns, Riverton, Pendleton Co., West Virginia.

Range.—Caves in Pendleton and Pocahontas Cos., West Virginia.

Pseudotremia cavernarum Cope

Pseudotremia cavernarum Cope, 1869. Proc. Am. Philos. Soc., 11:179.

Type locality.—Erhart's Cave, 5 miles east of Christianburg, Montgomery Co., Virginia.

Range.—Caves of Giles and Montgomery Cos., Virginia.

Pseudotremia eburnea Loomis

Pseudotremia eburnea Loomis, 1939. Bull. Mus. Comp. Zool., 86:174.

Type locality.—Cricket Cave, Rising Fawn, Walker Co., Georgia.

Range.—Known only from type locality.

Pseudotremia fulgida Loomis

Pseudotremia fulgida Loomis, 1943. Bull. Mus. Comp. Zool., 92:378.

Type locality.—Higginbotham Cave, 1.5 miles northwest of Frankford, Greenbrier Co., West Virginia.

Range.—Caves in northern Greenbrier Co., West Virginia.

Pseudotremia hobbsi Hoffman

Pseudotremia hobbsi Hoffman, 1950. J. Wash. Acad. Sci., 40:90.

Type locality.—Chestnut Ridge Cave, 2.5 miles northwest of Clifton Forge, Alleghany Co., Virginia.

Range.—Caves in upper James River system in Alleghany and Bath Cos., Virginia.

Pseudotremia indiana Chamberlin and Hoffman

Pseudotremia cavernarum (not Cope) Cook and Collins, 1895. Ann. New York Acad. Sci., 9:36.

Pseudotremia indiana Chamberlin and Hoffman, 1958. U. S. Nat. Mus. Bull., 212:95.

Type locality.—Wyandotte Cave, Crawford Co., Indiana.

Range.—Caves of southern Indiana.

Pseudotremia nodosa Loomis

Pseudotremia nodosa Loomis, 1939. Bull. Mus. Comp. Zool., 86:175.

Type locality.—English Cave, near Harrowgate, Claiborne Co., Tennessee.

Range.—Caves of the Lower Powell River drainage in Claiborne and Anderson Cos., Tennessee.

Pseudotremia simulans Loomis

Pseudotremia simulans Loomis, 1939. Bull. Mus. Comp. Zool., 86:170.

Type locality.—Simmon's Cave, Pendleton Co., West Virginia.

Range.—Known only from type locality.

Pseudotremia sodalis Loomis

Pseudotremia sodalis Loomis, 1939. Bull. Mus. Comp. Zool., 86:173.

Type locality.—Bat Cave, Carter Co., Kentucky.

Range.—Known only from type locality.

Pseudotremia sublevis Loomis

Pseudotremia sublevis Loomis, 1944. Psyche, 51:67.

Type locality.—Tawney's Cave, Newport, Giles Co., Virginia.

Range.—Caves of Giles and Montgomery Cos., Virginia.

Pseudotremia valga Loomis

Pseudotremia valga Loomis, 1943. Bull. Mus. Comp. Zool., 92:377.

Type locality.—King Solomon's Cave (Cudjo's Cave), Cumberland Gap, Lee Co., Virginia.

Range.—Known only from type locality.

Conotylidae

Conotyla bollmani (McNeil)

Trichopetalum bollmani McNeil, 1887. Proc. U. S. Nat. Mus., 10:330.

Conotyla bollmani (McNeil), Cook and Collins, 1895. Ann. New York Acad. Sci., 9:76.

Type locality.—Mayfield's Cave, Bloomington, Monroe Co., Indiana.

Range.—South and central Indiana.

Conotyla vaga Loomis

Conotyla vaga Loomis, 1939. Bull. Mus. Comp. Zool., 86:182.

Type locality.—South Temple Cave, Berks Co., Pennsylvania.

Range.—Eastern Pennsylvania south to northern Maryland.

Scoterpes austrinus austrinus Loomis

Scoterpes austrinus austrinus Loomis, 1943. Bull. Mus. Comp. Zool., 92:386.

Type locality.—Manitou Cave, 1 mile south of Fort Payne, De Kalb Co., Alabama.

Range.—Known only from type locality.

Scoterpes austrinus nudus Chamberlin

Scoterpes austrinus nudus Chamberlin, 1946. Entomol. News, 57:152.

Type locality.—Saltpeter Cave, 4 miles north of Kingston, Bartow Co., Georgia.

Range.—Known only from type locality.

Scoterpes copei (Packard)

Spirostrephon (Pseudotremia) copei Packard, 1871. Am. Nat., 5:748.

Scoterpes copei (Packard) Cope, 1872. Am. Nat., 6:414.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—West central Kentucky southeast to eastern Tennessee.

Scoterpes dendropus Loomis

Scoterpes dendropus Loomis, 1939. Bull. Mus. Comp. Zool., 86:181.

Type locality.—Marvel Cave, Stone Co., Missouri.

Range.—Type locality and Galena, Stone Co., Missouri.

Zygonopus whitei Ryder

Zygonopus whitei Ryder, 1881. Proc. U. S. Nat. Mus., 3:527.

Type locality.—Luray Caverns, Luray, Page Co., Virginia.

Range.—Caves of northwestern Virginia and Pendleton Co., West Virginia.

Erecethidae

Tingupa pallida Loomis

Tingupa pallida Loomis, 1939. Bull. Mus. Comp. Zool., 86:185.

Type locality.—River Cave, Hahatonka, Camden Co., Missouri.

Range.—Caves of eastern Missouri and adjacent western Illinois.

Lysiopetalidae

Tetracion jonesi jonesi Hoffman

Tetracion jonesi jonesi Hoffman, 1956. Geol. Surv. Alabama, Mus. Pap. no. 35:6.

Type locality.—Bat Cave, near Grant, Marshall Co., Alabama.

Range.—Known only from type locality.

Tetracion jonesi atraeum Hoffman

Tetracion jonesi atraeum Hoffman, 1956. Geol. Surv. Alabama, Mus. Pap. no. 35:8.

Type locality.—Barclay Cave, Madison Co., Alabama.

Range.—Known only from type locality.

Tetracion tennesseensis Causey

Tetricion tennesseensis Causey, 1959. J. Tenn. Acad. Sci., 34:236.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Grundy and Warren Cos., Tennessee.

Nemasomidae

Ameractis satis Causey

Ameractis satis Causey, 1959. J. Tenn. Acad. Sci., 34:232.

Type locality.—Indian Cave, White Co., Tennessee.

Range.—Caves of White and Overton Cos., Tennessee.

Polydesmidae

Antriadesmus debilis Causey

Antriadesmus debilis Causey, 1959. J. Tenn. Acad. Sci., 34:231.

Type locality.—Walker Spring Cave, Wayne Co., Tennessee.

Range.—Known only from type locality.

Antriadesmus mollis Causey

Antriadesmus mollis Causey, 1959. J. Tenn. Acad. Sci., 34:230.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Known only from type locality.

Brachydesmus cavicola Packard

Brachydesmus cavicola Packard, 1877. Bull. U. S. Geol. Geogr. Surv. (Hayden), 3:161.

Type locality.—Clinton's Cave, Tooele Co., Utah.

Range.—Known only from type locality.

Scytonotus cavernarum Bollman

Scytonotus cavernarum Bollman, 1887. Entomol. Am., 3:46.

Type locality.—Mayfield's Cave, Monroe Co., Indiana.

Range.—Known only from type locality.

Speodesmus bicornourus Causey

Speodesmus bicornourus Causey, 1959. Proc. Bio. Soc. Wash., 72:71.

Type locality.—Beck's Ranch Cave, 6 miles west of Round Rock, Williamson Co., Texas.

Range.—Known only from type locality.

Speodesmus echinourus Loomis

Speodesmus echinourus Loomis, 1939. Bull. Mus. Comp. Zool., 86:118.

Type locality.—Prassel Ranch Cave, Kendall Co., Texas.

Range.—Caves in Kerr, Kendall and Hays Cos., Texas.

Speorthus tunganbius Chamberlin

Speorthus tunganbius Chamberlin, 1952. Entomol. News, 63:12.

Type locality.—Carlsbad Caverns, Eddy Co., New Mexico.

Range.—Known only from type locality.

Striariidae

Striaria eldora Chamberlin

Striaria eldora Chamberlin, 1953. Entomol. News, 64:95.

Type locality.—Consumnes Cave, El Dorado Co., California.

Range.—Known only from type locality.

Striaria shastae Causey

Striaria shastae Causey, 1958. Proc. Biol. Soc. Wash., 71:182.

Type locality.—Samwel Cave, Shasta Co., California.

Range.—Known only from type locality.

Zosteractiidae

Zosteractis interminata Loomis

Zosteractis interminata Loomis, 1943. Bull. Mus. Comp. Zool., 92:395.

Type locality.—South Rankin Cave, 4 miles east of Eureka, St. Louis Co., Missouri.

Range.—Caves of St. Louis and St. Genevieve Cos., Missouri.

INSECTA
ORTHOPTERA

Gryllacrididae

Ceuthophilus longipes Caudell

Ceuthophilus longipes Caudell, 1924. Proc. Ent. Soc. Wash., 26:219.

Type locality.—Carlsbad Caverns, Eddy Co., New Mexico.

Range.—Known only from type locality.

COLLEMBOLA

Entomobryidae

Entomobrya troglodytes Christiansen

Entomobrya troglodytes Christiansen, 1958. Bull. Mus. Comp. Zool., 118:484.

Type locality.—Unnamed cave on property Sturgis Water Company, Sturgis, Meade Co., South Dakota.

Range.—Known only from type locality.

Lepidocyrtus atropurpureus Packard

Lepidocyrtus atropurpureus Packard, 1888. Mem. Nat. Acad. Sci., 4:66.

Type locality.—Diamond Cave, Edmonson Co., Kentucky.

Range.—Caves of Edmonson Co., Kentucky.

Parasinella cavernarum (Packard)

Degeeria cavernarum Packard, 1888. Mem. Nat. Acad. Sci., 4:66.

Entomobrya lucifuga Folsom, 1902. Psyche, 9:365.

Parasinella cavernarum (Packard) Bonet, 1942. Scienzia, 3:56.

Type locality.—New Wyandotte Cave, Crawford Co., Indiana.

Range.—Type locality and Bradford Cave, Crawford Co., Indiana.

Sinella hoffmani Wray

Sinella hoffmani Wray, 1952. Bull. Brooklyn Entomol. Soc., 47:95.

Type locality.—Lowmoor Quarry Cave, Allegheny Co., Virginia.

Range.—Known only from type locality.

Troglosinella hirsuta Delamare

Troglosinella hirsuta Delamare, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:121.

Type locality.—Tennessee Caverns, 5 miles west of Chattanooga, Hamilton Co., Tennessee.

Range.—Known only from type locality.

Troglosinella spinosa Delamare

Troglosinella spinosa Delamare, 1949. Notes. Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:122.

Type locality.—Aladdin's Cave, Madison Co., Alabama.

Range.—Known only from type locality.

Hypogastruridae

Hypogastrura lucifugus (Packard)

Lipura? lucifugus Packard, 1888. Mem. Nat. Acad. Sci., 4:65.

Hypogastrura lucifugus (Packard) Christiansen, 1960. Am. Midl. Nat., 64:43.

Type locality.—Wyandotte Caverns, Crawford Co., Indiana.

Range.—Known only from type locality.

Isotomidae

Folsomia cavicola (Banks)

Entomobrya cavicola Banks, 1897. Am. Nat., 31:380.

Folsomia cavicola (Banks) Christiansen, 1960. Am. Midl. Nat., 64:42.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Known only from type locality.

Oncopoduridae

Oncopodura cruciata Bonet

Oncopodura cruciata Bonet, 1943. Ann. Esc. Nat. Cienc. Biol., 3:141.

Type locality.—Morrison's Cave, Bozeman, Gallatin Co., Montana.

Range.—Known only from type locality.

Onychiuridae

Onychiurus obesus Mills

Onychiurus obesus Mills, 1934. Collembola of Iowa:35.

Type locality.—Bixby Ice Cave, Bixby State Park, Clayton Co., Iowa.

Range.—Known only from type locality.

Sminthuridae

Arrhopalites ferrugineus (Packard)

Smynthurus ferrugineus Packard, 1888. Mem. Nat. Acad. Sci., 4:67.

Arrhopalites ferrugineus (Packard) Christiansen, 1960. Am. Midl. Nat., 64:40.

Type locality.—New Market Cave, Rockingham Co., Virginia.

Range.—Type locality and Weyer's (Grand) Caverns, August Co., Virginia.

Arrhopalites mammouthia (Banks)

Smynthurus mammouthia Banks, 1897. Am. Nat., 31:381.

Arrhopalites mammouthia (Banks) Christiansen, 1960. Am. Midl. Nat., 64:40.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Known only from type locality.

Tomoceridae

Tomocerus brevimucronata Denis

Tomocerus brevimucronata Denis, 1928. Bull. Mus. Portici Lab. di Zool., 22:176.

Type locality.—Oregon Cave, Josephine Co., Oregon.

Range.—Known only from type locality.

Tomocerus pallidus Packard

Tomocerus plumbea var. pallidus Packard, 1888. Mem. Nat. Acad. Sci., 4:65.

Tomocerus pallidus Giovannoli, 1933. Am. Midl. Nat., 14:615.

Type locality.—Carter's Cave, Carter Co., Kentucky.

Range.—Caves of Carter Co., Kentucky.

Tritomurus californicus Folsom

Tritomurus californicus Folsom, 1916. Proc. U. S. Nat. Mus., 46:469.

Type locality.—Palser (?) Cave, Santa Clara Co., California.

Range.—Known only from type locality.

Tritomurus henroti Delamare

Tritomurus henroti Delamare, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:117.

Type locality.—Erhardt's Cave, Montgomery Co., Virginia.

Range.—Known only from type locality.

Tritomurus missus Mills

Tritomurus missus Mills, 1948. Ann. Entomol. Soc. Am., 41:178.

Type locality.—Grafton Cave, Jersey Co., Illinois.

Range.—Type locality and Eckert's Cave, Monroe Co., Illinois.

Tritomurus oregonensis Denis

Tritomurus oregonensis Denis, 1928. Bull. Portici Lab. di Zool., 22:178.

Type locality.—Oregon Cave, Josephine Co., Oregon.

Range.—Known only from type locality.

DIPLURA

Campodeidae

Plusiocampa fieldingi Condé

Plusiocampa fieldingi Condé, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:132.

Type locality.—McClung's Cave, near Maxwelton, Greenbrier Co., West Virginia.

Range.—Known only from type locality.

Plusiocampa henroti Condé

Plusiocampa henroti Condé, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:127.

Type locality.—Shelta Cave, Huntsville, Madison Co., Alabama.

Range.—Known only from type locality.

Plusiocampa jonesi Condé

Plusiocampa jonesi Condé, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:135.

Type locality.—Dunbar Cave, Clarksville, Montgomery Co., Tennessee.

Range.—Known only from type locality.

Plusiocampa nearctica Silvestri

Plusiocampa nearctica Silvestri, 1934. Arch. Zool. exp. Gen., 76:379.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Type locality and Indian Cave, Barren Co., Kentucky.

Plusiocampa valentinei Condé

Plusiocampa valentinei Condé, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:130.

Type locality.—Cave Spring Cave, near Berkeley, Madison Co., Alabama.

Range.—Type locality and Aladdin Cave, Madison Co., Alabama.

COLEOPTERA

Carabidae

Agonum (Rhadine) exile Barr and Lawrence

Agonum (Rhadine) exile Barr and Lawrence, 1960. Wasmann J. Biol., 18.

Type locality.—Cave near Helotes, northern Bexar Co., Texas.

Range.—Caves near Helotes and Camp Bullis, northern Bexar Co., Texas.

Agonum (Rhadine) infernale Barr and Lawrence

Agonum (Rhadine) infernale Barr and Lawrence, 1960. Wasmann J. Biol., 18.

Agonum (Rhadine) infernale Barr and Lawrence, Barr, 1960. Am. Midl. Nat., 64:55.

Type locality.—Malda Cave near Helotes, Bexar Co., Texas.

Range.—Type locality and Alzifar Cave, 11 miles northeast of Boerne, Kendall Co., Texas.

Agonum (Rhadine) infernale ewersi Barr

Agonum (Rhadine) infernale ewersi Barr, 1960. Am. Midl. Nat., 64:55.

Type locality.—Headquarters Cave, Camp Bullis, Bexar Co., Texas.

Range.—Known only from type locality.

Agonum (Rhadine) koepkei Barr

Agonum (Rhadine) koepkei Barr, 1960. Am. Midl. Nat., 64:56.

Type locality.—Schneider's Ranch Cave, 14 miles northeast of Boerne, Kendall Co., Texas.

Range.—Type locality and unnamed cave near Sisterdale, Kendall Co., Texas.

Agonum (Rhadine) longicolle Benedict

Rhadine longicollis Benedict, 1928. Pan-Pac. Entomol., 4:44.

Agonum (Rhadine) longicolle (Benedict) Csiki, 1931. Coleopterum Catalogus, Pars 115, Carabidae: Harpavline V:849.

Type locality.—Carlsbad Caverns, Eddy Co., New Mexico.
 Range.—Caves of Carlsbad Caverns National Park, Eddy Co., New Mexico.

Agonum (Rhadine) specum Barr

Agonum (Rhadine) specum Barr, 1960. Am. Midl. Nat., 64:58.

Type locality.—Cave-Without-A-Name, Kendall Co., Texas.

Range.—Type locality, Cascade Caverns and Alzifar Cave, Kendall Co., Texas.

Agonum (Rhadine) subterraneum (Van Dyke)

Comstockia subterraneum Van Dyke, 1918. J. New York Entomol. Soc., 26:172.

Agonum (Rhadine) subterraneum (Van Dyke) Barr and Lawrence, 1960. Wasmann J. Biol., 18.

Type locality.—Sam Bass Cave, McNeil, Travis Co., Texas.

Range.—Known only from type locality.

Agonum (Rhadine) tenebrosum Barr

Agonum (Rhadine) tenebrosum Barr, Am. Midl. Nat., 64:57.

Type locality.—Wilson's Cave, 25 miles southwest of Hunt, Kerr Co., Texas.

Range.—Type locality and unnamed cave near Hunt, Kerr Co., Texas.

Ameroduvalius jeanneli jeanneli Valentine

Ameroduvalius jeanneli jeanneli Valentine, 1952. Geol. Survey Alabama, Mus. Pap. no. 34:27.

Type locality.—Sloan's Valley (Cassidy) Cave, 6 miles southeast of Burnside, Pulaski Co., Kentucky.

Range.—Caves of Pulaski and McCreary Cos., Kentucky.

Ameroduvalius jeanneli rockcastlei Valentine

Ameroduvalius jeanneli rockcastlei Valentine, 1952. Geol. Surv. Alabama, Mus. Pap. no. 34:29.

Type locality.—Rockcastle Saltpeter Cave, 4 miles north of Livingston, Rockcastle Co., Kentucky.

Range.—Known only from type locality.

Darlingtonea kentuckensis kentuckensis Valentine

Darlingtonea kentuckensis kentuckensis Valentine, 1952. Geol. Surv. Alabama, Mus. Pap. no. 34:22.

Type locality.—Richardson's Cave, 2.5 miles east of Somerset, Pulaski Co., Kentucky.

Range.—Caves of Pulaski, McCreary, Wayne and Clinton Cos., Kentucky, and Fentress Co., Tennessee.

Darlingtonea kentuckensis lexingtoni Valentine

Darlingtonea kentuckensis lexingtoni Valentine, 1952. Geol. Surv. Alabama, Mus. Pap. no. 34:24.

Type locality.—Rockcastle Saltpeter Cave, 4 miles north of Livingston, Rockcastle Co., Kentucky.

Range.—Known only from type locality.

Horologion speokoites Valentine

Horologion speokoites Valentine, 1932. Ann. Am. Entomol. Soc., 25:3.

Type locality.—Arbuckle Cave, Greenbrier Co., West Virginia.

Range.—Known only from type locality.

Neaphaenops tellkampfi tellkampfi (Erichson)

Anophthalmus tellkampfi Erichson, 1844. Mullers Arch. Anat. u. Phys., p. 384.

Neaphaenops tellkampfi (Erichson) Jeannel, 1920. Bull. Soc. Entomol. France, p. 154.

Neaphaenops tellkampfi tellkampfi (Erichson) Jeannel, 1949. Notes Bio-speol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:90.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Barren, Hart, southern Hardin and eastern Edmonson Cos., Kentucky.

Neaphaenops tellkampfi henroti Jeannel

Neaphaenops tellkampfi henroti Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:90.

Type locality.—Sig Shacklett Cave, 5 miles southwest of Garret, Meade Co., Kentucky.

Range.—Caves of Meade Co., Kentucky.

Neaphaenops tellkampfi meridionalis Barr

Neaphaenops tellkampfi meridionalis Barr, 1959. J. Tenn. Acad. Sci., 34:23.

Type locality.—Hoy Cave, 2 miles north of Franklin, Simpson Co., Kentucky.

Range.—Known only from type locality.

Nelsonites jonesei Valentine

Nelsonites jonesei Valentine, 1952. Geol. Surv. Alabama, Mus. Pap. no. 34:16.

Type locality.—Richardson's Cave, 2.5 miles east of Somerset, Pulaski Co., Kentucky.

Range.—Caves of Somerset area, Pulaski Co., Kentucky.

Nelsonites walteri Valentine

Nelsonites walteri Valentine, 1952. Geol. Surv. Alabama, Mus. Pap. no. 34:18.

Type locality.—Johnson Cave, 7 miles southwest of Monterey, Putnam Co., Tennessee.

Range.—Caves of Putnam, Overton, Fentress, White and Van Buren Cos., Tennessee.

Pseudanophthalmus alabamae Valentine

Pseudanophthalmus alabamae Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:273.

Type locality.—Manitou Cave, 1.5 miles southwest of Fort Payne, De Kalb Co., Alabama.

Range.—Known only from type locality.

Pseudanophthalmus audax Horn

Pseudanophthalmus audax Horn, 1883. Trans. Am. Entomol. Soc., 10:270.

Type locality.—Ronald's Cave, Hart Co., Kentucky.

Range.—Known only from type locality.

Pseudanophthalmus barberi Jeannel

Pseudanophthalmus barberi Jeannel, 1928. L'Abeille, 35:138.

Type locality.—Rockhaven Cave, 8 miles east-by-northeast of Brandenburg, Meade Co., Kentucky.

Range.—Caves of Meade Co., Kentucky.

Pseudanophthalmus ciliaris ciliaris Valentine

Pseudanophthalmus ciliaris Valentine, 1937. J. Elisha Mitchell Sci. Soc., 53:95.

Pseudanophthalmus ciliaris ciliaris Valentine, Barr, 1959. J. Tenn. Acad. Sci., 34:6.

Type locality.—Dunbar Cave, 3 miles east of Clarksville, Montgomery Co., Tennessee.

Range.—Robertson and Montgomery Cos., Tennessee and eastern Christian Co., Kentucky.

Pseudanophthalmus ciliaris colemanensis Barr

Pseudanophthalmus ciliaris colemanensis Barr, 1959. J. Tenn. Acad. Sci., 34:6.

Type locality.—Coleman Cave, 8 miles west of Clarksville, Montgomery Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus ciliaris loganensis Barr

Pseudanophthalmus ciliaris loganensis Barr, 1959. J. Tenn. Acad. Sci., 34:7.

Type locality.—Cook Cave, 1 mile east of Adairville, Logan Co., Kentucky.

Range.—Caves of the upper Red River Valley, Kentucky and Tennessee.

Pseudanophthalmus cumberlandus Valentine

Pseudanophthalmus cumberlandus Valentine, 1937. J. Elisha Mitchell Sci. Soc., 53:96.

Type locality.—Piper Cave, Monoville, Smith Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus digitus Valentine

Pseudanophthalmus digitus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:270.

Type locality.—Crystal City Caves (Tennessee Caverns), 5 miles west of Chattanooga, Hamilton Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus emersoni Krekeler

Pseudanophthalmus emersoni Krekeler, 1958. Am. Midl. Nat., 59:176.

Type locality.—Donnchue's Cave, 1 mile southwest of Bedford, Lawrence Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus engelhardti (Barber)

Anophthalmus engelhardti Barber, 1928. J. Wash. Acad. Sci., 18:195.

Pseudanophthalmus engelhardti (Barber) Jeannel, 1928. L'Abeille, 35:130.

Type locality.—English Cave, 3 miles south of Cumberland Gap, Claiborne Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus eremita (Horn)

Anophthalmus eremita Horn, 1871. Trans. Am. Entomol. Soc., 3:325.

Pseudanophthalmus eremita (Horn) Barr, 1960. Am. Midl. Nat., 63:308.

Type locality.—Wyandotte Cave, Crawford Co., Indiana.

Range.—Type locality and Langdon's Cave, Harrison Co., Indiana.

Pseudanophthalmus fuscus fuscus Valentine

Pseudanophthalmus fuscus fuscus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:254.

Type locality.—Coffman's Cave, Greenbrier Co., West Virginia.

Range.—Caves of northern Greenbrier Co., West Virginia.

Pseudanophthalmus fuscus constrictus Valentine

Pseudanophthalmus fuscus constrictus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:267.

Type locality.—Organ Cave, Ronceverte, Greenbrier Co., West Virginia.

Range.—Caves of southern Greenbrier Co., West Virginia.

Pseudanophthalmus gracilis Valentine

Pseudanophthalmus gracilis Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:253.

Type locality.—Tawney's Cave, Newport, Giles Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus grandis grandis Valentine

Pseudanophthalmus grandis grandis Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:254.

Type locality.—Higginbotham's Cave, Frankford, Greenbrier Co., West Virginia.

Range.—Caves of northern Greenbrier Co., West Virginia.

Pseudanophthalmus grandis elevatus Valentine

Pseudanophthalmus grandis elevatus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:265.

Type locality.—Organ Cave, Ronceverte, Greenbrier Co., West Virginia.

Range.—Caves of southern Greenbrier Co., West Virginia.

Pseudanophthalmus henroti Jeannel

Pseudanophthalmus henroti Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:69.

Type locality.—Arbuckle's Cave, Greenbrier, Co., West Virginia.

Range.—Known only from type locality.

Pseudanophthalmus hesperus Barr

Pseudanophthalmus hesperus Barr, 1959. J. Tenn. Acad. Sci., 34:15.

Type locality.—Bethel Cave, Perry Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus higginbothami Valentine

Pseudanophthalmus higginbothami Valentine, 1931. J. Elisha Mitchell Sci. Soc., 46:251.

Type locality.—Higginbotham's Cave, Frankford, Greenbrier Co., West Virginia.

Range.—Caves of northern Greenbrier Co., West Virginia.

Pseudanophthalmus hirsutus hirsutus Valentine

Pseudanophthalmus hirsutus hirsutus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:252.

Type locality.—King Solomon's Cave, Cumberland Gap, Claiborne Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus hirsutus delicatus Valentine

Pseudanophthalmus hirsutus delicatus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:270.

Type locality.—Gilly's Cave, 1 mile south of Pennington Gap, Lee Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus hubbardi hubbardi (Barber)

Anophthalmus hubbardi Barber, 1928. J. Wash. Acad. Sci., 18:196.

Pseudanophthalmus hubbardi (Barber) Jeannel, 1928. L'Abeille, 35:130.

Pseudanophthalmus hubbardi hubbardi (Barber) Jeannel, 1931. Arch. Zool. exp. Gen., 71:450.

Type locality.—Luray Caverns, Luray, Page Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus hubbardi avernus Valentine

Pseudanophthalmus hubbardi avernus Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:648.

Type locality.—Endless Caverns, Rockingham Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus hubbardi limicola Jeannel

Pseudanophthalmus hubbardi limicola Jeannel, 1931. Arch. Zool. exp. Gen., 71:450.

Type locality.—Madden Cave, 1.5 miles northwest of New Market Station, Shenandoah Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus hubbardi parvicollis Jeannel

Pseudanophthalmus hubbardi parvicollis Jeannel, 1931. Arch. Zool. exp. Gen., 71:450.

Type locality.—Battlefield Crystal Cave, 2 miles northeast of Strasburg, Shenandoah Co., Virginia.

Range.—Known only from type locality.

- Pseudanophthalmus hubrichti* Valentine
Pseudanophthalmus hubrichti Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:13.
 Type locality.—Dougherty's Cave, 3 miles northwest of Lebanon, Russell Co., Virginia.
 Range.—Known only from type locality.
- Pseudanophthalmus hypertrichosis* Valentine
Pseudanophthalmus hypertrichosis Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:266.
 Type locality.—Martha Clarke Cave, 2 miles southwest of Hillsboro, Pocahontas Co., West Virginia.
 Range.—Known only from type locality.
- Pseudanophthalmus inexpectatus* Barr
Pseudanophthalmus inexpectatus Barr, 1959. J. Tenn. Acad. Sci., 34:10.
 Type locality.—White Cave, Edmonson Co., Kentucky.
 Range.—Type locality and Mammoth Cave National Park, Edmonson Co., Kentucky.
- Pseudanophthalmus intermedius* Valentine
Neaphaenops intermedius Valentine, 1931. J. Elisha Mitchell Sci. Soc., 46:249.
Pseudanophthalmus intermedius Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:276.
 Type locality.—Wonder Cave, Monteagle, Grundy Co., Tennessee.
 Range.—Known only from type locality.
- Pseudanophthalmus jonesi* Valentine
Pseudanophthalmus jonesi Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:645.
 Type locality.—Salt peter Cave, Grassy Cove, Cumberland Co., Tennessee.
 Range.—Known only from type locality.
- Pseudanophthalmus lallemandi* Jeannel
Pseudanophthalmus lallemandi Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:74.
 Type locality.—General Davis Cave, Greenbrier Co., West Virginia.
 Range.—Known only from type locality.
- Pseudanophthalmus leonae* Barr
Pseudanophthalmus leonae Barr, 1960. Am. Midl. Nat., 63:310.
 Type locality.—Hert Hollow Cave, 2 miles southwest of Springville, Lawrence Co., Indiana.
 Range.—Known only from type locality.
- Pseudanophthalmus lodingi lodingi* Valentine
Pseudanophthalmus lodingi lodingi Valentine, 1931. J. Elisha Mitchell Sci. Soc., 46:252.
 Type locality.—Shelta Cave, Huntsville, Madison Co., Alabama.
 Range.—Caves of northwestern Madison Co., Alabama.
- Pseudanophthalmus lodingi aladdini* Valentine
Pseudanophthalmus lodingi aladdini Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:637.
 Type locality.—Aladdin Cave, upper end of Sharp Cove, Madison Co., Alabama.
 Range.—Caves of the tributaries of the Flint and Paint Rock Rivers, north of the Tennessee River in Madison and Jackson Cos., Alabama.
- Pseudanophthalmus lodingi aquaticus* Valentine
Pseudanophthalmus lodingi aquaticus Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:638.
 Type locality.—Cave Spring Cave, between Troy and Keel mountains, near Berkely, Madison Co., Alabama.

Range.—Known only from type locality.

Pseudanophthalmus lodingi distinguens Valentine

Pseudanophthalmus lodingi distinguens Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:12.

Type locality.—Inge Cave, 5.5 miles south of Trinity, Morgan Co., Alabama.

Range.—Known only from type locality.

Pseudanophthalmus lodingi fluviatilis Valentine

Pseudanophthalmus lodingi fluviatilis Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:12.

Type locality.—Rock House Cave, 1 mile south of Oleander, Marshall Co., Alabama.

Range.—Type locality and caves of Newsome Sinks, Morgan Co., Alabama.

Pseudanophthalmus lodingi fulleri Valentine

Pseudanophthalmus fulleri Valentine, 1932. J. Elisha Mitchell Sci. Soc., 37:272.

Pseudanophthalmus lodingi fulleri Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:10.

Type locality.—Tennessee Caverns, 5 miles west of Chattanooga, Hamilton Co., Tennessee.

Range.—Caves of Lookout Valley, in Hamilton Co., Tennessee, and Dade Co., Georgia.

Pseudanophthalmus lodingi humeralis Valentine

Pseudanophthalmus humeralis Valentine, 1931. J. Elisha Mitchell Sci. Soc., 46:253.

Pseudanophthalmus humeralis brevis Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:273.

Pseudanophthalmus lodingi brevis Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:641.

Pseudanophthalmus lodingi humeralis Valentine, Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:84.

Type locality.—Crystal Cave, Grundy Co., Tennessee.

Range.—Crystal and Wonder Caves, Monteagle, Grundy Co., Tennessee.

Pseudanophthalmus lodingi meridionalis Valentine

Pseudanophthalmus lodingi meridionalis Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:639.

Type locality.—Guntersville Caverns, 3 miles east of Guntersville, Marshall Co., Alabama.

Range.—Known only from type locality.

Pseudanophthalmus lodingi profundus Valentine

Pseudanophthalmus lodingi profundus Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:637.

Type locality.—Natural well, Monte Santo Mountain, Madison Co., Alabama.

Range.—Known only from type locality.

Pseudanophthalmus macrabei Valentine

Pseudanophthalmus macrabei Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:9.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Caves of eastern Warren Co., Tennessee.

Pseudanophthalmus menestriesi Motschoulsky

Pseudanophthalmus menestriesi Motschoulsky, 1862. Etudes entomol., Pt. XI, p. 41.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Caves of Edmonson, Barren and Hart Cos., Kentucky.

Pseudanophthalmus orlindae Barr

Pseudanophthalmus orlindae Barr, 1959. J. Tenn. Acad. Sci., 34:7.

Type locality.—Jesse James Cave, 1.5 miles southeast of Orlinda, Robertson Co., Tennessee.

Range.—Caves along the South Fork of Red River, Kentucky and Tennessee.

Pseudanophthalmus orthosulcatus Valentine

Pseudanophthalmus grandis orthosulcatus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:265.

Pseudanophthalmus orthosulcatus Valentine, Jeannel, 1949. Notes Biosp. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:68.

Type locality.—Greenville, Salt peter Cave, Monroe Co., West Virginia.

Range.—Type locality and Laurel Creek Caves, Monroe Co., West Virginia.

Pseudanophthalmus packardi Barr

Pseudanophthalmus packardi Barr, 1959. J. Tenn. Acad. Sci., 34:22.

Type locality.—Bat Cave, Carter Co., Kentucky.

Range.—Known only from type locality.

Pseudanophthalmus petrunkevitchi Valentine

Pseudanophthalmus petrunkevitchi Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:652.

Type locality.—Skyline Caverns, 2 miles southwest of Front Royal, Warren Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus potomaca potomaca Valentine

Pseudanophthalmus potomaca Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:262.

Pseudanophthalmus hubbardi potomaca Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:651.

Pseudanophthalmus potomaca potomaca Valentine, Jeannel, 1949. Notes Biosp. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:63.

Type locality.—Simmons Cave, Cave, Pendleton Co., West Virginia.

Range.—Type locality and Vandeventer's Cave, Highland Co., Virginia.

Pseudanophthalmus potomaca senecae Valentine

Pseudanophthalmus potomaca senecae Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:263.

Pseudanophthalmus hubbardi senecae, Valentine, 1945. Trans. Conn. Acad. Arts and Sci., 36:351.

Pseudanophthalmus potomaca senecae Valentine, Jeannel, 1949. Notes Biosp. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:64.

Type locality.—Seneca Caverns, Riverton, Pendleton Co., West Virginia.

Range.—Seneca Caverns, Nameless and Stratosphere Ballon caves, Pendleton Co., West Virginia.

Pseudanophthalmus pubescens Horn

Pseudanophthalmus pubescens Horn, 1868. Trans. Am. Entomol. Soc., 2:124.

Type locality.—Cave City Cave, Barren Co., Kentucky.

Range.—Caves in vicinity of Cave City, Barren Co., Kentucky.

Pseudanophthalmus punctatus Valentine

Pseudanophthalmus pusio var. *punctatus* Valentine, 1931. J. Elisha Mitchell Sci. Soc., 46:250.

Pseudanophthalmus punctatus Valentine, 1932. J. Elisha Mitchell Sci. Soc., 47:266.

Type locality.—Tawney's Cave, Newport, Giles Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus pusio pusio Horn

Pseudanophthalmus pusio Horn, 1868. Trans. Am. Entomol. Soc., 2:124.
Pseudanophthalmus pusio pusio Horn, Valentine, 1932. J. Elisha Mitchell
 Sci. Soc., 47:268.

Type locality.—Erhart's Cave, 5 miles east of Christianburg, Montgomery
 Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus pusio bathycola Valentine

Pseudanophthalmus pusio bathycola Valentine, 1932. J. Elisha Mitchell
 Sci. Soc., 47:268.

Type locality.—Aunt Nellie's Cave, 3 miles southeast of Blacksburg, Mont-
 gomery Co., Virginia.

Range.—Known only from type locality.

Pseudanophthalmus robustus robustus Valentine

Pseudanophthalmus robustus robustus Valentine, 1931. J. Elisha Mitchell
 Sci. Soc., 46:250.

Type locality.—Johnson Cave, near Calfkiller, Putnam Co., Tennessee.

Range.—Caves of Putnam and northern White Cos., Tennessee.

Pseudanophthalmus robustus beaklei Valentine

Pseudanophthalmus robustus beaklei Valentine, 1937. J. Elisha Mitchell
 Sci. Soc., 53:97.

Type locality—Bunkum Cave, Byrdstown, Pickett Co., Tennessee.

Range—Caves of Pickett and Fentress Cos., Tennessee and southern Clin-
 ton and Wayne Cos., Kentucky.

Pseudanophthalmus robustus farrelli Barr

Pseudanophthalmus robustus farrelli Barr, 1959. J. Tenn. Acad. Sci.,
 34:12.

Type locality.—Indian Grave Point Cave, 6 miles southwest of Smithville,
 De Kalb Co., Tennessee.

Range.—Caves of southern De Kalb Co., Tennessee.

Pseudanophthalmus robustus lupus Barr

Pseudanophthalmus robustus lupus Barr, 1959. J. Tenn. Acad. Sci., 34:14.

Type locality.—Wolf River Cave, Fentress Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus robustus megosteus Barr

Pseudanophthalmus robustus megosteus Barr, 1959. J. Tenn. Acad. Sci.,
 34:12.

Type locality.—Big Bone Cave, Van Buren Co., Tennessee.

Range.—Caves of Van Buren Co., Tennessee.

Pseudanophthalmus robustus neglectus Jeannel

Pseudanophthalmus robustus neglectus Jeannel, 1949. Notes Biospeol.
 fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:51.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Caves of eastern Warren Co., Tennessee.

Pseudanophthalmus rotundatus Valentine

Pseudanophthalmus rotundatus Valentine, 1932. J. Elisha Mitchell Sci.
 Soc., 27:271.

Type locality.—English Cave, 5 miles southwest of Cumberland Gap, Clai-
 borne Co., Tennessee.

Range.—Type locality and Cooper's Cave, Hancock Co., Tennessee.

Pseudanophthalmus shilohensis shilohensis Krekeler

Pseudanophthalmus shilohensis Krekeler, 1958. Am. Midl. Nat., 59:178.
Pseudanophthalmus shilohensis shilohensis Krekeler, Barr, 1960. Am. Midl.
 Nat., 63:317.

Type locality.—Shiloh Church Cave, near Eureka Springs, Lawrence Co.,
 Indiana.

Range.—Caves of western Lawrence Co., Indiana.

Pseudanophthalmus shilohensis boonensis Krekeler

Pseudanophthalmus boonensis Krekeler, 1958. Am. Midl. Nat., 59:180.

Pseudanophthalmus shilohensis boonensis Krekeler, Barr, 1960. Am. Midl. Nat., 63:318.

Type locality.—Boone Cave, 1 mile north of Freeman, Owen Co., Indiana.
Range.—Known only from type locality.

Pseudanophthalmus shilohensis mayfieldensis Krekeler

Pseudanophthalmus mayfieldensis Krekeler, 1958. Am. Midl. Nat., 59:178.

Pseudanophthalmus shilohensis mayfieldensis Krekeler, Barr, 1960. Am. Midl. Nat., 63:318.

Type locality.—Mayfield's Cave, 5 miles west-by-northwest of Bloomington, Monroe Co., Indiana.

Range.—Caves of central Monroe Co., Indiana.

Pseudanophthalmus striatus Motschoulsky

Pseudanophthalmus striatus Motschoulsky, 1862. Etudes entomol., Pt. XI, p. 41.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Caves of Edmonson, Barren and Hart Cos., Kentucky.

Pseudanophthalmus templetoni templetoni Valentine

Pseudanophthalmus templetoni Valentine, 1948. Geol. Surv. Alabama, Mus. Pap. no. 27:7.

Pseudanophthalmus templetoni templetoni Valentine, Barr, 1959. J. Tenn. Acad. Sci., 34:15.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Caves of eastern Warren and northern Grundy Cos., Tennessee.

Pseudanophthalmus templetoni vanburenensis Barr

Pseudanophthalmus templetoni vanburenensis Barr, 1959. J. Tenn. Acad. Sci., 34:15.

Type locality.—McElroy Cave, Van Buren Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tenesensis Valentine

Pseudanophthalmus tenesensis Valentine, 1937. J. Elisha Mitchell Sci. Soc., 53:98.

Type locality.—Grand Caverns, Byington, Knox Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tenuis tenuis (Horn)

Anophthalmus tenuis Horn, 1871. Trans. Am. Entomol. Soc., 3:327.

Anophthalmus eremita Horn, Leng, 1920. Catalogue of Coleoptera, p. 55.

Pseudanophthalmus eremita Jeannel, 1928. L'Aveille, 32:131.

Pseudanophthalmus bloomi Krekeler, 1950. Am. Midl. Nat., 59:172.

Pseudanophthalmus tenuis tenuis (Horn) Barr, 1960. Am. Midl. Nat., 63:312.

Type locality.—Wyandotte Cave, Crawford Co., Indiana.

Range.—Caves of Crawford, Harrison and southern Washington Cos., Indiana.

Pseudanophthalmus tenuis blatchleyi Barr

Pseudanophthalmus tenuis blatchleyi Barr, 1960. Am. Midl. Nat., 63:312.

Type locality.—Truitt's Cave, near Bloomington, Monroe Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus tenuis jeanneli Krekeler

Pseudanophthalmus jeanneli, Krekeler, 1958. Am. Midl. Nat., 59:171.

Pseudanophthalmus tenuis jeanneli Krekeler, Barr, 1960. Am. Midl. Nat., 63:315.

Type locality.—Elrod's Cave, 2 miles east of Orangeville, Orange Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus tenuis morrisoni Jeannel

Pseudanophthalmus eremita morrisoni Jeannel, 1931. Arch. Zool. exp. Gen., 71:451.

Pseudanophthalmus morrisoni Krekeler, 1958. Am. Midl. Nat., 59:171.

Pseudanophthalmus tenuis morrisoni Jeannel, Barr, 1960. Am. Midl. Nat., 63:315.

Type locality.—Donaldson Cave, 4 miles east of Mitchell, Lawrence Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus tenuis stricticollis Jeannel

Pseudanophthalmus eremita stricticollis Jeannel, 1931. Arch. Zool. Exp. et Gen., 71:468.

Pseudanophthalmus stricticollis Krekeler, 1958. Am. Midl. Nat., 59:170.

Pseudanophthalmus tenuis stricticollis Jeannel, Barr, 1960. Am. Midl. Nat., 63:315.

Type locality.—Marengo Cave, 12 miles north of Wyandotte Cave, Crawford Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus tiresias tiresias Barr

Pseudanophthalmus tiresias tiresias Barr, 1950. J. Tenn. Acad. Sci. 34:16.

Type locality.—Indian Grave Point Cave, 6 miles southwest of Smithville, De Kalb Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tiresias acherontis Barr

Pseudanophthalmus tiresias acherontis Barr, 1959. J. Tenn. Acad. Sci., 34:20.

Type locality.—Echo Cave, 2 miles northeast of Rockvale, Rutherford Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tiresias bendermani Barr

Pseudanophthalmus tiresias bendermani Barr, 1959. J. Tenn. Acad. Sci., 34:21.

Type locality.—Benderman Cave, Southport, Maury Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tiresias catherinae Barr

Pseudanophthalmus tiresias catherinae Barr, 1959. J. Tenn. Acad. Sci., 34:17.

Type locality.—Petty Cave, Marshall Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tiresias insularis Barr

Pseudanophthalmus tiresias insularis Barr, 1959. J. Tenn. Acad. Sci., 34:18.

Type locality.—Baker Station Cave, northern Davidson Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus tiresias occidentalis Barr

Pseudanophthalmus tiresias occidentalis Barr, 1959. J. Tenn. Acad. Sci., 34:18.

Type locality.—DePriest Branch Cave, Lewis Co., Tennessee.

Type locality.—Caves of Cane Creek Valley, Lewis and Hickman Cos., Tennessee.

Pseudanophthalmus tiresias tullahoma Barr

Pseudanophthalmus tiresias tullahoma Barr, 1959. J. Tenn. Acad. Sci., 34:20.

Type locality.—Carroll Cave, Coffee Co., Tennessee.

Range.—Known only from type locality.

Pseudanophthalmus valentinei Jeannel

Pseudanophthalmus valentinei Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:51.

Type locality.—Johnson Cave, Putnam Co., Tennessee.

Range.—Caves of eastern Putnam and Overton Cos., Tennessee.

Pseudanophthalmus youngi youngi Krekeler

Pseudanophthalmus youngi Krekeler, 1958. Am. Midl. Nat., 59:175. *Pseudanophthalmus youngi youngi* Krekeler, Barr, 1960. Am. Midl. Nat., 63:317.

Type locality.—Clifty Caves, 4 miles north of Campbellsburg, Washington Co., Indiana.

Range.—Known only from type locality.

Pseudanophthalmus youngi donaldsoni Krekeler

Pseudanophthalmus donaldsoni Krekeler, 1958. Am. Midl. Nat., 59:175. *Pseudanophthalmus youngi donaldsoni* Krekeler, Barr, 1960. Am. Midl. Nat., 63:317.

Type locality.—Donaldson Cave, 4 miles east of Mitchell, Lawrence Co., Indiana.

Range.—Known only from type locality.

Catopidae

Ptomaphagus (Adelops) hirtus Tellkampf

Adelops hirtus Tellkampf, 1844. Müller's Archiv. Naturgesch., 10:33.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Caves of Edmonson, Barren and Hart Cos., Kentucky.

Ptomaphagus (Adelops) hatchi Jeannel

Ptomaphagus (Adelops) hatchi Jeannel, 1939. Bull. Soc. entomol. France, 1939:252.

Type locality.—Wonder Cave, Grundy Co., Tennessee.

Range.—Caves of southern Grundy and Franklin Cos., Tennessee.

Ptomaphagus (Adelops) henroti henroti Jeannel

Ptomaphagus (Adelops) henroti henroti Jeannel, 1949. Notes. Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:102.

Type locality.—Aladdin Cave, Sharp's Cove, Madison Co., Alabama.

Range.—Known only from type locality.

Ptomaphagus (Adelops) henroti ellipticus Jeannel

Ptomaphagus (Adelops) henroti ellipticus Jeannel, 1949. Notes. Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:102.

Type locality.—Shelta Cave, Huntsville, Madison Co., Alabama.

Range.—Shelta and Barclay Caves, Madison Co., Alabama.

Ptomaphagus (Adelops) hubrichti Barr

Ptomaphagus (Adelops) hubrichti Barr, 1958. J. Tenn. Acad. Sci., 33:170.

Type locality.—Cripp's Mill Cave, 5 miles southwest of Smithville, DeKalb Co., Tennessee.

Range.—Caves of DeKalb Co., Tennessee.

Ptomaphagus (Adelops) laticornis Jeannel

Ptomaphagus (Adelops) laticornis Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:102.

Type locality.—Scott Cave, Sharp's Cove, Madison Co., Alabama.

Range.—Known only from type locality.

Ptomaphagus (Adelops) lodingi Hatch

Ptomaphagus (Adelops) lodingi Hatch, 1933. J. New York Entomol. Soc., 41:209.

Type locality.—Shelta Cave, Huntsville, Madison Co., Alabama.

Range.—Shelta and Barclay Caves, Madison Co., Alabama.

Ptomaphagus (Adelops) shapardi Sanderson

Ptomaphagus (Adelops) shapardi Sanderson, 1939. J. Kansas Ent. Soc., 12:121.

Type locality.—Dresser Cave, on Flore's Creek, near Fort Gibson Dam, Cherokee Co., Oklahoma.

Range.—Known only from type locality.

Ptomaphagus (Adelops) valentinei valentinei Jeannel

Ptomaphagus (Adelops) valentinei valentinei Jeannel, 1933. Bull. Soc. entomol. France, 1933:252.

Type locality.—Sauta Cave, Lim Rock, Jackson Co., Alabama.

Range.—Known only from type locality.

Ptomaphagus (Adelops) valentinei jonesi Jeannel

Ptomaphagus (Adelops) valentinei jonesi Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:103.

Type locality.—Pitts sinkhole, head of Big Cove, Madison Co., Alabama.

Range.—Known only from type locality.

Ptomaphagus (Adelops) valentinei longicornis Jeannel

Ptomaphagus (Adelops) valentinei longicornis Jeannel, 1949. Notes Biospeol. fasc. 4, Publ. Mus. Nat. Hist. Paris, no. 12:103.

Type locality.—Cave Spring Cave, near Berkeley, Madison Co., Alabama.

Range.—Known only from type locality.

Pselaphidae

Arianops (Arispeleops) cavernensis Park

Arianops (Arispeleops) cavernensis Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:41.

Type locality.—Saltpeter Cave, Marshall Co., Alabama.

Range.—Known only from type locality.

Arianops (Arispeleops) jeannelli Park

Arianops (Arispeleops) cavernensis jeannelli Park, 1956. J. Tenn. Acad. Sci., 31:85.

Type locality.—Gilly's Cave, Pennington Gap, Lee Co., Virginia.

Range.—Known only from type locality.

Arianops (Arispeleops) stygica Park

Arianops (Arispeleops) stygica Park, 1960. Am. Midl. Nat., 64:67.

Type locality.—Cumberland Caverns, Warren Co., Tennessee.

Range.—Known only from type locality.

Batriasymmodes quisnamus (Park)

Batrisodes quisnamus Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:20.

Batrisodes jeannelli Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:21.

Batrisodes redundus Park, 1956. J. Tenn. Acad. Sci., 31:65.

Batriasymmodes quisnamus (Park) Park, 1960. Am. Midl. Nat., 64:82.

Type locality.—Bunkum Cave, Byrdstown, Pickett Co., Tennessee.

Range.—Type locality; Pratt Cave, Pickett Co.; Lindsay Williams Cave, De Kalb Co.; Burial Cave, Jackson Co. and Sam Lackey Cave, Sumner Co., Tennessee.

Batriasymmodes spelaeus (Park)

Batrisodes spelaeus Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:16.

Batriasymmodes spelaeus (Park) Park, 1960. Am. Midl. Nat., 64:82.

Type locality.—Bangor Cave, Blount Co., Alabama.

Range.—Known only from type locality.

Batriasymmodes troglodytes (Park)

Batrisodes troglodytes Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:23.

- Batriasymmodes troglodytes* (Park) Park, 1960. Am. Midl. Nat., 64:82.
 Type locality.—Rock Cave, Greenville, Butler Co., Alabama.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) barri* Park
Batrisodes (Babnormodes) barri Park, 1958. J. Tenn. Acad. Sci., 33:40.
 Type locality.—Dickson Cave, 1.5 miles south of Dickson, Dickson Co., Tennessee.
 Range.—Dickson Cave and Columbia Caverns, Dickson Co., Tennessee.
- Batrisodes (Babnormodes) clypeospecus* Park
Batrisodes (Babnormodes) clypeospecus Park, 1960. Am. Midl. Nat., 64:71.
 Type locality.—Reed Creek Cave, Fentress Co., Tennessee.
 Range.—Type locality and Upper and Lower Parrot Caves, Overton Co., Tennessee.
- Batrisodes (Babnormodes) ferulifer* Park
Batrisodes (Babnormodes) ferulifer Park, 1960. Am. Midl. Nat., 64:69.
 Type locality.—Benderman Cave, Southport, Maury Co., Tennessee.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) gemmoides* Park
Batrisodes (Babnormodes) gemmoides Park, 1960. Am. Midl. Nat., 64:68.
 Type locality.—Columbia Caverns, Dickson Co., Tennessee.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) gemmus* Park
Batrisodes (Babnormodes) gemmus Park, 1956. J. Tenn. Acad. Sci., 31:71.
 Type locality.—Jewel Cave, 12 miles northwest of Dickson, Dickson Co., Tennessee.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) henroti* Park
Batridores (Babnormodes) henroti Park, 1956. J. Tenn. Acad. Sci., 31:70.
 Type locality.—Vance Cave, Park City, Barren Co., Kentucky.
 Range.—Vance and Beckton Caves, Barren Co.; caves of Edmonson and Hart Cos., Kentucky.
- Batrisodes (Babnormodes) hubrichti* Park
Batridores (Babnormodes) hubrichti Park, 1958. J. Tenn. Acad. Sci., 33:41.
 Type locality.—Beckton Cave, 0.4 miles northwest of Beckton, Barren Co., Kentucky.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) jocuvestus* Park
Batridores (Babnormodes) jocuvestus Park, 1960. Am. Midl. Nat., 64:70.
 Type locality.—Aladdin Cave, Maysville, Sharp's Cove, Madison Co., Alabama.
 Range.—Known only from type locality.
- Batrisodes (Babnormodes) jonesi* Park
Batridores (Babnormodes) jonesi Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:27.
 Type locality.—Little Bear Cave, Tuscumbia, Colbert Co., Alabama.
 Range.—Caves of western half of Colbert Co., Alabama.
- Batrisodes (?Babnormodes) krekeleri* Park
Batridores (?Babnormodes) krekeleri Park, 1960. Am. Midl. Nat., 64:74.
 Type locality.—Cave Spring, 2.5 miles south-southwest of New Washington, Clark Co., Indiana.
 Range.—Known only from type locality.

Batrisodes (Babnormodes) pannosus Park

Batrisodes (Babnormodes) pannosus Park, 1960. Am. Midl. Nat., 64:72.

Type locality.—Pedigo Cave, Cookeville, Putnam Co., Tennessee.

Range.—Known only from type locality.

Batrisodes (Babnormodes) profundus Park

Batrisodes (Babnormodes) profundus Park 1956. J. Tenn. Acad. Sci., 31:68.

Type locality.—Turk's (Brooklyn) Cave, near Brooklyn, Conecuh Co., Alabama.

Range.—Known only from type locality.

Batrisodes (?Babnormodes) schneiderensis Park

Batridores (?Babnormodes) schneiderensis Park, 1960. Am. Midl. Nat., 64:75.

Type locality.—Schneider Ranch Cave, 12 miles north-northeast of Boerne, Kendall Co., Texas.

Range.—Known only from type locality.

Batrisodes (Babnormodes) specus Park

Batridores (Babnormodes) specus Park, 1951. Geol. Surv. Alabama, Mus. Pap. no. 31:35.

Type locality.—Hutton Cave, Sharp's Cove, Madison Co., Alabama.

Range.—Caves of southern Tennessee and northern Alabama.

Batridores (Babnormodes) subterraneus Park

Batridores (Babnormodes) subterraneus Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:30.

Type locality.—Griffith Cave, Guntersville, Marshall Co., Alabama.

Range.—Known only from type locality.

Batridores (Babnormodes) tumoris Park

Batridores (Babnormodes) tumoris Park, 1960. Am. Midl. Nat., 64:73.

Type locality.—McClusky Cave, Colbert Co., Alabama.

Range.—Known only from type locality.

Batridores (Babnormodes) valentinei Park

Batridores (Babnormodes) valentinei Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:32.

Type locality.—Goat Cave, Keel Mountain, Madison Co., Alabama.

Range.—Caves of northern Alabama and southern Tennessee.

Batridores (Excavodes) cavernosus Park

Batridores (Excavodes) cavernosus Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:25.

Type locality.—Hinson Cave, Greenville, Butler Co., Alabama.

Range.—Known only from type locality.

Bythinopsis hubrichti Park

Bythinopsis hubrichti Park, 1960. Am. Midl. Nat., 64:76.

Type locality.—Copelin Cave, 2 miles east of Millerstown, Hart Co., Kentucky.

Range.—Known only from type locality.

Bythinopsis jonesi Park

Bythinopsis jonesi Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:43.

Type locality.—Wolf Den Cave, near Maud, Colbert Co., Alabama.

Range.—Known only from type locality.

Machaerites (Speleochus) croceus Park

Machaerites (Speleochus) croceus Park, 1960. Am. Midl. Nat., 64:78.

Type locality.—Lott Cave, near Brownsboro, Madison Co., Alabama.

Range.—Lott and Twin Caves, Madison Co., Alabama.

Machaerites (Speleochus) stygius Park

Machaerites (Speleochus) stygius Park, 1951. Geol. Surv. Alabama, Mus.

Pap., no. 31:47.

Type locality.—Toll Gate Natural Well, Monte Sano Mountain, Madison Co., Alabama.

Range.—Madison Co., Alabama.

Machaerites (Speleochus) synstygicus Park

Machaerites (Speleochus) synstygicus Park, 1956. J. Tenn. Acad. Sci., 31:64.

Type locality.—Barclay Cave, King Mountain, Madison Co., Alabama.

Range.—Known only from type locality.

Machaerites (Subterrochus) eurus Park

Machaerites (Subterrochus) eurus Park, 1960. Am. Midl. Nat., 64:79.

Type locality.—Jess Elliot Cave, Jackson Co., Alabama.

Range.—Known only from type locality.

Machaerites (Subterrochus) ferus Park

Machaerites (Subterrochus) ferus Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:49.

Type locality.—Aladdin Cave, Sharp's Cove, Madison Co., Alabama.

Range.—Madison and Jackson Cos., Alabama.

Machaerites (Subterrochus) steevesi Park

Machaerites (Subterrochus) steevesi Park, 1960. Am. Midl. Nat., 64:80.

Type locality.—Guffey Cave, Marshall Co., Alabama.

Range.—Known only from type locality.

Speleobama vana Park

Speleobama vana Park, 1951. Geol. Surv. Alabama, Mus. Pap., no. 31:53.

Type locality.—McClunney (Alabama) Caverns, near Clay, Jefferson Co., Alabama.

Range.—Known only from type locality.

ARACHNIDA

PHALANGIDA

Nemastomatidae

Nemastoma inops Packard

Nemastoma inops Packard, 1886. Am. Nat., 18:203.

Type locality.—Bat Cave, Carter Co., Kentucky.

Range.—Caves of northern Kentucky.

Nemastoma packardi Roewer

Nemastoma troglodytes Packard, 1877. Bull. U. S. Geol. Surv. Terr (Hayden), 3:160.

Nemastoma packardi Roewer, 1914. Arch. Naturg., 80:163.

Type locality.—Clinton's Cave, Lake Point, Tooele Co., Utah.

Range.—Known only from type locality.

Nemastoma pallidimaculosa Goodnight and Goodnight

Nemastoma pallidimaculosa Goodnight and Goodnight, 1945. J. New York Entomol. Soc., 53:241.

Type locality.—Rockhouse Cave, Oleander, Marshall Co., Texas.

Range.—Known only from type locality.

Phalangoididae

Phalangodes armata Tellkampf

Phalangodes armata Tellkampf, 1844. Archiv fur Naturgeschichte, 10:320.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Caves of Kentucky and Tennessee.

Phalangodes californica (Banks)

Scotolemon californica Banks, 1900. J. New York Entomol. Soc., 8:200.

Phalangodes californica (Banks) Roewer, 1912. Archiv. Naturg. 78A:142.

Type locality.—Alabaster Cave, El Dorado Co., California.

Range.—Known only from type locality.

Texella mulaiki Goodnight and Goodnight

Texella mulaiki Goodnight and Goodnight, 1942. Am. Mus. Novitates, no. 1188:10.

Type locality.—San Marcos, Hays Co., Texas.

Range.—Known only from type locality.

Triaenonychidae

Sclerobonus cavicolens (Banks)

Cytobonus cavicolens Banks, 1905. Entomol. News, 16:251.

Sclerobonus cavicolens (Banks) Crosby and Bishop, 1924. Entomol. News, 35:109.

Type locality.—Morrison's Cave, 60 miles west of Bozeman, Madison Co., Montana.

Range.—Known only from type locality.

ARANEAE

Agelenidae

Cicurina buwata Chamberlin and Ivie

Circurina buwata Chamberlin and Ivie, 1940. Bull. Univ. Utah, Biol. Ser., 5(9):74.

Type locality.—Unnamed cave near Austin, Travis Co., Texas.

Range.—Known only from type locality.

Leptonetidae

Leptoneta coeca Chamberlin and Ivie

Leptoneta coeca Chamberlin and Ivie, 1942. Bull. Univ. Utah, Biol. Ser., 7:10.

Type locality.—Heidrich Cave, New Braunfels, Comal Co., Texas.

Range.—Known only from type locality.

Linyphiidae

Anthrobia monmouthia Tellkampf

Anthrobia monmouthia Tellkampf, 1844. Wiegman's Arch. f. Naturg., 10:318.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Virginia to Kentucky.

Phanetta subterranea (Emerton)

Linyphia subterranea Emerton, 1875. Am. Nat., 9:279.

Phanetta subterranea (Emerton) Keyserling, 1886. Spinnen Amerikas, Theridiidae, 2:125.

Type locality.—Wyandotte Caverns, Crawford Co., Indiana.

Range.—Caves of southeastern United States.

Willibaldia cavernicola Keyserling

Willibaldia cavernicola Keyserling, 1886. Spinnen Amerikas, Theridiidae, 2:123.

Type locality.—Reynold's Cave, Barren Co., Kentucky.

Range.—Caves of southeastern United States.

Nesticidae

Ivesia tennesseensis Petrunkevitch

Ivesia tennesseensis Petrunkevitch, 1925. Ann. Entomol. Soc. Am., 18:321.

Type locality.—Indian Cave, 5 miles northwest of New Market, Jefferson Co., Tennessee.

Range.—Caves of Kentucky, Tennessee and West Virginia.

Nesticus carteri Emerton

Nesticus carteri Emerton, 1875. Am. Nat., 9:279.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Caves of Kentucky and Tennessee.

Tuganobia potteria Chamberlin

Tuganobia potteria Chamberlin, 1933. Pan-Pac. Entomol., 9:124.

Type locality.—Potter Creek Cave, Shasta Co., California.
 Range.—Known only from type locality.

Ochyroceratidae

Usofila gracilis Marx

Usofila gracilis Marx, 1891. Proc. Entomol. Soc. Wash., 2:35.

Type locality.—Alabaster Cave, El Dorado Co., California.

Range.—Caves of California.

ACARINA

Eupodidiidae

Rhagida cavicola Banks

Rhagida cavicola Banks, 1897. Am. Nat., 31:382.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Known only from type locality.

Linopodes mammouthia Banks

Lonopodes mammouthia Banks, 1897. Am. Nat., 31:383.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky.

Range.—Known only from type locality.

MOLLUSCA

GASTROPODA

MESOGASTROPODA

Bulimidae

Amnicola aldrichi antroecetes Hubricht

Amnicola aldrichi antroecetes Hubricht, 1940. Nautilus, 53:120.

Type locality.—Shemmler's Cave, 2 miles south of Bluffside, St. Clair Co., Illinois

Range.—Cave streams of eastern Ozarks.

Amnicola procerpina Hubricht

Amnicola procerpina Hubricht, 1940. Nautilus, 53:121.

Type locality.—Rice's Cave, Jefferson Co., Missouri.

Range.—Type locality and a spring, Osage Hills Golf Course, Kirkwood, St. Louis Co., Missouri.

Horatia micra Pilsbry and Ferriss

Horatia micra Pilsbry and Ferriss, 1906. Proc. Acad. Nat. Sci. Phila., 58:112.

Type locality.—Drift on Guadalupe River, 4 miles above New Braunfels, Comal Co., Texas.

Range.—Southern Texas.

Carychiidae

Carychium stygium Call

Carychium stygium Call, 1897. Am. Nat., 31:387.

Type locality.—Mammoth Cave, Edmonson Co., Kentucky

Range.—Type locality, Buzzard's Cave and White's Cave, Edmonson Co., Kentucky.

CHORDATA

osteichthyes

teleostei

Amblyopsidae

Amblyopsis rosae (Eigenmann)

Typhlichthys rosae Eigenmann, 1898. Proc. Indiana Acad. Sci., 1897:231.

Amblyopsis rosae (Eigenmann) Woods and Inger, 1957. Am. Midl. Nat., 53:245.

Type locality.—Sarcoxie, Jasper Co., Missouri.

Range.—Southwestern corner of Missouri.

Amblyopsis spelea Dekay

Amblyopsis spelea Dekay, 1842. Zoology of New York or the New York Fauna, Part IV, Fishes, p. 187.

Type locality.—Mammoth Cave, Edmonson, Kentucky.

Range.—Limestone region of Indiana from Bedford south to Corydon and Edmonson Co., Kentucky.

Chologaster agassizi Putnam

Chologaster agassizi Putnam, 1872. Am. Nat., 6:22.

Type locality.—Lebanon, Wilson Co., Tennessee.

Range.—Caves and springs of the limestone region from southern Illinois to central Kentucky and north central Tennessee.

Typhlichthys subterraneus Girard

Typhlichthys subterraneus Girard, 1859. Proc. Acad. Nat. Sci. Phila., 1859:63.

Type locality.—Bowling Green, Warren Co., Kentucky.

Range.—Limestone region from southern Missouri to central Kentucky and Tennessee to northern Alabama.

Ictaluridae

Satan eurystomus Hubbs and Bailey

Satan eurystomus Hubbs and Bailey, 1947. Occ. Pap. Mus. Zool., Univ. Mich., 499:4.

Type locality.—A well, near San Antonio, Bexar Co., Texas.

Range.—Known only from type locality.

Trogloglanis pattersoni Eigenmann

Trogloglanis pattersoni Eigenmann, 1919. Proc. Am. Phil. Soc., 58:397.

Type locality.—A well near San Antonio, Bexar Co., Texas.

Range.—Artesian wells of San Antonio, Bexar Co., Texas.

AMPHIBIA
URODELA

Plethodontidae

Eurycea neotenes neotenes Bishop and Wright

Eurycea neotenes Bishop and Wright, 1937. Proc. Biol. Soc. Wash., 50:142.

Eurycea neotenes neotenes Bishop and Wright, Schmidt 1953. Checklist North American Amphibians and Reptiles, p. 55.

Type locality.—Culebra Creek, 5.0 miles north of Helotes, Bexar Co., Texas.

Range.—Bexar Co., Texas.

Eurycea neotenes latitans Smith and Potter

Eurycea neotenes Smith and Potter, 1946. Herpetologica, 3:107.

Eurycea neotenes latitans Smith and Potter, Schmidt 1953. Checklist North American Amphibians and Reptiles, p. 55.

Type locality.—Cascade Caverns, 4.6 miles southeast of Boerne, Kendall Co., Texas.

Range.—Known only from type locality.

Eurycea troglodytes Baker

Eurycea troglodytes Baker, 1957. Texas J. Sci., 9:328.

Type locality.—Valdina Farms sinkhole, Medina Co., Texas.

Range.—Known only from type locality.

Gyrinophilus lutescens (Rafinesque)

Triturus lutescens Rafinesque, 1832. Atlantic J., 1:121.

Gyrinophilus lutescens (Rafinesque) Mittleman, 1942. Proc. New Eng. Zool. Club, 20:33.

Type locality.—Eastern Kentucky.

Range.—Caves of northern Kentucky.

Gyrinophilus palleucus McCrady

Gyrinophilus palleucus McCrady, 1954. Copeia, 1954:29.
Type locality.—Sinking Cove Cave, Franklin Co., Tennessee.
Range.—Caves of Franklin Co., Tennessee.

Haideotriton wallacei Carr

Haideotriton wallacei Carr, 1939. Occ. Pap. Boston Soc. Nat. Hist., 8:335.
Type locality.—A well, Albany, Dougherty Co., Georgia.
Range.—Type locality and three caves in Jackson Co., Florida.

Typhlomolge rathbuni Stejneger

Typhlomolge rathbuni Stejneger, 1896. Proc. U. S. Nat. Mus., 18:620.
Type locality.—San Marcos, Hays Co., Texas.
Range.—Hays, Kendall and Comal Cos., Texas.

Typhlotriton spelaeus Stejneger

Typhlotriton spelaeus Stejneger, 1892. Proc. U. S. Nat. Mus., 15:116.
Type locality.—Rock House Cave, Barry Co., Missouri.
Range.—Ozark Plateau in Missouri and Arkansas and adjacent Kansas
and Oklahoma.

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