

A PRELIMINARY BIBLIOGRAPHY
OF MEXICAN CAVE BIOLOGY
with a Checklist of
Published Records

by James R. Reddell

Association for Mexican Cave Studies
Bulletin 3
(PDF reprint 2005)

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INTRODUCTION TO THE REPRINT EDITION

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ASSOCIATION FOR MEXICAN CAVE STUDIES

BULLETIN 3

REPRINT 2005



A PRELIMINARY BIBLIOGRAPHY OF MEXICAN CAVE BIOLOGY

WITH A CHECKLIST OF PUBLISHED RECORDS

BY JAMES R. REDDELL



AMCS Bulletin 3 Reprint

ASSOCIATION FOR MEXICAN CAVE STUDIES

BULLETIN 3

A PRELIMINARY BIBLIOGRAPHY OF MEXICAN CAVE BIOLOGY

WITH A CHECKLIST OF PUBLISHED RECORDS

BY JAMES R. REDDELL

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INTRODUCTION

Mexico contains one of the most remarkable assemblages of cave animals of any area in the world; it also remains one of the most poorly known. The recent renewal of interest in this region, inspired largely by collections made by members of the Association for Mexican Cave Studies, has revealed the value of and need for a guide to the biospeleological literature on this region. This bibliography and checklist of published records is issued now in a preliminary form to aid the student of the fauna of the region in obtaining access to the information scattered through hundreds of publications in dozens of journals. This should also serve to aid the amateur collector in knowing where work has been done and what regions promise to possess interesting species. In addition, the index by caves is almost a checklist of the caves of Mexico. It includes a large percentage of the caves of Mexico now known, and certainly a very high percentage of the large, locally well-known caves. Many of these have not been visited by the cave explorer and have received no attention by the collector interested in invertebrates.

The first collection made in a Mexican cave was that of Dominik Bilimek in 1867 in the Grutas de Cacahuamilpa in Guerrero. The same cave was revisited in 1891 by Alphonso Herrera, one of the great figures in Mexican zoology. Despite occasional collections of bats and other vertebrates less than 50 species had been reported from the caves of Mexico prior to 1936. In that year two publishing events of great biospeleological significance occurred. One was the publication of "The Cenotes of Yucatan," edited by A.S. Pearse. This volume and a subsequent one in 1938 on "The Cave Fauna of Yucatan" included the results of expeditions by the Carnegie Institute to the Yucatan Peninsula. The two volumes contained the descriptions of many notable troglobites and records of about 400 species of animals in the caves and cenotes of Yucatan.

Also in 1936 the New York Zoological Society discovered in Cueva Chica, San Luis Potosi, the first blind characid fish in the world. Described by Carl Hubbs and William Innes as Anoptichthys jordani, this species has been the subject of as much interest and study as almost any troglobite in the world. Its discovery and subsequent study by Charles Breder and associates spurred further interest in the caves and cave fauna of Mexico. This species and other related forms is now the subject of study by Dr. Robert W. Mitchell of Texas Tech University.

Despite the value of these contributions and discoveries the real beginning of Mexican biospeleology must be considered to be the immigration to Mexico by two great European biospeleologists, Candido Bolívar y Pieltain and Federico Bonet. The vast collections which they made in all regions of Mexico laid the foundation for all future work in the caves of that country. Their discoveries have led to the publication of numerous papers by outstanding Mexican zoologists such as Enrique Rioja, Alejandro Villalobos, and Anita Hoffmann. In addition specimens sent to specialists in Europe and the United States have resulted in the description of many remarkable new genera and species. Among their more remarkable discoveries were the first blind crab in Mexico, a new blind catfish, and the first truly aquatic oniscoid isopod.

Following the initial work by Bolívar, Bonet, and their associates few collections were made in Mexican caves, with the exception of bats. An active program of study on the bat fauna of Mexico by Bernardo Villa R., Walter Dalquest, E. Raymond Hall, William Davis, Dillard Carter, and others, has resulted in records of about 65 species and subspecies of bat in Mexican caves.

In 1962 the Association for Mexican Cave Studies was organized and a vigorous program of exploration, collection, and publication initiated. This group has been largely responsible for a renewal of interest in the cave fauna of Mexico by specialists from the United States. The discovery of about 20 new blind fish caves, enormous populations of ricinuleids, the first blind scorpions in the world, and many other remarkable new troglobite species has inspired renewed interest also by European specialists and several have visited the caves of Mexico in recent years.

No attempt has ever been made to summarize our knowledge of the cave fauna of Mexico. Several reports have covered limited areas or groups of animals. Most notable of these are the two reports on Yucatan edited by A.S. Pearse. In addition, Pearse in 1945 published in the Enciclopedia Yucatanense an annotated list of the fauna of Yucatan which included all of the records reported in his two earlier publications. Federico Bonet in 1953 published a report on the caves of the Xilitla Region which included many species, but comparatively few were identified to the species level. Nicholas (1962) has published a "Checklist of the Troglobites of Middle America", which included 130 Mexican cave animals. Unfortunately only 53 of Nicholas' species were actually troglobites and the report contained many other errors. Although useless for its intended purpose it nevertheless provided an introduction to the literature on Mexican cave animals.

The following list and bibliography is as complete as time and resources have permitted. It is still lacking in many respects. Several papers included in the bibliography (marked by an asterisk) have not been examined, many citations not included in the bibliography have yet to be checked but will certainly contain references to Mexican cave animals, and many species will probably be found to belong in other genera or to be synonyms of other species. Despite these deficiencies the checklist probably contains essentially all of the species of animals reported from caves in Mexico. Many papers on bats and non-troglobites remain to be located, but there will be few species added to the list. At this time no attempt has been made to provide complete synonymies or to include comments on each species. When a more complete bibliography has been assembled and more material presently in press has been published it is hoped to reissue this list with more elaborate textual comments, complete synonymies and literature citations, and accurate locations to the caves from which species have been reported. This, however, cannot be expected for several years.

The checklist of species is arranged taxonomically and includes all species of fungi and animals reported from Mexican caves. Although some higher plants have been reported from cenotes in Yucatan and these papers included in the bibliography no attempt has been made to include these in the list of species. Immediately following the species name is a list of all species names reported in the literature which can definitely be referred to the species in question. This is followed by a list of caves from which the species is reported, and

finally by a list of numbers keyed to the references in the bibliography. Troglobites are indicated by an asterisk in front of the species name. The bibliography follows the checklist of published records and is arranged alphabetically. This is followed in turn by the cave index; this index includes every cave and cenote cited in the papers included in the bibliography. Following the cave name is the name of a nearby town. The cave index includes a set of numbers keyed to the list of references and a set of numbers keyed to the checklist of species. It will, therefore, be possible to check all species reported from a given cave and all papers which mention the cave in question. Comments are made on species only when special mention must be made respecting a cave record, a synonymy, or the species name. Special mention should be made here about the taxonomic arrangements. Rather than attempt for this preliminary report to obtain the most current classification where none is readily available I have chosen to use the most recent general account. The family and order arrangements for the snails is that used in the Traité de Zoologie, that for the millipeds is from Loomis' "Checklist of the Millipeds of Central America," and that for the nematodes, cestodes, and trematodes is from the Systema Helminthum. I have followed Villa's Los Murciélagos de México for the species of bats.

Special mention should here be made with reference to the cover illustration and the frontispiece. The cover illustration is of the first blind scorpion in the world. The species is Typhlochactas rhodesi Mitchell and was discovered in the Mine Cave at Rancho del Cielo, Tamaulipas. Only two other species of blind scorpion, both from Mexican caves, are known. The photograph used for the frontispiece is of the ricinuleid, Cryptocellus osorioi Bolívar. This order of arachnids was, prior to explorations in Mexican caves, thought to be fantastically rare. The discovery of enormous populations in the caves of the Sierra del Abra has allowed scientists to study the biology of this animal for the first time. The photograph used here is of unique interest in that it is the first illustration of a female ricinuleid carrying an egg ever to be published. Prior to the studies of Mitchell and his students essentially nothing was known of the reproductive habits of this order.

I wish here to express my special thanks to Robert W. Mitchell for the use of the photograph used for the frontispiece. I also appreciate the use of his outstanding reprint collection. Orion Knox assisted in preparation of the cover, also based on a photograph by Mitchell. Lists of species were sent to the following specialists and the appropriate sections have been much improved by their corrections and additions: G.E. Gates, oligochaetes; Horton H. Hobbs, decapods; and Theodore H. Hubbell, crickets. Nell Causey, Thomas C. Barr, Jr., Willis J. Gertsch, and Theodore H. Hubbell have also consistently assisted in all phases of my studies on the cave fauna of Mexico. Particular thanks must go to the following members of the Association for Mexican Cave Studies for assisting Terry Raines in printing and assembling this bulletin: Bill Bell, Blake Harrison, David Honea, Neal Morris, Craig Sainsott, Mike Walsh, and Roy Jameson.

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CHECKLIST OF PUBLISHED RECORDS

KINGDOM PLANTAE
DIVISION SCHIZOMYCOTA
CLASS SCHIZOMYCETES
Order Actinomycetales

Family Actinomycetaceae

1. Actinomyces griseus Waks.
Mexico records.--Yucatán: Cueva San Isidro, Cueva Xconsacab, and
Cenote Xtolok.
References.--703.

Order Eubacteriales

Family Bacillaceae

2. Bacillus mycoides Flugge
Mexico records.--Yucatán: Cueva San Isidro, Cueva Xconsacab, and
Cenote Xtolok.
References.--703.
3. Bacillus subtilis (Ehr.)
Mexico records.--Yucatán: Cueva San Isidro, Cueva Xconsacab, and
Cueva Xtolok.
References.--703.

DIVISION MYCOTA
CLASS OOMYCETES
Order Peronosporales

Family Pythiaceae

4. Pythium sp.
Mexico records.--Yucatán: Cueva del Cinco del Mayo.
References.--703.

CLASS ASCOMYCETES
Order Eurotiales

Family Eurotiaceae

5. Aspergillus clavatus Desm.
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--703.
6. Penicillium sp.
Mexico records.--Yucatán: Cueva Xconsacab and Cenote Xtolok.
References.--703.

FORM-CLASS DEUTEROMYCETES
Form-order Moniliales

Form-family Moniliaceae

7. Histoplasma capsulatum Darling

Mexico records.--Durango: Cueva del Guano and Cueva La Joya de Lerdo; Guerrero: Grutas de Cacahuamilpa, Cueva de Cajales, and Grutas de Cuetzala; Morelos: Grutas de Michapán, Cueva de la Poza de Moctezuma, and Cueva del Salitre (Tetecalita); Nuevo León: Cueva de la Boca, Cueva del Diablo, Cueva Envenenada, Cueva del Rincón de la Virgen, and Cueva de San Bartolo; Puebla: Cave (San Juan Raboso); Queretaro: Cave; San Luis Potosí: Cave (San Luis Potosí) and Cueva Chica; Tamaulipas: Cueva del Abra, Cueva del Guano de Tamaulipas, and Cueva de los Troncones; Yucatán: Cueva de Ixtacumbilxunan and Gruta de Pichjabin.

References.--6, 7, 127, 187, 223, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 303, 304, 347, 426, 450, 666.

KINGDOM ANIMALIA
PHYLUM PROTOZOA
CLASS MASTIGOPHORA
Order Protomonadina

Family Trypanosomatidae

8. Trypanosoma vespertilionis

Mexico records.--Chiapas: Cave (Tuxtla Gutierrez).

References.--437.

CLASS SARCODINA
Order Amoebida

Family Amoebidae

9. Amoeba sp.

Mexico records.--San Luis Potosí: Cueva Chica.

References.--247, 410, 485.

Order Heliozoidea

Family Actinophryidae

10. Actinophrys sp.

Mexico records.--San Luis Potosí: Cueva Chica.

References.--247, 410, 485.

Order Testacida

Family Arcellidae

11. Arcella vulgaris Ehrenberg

Mexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--247, 485.

Family Diffugiidae

12. Centropyxis aculeatus EhrenbergMexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.

References.--75, 247, 410, 485.

CLASS CILIATA

Order Gymnostomatida

Family Colepidae

13. Coleps sp., cf. hirtus (Mueller)Mexico records.--San Luis Potosí: Cueva Chica.

References.--247, 410, 485.

Order Peritrichida

Family Vorticellidae

14. Vorticella sp., cf. microstoma EhrenbergMexico records.--San Luis Potosí: Cueva Chica.

References.--247, 410, 485.

PHYLUM PORIFERA

CLASS DEMOSPONGIAE

Order Haplosclerina

Family Spongillidae

15. Spongilla cenota Penney and RacekMexico records.--Yucatán: Cenote Grande de Xanabá and Cenote Xtolok.

References.--481, 500, 507, 569.

PHYLUM CNIDARIA

CLASS HYDROZOA

Order Hydroidea

Family Hydridae

16. Hydra sp.Mexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--485.

PHYLUM PLATYHELMINTHES

CLASS TURBELLARIA

Order Tricladida

Family Geoplanidae

17. Geoplanea multipunctata FuhrmannMexico records.--Yucatán: Cueva de Loltún.

References.--344, 500.

Family Rhynchodemidae

18. Diporodemus yucatan HymanMexico records.--Yucatán: Cueva de Sabacá.

References.--344, 500.

CLASS TREMATODA
Order Digenea

Family Acanthostomidae

19. Acanthostomum minimum Stunkard

Mexico records.--Yucatan: Cueva de Kaua and Cueva de San Isidro.
References.--500, 620, 643.

Family Allocreadidae

20. Crassicutis cichlasomae Manter

Mexico records.--Yucatan: Cenote Xtolok.
References.--414, 495, 500.

Family Anenterotrematidae

21. Anenterotrema sp.

Mexico records.--Yucatan: Caves.
References.--135.

22. Anenterotrema auritum Stunkard

Mexico records.--Yucatan: Cueva Xconsacab and Cueva de Xmahit.
References.--134, 500, 620.

23. Anenterotrema singulare Stunkard

Mexico records.--Yucatan: Cueva de Balaam Canche.
References.--134, 500, 620.

Family Clinostomidae

24. Clinostomum intermediale Lamont

Mexico records.--Yucatan: Cenote Huntun, Cenote Ixil, Cueva de Kaua,
Cenote Grande de Xanaba, and Cenote Xtolok.
References.--495, 496, 500, 620, 643.

Family Hemiuridae

25. Derogenes tropicus Manter

Mexico records.--Yucatan: Cueva de Sambulha (Motul) and Cenote Scan Yui.
References.--414, 495, 500, 643.

Family Lecithodendriidae

26. Parabascoides yucatanensis Stunkard

Mexico records.--Yucatan: Cueva de Balaam Canche.
References.--134, 500, 620.

27. Prosthodendrium (Prosthodendrium) emollidum Caballero

Mexico records.--Distrito Federal: Cueva de Xictli.
References.--133, 134.

28. Prosthodendrium (Prosthodendrium) labda (Caballero)

Ochoterenatrema labda Caballero
Mexico records.--Distrito Federal: Cueva de Xictli.
References.--133, 134.

29. Prosthodendrium (Prosthodendrium) paeminosum Caballero

Mexico records.--Puebla: Cuevas del Rio Nexapa.
References.--131, 134.

30. Prosthodendrium (Prosthodendrium) tetralobulatum Caballero
Paralecithodendrium tetralobulatum (Caballero)
 Mexico records.--Puebla: Cuevas del Río Nexapa.
 References.--131, 134.

Family Plagiorchiidae

31. Plagiorchis (Multiglandularis) muris (Tanabe)
 Mexico records.--Distrito Federal: Cueva de Xictli.
 References.--133.

Family Strigeidae

32. Tetracotyle sp.
 Mexico records.--Yucatán: Cenote Xtolok.
 References.--414, 495, 500.

Family Urotrematidae

33. Urotrema scabridum Braun
 Mexico records.--Distrito Federal: Cueva de Xictli.
 References.--130.

CLASS CESTODA
 Order Cyclophyllidea

Family Anoplocephalidae

34. Oochoristica parvula Stunkard
Oochoristica parva Stunkard
 Mexico records.--Yucatán: Góngora Cave.
 References.--500, 620.

Order Pseudophyllidea

Family Bothriocephalidae

35. Bothriocephalus sp., nr. claviceps (Goeze) and scorpii (Mueller)
 Mexico records.--Yucatán: Cueva de Sambulhá (Motul).
 References.--495, 500, 643.

PHYLUM ASCHELMINTHES
 CLASS ROTIFERA
 Order Bdelloidea

Family Philodinidae

36. Philodina roseola Ehrenberg
 Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
 References.--485.

Order Flosculariacea

Family Flosculariidae

37. Sinantherina socialis (L.)
 Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.
 References.--75, 485.

Order Ploima

Family Brachionidae

38. Lepadella patella (Mueller)
Mexico records.--San Luis Potosí: Cueva Chica.
References.--410, 485.
39. Monostyla closterocerca Schmarda
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--485.
40. Monostyla quadridentata Ehrenberg
Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.
References.--75, 485.
41. Platyias patulus (Mueller)
Mexico records.--San Luis Potosí: Cueva Chica.
References.--410, 485.

CLASS NEMATODA
Order Ascarididea

Family Ascarididae

42. Agamascaris sp.
Mexico records.--Yucatán: Cueva de Loltún.
References.--166, 500.

Family Heterocheilidae

43. Contracaecum sp.
Mexico records.--Yucatán: Cenote Xtolok.
References.--495, 500, 643.
44. Dujardinascaris cenotae (Pearse)
Dujardinia cenotae Pearse
Mexico records.--Yucatán: Cenote Ciruak and Cueva de Sambulhá (Motul).
References.--495, 496, 500, 643, 709.

Order Dorylaimida

Family Dorylaimidae

45. Dorylaimus yucatanensis Chitwood
Mexico records.--Yucatán: Cueva Luchil.
References.--166, 500.

Order Filariidea

Family Dipetalonematidae

46. Litomosoides sp.
Mexico records.--Yucatán: Cueva Ebizt.
References.--166, 500.

47. Litomosoides hamletti Sandground
Mexico records.--Yucatán: Cueva Xkyc.
References.--166, 500.

Family Filariidae

48. Icosiella sp.
Mexico records.--Yucatán: Cenote Xtolok.
References.--495, 500.

Order Oxyuridea

Family Cruziiidae

49. Neocruzia morleyi (Pearse)
Cruzia morleyi Pearse
Mexico records.--Yucatán: Cenote Xtolok.
References.--495, 500, 709.

Family Oxyuridae

50. Pharyngodon oxkutzcabiensis Chitwood
Mexico records.--Yucatán: Cueva Puz, Cueva del Camino de San Roque n. 1,
and Cueva del Camino de San Roque n.2.
References.--166, 500.
51. Pharyngodon yucatanensis Chitwood
Mexico records.--Yucatán: Cueva Góngora, Cueva Puz, and Cueva Xix.
References.--166, 500.
52. Syphacia ?obvelata (Rudolphi)
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--166, 500.

Order Spiruridea

Family Rhabdochoniidae

53. Rhabdochona kidderi Pearse
Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote Ciruak, Cenote
Hotún, Cenote Huntún, Cueva de Kaua, Cueva Luchil, Cenote Pisté,
Cueva de Sambulhá (Mérida), Cueva de Sambulhá (Motul), Cueva San
Isidro, Cenote Scan Yui, and Cenote Chica de Xanabá.
References.--166, 495, 496, 500, 643, 709.

Family Rictulariidae

54. Rictularia nana Caballero
Mexico records.--Puebla: Cuevas del Río Nexapa.
References.--132.

Family Seuratidae

55. Seuratum cancellatum Chitwood
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--166, 500.

Order Strongylidea

Family Trichostrongylidae

56. Bidigiticauda vivipara Chitwood
Mexico records.--Yucatán: Cueva Puz.
References.--166, 500.
57. Cheiropteronema globocephala Sandground
Mexico records.--Yucatán: Cueva Ebizt.
References.--166, 500.
58. Oswaldocruzia subauricularis (Rudolphi)
Mexico records.--Yucatán: Cenote Xtolok.
References.--495, 500.
59. Parallintoshius tadaridae Caballero
Mexico records.--Distrito Federal: Cueva de Xictli.
References.--129.
60. Tricholeiperia carnegiensis Chitwood
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--166, 500.
61. Tricholeiperia pearsei Chitwood
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--166, 500.

Order Trichuridea

Family Trichuridae

62. Capillaria sp.
Mexico records.--Yucatán: Cueva de Xmahit.
References.--166, 500.
63. Capillaria martinezi Caballero
Mexico records.--Distrito Federal: Cueva de Xictli.
References.--128.

PHYLUM ACANTHOCEPHALA

64. Unidentifiable material
Mexico records.--Yucatán: Cenote Xtolok.
References.--495, 500.

PHYLUM ECTOPROCTA
CLASS PHYLACTOLAEMATA

Family Plumatellidae

65. Plumatella sp.
Mexico records.--Yucatán: Cenote del Country Club and ?Cenote Xtolok.
References.--121, 500.

PHYLUM ANNELIDA
Order Branchiobdellida

Family Branchiobdellidae

66. Cambarincola macrodonta Ellis
Mexico records.--San Luis Potosí: Cueva Chica.
References.--309, 410, 485, 558, 560, 643.

Order Oligochaeta

Family indeterminable

67. Unidentified genus and species
Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
References.--516.

Family Acanthodrilidae

68. Balanteodrilus pearsei Pickford
Mexico records.--Yucatán: Cueva Góngora and Cueva San Isidro.
References.--149, 239, 241, 500, 513.

69. Eodrilus albus Gates
Mexico records.--Tamaulipas: Cueva de la Capilla.
References.--241.

70. Eodrilus mexicanus Gates
Eodrilus sp.
Mexico records.--San Luis Potosí: Sótano de Tlamaya.
References.--240, 241, 547.

71. Eodrilus oxkutzcabensis Pickford
Mexico records.--Yucatán: Cueva Puz, Cueva San Isidro, and Cueva del Camino de San Roque n. 1.
References.--149, 239, 240, 241, 500, 516.

Family Aelosomatidae

72. Aelosoma sp.
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--75, 485.

Family Lumbricidae

73. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2 and Cueva de los Cuchos.
References.--86.
Comment.--The family name is here probably used under a broad sense and this material actually belongs under one of the other families.

Family Octochaetidae

74. Dichogaster affinis (Michaelsen)
Mexico records.--Yucatán: Cueva de Balaam Canché and Cueva Muruztún.
References.--149, 239, 500, 516.

75. Dichogaster bolaui (Michaelson)Mexico records.--Yucatán: Cueva de Hochtún and Cueva de Sazich.

References.--149, 239, 500, 516.

Family Tubificidae

76. Aulophorus sp.Mexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--485.

Order Arhynchobdellae

Family Erpobdellidae

77. Erpobdella triannulata MooreMexico records.--Yucatán: Cenote Xtolok.

References.--468, 496, 500.

Order Rhynchobdellae

Family Glossiphoniidae

78. Glossiphonia magnidiscus MooreMexico records.--Yucatán: Cueva de Sambulhá (Motul).

References.--440, 469, 500.

79. Helobdella lineata (Verrill)Mexico records.--Yucatán: Cenote Grande de Xanaba.

References.--468, 496, 500.

Family Ichthyobdellidae

80. Cystobranchus sp.Mexico records.--Yucatán: Cenote Ciruak, Cenote Pisté, Cueva de Sambulhá (Motul), and Cenote Tikimul.

References.--468, 495, 496, 500.

Family Piscicolidae

81. Piscicola platense CorderoMexico records.--Yucatán: Cueva de Sambulhá (Mérida) and Cueva de Sambulhá (Motul).

References.--469, 500.

PHYLUM ARTHROPODA

CLASS CRUSTACEA

Order Arguloida

Family Argulidae

82. Argulus chromidis KroyerMexico records.--Yucatán: Cenote Chica de Xanaba.

References.--495, 500, 643, 697.

83. Argulus rhamdiae WilsonArgulus cenotae WilsonMexico records.--Yucatán: Cenote Scan Yui.

References.--495, 600, 643, 697.

Order Eucopepoda

Family Canthocamptidae

84. Canthocamptus sp.Mexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--75, 485.

85. Nitocra sp.Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.

References.--410, 485, 567.

86. Nitocra pusilla SarsMexico records.--Yucatán: Cueva de Sambulhá (Motul).

References.--500, 697.

87. Nitocra simplex SchmeilMexico records.--Yucatán: Cenote Ciruak.

References.--500, 697.

88. Nitocra spinipes BoeckMexico records.--Yucatán: Cenote Ixil.

References.--500, 697.

89. Nitocra typica BoeckMexico records.--Yucatán: Cenote Pisté.

References.--697.

90. Nitocrella subterranea (Chappuis)Nitocra subterranea ChappuisMexico records.--Yucatán: Cueva de Balaam Canché.

References.--500, 502, 567, 700.

Family Cyclopidae

91. Cyclops (Acanthocyclops) robustus SarsMexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--485, 567.

92. Eucyclops sp.Mexico records.--Yucatán: Cenote Yuncu.

References.--697.

93. Eucyclops serrulatus (Fischer)Eucyclops serrullatus (Fischer)Mexico records.--San Luis Potosí: ?Cueva Chica and ?Cueva de Los Sabinos;
Yucatán: Cueva de Hochtún, Cueva Luchil, Cueva de Sambulhá (Mérida),
Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Xconsacab, and
Cueva Yunchen.

References.--410, 485, 500, 502, 567.

94. Eucyclops (Tropocyclops) prasinus (Fischer)Eucyclops praxinus (Fischer)Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos;
Yucatán: Cenote Chotch, Cenote del Country Club, Cenote Geiser,
Cenote Huntún, Cueva Luchil, Cenote Mukuyche, Cueva San Isidro, Cueva

Santa Elena, Cenote de Thompson, Cenote Uki, Cenote Grande de Xanabá,
and Cenote Xtolok.

References.--75, 410, 485, 500, 502, 567, 697.

95. Macrocylops sp.

Mexico records.--Yucatán: Cenote Conchita.

References.--697.

96. Macrocylops albidus (Jurine)

Mesocylops albidus (Jurine)

Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos;

Yucatán: Cueva de Balaam Canché, Cenote del Country Club, Cenote Ixil,

Cueva de Sambulhá (Motul), Cenote Grande de Xanabá, and Cenote Xtolok.

References.--75, 410, 485, 500, 502, 567, 697.

97. Mesocylops sp.

Mexico records.--Yucatán: Cenote Hotún, Cenote Manzanilla, Cenote Niagra,
Cenote Pisté, and Cenote Scan Yui.

References.--697.

98. Mesocylops leuckarti (Claus)

Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote de Carlos Morales

Escuela, Cenote Ciruak, Cenote del Country Club, Cenote Geiser, Cenote

Halal, Cueva de Hochtún, Cenote Ixil, Cueva Luchil, Cueva de Sambulhá

(Mérida), Cueva de Sambulhá (Motul), Cueva San Isidro, Cenote Santa Ana,

Cenote Sisal, Cenote Uki, Cenote Chica de Xanabá, Cenote Grande de

Xanabá, Cueva Xconsacab, Cenote Xix, Cenote Xtolok, and Cueva Yunchen.

References.--496, 500, 502, 567, 697.

99. Mesocylops tenuis (Marsh)

Mexico records.--Yucatán: Cenote de Carlos Morales Escuela, Cenote Ciruak,

Cueva Luchil, Cueva San Isidro, Cenote Chica de Xanabá, Cenote Grande de

Xanabá, Cenote Xlaka, and Cenote Xtolok.

References.--500, 502, 567, 697.

100. ?Paracyclops sp.

Mexico records.--Yucatán: Cueva Luchil.

References.--697.

101. Paracyclops fimbriatus (Fischer)

Mexico records.--San Luis Potosí: ?Cueva Chica and Cueva de Los Sabinos;

Yucatán: Cenote Ciruak and Cenote Geiser.

References.--410, 485, 596, 500, 567, 697.

102. Thermocylops inversus Kiefer

Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.

References.--75, 410, 485, 567.

Family Diaptomidae

103. Attheyella sp. cf. pilosa Chappuis

Attheyella pilosa Chappuis

Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos;

Yucatán: Cueva Luchil.

References.--97, 410, 475, 485, 496, 500, 567, 697.

104. Diaptomus albuquerqueensis Herrick
Mexico records.--Yucatán: Cenote Ciruak.
References.--500, 697.
105. Diaptomus novamexicanus Herrick
Mexico records.--Yucatán: Cenote Chotch, Cenote Ciruak, Cenote Huntún,
Cenote Ixil, Cenote Santa Ana, Cenote Scan Yui, Cenote Sisal, Cenote
Chica de Xanabá, and Cenote Grande de Xanabá.
References.--496, 500, 697.
- 106.*Diaptomus (Microdiaptomus) cokeri Osorio Tafall
Diaptomus sp.
Microdiaptomus sp.
Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.
References.--2, 54, 75, 410, 475, 484, 485, 486, 567, 643, 699.
107. Moraria cristata Chappuis
Mexico records.--Yucatán: Unnamed cave at cienga (Progreso).
References.--475.
Comment.--This species is erroneously listed as from a cave; it is
an epigeal collection.

Order Podocopa

Family Cypridae

108. Candona sp.
Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.
References.--75, 410, 485.
109. Cypridopsis inaudita Furtos
Mexico records.--Yucatán: Cueva Santa Elena.
References.--235, 475, 500.
110. Cypridopsis mexicana Furtos
Mexico records.--Yucatán: Cueva Santa Elena.
References.--236, 475, 500, 567, 640.
111. Cypridopsis niagranensis Furtos
Mexico records.--Yucatán: Cenote Niagra.
References.--235, 475, 500.
112. Cypridopsis viduella Sars
Mexico records.--Yucatán: Cenote Uki.
References.--235, 500.
113. Cypridopsis yucatanensis Furtos
Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote Huntún,
Cenote Ixil, Cenote Xix, and Cenote Yuncu.
References.--235, 236, 475, 496, 500, 640.
114. Cypris sp.
Cypria sp.
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--485, 567.

115. Eucypris serrato-marginata Furtos
Mexico records.--Yucatán: Cenote Xix.
References.--235, 475, 500.
116. Metacypris americana Furtos
Mexico records.--Yucatán: Cenote Xlaka.
References.--235, 475, 500.
117. Physocypris xanabanica Furtos
Mexico records.--Yucatán: Cenote Grande de Xanabá.
References.--235, 475, 500, 640.
118. Stenocypris malcolmsoni (Brady)
Mexico records.--Yucatán: Cenote Conchita.
References.--235, 500.
119. Strandesia intrepida Furtos
Mexico records.--Yucatán: Aguada Halal.
References.--235, 475, 500.
Comment.--This species, which is not known from a cave or cenote, is included because it is listed by Nicholas as a troglobite.

Family Darwinulidae

120. Darwinula stvensoni (Brady and Robertson)
Mexico records.--Yucatán: Cenote Xlaka.
References.--235 500.

Family Entocytheridae

121. Ankylocythere sinuosa (Rioja)
Entocythere cambaria Marshall
Entocythere sinuosa Rioja
Entocythere (Cytherites) heterodonta sinuosa Rioja
Entocythere (Cytherites) sinuosa Rioja
Mexico records.--San Luis Potosí: Cueva Chica.
References.--294, 309, 410, 485, 557, 558, 559, 562, 567, 640.
122. Entocythere claytonhoffi Rioja
Entocythere cambaria Marshall
Entocythere sp.
Mexico records.--San Luis Potosí: Cueva Chica.
References.--2, 54, 294, 309, 410, 485, 557, 558, 559, 562, 567, 640.
- 123.*Sphaeromicola cirolanae Rioja
Sphaeromicola sp.
Mexico records.--San Luis Potosí: Sótano del Arroyo and Cueva de Los Sabinos; Tamaulipas: Cueva del Pachón and Grutas de Quintero.
References.--294, 475, 545, 562, 567, 643.

Order Cladocera

Family Chydoridae

124. Alona sp.
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--75, 485, 567.

Family Daphnidae

125. Ceriodaphnia cornuta Sars
Mexico records.--Yucatán: Cenote Yuncu.
References.--500, 697.
126. Ceriodaphnia lacustris Birge
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--485, 567.
127. Daphnia galeata Leydig
Mexico records.--Yucatán: Cenote Grande de Xanabá.
References.--500, 697.
128. Daphnia hyalina Leydig
Mexico records.--Yucatán: Cueva Santa Elena, Cenote Grande de Xanabá,
Cenote Xix, and Cenote Xtolok.
References.--500, 697.
129. Daphnia longispina (Mueller)
Mexico records.--Yucatán: Cenote Grande de Xanabá.
References.--500, 697.
130. Daphnia pulex DeGeer
Mexico records.--Yucatán: Cenote Scan Yui.
References.--500, 697.
131. Moina affinis Birge
Mexico records.--Yucatán: Cenote Xtolok.
References.--697.
132. Simocephalus serrulatus (Koch)
Mexico records.--Yucatán: Cenote de Carlos Morales Escuela.
References.--500, 697.

Order Isopoda

Family Armadillidae

133. Cubaris mirandai Rioja
Armadillo (Cubaris) mirandai (Rioja)
Mexico records.--Veracruz: Cueva de Ojo de Agua Grande.
References.--471, 475, 571.
134. Venezillo articulatus (Mulaik)
Armadillo (Venezillo) articulatus Mulaik
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--471, 475.
135. Venezillo boneti (Mulaik)
Armadillo (Venezillo) boneti Mulaik
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--471, 475.

136. Venezillo cacahuamilpensis (Bilimek)
Armadillo cacahuamilpensis Bilimek
Armadillo (Venezillo) cacahuamilpensis Bilimek
Sphaeroniscus cacahuamilpensis (Bilimek)
Cubaris cacahuamilpensis (Bilimek)
Cubaris sp.
 Mexico records.--Guerrero: Grutas de Acuitlapán, Grutas de Cacahuamilpa, and Grutas de Juxtlahuaca; México: Grutas de la Estrella.
 References.--34, 68, 302, 348, 441, 471, 475, 487, 488, 556, 567, 571, 649, 702.
137. Venezillo chiapensis Rioja
Armadillo (Venezillo) chiapensis (Rioja)
 Mexico records.--Chiapas: Grutas de Zapaluta.
 References.--471, 475, 572.
138. Venezillo llamasi Rioja
Armadillo (Venezillo) llamasi (Rioja)
 Mexico records.--Puebla: Cueva de Patla.
 References.--471, 475, 571.
139. Venezillo osorioi (Mulaik)
Armadillo (Venezillo) osorioi Mulaik
 Mexico records.--Guerrero: Grutas de Acuitlapán; Nuevo León: Grutas del Palmito.
 References.--471, 475.
140. Venezillo pleogoniophorus (Rioja)
Armadillo (Venezillo) pleogoniophorus (Rioja)
Cubaris pleogoniophorus Rioja
Cubaris sp.
 Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
 References.--471, 475, 564, 567, 571.
141. Venezillo tanneri (Mulaik and Mulaik)
 Mexico records.--Nuevo León: Grutas del Palmito.
 References.--534, 595.

Family Asellidae

- 142.*Asellus sp.
Caecidotea sp.
 Mexico records.--Yucatán: Cueva de Balaam Canché.
 References.--138, 190, 498, 500, 567.

Family Cirolanidae

- 143.*Conilera stygia Packard
 Mexico records.--Nuevo León: Well (Monterrey).
 References.--34, 75, 95, 173, 348, 475, 488, 489, 544, 556, 567, 568, 576, 643, 649.

144.*Creaseriella anops (Creaser)Cirolana anops CreaserCirolana sp.Mexico records.--Yucatán: Cueva Amil, Cueva Chac Mol, Cueva Góngora, Cueva de Kaua, Cenote del Pochote, Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Santa Elena, Cueva Spukil, and Cueva Xconsacab.

References.--5, 75, 87, 95, 138, 140, 174, 189, 190, 348, 475, 485, 496, 498, 500, 567, 568, 576, 643, 649, 674.

145.*Sphaerolana affinis Cole and MinckleyMexico records.--Coahuila: Pozo 20.3 km. S, 5.5 km. E Cuatro Ciénegas.

References.--174, 323.

146.*Sphaerolana interstitialis Cole and MinckleyMexico records.--Coahuila: Pozo 8.2 km. S, 4.7 km. W Cuatro Ciénegas.

References.--174, 323.

147. Speocirolana sp.Cirolana sp.

Mexico records.--Caves.

References.--464, 486.

148.*Speocirolana bolivari (Rioja)Cirolana (Speocirolana) bolivari RiojaCirolana (Speocirolana) n.sp.Mexico records.--Tamaulipas: Grutas de Quintero.

References.--95, 173, 447, 475, 532, 545, 562, 567, 568, 570, 576, 643, 674.

149.*Speocirolana pelaezi (Bolivar)Cirolana (Speocirolana) pelaezi BolívarCirolana sp.Mexico records.--San Luis Potosi: Sótano del Arroyo, Cueva Chica, Sótano de Ferrocarril, Cueva de la Lagunita, Sótano de Pichijumo, Cueva de los Sabinos, and Sótano de la Tinaja; Tamaulipas: Cueva del Pachón and Grutas de Quintero.

References.--54, 75, 87, 95, 173, 294, 447, 475, 484, 485, 532, 536, 545, 562, 567, 568, 570, 576, 595, 643, 674.

150.*Speocirolana thermydronis Cole and MinckleyMexico records.--Coahuila: Pozo 12 km. SW Cuatro Ciénegas, West Laguna of Mojarral, and Pozos de la Becerra.

References.--173, 174, 323, 447.

Family Oniscidae

151. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2, Cueva del Aire, Cueva del Jobo, and Cueva de la Laja.

References.--86.

Comment.--The use of the family name Oniscidae for this unidentified specimens is almost certainly used in the broad sense and includes the entire Oniscoidea.

152. Hoctunus vespertilio MulaikMexico records.--Yucatán: Cueva de Hoctún.

References.--471, 475.

Family Porcellionidae

153. Porcellio gertschi Van NameMexico records.--Coahuila: Cueva de los Lagos.

References.--595.

154. Porcellio laevis LatreillePorcellio mexicanus SaussureMexico records.--Guerrero: Grutas de Cacahuamilpa; Yucatán: Cenote Ixil.

References.--302, 471, 500.

155. Porcellionides sp.Mexico records.--Yucatán: Cueva Chac Mol, Cueva de Hochtún, Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Spukil, and Cueva Ziz.

References.--190, 500, 567.

Family Sphaeroniscidae

156.*Spherarmadillo cavernicola MulaikMexico records.--San Luis Potosí: Cueva de Los Sabinos; Tamaulipas: Cave (Rancho del Cielo).

References.--471, 475, 598.

Family Squamiferidae

157.*Trichorhina atoyacensis MulaikMexico records.--Veracruz: Grutas de Atoyac.

References.--142, 471, 475.

158.*Trichorhina boneti RiojaMexico records.--San Luis Potosí: Cueva del Ahuate n. 2.

References.--142, 471, 475, 547, 573.

159.*Trichorhina pearsei (Creaser)Trichorhina yucatanensis MulaikPorcellio pearsei CreaserPorcellio sp.Mexico records.--Yucatán: Cueva de Balaam Canché, Cueva de Gorgosa, Cueva Puz, Cueva de Sambulhá (Motul), Cueva del Camino de San Roque n. 1, Cueva Sazich, and Cueva Spukil.

References.--142, 190, 471, 475, 498, 500, 567.

160. Trichorhina vandeli RiojaMexico records.--Chiapas: Cueva Cerro Hueco.

References.--142, 471, 475, 572.

Family Trichoniscidae

161. Brackenridgia sp.Protrichoniscus sp.

References.--551, 570.

Comment.--The genus Protrichoniscus is a synonym of Brackenridgia; therefore the following species of Protrichoniscus are herein removed to that genus.

- 162.*Brackenridgia acostai (Rioja) NEW COMBINATION
Protrichoniscus acostai Rioja
 Mexico records.--Chiapas: Cueva del Tio Ticho and Grutas de Zapaluta.
 References.--471, 475, 563, 565, 567, 572, 574.
- 163.*Brackenridgia bridgesi (Van Name) NEW COMBINATION
Protrichoniscus bridgesi Van Name
Protrichoniscus potosinus Mulaik
 Mexico records.--San Luis Potosí: Boca del Abra, Sótano del Arroyo, Cueva Chica, Ventana Jabalí, Cueva de Los Sabinos, Sótano del Tigre, and Sótano de la Tinaja; Tamaulipas: Cueva del Pachón and Grutas de Quintero.
 References.--75, 86, 96, 410, 471, 475, 532, 545, 561, 563, 567, 574, 597, 642, 650, 674.
 Comment.--A record of this species for Grutas de Atoyac, Veracruz, is certainly in error.
- 164.*Brackenridgia palmitensis (Mulaik) NEW COMBINATION
Protrichoniscus palmitensis Mulaik
 Mexico records.--Nuevo León: Grutas del Palmito.
 References.--96, 471, 475, 544, 645.
- 165.*Brackenridgia villalobosi (Rioja) NEW COMBINATION
Protrichoniscus villalobosi Rioja
 Mexico records.--Veracruz: Cueva del Carbón and Cueva de Ojo de Agua Grande.
 References.--471, 475, 561, 563, 566, 567, 574, 644, 645.
- 166.*Cylindroniscus cavicolus (Mulaik)
Antroniscus cavicola Mulaik
 Mexico records.--Nuevo León: Grutas del Palmito.
 References.--471, 475, 597.
- 167.*Cylindroniscus maya Rioja
Antroniscus balamensis Mulaik
 Mexico records.--Yucatán: Cueva de Balaam Canché and Cenote de Sambulhá' (Motul).
 References.--471, 475, 574, 575, 597.
- 168.*Cylindroniscus vallesensis Schultz
 Mexico records.--San Luis Potosí: Cueva Pinta.
 References.--597.
- 169.*Mexiconiscus laevis (Rioja)
Cordioniscus laevis Rioja
Mexiconiscus tlamayaensis Schultz
Xilitloniscus laevis (Rioja)
 ?Protrichoniscus sp.
 Mexico records.--San Luis Potosí: Cueva de la Hoya, Sótano de Huitzmolotitla, Cueva de la Luz, Sótano de la Navidad, Cueva de la Porra, Cueva de Potrerillos, and Cueva de la Selva.
 References.--86, 96, 465, 471, 475, 535, 547, 573, 594, 595, 596, 597, 646.

170. Trichoniscus hoctuni MulaikMexico records.--Yucatán: Cueva de Hochtún.

References.--471, 475.

171.*Typhlotricholigioides aquaticus RiojaMexico records.--Veracruz: Cueva de Ojo de Agua Grande.

References.--471, 475, 566, 570, 574, 644, 645.

Order Amphipoda

Family Bogidiellidae

172.*Bogidiella tabascensis VillalobosMexico records.--Tabasco: Gruta del Coconá.

References.--202, 323, 324, 475, 678.

Family Gammaridae

173.*Mexiweckelia colei Holsinger and Minckley

Mexico records.--Coahuila: Small spring 7.45 km. S, 5.42 km. W of Cuatro Ciénegas; Seep 7.45 km. S, 5.50 km. W of Cuatro Ciénegas; Small laguna 7.92 km. W, 9.42 km. S of Cuatro Ciénegas; Spring 8.15 km. S, 2.29 km. W of Cuatro Ciénegas; Spring-pool 8.84 km. S, 3.96 km. W of Cuatro Ciénegas; and Pozos Bonitos (Laguna Churince).

References.--323.

174.*Mexiweckelia particeps Holsinger

Mexico records.--Coahuila: Small spring 7.45 km. S, 5.42 km. W of Cuatro Ciénegas.

References.--323.

Family Hyallellidae

175. Hyallela azteca (Saussure)

Mexico records.--Yucatán: Cenote Ixil, Cenote Santa Ana, and Cenote Grande de Xanabá.

References.--189, 500.

Order Mysidacea

Family Lepidopsidae

176.*Speleomysis quinterensis (Villalobos)TyphlOLEPIDOMYSIS quinterensis VillalobosTyphlOLEPIDOMYSIS sp.

Mexico records.--San Luis Potosí: Sótano de la Tinaja; Tamaulipas: Grutas de Quintero.

References.--418, 475, 532, 545, 567, 570, 574, 643, 674.

Family Mysidae

177.*Antromysis cenotensis CreaserAntromYSIS sp.

Mexico records.--Yucatán: Well (Hacienda Calcehtok), Well (Iron mill at Oxkutzcab), Cueva de Balaam Canché, Cueva Chac Mol, Cueva de Hochtún, Cueva de Kaua, Cueva Luchil, Cueva Oxolodt, Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Xconsacab, and Cueva Yunchen.

References.--5, 138, 140, 189, 190, 475, 496, 498, 500, 567, 574, 643, 674.

Order Decapoda

Family Astacidae

178. Procambarus acutus cuevachicae (Hobbs)
Cambarus blandingii cuevachicae Hobbs
Cambarus sp.
 Mexico records.--San Luis Potosí: Cueva Chica.
 References.--2, 75, 98, 309, 410, 485, 557, 558, 559, 560, 567, 640, 643, 675, 677.
179. Procambarus mirandai Villalobos
Procambarus n.sp.
 Mexico records.--Chiapas: Cueva Cerro Hueco.
 References.--567, 676.
180. Procambarus pilosimanus (Ortmann)
 Mexico records.--Chiapas: Grutas de Zapaluta.
 References.--567, 675, 676.
- 181.*Procambarus rodriguezi Hobbs
 Mexico records.--Veracruz: Cueva de Ojo de Agua Grande.
 References.--310, 475, 567, 675, 676.
182. Procambarus villalobosi Hobbs
 Mexico records.--San Luis Potosí: Cueva del Agua.
 References.--311.

Family Atyidae

- 183.*Typhlatya pearsei Creaser
Typhlatya sp.
 Mexico records.--Yucatán: Cueva de Balaam Canché, Cueva de Hochtún, Cueva del Pochote, Cueva del Ponte, and Cueva Santa Elena.
 References.--138, 150, 151, 189, 190, 326, 475, 496, 498, 500, 567, 643, 674.

Family Palaemonidae

- 184.*Creaseria morleyi (Creaser)
Palaemon morleyi Creaser
Palaemon sp.
 Mexico records.--Yucatán: Cueva Amil, Cueva de Balaam Canché, Cueva Chac Mol, Cueva Gongora, Cueva de Hochtún, Cueva del Pochote, Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Spukil, ?Cueva Xconsacab, and Cueva Yunchen.
 References.--5, 138, 140, 150, 189, 190, 325, 326, 475, 496, 498, 500, 567, 574, 643, 674.
185. Macrobrachium carcinus (L.)
Macrobrachium jamaicensis (Herbst)
 Mexico records.--San Luis Potosí: Cueva Chica.
 References.--98, 485.

186.*Troglocubanus sp.

Mexico records.--San Luis Potosí: Sotano de la Tinaja.
References.--545.

Family Potamidae

187. Unidentified genus and species

Mexico records.--Tabasco: Cave (Arroyo del Solpho).
References.--273.

Family Pseudothelphusidae

188.*Potamocarcinus (Typhlopseudothelphusa) mocinoi (Rioja)

Typhlopseudothelphusa mocinoi Rioja

Typhlopseudothelphusa n.gen. et n.sp.

Mexico records.--Chiapas: Cueva del Tío Ticho.
References.--475, 565, 567, 570, 602, 643.

189. Pseudothelphusa sp.

Mexico records.--Sonora: Mina La Aduana.
References.--224.

CLASS ARACHNIDA
Order Scorpionida

Family Buthidae

190. Centrurus yucatanus Chamberlin and Ivie

Mexico records.--Yucatán: Cueva de Loltún.
References.--164, 500.

Family Chactidae

191.*Typhlochactas reddelli Mitchell

Mexico records.--Veracruz: Cueva del Ojo de Agua de Tlilapan.
References.--453.

192.*Typhlochactas rhodesi Mitchell

Mexico records.--Tamaulipas: Mine Cave.
References.--453.

Order Chelonethida

Family undetermined

193. Unidentified genus and species

Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva del Ahuate n. 2, Cueva del Aire, Cueva de los Cuchos, Cueva de la Hoya, and Cueva del Jobo.
References.--86.

Family Chernetidae

194. Lustrochernes minor Chamberlin

Mexico records.--Yucatán: Cueva Gongora and Cueva Xkyc.
References.--152, 156, 475, 500.

195. Parazaona cavicola Chamberlin

Mexico records.--Yucatán: Cueva de Kaua and Cueva de Sambulhá (Motul).
References.--152, 156, 475, 500.

Family Chthoniidae

196.*Tyrannochthonius troglobius Muchmore

Mexico records.--Tamaulipas: Mine Cave.
References.--470.

Family Hyidae

197.*Undescribed genus and species

Mexico records.--Nuevo León: Cueva del Carrizal.
References.--544.

198.*Leucohya heteropoda Chamberlin

Mexico records.--Nuevo León: Grutas del Palmito.
References.--153, 156, 470, 544.

Comment.--A record of this species from "caves" in Yucatán is unquestionably in error.

199.*Troglohya carranzai Beier

Mexico records.--Oaxaca: Cueva de Monteflor.
References.--54, 56, 156, 470.

Family Ideoroncidae

200. Albiorex bolivari Beier

Mexico records.--Guerrero: Grutas de Acuitlapán.
References.--54, 57, 470.

Family Syarinidae

201. Pachychitra maya Chamberlin

Mexico records.--Yucatán: Cueva del Camino de San Roque n. 1.
References.--152, 156, 475, 500.

Family Tridenchthoniidae

202. Tridenchthonius juxtlahuaca Chamberlin and Chamberlin

Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--155, 156.

Family Vachoniidae

203.*Paravachonium sp.

Mexico records.--Tamaulipas: Sótano de Gomez Farias.
References.--546.

204.*Paravachonium bolivari Beier

Mexico records.--Tamaulipas: Grutas de Quintero.
References.--54, 56, 156, 470, 532.

205.*Vachonium boneti Chamberlin

Mexico records.--Yucatán: Cueva de Sabacá.
References.--154, 156, 470.

Comment.--A record of this species from Grutas del Palmito, Nuevo León, is unquestionably in error.

206. *Vachonium maya ChamberlinMexico records.--Yucatán: Cueva de Balaam Canche.

References.--154, 156, 470.

Order Uropygida

Family Thelyphonidae

207. Mastigoproctus giganteus LucasMexico records.--San Luis Potosí: Cueva de la Barranca and Ventana Jabalí.

References.--86, 410.

Order Schizomida

Family Schizomidae

208. Schizomus sp.Mexico records.--Nuevo León: Grutas de San Bartolo; San Luis Potosí: Cueva Grande, Sótano de Huitzmolotitla, and Ventana Jabalí.

References.--410, 454, 459, 544, 545, 547.

209. Schizomus cavernicolens Chamberlin and IvieMexico records.--Yucatán: Cueva Chac Mol, Cueva Gongora, Cueva de Kaua, Cueva de Sabaca, Cueva de Sambulha (Mérida), Cueva San Isidro, Cueva Sazich, Cueva Xkyc, and Cenote Xtolok.

References.--138, 164, 475, 500, 643.

Order Amblypygida

Family Tarantulidae

210. Tarantula sp.Mexico records.--Nuevo León: Caves; San Luis Potosí: Cueva de Taninul n. 1; Tabasco: Cave (Arroyo del Solpho); Tamaulipas: Grutas de Quintero.

References.--273, 410, 454, 459, 532, 544.

211. Tarantula fuscimana (C.L.Koch)Hemiphrynus raptator PocockPhrynus cacahuamilpensis HerreraPhrynus mexicanus BilimekMexico records.--Guerrero: Grutas de Cacahuamilpa; Tabasco: Cueva de Teapa; Yucatan: Cueva de Balaam Canche, Cueva Chac Mol, Cueva Ebizt, Cueva Gongora, Cueva de Hochtún, Cueva de Kaua, Cueva de Loltún, Cueva Muruztún, Cueva Oxolodt, Cueva Puz, Cueva de Sabacá, Cueva de Sambulha (Mérida), Cueva de Sambulha (Motul), Cueva San Isidro, Cueva Spukil, Cueva Xconsacab, Cueva Xkyc, Cueva de Xmahit, Cenote Xtolok, and Cueva Ziz.

References.--60, 68, 138, 164, 302, 487, 488, 500, 583, 643, 702.

Order Araneae

Family undetermined

212. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva de los Cuchos, Cueva de la Hoya, Cueva del Jobo, and Cueva de Potrerillos.

References.--86.

Family Agelenidae

213. Tegenaria mexicana Roth

Mexico records.--Michoacán: Cueva de la Calera; Morelos: Shallow cave Cuernavaca.

References.--580.

214. Tegenaria mexicana gertschi Roth

Mexico records.--Coahuila: Gruta de Cuevacillas and ?Cueva de las Vigas; Nuevo León: Resumidero de Pablillo.

References.--580.

215. Tegenaria mexicana mexicana Roth

Mexico records.--Guerrero: Cave (Taxco).

References.--580.

216. Tegenaria mexicana selva Roth

Mexico records.--San Luis Potosí: Sotano (Valle de los Fantasmos) and Cueva de la Selva.

References.--580.

217. Tegenaria mexicana tlaxcala Roth

Mexico records.--Hidalgo: ?Cueva de El Ocote; Tlaxcala: Underground water conduits (Tlaxcala); Veracruz: ?Volcanic caves (Jalapa).

References.--580.

Family Argiopidae

218. Leucauge loltuna Chamberlin and Ivie

Mexico records.--Yucatan: Cueva de Loltún.

References.--165, 475, 500.

219. Micrathena sagittata (Walckenaer)

Mexico records.--Yucatán: Cueva del Camino de San Roque n. 1.

References.--165, 500.

220. Wendilgarda mexicana Keyserling

Mexico records.--San Luis Potosí: Cueva Chica; Yucatán: Cenote Xtolok.

References.--21, 410.

Family Aviculariidae

221. Aphonopelma sp.

Mexico records.--San Luis Potosí: Sótano de Manuel; Tamaulipas: Wet Cave.

References.--410, 537.

Family Barychelidae

222. Zygopelma meridana Chamberlin and Ivie

Mexico records.--Yucatan: Cueva San Isidro.

References.--165, 500.

Family Clubionidae

223. Anachemmis sp.

Mexico records.--Yucatán: Cueva de Sambulhá (Motul) and Cueva Xkyc.

References.--165, 500.

224. Strotarchus sp.Mexico records.--Tamaulipas: Cueva del Abra.

References.--532.

225. Trachelas sp.Mexico records.--Yucatán: Cueva Xkyc.

References.--165, 500.

Family Ctenidae

226. Ctenus sp.Mexico records.--Nuevo Leon: Caves; San Luis Potosí: Caves (Xilitla),
Ventana Jabalí, and Cueva de Taninul n. 1; Tamaulipas: Grutas de
Quintero and Wet Cave.

References.--410, 454, 532, 537, 544, 545, 546, 547.

Family Dictynidae

227. Titanoeca tizamina Chamberlin and IvieMexico records.--Yucatán: Cueva Muruztun.

References.--165, 475, 500.

Family Dipluridae

228. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Salitre.

References.--86.

229. Euagrus sp.Mexico records.--Yucatán: Cueva de Xmahit.

References.--165, 500.

Family Gnaphosidae

230. Drassodes pallidipalpis (Bilimek)Drassus cacahuamilpensis HerreraDrassus pallidipalpis BilimekMexico records.--Guerrero: Grutas de Cacahuamilpa.

References.--68, 302, 487, 488, 510, 702.

231. Zelotes mayanus Chamberlin and IvieMexico records.--Yucatán: Cueva de Sabaca.

References.--165, 475, 500.

Family Leptonetidae

232.*Leptoneta sp.Mexico records.--Tamaulipas: Wet Cave.

References.--537, 546.

Family Nesticidae

233. Nesticus sp.Mexico records.--Hidalgo: Cueva de El Ocote; San Luis Potosí: Ventana
Jabalí.

References.--299, 410.

234. Nesticus pallidus Emerton
 Mexico records.--Chihuahua: Cueva del Diablo; Yucatan: Cueva de Sambulhá (Merida).
 References.--165, 500, 608.
- Family Oonopidae
- 235.*Wanops coecus Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva de Balaam Canche.
 References.--165, 475, 500.
- Family Pholcidae
236. Unidentified genus and species
 Mexico records.--San Luis Potosí: Cueva de Potrerillos; Tamaulipas: Crystal Cave.
 References.--86, 537.
- 237.*Anopsicus pearsei Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva Oxolodt.
 References.--165, 475, 500.
238. Metagonia sp.
 Mexico records.--Nuevo Leon: Cueva de la Boca, Cueva del Carrizal, and Grutas de Villa de García; San Luis Potosí: Caves (Sierra del Abra) and Sótano de Tlamaya; Tamaulipas: Caves.
 References.--544, 545, 546, 547.
239. Metagonia maya Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva Chac Mol, Cueva Chakxix, Cueva Góngora, Cueva Luchil, Cueva Muruztún, and Cenote Xtolok.
 References.--165, 475, 500.
240. Metagonia viabilis Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva Puz, Cueva Xkyc, and Cueva Ziz.
 References.--165, 475, 500.
241. Metagonia yucatanana Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva de Loltún.
 References.--165, 475, 500.
242. Modisimus sp.
 Mexico records.--Nuevo Leon: Cueva de la Boca and Grutas de Villa de García; San Luis Potosí: Caves (Sierra del Abra); Tamaulipas: Caves (Sierra del Abra) and Harrison Sinkhole.
 References.--537, 544, 545, 546.
243. Modisimus inornatus Cambridge
 Mexico records.--Yucatan: Cueva de Xmahit.
 References.--165, 500.
244. Modisimus texanus Banks
 Mexico records.--San Luis Potosí: Cueva Chica.
 References.--410.

245. Pholcus cordatus Bilimek
Pholcus cacahuamilpensis Herrera
Nesticus cordatus (Bilimek)
 Mexico records.--Guerrero: Grutas de Cacahuamilpa.
 References.--34, 68, 302, 475, 487, 488, 510, 515, 702.
246. Physocyclus globosus (Taczanowski)
 Mexico records.--Yucatan: Cueva de Sambulhá (Merida).
 References.--165, 500.
247. Physocyclus hoogstraali Gertsch and Davis
 Mexico records.--Coahuila: Cave; Nuevo León: Cueva de las Animas, Cueva del Diablo, Grutas de San Bartolo, and Grutas de Villa de García.
 References.--245, 475, 544, 551, 679.
248. Psilochorus sp.
 Mexico records.--Chihuahua: Cueva del Diablo; Tamaulipas: Cueva del Nacimiento del Río Frío.
 References.--546, 608.
249. Spermophora speophila Chamberlin and Ivie
 Mexico records.--Yucatán: Cueva Chac Mol and Cueva Gongora.
 References.--165, 475, 500.
- Family Pisauridae
250. Tinus nigrinus F.
 Mexico records.--Yucatán: Cenotes.
 References.--496.
- Family Scytodidae
251. Loxosceles sp.
 Mexico records.--Tamaulipas: Cueva del Abra and Grutas de Quintero.
 References.--532.
252. Loxosceles bolivari Gertsch
 Mexico records.--Nuevo León: Grutas de Villa de García; San Luis Potosí: Cueva de Los Sabinos.
 References.--243, 679.
253. Loxosceles colima Gertsch
 Mexico records.--Colima: Cueva de la Finca.
 References.--243.
254. Loxosceles yucatanana Chamberlin and Ivie
 Mexico records.--Yucatan: Cueva del Cinco de Mayo, Cueva Ebizt, Cueva de Kaua, Cueva de Ioltun, Cueva Puz, Cueva de Sabaca, Cueva de Sambulha (Merida), Cenote Seco, Cueva Xkyc, Cenote Xtolok, and Cueva Ziz.
 References.--165, 243, 500.
255. Scytodes fusca Walckenaer
 Mexico records.--Yucatán: Cueva de Ioltun.
 References.--165, 500.

256. Scytodes itzana Chamberlin and Ivie
Mexico records.--Yucatán: Cenote Xtolok.
References.--165, 475, 500.
257. Scytodes meridana Chamberlin and Ivie
Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
References.--165, 475, 500.

Family Symphytognathidae

258. Maymena sp.
Mexico records.--San Luis Potosí: Caves (Xilitla).
References.--547.
259. Maymena chica Gertsch
Mexico records.--Nuevo León: Grutas del Palmito.
References.--244.
260. Maymena mayana (Chamberlin and Ivie)
Nesticus mayanus Chamberlin and Ivie
Mexico records.--Tabasco: Gruta de Coconá; Veracruz: Grutas de Atoyac; Yucatán: Cueva de Balaam Canché, Cueva de Hochtun, and Cueva Oxolodt.
References.--165, 244, 475, 500.
261. Maymena misteca Gertsch
Mexico records.--Guerrero: Grutas de Acuitlapán.
References.--244, 475.

Family Theraphosidae

262. Eurypelma sp.
Mexico records.--Yucatán: Cueva de Balaam Canche and Cueva Góngora.
References.--165, 500.

Family Theridiidae

263. Euryopsis spinigera O.P.-Cambridge
Mexico records.--San Luis Potosí: Cueva Chica.
References.--388, 410.
264. Stemmops sp.
Mexico records.--Tamaulipas: Crystal Cave.
References.--537.
265. Thymoites deprus (Levi)
Sphyrotinus deprus Levi
Mexico records.--San Luis Potosí: Cueva Chica.
References.--390.
266. Thymoites spukilum (Chamberlin and Ivie)
Spelobion spukilum Chamberlin and Ivie
Sphyrotinus spukilum (Chamberlin and Ivie)
?Sphyrotinus luculentus Simon
Mexico records.--Yucatán: Cueva Spukil.
References.--165, 390, 391, 475, 500.

267. Tidarren fordum (Keyserling)
Mexico records.--Yucatán: Cenote Seco.
References.--389.

Family Thomisidae

268. Xysticus robinsoni Gertsch
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--242.

Family Uloboridae

269. Uloborus signatus Cambridge
Mexico records.--Yucatán: Cueva de Loltún.
References.--165, 500.

Order Ricinuleida

Family Ricinoididae

270. Cryptocellus sp.
Mexico records.--Durango: Cueva del Guano and Cueva de los Riscos; San Luis Potosí: Cave (Sierra del Abra).
References.--455, 542.
271. Cryptocellus boneti Bolívar
Mexico records.--Guerrero: Grutas de Acuitlapán and Grutas de Cacahuamilpa.
References.--55, 71, 74, 79, 186, 226, 542, 643.
272. Cryptocellus osorioi Bolivar
Mexico records.--San Luis Potosí: Cueva de Los Sabinos, Cueva de Taninúl n. 1, and Sotano del Tigre; Tamaulipas: Cueva de la Florida and Sótano de El Venadito.
References.--2, 54, 55, 74, 76, 186, 360, 410, 455, 458, 459, 518, 532, 542, 545.
273. Cryptocellus pearsei Chamberlin and Ivie
Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva de Kaua, Cueva Oxolodt, and Cueva de Sabacá.
References.--5, 55, 71, 74, 138, 140, 164, 186, 246, 500, 542, 590, 643.
274. Cryptocellus pelaezi Coronado
Cryptocellus n.sp.
Mexico records.--San Luis Potosí: Sótano de Manuel, Cueva de Taninúl n. 1, and Sotano del Toro; Tamaulipas: Cueva de la Florida.
References.--122, 186, 221, 410, 455, 456, 457, 458, 459, 518, 542, 545, 705.

Order Opilionida

Family Cosmetidae

275. Cosmetinae gen. et sp.
Mexico records.--San Luis Potosí: Cueva de la Hoya.
References.--86.

276. Vonones compressus (Cambridge)

Tecavonones clavipes Goodnight and Goodnight
Mexico records.--Yucatán: Cueva de Sabacá.
References.--264, 268.

Family Phalangidae

277. Unidentified genus and species

Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva de Potrerillos.
References.--86.

Family Phalangodidae

278. Phalangodinae gen. et sp.

Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2 and Cueva de Potrerillos.
References.--86.

279. Cynortina minutus (Goodnight and Goodnight)

Guerrobunus minutus Goodnight and Goodnight
Mexico records.--Guerrero: El Resumidero del Río de San Jeronimo.
References.--266, 268.

280. Hoplobunus sp.

References.--262.

281.*Hoplobunus boneti (Goodnight and Goodnight)

Serrobunus boneti Goodnight and Goodnight
Mexico records.--San Luis Potosí: Cueva Pinta, Cueva de Los Sabinos, Sótano de la Tinaja, and Sótano de Yerbanís.
References.--263, 266, 268, 460.

282.*Hoplobunus osorioi (Goodnight and Goodnight)

Chinquipellobunus osorioi Goodnight and Goodnight
Mexico records.--Nuevo León: Cueva del Carrizal, Grutas del Palmito, and Grutas de Villa de García.
References.--265, 266, 268, 544.

Order Acarina

Family Acaridae

283. Rhizoglyphinae gen. et sp.

Mexico records.--San Luis Potosí: Cueva de los Cuchos, Cueva del Jobo, and Cueva del Salitre.
References.--86.

284. Acarus sp.

Mexico records.--San Luis Potosí: Cueva de la Hoya.
References.--86.

285. Caloglyphus armipes longisetosus Nesbitt

Mexico records.--Michoacán: Cueva de la Calera.
References.--474.

286. Caloglyphus longipilus Nesbitt
Mexico records.--Guerrero: Grutas de Juxtlahuaca; Nuevo León: Cueva del Carrizal.
References.--474.
287. Caloglyphus paranomalus Nesbitt
Mexico records.--Michoacán: Cueva de la Calera; Nuevo León: Cueva del Carrizal; Veracruz: Grutas de Atoyac.
References.--474.
- Family Argasidae or Ixodidae
288. Unidentified genus and species
Mexico records.--Yucatán: Cueva del Camino de San Roque n. 1 and Cenote Xtolok.
References.--688.
- Family Argasidae
289. Antricola sp.
Mexico records.--Tamaulipas: Cueva de la Florida.
References.--459.
290. Antricola coprophilus (McIntosh)
Ornithodoros coprophilus McIntosh
Mexico records.--Chiapas: Cueva de la Chepa; Jalisco: Cueva "El Chico"; Tamaulipas: Cueva de los Cuarteles; Veracruz: Cuevas de Laguna Encantada; Yucatán: Cueva de Hochtún.
References.--183, 320, 368, 436.
291. Antricola mexicanus Hoffmann
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--317, 320, 368.
292. Ornithodoros sp.
Mexico records.--Chiapas: Cueva de la Chepa; Guerrero: Grutas de Cacahuamilpa; Nuevo León: Cueva del Carrizal.
References.--3, 70, 436.
293. Ornithodoros (Alectorobius) azteci Matheson
Mexico records.--Morelos: Cueva Poza de Moctezuma.
References.--320.
294. Ornithodoros (Alectorobius) dyeri Cooley and Kohls
Mexico records.--Chiapas: Cueva de la Chepa; Colima: Cueva de la Fábrica; Nuevo León: Cueva del Diablo; San Luis Potosí: Cueva de Taninul n. 1.
References.--320, 368.
295. Ornithodoros (Alectorobius) talaje (Guérin-Méneville)
Ornithodoros sp.
Mexico records.--Guerrero: Grutas de Cacahuamilpa; Yucatán: Cueva de Balaam Canché, Cueva de Sabacá, Cenote Xtolok, and Cenote Yuncu.
References.--320, 495, 500, 688.

296. Ornithodoros (Alectorobius) yumatensis Cooley and Kohls
Mexico records.--Chiapas: Grutas de Zapaluta.
References.--368.

297. Ornithodoros (Pavlovskyella) nicollei Mooser
Mexico records.--Morelos: Cuevas de Huajintlan.
References.--320.

Family Arrenuridae

298. Arrenurus sp.
Arrhenurus sp.
Mexico records.--Yucatán: Cenote Scan Yui and Cenote Grande de Xanabá.
References.--417, 500.

Family Belbidae

299. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2, Cueva del Aire, Cueva de los Cuchos, Cueva de la Hoya, Cueva del Jobo, and Cueva del Salitre.
References.--86.

Family Carabodidae

300. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva de los Cuchos.
References.--86.

Family Cunaxidae

301. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2.
References.--86.

Family Eremaeidae

302. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2.
References.--86.

Family Ereynetidae

303. Ereynetes sabinensis Baker
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--24.

Family Erythraeidae

304. Erythraeus bisetosa Wharton
Erythradeus bisetosa Wharton
Mexico records.--Yucatán: Cueva San Isidro.
References.--475, 500, 688.

Family Galumnidae

305. Galumna sp.
Galumnidae gen. et sp.
Mexico records.--Yucatán: Cenote Manzanilla and Cenote Scan Yui.
References.--495, 500.

306. Galumna jacoti WhartonMexico records.--Yucatán: Cueva de Sambulha (Motul).

References.--500, 688.

Family Glyciphagidae

307. Unidentified genus and species

Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva del Ahuate n. 2 and Cueva de los Cuchos.

References.--86.

Family Hermannidae

308. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Salitre.

References.--86.

Family Hydrachnidae

309. Hydrachna sp.Mexico records.--Yucatán: Cenote Chotch.

References.--417, 500.

Family Hydrodromidae

310. Diplodontus despiciens (Mueller)Mexico records.--Yucatán: Cueva de Balaam Canché and Cenote Xtolok.

References.--417, 500.

Family Hypochthoniidae

311. Unidentified genus and species

Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva del Salitre.

References.--86.

Family Ixodidae

312. Amblyomma cajennense (Fabricius)Mexico records.--Yucatán: Cueva Chac Mol, Cueva de Loltún, Cueva Puz, Cueva del Camino de San Roque n. 2, and Cenote Xtolok.

References.--320, 500, 688.

313. Amblyomma dissimile (Koch)Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote Mukuyche, Cueva de Sambulha (Motul), Cueva del Camino de San Roque n. 2, and Cueva Yunchen.

References.--320, 495, 500, 688.

Family Laelaptidae

314. Laelaptinae gen. et sp.

Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2, Cueva del Aire, Cueva de los Cuchos, Cueva de la Hoya, Cueva del Jobo, and Cueva del Salitre.

References.--86.

315. Haemolaelaps glasgowi (Ewing)Atricholaelaps glasgowi EwingMexico records.--Yucatán: Cueva de Balaam Canché and Cueva Spukil.

References.--500, 688.

Family Limnesiidae

316. Limnesia paucispina WolcottLimnesia paucispina Wolcott

Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote de Carlos Morales Escuela, Cenote Geiser, Cenote Manzanilla, Cenote Niagra, Cenote Olivut, and Cueva Santa Elena.

References.--417, 496, 500.

Family Macrochelidae

317. Macrocheles sp.

Mexico records.--San Luis Potosí: Cueva del Jobo.

References.--86.

318. Macrocheles coprophila Womersley

Mexico records.--San Luis Potosí: Cueva de la Hoya.

References.--86.

Family Mideopsidae

319. Mideopsis orbicularis (Mueller)

Mexico records.--Yucatán: Cenote Pisté and Cenote Yuncu.

References.--417, 500.

Family Notaspidae

320. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Salitre.

References.--86.

Family Oribatellidae

321. Unidentified genus and species

Mexico records.--Querétaro: Cueva del Madroño; San Luis Potosí: Cueva del Ahuate n. 2, Cueva del Jobo, and Cueva del Salitre.

References.--86.

322. Oribatella monospicus Wharton

Mexico records.--Yucatán: Cueva de Sambulhá (Motul).

References.--500, 688.

Family Oribatulidae

323. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Jobo.

References.--86.

324. Scheloribates luchili Wharton

Mexico records.--Yucatán: Cueva Luchil.

References.--500, 688.

Family Paramegistidae

325. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva de los Cuchos and Cueva del Salitre.

References.--86.

Family Phthyraeidae

326. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Aire and Cueva del Salitre.
References.--86.

Family Pionidae

327. Piona pearsei Marshall

Piona sp.

Mexico records.--Yucatán: Cenote Santa Ana and Cenote Grande de Xanabá.
References.--417, 500.

Family Poecilochiridae

328. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2.
References.--86.

Family Polyaspididae

329. Dipolyaspis sp.

Mexico records.--San Luis Potosí: Cueva de la Hoya, Cueva del Jobo,
and Cueva del Salitre.
References.--86.

Family Prodynichidae

330. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Aire and Cueva de la Hoya.
References.--86.

Family Rhodacaridae

331. Unidentified genus and species

Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí:
Cueva del Jobo.
References.--86.

Family Spelaeorhynchidae

332. Spelaeorhynchus sp.

Sphaerorhynchus sp.

Mexico records.--Yucatán: Cueva de Kaua.
References.--590.

Family Spinturnicidae

333. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva de la Barranca.
References.--86.

334. Periglischrus iheringi Oudemans

Spinturnix ewingia Wharton

Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.
References.--500, 581, 688.

335. Periglischrus vargasi Hoffmann

Mexico records.--Chiapas: Cave (Teopisca); Tabasco: Cueva de Teapa.
References.--581, 583.

336. Spinturnix carloshoffmanni HoffmannMexico records.--Tamaulipas: Cueva de los Cuarteles.

References.--581.

Family Trematurellidae

337. Trematurella sp.Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva de la Hoya, Cueva del Jobo, and Cueva del Salitre.

References.--86.

Family Trombiculidae

338. Eltonella (Coecicula) boneti (Hoffmann)Trombicula (Trombicula) boneti HoffmannMexico records.--Tamaulipas: Grutas de Quintero.

References.--54, 115, 314, 652.

339. Hannemania hylae (Ewing)Mexico records.--San Luis Potosí: Cueva de Potrerillos.

References.--86, 314.

340. Myotrombicula (Perates) anophthalma (Hoffmann)Trombicula (Trombicula) anophthalma HoffmannMexico records.--México: Grutas de la Estrella.

References.--54, 318, 654.

341. Tecomatlana (Tecomatlana) sandovali HoffmannMexico records.--Puebla: Cuevas de matamoros.

References.--312, 653.

342. Trombicula sp.Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2.

References.--86.

343. Trombicula camilla WhartonMexico records.--Yucatán: Cueva de Balaam Canché, Cueva Oxolodt, Cueva San Isidro, and Cueva Xkyc.

References.--115, 475, 500, 688.

344. Trombicula myops VitzthumMexico records.--Yucatán: Cueva Chakxix.

References.--115, 500, 688.

345. Trombicula (Eutrombicula) acuitlapanensis HoffmannMexico records.--Guerrero: Grutas de Acuitlapán.

References.--54, 115, 316.

346. Whartonia guerrerensis HoffmannMexico records.--Guerrero: Grutas de Cacahuamilpa.

References.--319.

347. Whartonia nudosetosa (Wharton)Hannemania nudosetosa WhartonMexico records.--Yucatán: Cueva Chakxix and Cueva del Camino de San Roque n. 2.

References.--114, 115, 313, 475, 500, 688.

Family Trombidiidae

348. *Microtrombidiinae* gen. et sp.

Mexico records.--San Luis Potosí: Cueva del Aire, Cueva de los Cuchos,
and Cueva de la Laja.

References.--86.

349. *Monunguis streblida* Wharton

Mexico records.--Yucatán: Cueva del Cinco de Mayo.

References.--475, 643, 688.

350. *Platyseta yucatanicus* Wharton

Mexico records.--Yucatán: Cueva Sazich.

References.--475, 500, 688.

Family Unionicolidae

351. *Koenikea indistincta* Marshall

Mexico records.--Yucatán: Cenote Scan Yui.

References.--417, 500.

352. *Neumania cenotea* Marshall

Mexico records.--Yucatán: Cenote del Country Club, Cenote Santa Ana, and
Cenote Grande de Xanabá.

References.--417, 500.

Family Uropodidae

353. *Uropoda pearsei* Wharton

Mexico records.--Yucatán: Cenote de Sambulhá (Motul).

References.--475, 500, 688.

CLASS PAUROPODA

Family Pauropidae

354. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Jobo.

References.--86.

CLASS CHILOPODA

Order Lithobiomorpha

Family Lithobiidae

355. **Garcibius osorioi* Chamberlin

Mexico records.--Nuevo León: Grutas de Villa de García.

References.--159, 160, 475, 544.

356. *Nuevobius cavicolens* Chamberlin

Mexico records.--Nuevo León: Cueva de la Boca.

References.--158, 188.

Family Watobiidae

357. *Cruzobius atoyacus* Chamberlin

Mexico records.--Veracruz: Grutas de Atoyac.

References.--159, 160.

Order Scolopendromorpha

Family Scolopendridae

358. Newportia pelaezi Chamberlin
Mexico records.--Nuevo León: Grutas del Palmito.
References.--159, 160, 475.
359. Newportia sabina Chamberlin
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--159, 160, 475.
360. Scolopendra sumichrasti Saussure
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--159, 160.

Order Scutigeromorpha

Family Scutigeridae

361. Pselliodes sabinorum Chamberlin
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--159, 160, 475.
362. Scutigera cacahuamilpensis Herrera
Mexico records.--Guerrero: Grutas de Cacahuamilpa.
References.--302, 488.
363. Scutigera carrizala Chamberlin
Mexico records.--Nuevo León: Cueva del Carrizal.
References.--159, 160, 475.
364. Scutigera linnei (Wood)
Mexico records.--Guerrero: Grutas de Cacahuamilpa and Grutas de
Juxtlahuaca; Veracruz: Grutas de Atoyac.
References.--159, 160.

CLASS DIPLOPODA

Order Glomerida

Family Glomeridae

- 365.*Glomeroides caecus Causey
Mexico records.--San Luis Potosí: Sótano de Huitzmolotitla and Sótano
de Tlamaya.
References.--145, 394, 547.
- 366.*Glomeroides promiscus Causey
Mexico records.--Tamaulipas: Sótano de Gómez Farías, Cueva de Rancho
del Cielo n. 3, and Cueva de Rancho del Cielo n. 7.
References.--145, 394, 537, 546.

Order Chordeumida

Family Cleidogonidae

367. Unidentified genus and species
Mexico records.--Tamaulipas: Crystal Cave.
References.--537.

368. Cavota crucis ChamberlinMexico records.--Veracruz: Grutas de Atoyac.

References.--159, 161, 394, 475.

Family Trichopetalidae

369.*Mexiterpes sabinus CauseyMexico records.--San Luis Potosí: Sótano del Arroyo, Cueva Pinta, and Sótano de la Tinaja.

References.--143, 146, 147, 394, 535, 545.

370.*Poterpes egeo CauseyMexico records.--San Luis Potosí: ?Sótano de los Lobos and Cueva de El Puente.

References.--147.

371.*Poterpes fishi CauseyMexico records.--San Luis Potosí: Cueva de la Luz.

References.--147.

Order Polydesmida

Family Chelodesmidae

372. Chondrodesmus sabachanus ChamberlinMexico records.--Yucatán: Cueva de Sabacá.

References.--157, 163, 394, 475, 500.

Family Oniscodesmidae

373.*Bonetesmus verus ChamberlinMexico records.--Veracruz: Grutas de Atoyac.

References.--159, 161, 394, 475.

Family Paradoxosomatidae

374. Orthomorpha sp.Mexico records.--San Luis Potosí: Cueva de la Laja.

References.--86.

Family Rhachodesmidae

375. Undescribed genus and species

Mexico records.--San Luis Potosí: Sótano de Huitzmolotitla and Sótano de Tlamaya; Tamaulipas: Crystal Cave, Harrison Sinkhole, Sótano de El Molino, Cueva de Rancho del Cielo n. 3, Cueva de Rancho del Cielo n. 7, and Wet Cave.

References.--537, 546, 547.

376. Aceratophallus spp.Mexico records.--Yucatán: Cueva de Sabacá and Cueva San Isidro.

References.--157, 500.

377. Aceratophallus calcehtokanus ChamberlinMexico records.--Yucatán: Cueva Sazich, Cueva Spukil, and Cueva Xkyc.

References.--157, 394, 475, 500.

378. Aceratophallus hoctunanus Chamberlin
Mexico records.--Yucatán: Cueva de Hochtún.
References.--157, 394, 475, 500.
379. Aceratophallus oxkutzcabus Chamberlin
Mexico records.--Yucatán: Cueva Góngora, Cueva Puz, and Cueva de Xmahit.
References.--157, 394, 475, 500.
380. Pararhachistes sp.
Parachistes sp.
Mexico records.--Tamaulipas: Cueva de Rancho del Cielo n. 7.
References.--537.
- 381.*Pararhachistes amblus Chamberlin
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--159, 161, 394, 475.
382. Strongylodesmus sp.
Mexico records.--San Luis Potosí: Cueva de la Hoya and Cueva de la Laja.
References.--86.
- 383.*Strongylodesmus palmitonus (Chamberlin)
Ceuthauxus palmitonus Chamberlin
Mexico records.--Nuevo León: Grutas del Palmito.
References.--159, 161, 394, 475, 544.
- Family Sphaeriodesmidae
384. Cylionus kauanus Chamberlin
Mexico records.--Yucatán: Cueva de Kaua.
References.--157, 394, 475, 500.
- 385.*Sphaeriodesmus sp.
Mexico records.--Tamaulipas: Crystal Cave, Sótano de Gómez Farías, Cueva de Rancho del Cielo n. 3, Cueva de Rancho del Cielo n. 7, and Wet Cave.
References.--537, 546.
- Family Stylodesmidae
386. Undescribed genus and species
Mexico records.--San Luis Potosí: Caves (Sierra del Abra); Tamaulipas: Caves (Sierra del Abra), Crystal Cave, Sótano de Gómez Farías, and Cueva del Nacimiento del Río Frio.
References.--537, 545, 546.
387. Bolivaresmus sabinus Chamberlin
Mexico records.--San Luis Potosí: Cueva Chica and Cueva de Los Sabinos.
References.--159, 161, 394, 410, 475, 545.
- 388.*Ceratesmus clarus Chamberlin
Mexico records.--Veracruz: Grutas de Atoyac.
References.--159, 161, 394, 475.

- 389.*Ilyma colotlipa Chamberlin
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--159, 161, 394, 475.
390. Yucodesmus alienus Chamberlin
Mexico records.--Yucatán: Cueva de Hochtún.
References.--157, 394, 475, 500.
391. Yucodesmus isidricus Chamberlin
Mexico records.--Yucatán: Cueva San Isidro.
References.--157, 394, 475, 500.
392. Yucodesmus muruztunicus Chamberlin
Mexico records.--Yucatan: Cueva Muruztún and ?Cueva Oxolodt.
References.--157, 394, 475, 500.
393. Yucodesmus viabilis Chamberlin
Mexico records.--Yucatan: Cueva Góngora, Cueva Luchil, Cueva San Isidro,
Cueva Sazich, and Cueva Spukil.
References.--157, 394, 475, 500.

Order Polyzonida

Family Siphonophoridae

394. Siphonophora sp.
Mexico records.--Tamaulipas: Crystal Cave.
References.--537.
395. Siphonophora sabachana Chamberlin
Mexico records.--Yucatán: Cueva de Sabaca.
References.--157, 394, 475, 500.

Order Spirobolida

Family Rhinocricidae

396. Rhinocricus motulensis Chamberlin
Mexico records.--Yucatan: Cueva de Sambulhá (Motul).
References.--157, 162, 394, 475, 500.
397. Yucatobolus spukilensis Chamberlin
Mexico records.--Yucatán: Cueva Spukil.
References.--157, 394, 475, 500.

Order Spirostreptida

Family Cambalidae

- 398.*Cambala speobia subsp.
Mexico records.--Coahuila: Cueva de los Lagos.
References.--146, 394, 534.
399. Mexicambala sp.
Cambala sp.
References.--146, 465.

400. *Mexicambala russelli Causey
Cambala russelli (Causey)
 Cambalidae sp.
 Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2, ?Cueva de la Hoya, ?Cueva de la Laja, Cueva de la Porra, Cueva de Potrerillos, Cueva del Salitre, and Sótano de Tlamaya.
 References.--86, 144, 394, 547, 600.
 Comment.--Bonet reports Cambalidae sp. in Cueva de la Hoya and Cueva de la Laja; this species is the only cambalid found in the Xilitla region so this is almost certainly the species represented in these two caves.
401. *Mexicambala russelli subsp.
Cambala russelli subsp.
 Mexico records.--Tamaulipas: Crystal Cave, Sótano de Gómez Farias, Harrison Sinkhole, Sótano de la Joya de Salas, Cueva de los Leones, and Cueva del Nacimiento del Río Frio.
 References.--537, 546.
- Family Spirostreptidae
402. Orthoporus sp.
 Mexico records.--San Luis Potosí: Sótano del Tigre; Yucatán: Cueva Góngora, Cueva de Hochtún, Cueva Luchil, Cueva de Sambulhá (Mérida), Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva Spukil, and Cueva Ziz.
 References.--146, 157, 459, 500.
403. Orthoporus guerreronus (Chamberlin)
Gymnostreptus guerreronus Chamberlin
 Mexico records.--Guerrero: Grutas de Juxtlahuaca.
 References.--159, 161, 394, 475.
404. Orthoporus hoctunicolens Chamberlin
 Mexico records.--Yucatán: Cueva de Hochtún.
 References.--157, 162, 394, 500.
405. Orthoporus kiemi Loomis
 Mexico records.--Yucatán: Cave (Hacienda San Bernardo).
 References.--393, 394, 475.
406. Orthoporus lenonus Chamberlin
 Mexico records.--Tamaulipas: Cueva de la Florida.
 References.--475, 459.
407. Orthoporus luchilicolens Chamberlin
 Mexico records.--Yucatán: Cueva Luchil.
 References.--157, 394, 500.
408. Orthoporus solicolens Chamberlin
 Mexico records.--Yucatán: Cueva de Hochtún.
 References.--157, 394, 500.

409. Orthoporus tizamensis Chamberlin
 Mexico records.--Yucatan: Cueva Muruztun.
 References.--157, 394, 500.

410. Orthoporus zizicolens (Chamberlin)
Gymnostreptus zizicolens Chamberlin
 Mexico records.--Yucatan: Cueva Ziz.
 References.--157, 394, 500.

CLASS INSECTA
 Order Thysanura

Family Nicoletiidae

411. Unidentified genus and species
 Mexico records.--San Luis Potosí: Caves (Sierra del Abra); Tamaulipas:
 Grutas de Quintero.
 References.--532, 545.

- 412.*Anelpistina anophthalma (Bilimek)
Lepisma anophthalma Bilimek
Lepisma cacahuamilpensis Herrera
Nicoletia (Anelpistina) anophthalma (Bilimek)
Nicoletia sp.
 Mexico records.--Guerrero: Grutas de Cacahuamilpa.
 References.--54, 68, 70, 302, 348, 487, 488, 643, 702, 707, 708.

413. Anelpistina boneti (Wygodzinsky)
Nicoletia (Anelpistina) boneti Wygodzinsky
 Mexico records.--Guerrero: Grutas de Juxtlahuaca.
 References.--707, 708.

Order Diplura

Family Campodeidae

414. Unidentified genus and species
 Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2; Tamaulipas:
 Crystal Cave, Cueva de Rancho del Cielo n. 3, and Cueva de Rancho
 del Cielo n. 7.
 References.--86, 537.

415. Campodea (Campodea) chica Wygodzinsky
 Mexico records.--San Luis Potosí: Cueva Chica.
 References.--177, 410, 475, 490, 545, 706.

- 416.*Juxtlacampa juxtlahuacensis Wygodzinsky
 Mexico records.--Guerrero: Grutas de Juxtlahuaca.
 References.--177, 475, 490, 643, 706.

- 417.*Parallocampa (Parallocampa) cavernicola Wygodzinsky
Meiocampa (Remycampa) cavernicola (Wygodzinsky)
 Mexico records.--Nuevo León: Grutas de Villa de García.
 References.--177, 475, 490, 544, 643, 706.

- 418.*Paratachycampa boneti Wygodzinsky
Plusiocampa (Stygiocampa) boneti (Wygodzinsky)
 Mexico records.--Nuevo León: Grutas de Villa de García.
 References.--177, 475, 490, 544, 643, 706.

- 419.*Plusiocampa (Litocampa) atoyacensis Wygodzinsky
Litocampa (Cocytocampa) atoyacensis (Wygodzinsky)
 Mexico records.--Veracruz: Grutas de Atoyac.
 References.--177, 475, 490, 706.

Family Japygidae

420. Japyx sp.
 Mexico records.--Yucatán: Cueva Spukil.
 References.--491, 499, 500.
421. Parajapyx mexicanus Silvestri
 Mexico records.--Yucatán: Cueva de Carroza.
 References.--490, 601.

Order Collembola

Family Entomobryidae

- 422.*Cyphoderus innominatus Mills
 Mexico records.--Yucatán: Cueva de Góngora, Cueva Muruztún, Cueva de Sambulhá (Motul), and Cueva del Camino de San Roque n. 2.
 References.--444, 475, 500.
423. Isotomurus sp.
 Mexico records.--Yucatán: Cueva Yunchen.
 References.--444, 500.
424. Lepidocyrtus sp.
 Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva de los Cuchos, Cueva del Jobo, and Cueva del Salitre.
 References.--86.
425. Lepidocyrtus pearsei Mills
 Mexico records.--Yucatán: Cueva Góngora, Cueva Muruztún, Cueva de Sambulhá (Motul), and Cueva del Camino de San Roque n. 2.
 References.--444, 475, 500.
426. Proisotoma centralis Denis
 Mexico records.--Yucatán: Cueva Yunchen.
 References.--444, 500.
- 427.*Pseudosinella sp.
 Mexico records.--San Luis Potosí: Cueva de la Barranca, Cueva de la Hoya, Cueva del Jobo, Cueva de la Laja, and Cueva de Potrerillos.
 References.--86.
- 428.*Sulcuncus falciferus Mills
 Mexico records.--Yucatán: Cueva Sazich.
 References.--444, 475, 500.

429.*Troglopedetes maya (Mills)Trogolaphysa maya MillsMexico records.--Yucatán: Cueva de Balaam Canché and Cueva Xkyc.

References.--80, 444, 475, 500.

Family Hypogastruridae

430.*Acherontides atoyacense BonetMexico records.--Veracruz: Grutas de Atoyac.

References.--83, 475, 627.

431.*Acherontides potosinus BonetMexico records.--San Luis Potosí: Cueva del Aire, Cueva de los Cuchos, Cueva de la Hoya, Cueva del Jobo, and Cueva del Salitre.

References.--84, 86, 465, 475, 547, 627.

432. Acherontiella sabina BonetMexico records.--Nuevo León: Cueva de la Boca; San Luis Potosí: Cueva de los Sabinos; Tamaulipas: Cueva del Abra, Cueva de los Cuarteles, and Cueva de El Pachón.

References.--83, 84, 475, 545, 627.

433. Brachystomella parvula (Schaeffer)Mexico records.--San Luis Potosí: Cueva de la Hoya.

References.--86.

434. Willemia persimillis bulbosa BonetMexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--83.

Family Isotomidae

435. Folsomia sp.Mexico records.--San Luis Potosí: Cueva de la Hoya.

References.--86.

436. Folsomina onychiurina DenisMexico records.--San Luis Potosí: Cueva del Ahuate n. 2 and Cueva del Jobo.

References.--86.

Family Neelidae

437. Megalothorax minimus WillemMexico records.--Nuevo León: Grutas del Palmito; Yucatán: Cueva de Hochtún and Cueva de Santa Elena.

References.--85.

438. Neelus murinus FolsomMexico records.--San Luis Potosí: Cueva de Los Sabinos.

References.--85.

439. Neelus murinus bolivari BonetMexico records.--Yucatán: Cueva Santa Elena.

References.--85.

Family Oncopoduridae

440.*Oncopodura atoyacense BonetMexico records.--Veracruz: Grutas de Atoyac.

References.--81, 475.

441.*Oncopodura prietoi BonetOncopodura n.sp.Mexico records.--Nuevo Leon: Grutas del Palmito.

References.--3, 81, 475.

Family Onychiuridae

442. Mesaphorura foveata BonetMexico records.--San Luis Potosí: Cueva Chica.

References.--82, 410.

443. Mesaphorura krausbaueri BornerMexico records.--San Luis Potosí: Cueva del Ahuate n. 2, Cueva de los Cuchos, and Cueva del Salitre.

References.--86.

444. Onychiurus sp.Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2 and Cueva de la Hoya.

References.--86.

Family Poduridae

445.*Spelaeogastrura guerrense BonetMexico records.--Guerrero: Grutas de Cacahuamilpa.

References.--83, 475.

446. Xenylla yucatan MillsMexico records.--Yucatán: Cueva de Sambulhá (Motul).

References.--444, 475, 500.

Family Smynthuridae

447.*Pararrhopalites anops Bonet and TellezMexico records.--Nuevo Leon: Grutas del Palmito.

References.--90, 475, 544.

448.*Smynthurus n.sp.Mexico records.--San Luis Potosí: Cueva de los Cuchos, Cueva de la Hoya, and Cueva del Jobo.

References.--86.

Order Odonata

Family Agrionidae

449. Acanthagrion gracile RamburMexico records.--Yucatán: Cenote Grande de Xanabá, Cenote Xlaka, and Cenote Xtolok.

References.--500, 696.

450. Argia (Chalcargia) gaumeri (Calvert)
Mexico records.--Yucatán: Cenote Chapultepec, Cenote Chotch, Cenote Ciruak, Cenote Huntún, Cenote Ixil, Cenote Scan Yui, Cenote Xlaka, and Cenote Xtolok.
References.--496, 500, 696.
451. Argia (Chalcargia) translata (Selys)
Mexico records.--Yucatán: Cenote Xtolok.
References.--500, 696.
452. Protoneura corculum Calvert
Mexico records.--Yucatán: Cenote Xlaka.
References.--500, 696.
453. Telebasis filiola (Perty)
Mexico records.--Yucatán: Cenote Santa Ana.
References.--500, 696.
454. Telebasis salva (Hagen)
Mexico records.--Yucatán: Cenote Hotún, Cenote Xlaka, and Cenote Xtolok.
References.--496, 500, 696.
- Family Libellulidae
455. Brachymesia furcata (Hagen)
Mexico records.--Yucatán: Cenote Xtolok.
References.--500, 696.
456. Cannaphila funerea Carpenter
Mexico records.--Yucatán: Cenote Grande de Xanaba, Cenote Xlaka, and Cenote Xtolok.
References.--500, 696.
457. Dythemis sterilis Hagen
Mexico records.--Yucatán: Cenote Conchita, Cenote del Country Club, Cueva de Sambulhá (Motul), Cenote Santa Ana, Cenote Uki, Cenote Xlaka, and Cenote Xtolok.
References.--496, 499, 696.
458. Erythemis plebeja Burmeister
Mexico records.--Yucatán: Cenote Xlaka.
References.--696.
459. Erythemis simplicicollis (Say)
Mexico records.--Yucatán: Cenote Huntún and Cenote Xlaka.
References.--696.
460. Erythrodiplax connata (Burmeister)
Mexico records.--Yucatán: Cenote Xlaka.
References.--696.
461. Libellula gaigei Gloyd
Belonia croceipennis (Selys)
Mexico records.--Yucatán: Dzadz Cenote.
References.--249, 500, 696.

462. Micrathyria debilis (Hagen)
Mexico records.--Yucatán: Cenote Xlaka.
References.--500, 696.
463. Micrathyria hagenii Kirby
Mexico records.--Yucatán: Cenote Chotch.
References.--500, 696.
464. Orthemis ferruginea (Fabricius)
Mexico records.--Yucatán: Cenote Chotch, Cenote Geiser, Cenote Piste, and Cenote Uki.
References.--496, 500, 696.
465. Orthemis levis Calvert
Mexico records.--Yucatán: Cenote Xtolok.
References.--500, 696.
466. Perithemis domitia (Drury)
Perithemis dromita (Drury)
Mexico records.--Yucatán: Cenote Manzanilla, Cenote Xlaka, and Cenote Xtolok.
References.--496, 696.

Order Dermaptera

Family Labiduridae

467. Euborellia annulipes (Lucas)
Mexico records.--Guerrero: Grutas de Juxtlahuaca.
References.--552.

Order Blattodea

Family Blaberidae

468. Blaberus atropos (Stoll)
Mexico records.--Yucatán: Cueva de Xmahit.
References.--499, 500, 579.
469. Blaberus craniifer Burmeister
Mexico records.--Guerrero: Grutas de Juxtlahuaca; Yucatán: Cueva de Cinco de Mayo, Cueva de Kaua, and Cueva Puz.
References.--499, 500, 578, 579.

Family Blattidae

470. Periplaneta sp.
Mexico records.--San Luis Potosí: Cueva de Taninul n. 4.
References.--410.

Family Polyphagidae

471. Holocompsa zapoteca Saussure
Mexico records.--Yucatán: Cueva del Cinco de Mayo, ?Cueva Ebizt, Cueva Puz, ?Cueva del Camino de San Roque n. 1, ?Cueva Spukil, and ?Cenote Xtolok.
References.--499, 500, 579.

472. Homoeogamia mexicana (Burmeister)
Homalogamia mexicana (Burmeister)
Polyphaga mexicana Burmeister
Polyphaga cacahuamilpensis Herrera
 Mexico records.--Guerrero: Grutas de Cacahuamilpa.
 References.--68, 302, 487, 702.

Order Mantodea

Family Mantidae

473. Unidentified genus and species
 Mexico records.--Yucatán: Cueva de Sabaca.
 References.- 499, 500.

Order Saltatoria

Family Gryllidae

474. Phalangopsinae gen. et sp.
 Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva del Ahuate n. 2, Cueva de los Cuchos, Cueva de la Hoya, and Cueva de la Laja.
 References.--86.
475. Amphiacusta azteca Saussure
 Mexico records.--Morelos: Cave (Tepoztlán).
 References.--167, 387, 643.
476. Amphiacusta bolivari Chopard
 Mexico records.--Veracruz: Grutas de Atoyac.
 References.--54, 167, 387, 643.
477. Amphiacusta maya Hubbell
 Mexico records.--Chiapas: Cueva de Berriozabal.
 References.--167, 387.
478. Amphiacusta yucatana Hubbell
 Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva Chac Mol, Cueva Chakxix, Cueva del Cinco de Mayo, Cueva Ebizt, Cueva Góngora, Cueva de Hochtún, Cueva de Kaua, Cueva de Loltún, Cueva Muruztún, Cueva Oxolodt, Cueva Puz, Cueva de Sabaca, Cueva de Sambulhá (Motul), Cueva San Isidro, Cueva del Camino de San Roque n. 1, Cueva Sazich, Cueva Spukil, Cenote de Thompson, Cueva Xconsacab, Cueva Xkyc, Cueva de Xmahit, Cenote Xtolok, and Cueva Ziz.
 References.--167, 333, 387, 500.
479. Miogryllus sp.
 Mexico records.--San Luis Potosí: Cueva de Taninul n. 4.
 References.--410.

480. Paracophus sp.

Mexico records.--San Luis Potosí: Sotano del Pozo and Sotano de Tlamaya; Tamaulipas: Cueva de la Florida, Harrison Sinkhole, Sotano de la Joya de Salas, Sotano de El Molino, Cueva del Nacimiento del Río Frio, and Sotano de las Pinas.

References.--459, 537, 546, 547.

481. Paracophus apterus Chopard

Mexico records.--San Luis Potosí: Caves (Xilitla), Cueva Chica, and Cueva de Los Sabinos; Tamaulipas: Caves (Sierra del Abra) and Cueva de Rancho del Cielo n. 3.

References.--54, 167, 387, 410, 537, 544, 545, 546, 547.

Comment.--A record of this species in caves in Nuevo León is in error; P. subapterus is intended.

482. Paracophus subapterus Chopard

Mexico records.--Nuevo León: Cueva del Carrizal and Grutas del Palmito.

References.--54, 167, 387, 544.

483.*Tohila atelomma Hubbell

Mexico records.--Yucatan: Cueva de Balaam Canche, Cueva Chac Mol, Cueva Luchil, Cueva Oxolodt, Cueva San Isidro, and Cenote Xtolok.

References.--167, 333, 387, 475, 500, 643.

Family Rhaphidophoridae

484. Undescribed genus and species

Mexico records.--Nuevo León: Cueva de las Fisuras and Grutas del Palmito; San Luis Potosí: Caves (Xilitla).

References.--544, 547.

485. Ceuthophilus sp.

Mexico records.--Nuevo León: Cueva del Carrizal and Grutas del Palmito.

References.--544.

486. Ceuthophilus (Ceuthophilus) variegatus Scudder

Ceuthophilus mexicanus Scudder

Mexico records.--Chihuahua: Caves; Coahuila: Cueva de Candelaria.

References.--332, 539, 599.

487. "Phalangopsis" annulata Bilimek

Arachnomimus annulata (Bilimek)

Phalangopsis cacahuamilpensis Herrera

Mexico records.--Guerrero: Grutas de Cacahuamilpa.

References.--34, 68, 302, 348, 365, 487, 488, 702.

Comment.--This species is placed in the Rhaphidophoridae at the suggestion of Theodore H. Hubbell.

Family Stenopelmatidae

488. Stenopelmatus sp.

Mexico records.--Tamaulipas: Crystal Cave.

References.--537.

Family Tettigoniidae

489. Dichopetala sp.Mexico records.--San Luis Potosí: Cueva de Taninul n. 4.

References.--410.

Order Psocoptera

Family undetermined

490. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva de los Cuchos.

References.--86.

Family Psyllipsocidae

491. Psyllipsocus yucatan GurneyPsyllipsocus sp. nr. ramburii Selys-LongchampsMexico records.--Yucatán: Cenote Xtolok.

References.--281, 499, 500.

Family Troctopsocidae

492. Protroctopsocus enigmaticus MockfordMexico records.--Nuevo León: Small caves (Cuesta de Chipinque).

References.--461.

Order Hemiptera

Family Belostomatidae

493. Unidentified genus and species

Mexico records.--Tabasco: Cave (Arroyo del Solpho).

References.--273.

494. Belostoma sp.Mexico records.--Yucatán: Cenote Uki.

References.--339.

495. Belostoma confusum LauckBelostoma minor (Palisot de Beauvois)Mexico records.--Yucatán: Cenote Xtolok.

References.--339, 385, 500.

496. Belostoma subspinosum cupreomicans (Stal)Belostoma boscii (L. and S.)Mexico records.--Yucatán: Cenote Chotch.

References.--339, 384.

497. Lethocerus delpontei De CarlosMexico records.--Yucatán: Cenote de Thompson, Cenote Grande de Xanabá,
and Cenote Xtolok.

References.--339, 500.

Family Cimicidae

498. Cimex hemipterus FabriciusMexico records.--Yucatán: Cueva de Cinco de Mayo and Cueva San Isidro.

References.--499, 500.

499. Primicimex cavernis Barber
 Mexico records.--Michoacan: Cueva de Janitzio; Yucatan: Cueva
 Valladolid.
 References.--641.

Family Cydnidae

500. Galgupha mayana McA. and M.
 Mexico records.--Yucatan: Cueva Spukil.
 References.--499, 500.
501. Pangaeus (Pangaeus) docilis (Walker)
 Mexico records.--San Luis Potosí: Ventana Jabalí.
 References.--410, 545.
502. Pangaeus (Pangaeus) piceatus Stal
 Mexico records.--Yucatán: Cueva Xkyc.
 References.--499, 500.

Family Gerridae

503. Limnogonus guerini L. and S.
 Mexico records.--Yucatán: Cenote Grande de Xanabá and Cenote Xtolok.
 References.--339, 500.
504. Rheumatobates creaseri Hungerford
 Mexico records.--Yucatan: Cenote Niagra and Cenote Xtolok.
 References.--339, 340, 500.
505. Rheumatobates minutus Hungerford
 Mexico records.--Yucatán: Cenote Niagra.
 References.--339, 500.
506. Trepobates n.sp.
 Mexico records.--Yucatan: Cenote de Escuela Carlos Morales, Cenote
 Chapultaptec, Cenote Chotch, Cenote Ciruak, Cenote Geiser, Cenote
 Huntún, Cenote Manzanilla, Cenote Scan Yui, Cenote Uki, and
 Cenote Chica de Xanabá.
 References.--339, 496, 500.

Family Hebridae

507. Unidentified genus and species
 Mexico records.--Yucatan: Cueva de Balaam Canché.
 References.--499.

Family Hydrometridae

508. Hydrometra exilis Bueno
 Mexico records.--Yucatán: Cenote Ixil and Cenote Santa Ana.
 References.--339, 500.

Family Mesoveliidae

509. Mesovelgia mulsanti B. White
 Mexico records.--Yucatan: Cenote Santa Ana.
 References.--339.

Family Naucoridae

510. Pelocoris femoratus (Palisot-Beauvois)
Mexico records.--Yucatán: Cenote Santa Ana.
References.--339, 500.

Family Nepidae

511. Ranatra annulipes Stal
Mexico records.--Yucatán: Cenote Ixil and Cenote Xtolok.
References.--339, 500.

512. Ranatra quadridentata Stal
Mexico records.--Yucatán: Cenote Xtolok.
References.--339.

Family Notonectidae

513. Buenoa pallens (Champ.)
Mexico records.--Yucatán: Cenote Ixil and Cenote de Thompson.
References.--339, 500.
514. Buenoa pallipes (Fabr.)
Mexico records.--Yucatán: Cenote Scan Yui, Cenote Uki, Cenote Grande de Xanaba, and Cenote Xtolok.
References.--339, 500.
515. Plea harnedi Drake
Mexico records.--Yucatán: Cenote Santa Ana.
References.--339, 500.

Family Ochteridae

516. Ochterus aeneifrons (Champ.)
Mexico records.--Yucatán: Cenote Grande de Xanaba.
References.--339, 500.

Family Ortheziidae

517. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2.
References.--86.

Family Reduviidae

518. Reduviinae gen. et sp.
Mexico records.--San Luis Potosí: Cueva de los Cuchos.
References.--86.
519. Stenopodinae gen. et sp.
Mexico records.--Yucatán: Cueva del Cinco de Mayo and Cueva de Kaua.
References.--499.
520. Ploiaria n.sp.
Mexico records.--Yucatán: Cueva Puz, Cueva del Camino de San Roque n. 1, and Cueva del Camino de San Roque n. 2.
References.--499, 500.

521. Triatoma sp.
Mexico records.--Yucatán: Cueva de la Carroza and Cueva de Caxcuy.
References.--138.
522. Triatoma dimidiata maculipennis (Stal)
Mexico records.--Yucatan: Cave (Ticul)
References.--251.
523. Triatoma hegneri Mazzotti
Mexico records.--Quintana Roo: Cave (Rancho Santa Rita).
References.--251.

Family Veliidae

524. Microvelia albonotata Champion
Mexico records.--Yucatan: Cenote de Thompson.
References.--339.
525. Microvelia pulchella Westw.
Mexico records.--Yucatan: Cenote Uki.
References.--339.

Order Homoptera

Family Fulgoridae

526. Aethus compactus Uhl.
Mexico records.--Yucatán: Cueva San Isidro.
References.--499, 500.
527. Cixius sp.
Mexico records.--Yucatan: Cueva Góngora.
References.--499, 500.

Order Neuroptera

Family Myrmeleontidae

528. Eremoleon longior Banks
Mexico records.--Yucatán: Cueva Chakxix, Cueva Ebizt, Cueva Puz,
Cueva de Sambulhá (Mérida), Cueva del Camino de San Roque n. 2,
and Cenote Xtolok.
References.--33, 500, 643.

Order Coleoptera

Family undetermined

529. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Jobo and Cueva del Salitre.
References.--86.

Family Alleculidae

530. Unidentified genus and species
Mexico records.--Yucatán: Cueva Góngora, Cueva de Sambulhá (Motul),
and Cueva Xkyc.
References.--499.

531. Lobopoda subcuneata Casey

Mexico records.--San Luis Potosí: Sótano del Pozo.
References.--539.

Family Carabidae

532. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Aire, Cueva de la Hoya,
Cueva del Jobo, and Cueva de la Laja.
References.--86.

533. ?Aephnidius sp.

Mexico records.--Yucatán: Cueva de Kaua and Cueva Sazich.
References.--499, 500.

534. Agonum (Platynus) umbripenne (Casey)

Agonum (Platynus) bilimeki Bolívar and Hendrichs
Mexico records.--Guerrero: Grutas de Acuitlapan, Grutas de Cacahuamilpa,
Cueva del Diablo, and Cueva Chica de la Gruta del Mogote; México:
Grutas de la Estrella.
References.--41, 49, 54, 79.

535. *Antroforceps bolivari Barr

Mexico records.--Tamaulipas: Sótano de la Joya de Salas.
References.--41, 44.

536. Ardistomis sp.

Mexico records.--San Luis Potosí: Caves (Xilitla).
References.--41, 547.

537. Clivina sp.

Mexico records.--Caves.
References.--41.

538. Colpodes sp.

Mexico records.--San Luis Potosí: Caves (Xilitla).
References.--41, 547.

539. Laemosthenes sp.

Lemostenus sp.
Mexico records.--Yucatán: Cueva de Kaua and Cueva Sazich.
References.--79, 299, 499, 500.

540. Mexaphaenops sp.

References.--43.

541. *Mexaphaenops elegans Barr

Mexaphaenops sp.
Trechini n.sp.
Mexico records.--Queretaro: Sótano de Tejamanil.
References.--41, 46, 547, 643.

- 542.*Mexaphaenops fishi Barr
 Mexaphaenops sp.
 Mexico records.--San Luis Potosí: Cave (Valle de los Fantasmos).
 References.--41, 46.
- 543.*Mexaphaenops prietoi Bolívar
 Mexicaphaenops prietoi Bolívar
 Mexico records.--Nuevo León: Grutas del Palmito.
 References.--3, 41, 44, 46, 54, 72, 73, 544.
544. Mexisphodrus spp.
 Mexico records.--Oaxaca: Sótano de San Agustín; Queretaro: Sótano de Camposantos and Cueva de las Tablas; San Luis Potosí: Cave (Valle de los Fantasmos).
 References.--41, 43.
- 545.*Mexisphodrus gertschi Hendrichs and Bolívar
 Mexico records.--Hidalgo: Cueva de El Ocote.
 References.--41, 54, 299.
- 546.*Mexisphodrus profundus Barr
 Mexisphodrus sp.
 Mexico records.--Tamaulipas: Sinkhole (Rancho del Cielo) and Sótano de la Joya de Salas.
 References.--41, 42, 44, 537, 546.
547. Mexisphodrus tlamayaensis Barr
 Mexisphodrus xilitloniscus Moller (nomen nudem)
 Mexico records.--San Luis Potosí: Sótano de Tlamaya.
 References.--41, 42, 48, 465, 547.
- 548.*Mexisphodrus veraecrucis Barr
 Mexico records.--Veracruz: Sótano del Profesor.
 References.--40, 41, 42, 44, 299.
549. Pachyteles urrutiai Bolívar
 Mexico records.--San Luis Potosí: Cueva de Los Sabinos and Sótano de la Tinaja.
 References.--41, 54, 76, 545.
- 550.*Paratrechus (Hygroduvalius) pallescens Barr
 Trechini n.sp.
 Mexico records.--Queretaro: Sótano de Tejamanil.
 References.--41, 46, 547.
551. Pterostichus (Ithytolus) sp.
 Mexico records.--San Luis Potosí: Caves (Sierra del Abra).
 References.--41.
552. Rhadine sp.
 References.--43.

553. Rhadine araizai araizai (Bolívar)
Spelaeorhadine araizai Bolívar
Comstockia n.sp.
Rhadine sp.
Mexico records.--Nuevo León: Grutas del Palmito.
References.--3, 39, 41, 54, 72, 73, 78, 475, 533, 544, 643.
554. Rhadine boneti (Bolívar and Hendrichs)
Agonum (Rhadine) boneti Bolívar and Hendrichs
Rhadine n.sp.
Mexico records.--Nuevo León: Cueva de la Boca.
References.--3, 54, 78, 284, 544.
555. Rhadine medellini (Bolívar and Hendrichs)
Agonum (Rhadine) medellini Bolívar and Hendrichs
Mexico records.--San Luis Potosí: Cueva del Carnicero.
References.--41, 54, 78.
556. Rhadine pelaezi (Bolívar and Hendrichs)
Agonum (Rhadine) pelaezi Bolívar and Hendrichs
Rhadine n.sp.
Mexico records.--Nuevo León: Grutas de Villa de García.
References.--3, 54, 78, 284, 544.
557. Rhadine rotgeri (Bolívar and Hendrichs)
Agonum (Rhadine) rotgeri Bolívar and Hendrichs
Mexico records.--Coahuila: Gruta de Cuevacillas; San Luis Potosí:
Sumidero de Matehuala.
References.--41, 54, 78.
558. Selenophorus sp.
Mexico records.--Caves.
References.--41.
559. Tachys sp.
Mexico records.--San Luis Potosí: Caves (Xilitla).
References.--41, 547.
560. Tachys (Tachys) proximus Say
Mexico records.--Coahuila: Cueva de los Lagos.
References.--50, 539.
561. Tachys (Tachyura) unistriatus (Bilimek)
Bembidium unistriatum Bilimek
Tachys cacahuamilpensis Herrera
Mexico records.--Guerrero: Grutas de Cacahuamilpa; México: Grutas de
la Estrella.
References.--41, 68, 79, 302, 488, 702.
- Family Catopidae
562. Proptomaphagus sp.
Mexico records.--San Luis Potosí: Cave.
References.--505.

563. Ptomaphagus sp.
Mexico records.--Nuevo Leon: Resumidero de Pablillo; San Luis Potosí:
Sotano de Manuel; Yucatan: Cueva de Sabaca and Cueva Spukil.
References.--410, 499, 500, 504, 545.
564. Ptomaphagus (Adelops) cavernicola Schwarz
Mexico records.--Nuevo Leon: Grutas del Palmito.
References.--503, 504, 544.
565. Ptomaphagus (Adelops) spelaeus (Bilimek)
Choleva spelaea Bilimek
Choleva cacahuamilpensis Herrera
Adelops spelaeus (Bilimek)
Mexico records.--Guerrero: Grutas de Cacahuamilpa.
References.--68, 70, 79, 302, 348, 475, 488, 504, 702.
- 566.*Ptomaphagus (Adelops) troglomexicanus Peck
Mexico records.--Tamaulipas: Cueva de la Capilla.
References.--504.
- Family Colydiidae
567. ?Nematidium sp.
Mexico records.--Yucatan: Cueva Ziz.
References.--499.
- Family Dermestidae
568. Dermestes carnivorus F.
Mexico records.--San Luis Potosí: Ventana Jabali.
References.--410.
- Family Dytiscidae
569. Cybister flavocinctus Aube
Mexico records.--Yucatan: Cenote Dzadz, Cenote Grande de Xanaba,
and Cenote Xtolok.
References.--203, 500.
570. Hydaticus rimosus Aube
Mexico records.--Yucatan: Cenote Xtolok.
References.--203, 500.
571. Megadytes gigantea Laporte
Mexico records.--Yucatan: Cenote Grande de Xanaba.
References.--203, 500.
572. Megadytes laevigata (Olivier)
Mexico records.--Yucatan: Cenote Scan Yui, Cenote Grande de Xanaba,
and Cenote Xtolok.
References.--203, 500.
573. Thermonectes sp.
Mexico records.--Yucatan: Cenote de Sambulha (Motul).
References.--499, 500.

574. Thermonectes circumscripta (Latreille)Mexico records.--Yucatán: Cenote Grande de Xanaba.

References.--203.

Family Elateridae

575. Unidentified genus and species

Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.

References.--499.

576. Orthosethus sp.Mexico records.--Yucatán: Cueva Chac Mol and Cueva de Kaua.

References.--499, 500.

Family Endomychidae

577. Rhymbus sp.Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).

References.--499, 500.

Family Gyrinidae

578. Dineutes solitarius AubéMexico records.--Yucatán: Cenote Xtolok.

References.--203, 500.

Family Histeridae

579. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva de los Cuchos.

References.--86.

580. Gnathoncus sp.Mexico records.--Yucatán: Cueva de Hochtún.

References.--499, 500.

581. Oxarthrius n.sp. nr. hematicallis SharpMexico records.--Yucatán: Cueva de Hochtún.

References.--499, 500.

582. Phelister sp.Mexico records.--Yucatán: Cueva de Hochtún.

References.--499, 500.

583. Platysoma sp.Platosoma sp.Mexico records.--Yucatán: Cueva del Cinco de Mayo.

References.--499, 500.

584. Plegaderus sp.Mexico records.--Yucatán: Cueva de Balaam Canché.

References.--499, 500.

585. Saprinus spp.Mexico records.--Yucatán: Cueva de Hochtún, Cueva de Sabacá, Cueva de Sambulhá (Motul), and Cueva Xconsacab.

References.--499, 500.

Family Hydrophilidae

586. Enochrus (Lumetus) sp. nr. aequalis Sharp
Mexico records.--Yucatán: Cenote Xlaka.
References.--203.
587. Helochares (Hydrobaticus) bipunctata Sharp
Mexico records.--Yucatán: Cenote Santa Ana.
References.--203, 500.
588. Tropisternus apicipalpis Chevrolat
Mexico records.--Yucatán: Cueva Yunchen.
References.--499.
589. Tropisternus (Cyphostethus) chalybeus Laporte
Mexico records.--Yucatán: Cenote Grande de Xanabá.
References.--203.

Family Melyridae

590. Unidentified genus and species
Mexico records.--Yucatán: Cenote Xtolok.
References.--499.

Family Platypodidae

591. Platypus rugulosus Chapuis
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--499, 500, 643.

Family Pselaphidae

592. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva del Aire.
References.--86.

Family Ptinidae

593. Niptus absconditus Spilman
Mexico records.--Hidalgo: Grutas de Xoxafi.
References.--609.

Family Scarabaeidae

594. Unidentified genus and species
Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.
References.--499.
595. Coelosis biloba L.
Mexico records.--Yucatán: Cueva Muruztún.
References.--499, 500.
596. Cotinis viridicyanea Perbosc.
Mexico records.--Yucatán: Cueva Xkyc.
References.--499, 500.
597. Onthophagus sp.
Onthophagini gen. et sp.
Mexico records.--San Luis Potosí: Cueva de los Cuchos.
References.--86, 330.

598. Onthophagus vespertilio Howden, Cartwright, and Halffter
Mexico records.--Guerrero: Grutas de Acuitlapán.
References.--330.

Family Scydmaenidae

599. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva de los Cuchos and Cueva del Jobo.
References.--86, 499, 500.

Family Silvanidae

600. Cathartus quadricollis Guer.
Mexico records.--Yucatán: Cueva Chac Mol.
References.--499, 500.

Family Staphylinidae

601. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva de la Hoya and Cueva del Jobo.
References.--86.

602. Belonuchus sp. nr. moquinus Casey
Mexico records.--Nuevo León: Grutas del Palmito; Tamaulipas: Crystal Cave; Yucatán: Cueva del Cinco de Mayo and Cueva de Sabacá.
References.--499, 500, 537, 544, 546.

603. Biocrypta magnolia Blatchley
Mexico records.--San Luis Potosí: Sótano del Arroyo.
References.--539.

604. Ischnopoda (Atheta) sp.
Atheta sp.
Mexico records.--Yucatán: Cueva del Cinco de Mayo.
References.--499, 500.

- 605.*Stenopholea reddelli Herman
Mexico records.--Tamaulipas: Mine Cave.
References.--300.

606. Stilicolina condei Jarrige
Mexico records.--Nuevo León: Cueva de la Boca; San Luis Potosí: Cave (San Francisco), Sótano del Arroyo, Cueva del Desierto, Sótano del Tigre, Sótano de la Tinaja, and Sótano de Tlamaya; Tamaulipas: Cave (Rancho del Cielo), Bee Cave, Cueva Abaja de Carreterra, and Sótano de las Piñas.
References.--50, 301, 539, 545, 547.

Family Tenebrionidae

607. Unidentified genus and species
Mexico records.--Querétaro: Cueva del Madroño.
References.--86.

608. Anaetus sp.
Mexico records.--Yucatán: Cueva Spukil.
References.--499, 500.

609. Blapstinus sp.
Mexico records.--Yucatán: Cueva de Balaam Canché.
References.--499, 500.
610. Cryptoglossa mexicana mexicana Champ.
Mexico records.--Chihuahua: Caves; Coahuila: Caves; Durango: Caves;
Nuevo León: Caves.
References.--552.
611. Eleodes hispilabris (Say)
Mexico records.--Coahuila: Cueva de los Lagos.
References.--539.
612. Liodema sp. nr. kirschi Bates
Mexico records.--San Luis Potosí: Ventana Jabalí; Tamaulipas: Cueva del Abra.
References.--410, 532.
613. Rhinandrus ?elongatus Horn
Mexico records.--Yucatán: Cueva Ebizt, Cueva de Kaua, Cueva del Camino de San Roque n. 1, Cueva del Camino de San Roque n. 2, Cueva Xkyc, and Cueva Ziz.
References.--499, 500.
614. Zophobas atratus (Fabricius)
Mexico records.--San Luis Potosí: Ventana Jabalí.
References.--410, 545.

Order Lepidoptera

Family Phalaenidae

615. Unidentified genus and species
Mexico records.--San Luis Potosí: Cueva de la Hoya; Yucatán: Cueva de Balaam Canché, Cueva Ebizt, and Cueva Oxolodt.
References.--86, 499, 500.
616. Latebraria amphipyroides Guen.
Mexico records.--San Luis Potosí: Cueva de los Cuchos, Cueva de la Laja, and Cueva de Potrerillos; Yucatán: Cueva Chakxix, Cueva del Cinco de Mayo, Cueva Góngora, Cueva Puz, Cueva Sazich, Cueva Xconsacab, and Cueva Ziz.
References.--86, 499, 500.

Family Tineidae

617. Unidentified genus and species
Mexico records.--Yucatán: Cueva de Balaam Canché, Cueva de Hochtún, Cueva Luchil, Cueva Oxolodt, and Cueva Spukil.
References.--499, 500.
618. Ornix impressipenella Bilimek
Ornix cacahuamilpensis Herrera
Mexico records.--Guerrero: Grutas de Cacahuamilpa.
References.--68, 302, 488, 702.

619. Tinea sp.Mexico records.--Yucatán: Cueva de Kaua.

References.--499, 500.

Order Diptera

Family undetermined

620. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Jobo.

References.--86.

Suborder Nematocera - Family undetermined

621. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Salitre.

References.--86.

Family Agriomyzidae

622. Unidentified genus and species

Mexico records.--Yucatán: Cueva Xkyc.

References.--499.

Family Ceratopogonidae

623. Dasyhelea sp.Mexico records.--Yucatán: Cueva Gongora.

References.--499, 500.

624. Forcipomyia sp.Mexico records.--Yucatán: Cueva Chac Mol.

References.--499, 500.

Family Chironomidae

625. Unidentified genus and species

Mexico records.--Yucatán: Cueva de Balaam Canché.

References.--499.

626. Chironomus sp.Mexico records.--Yucatán: Cueva Ziz.

References.--499.

627. Chironomus viridicollis Van der WolpMexico records.--Yucatán: Cenote Chapultapec, Cenote Niagra, and
Cenote Yuncu.

References.--494.

628. Chironomus ?viridis MacquartMexico records.--Yucatán: Cenote de Escuela Carlos Morales.

References.--494.

629. Pseudochironomus sp.Mexico records.--Yucatán: Cueva Sazich.

References.--499.

630. Tanypus sp.
Mexico records.--Yucatan: Cenote del Country Club and Cenote Mukuyche.
References.--494.

631. Tendipes fulvipilus Rempel
Mexico records.--Tabasco: Cave (Arroyo del Solpho).
References.--273.

Family Chloropidae

632. Hippelates ?pusio Lw.
Mexico records.--Yucatan: Cueva Chac Mol and Cueva Yunchen.
References.--499, 500.

633. Oscinella sp.
Mexico records.--Yucatan: Cueva Chakxix.
References.--499, 500.

Family Culicidae

634. Aedes sp.
Mexico records.--Yucatan: Cueva de Kaua, Cueva de Loltun, Cueva Sazich, Cenote Xtolok, and Cueva Yunchen.
References.--499.

635. Aedes angustivittatus D. and K.
Mexico records.--Yucatan: Cenote Chotch, Cenote Ciruak, and Cueva Sazich.
References.--499, 500.

636. Aedes euplocamus Dyar
Mexico records.--Yucatan: Cueva Sazich.
References.--499, 500.

637. Aedes taeniorhynchus (Wd.)
Mexico records.--Yucatan: Cueva de Balaam Canche, Cenote Halal, Cueva de Kaua, Cueva de Loltun, Cueva Luchil, Cueva Muruztun, Cueva Puz, Cueva de Santa Elena, Cueva Sazich, Cueva Xconsacab, Cenote Xtolok, and Cueva Yunchen.
References.--495, 496, 499, 500.

638. Culex sp.
Mexico records.--Yucatan: Cueva de Loltun.
References.--499.

639. Haemagogus sp.
Mexico records.--Yucatan: Cueva de Balaam Canche.
References.--499.

640. Isostomyia sp.
Mexico records.--Yucatan: Cenote Xtolok.
References.--499, 500.

641. Mochlonyx sp.Mexico records.--Yucatan: Cueva Santa Elena.

References.--495, 500.

642. Psorophora sp.Mexico records.--Yucatan: Cueva Chac Mol and Cenote Xtolok.

References.--499.

Family Drosophilidae

643. Drosophila sp.Mexico records.--Yucatan: Cueva de Hochtun, Cueva Luchil, Cueva Sazich,
and Cueva Xconsacab.

References.--499, 500.

644. Drosophila repleta Woll.Mexico records.--Yucatan: Cueva Xconsacab.

References.--499, 500.

Family Empididae

645. Drapetis sp.Mexico records.--Yucatan: Cueva Chac Mol.

References.--499, 500.

Family Lonchaeidae

646. Carpolonchaea pendula Bez.Mexico records.--Yucatan: Cenote Xtolok.

References.--499, 500.

Family Metopiidae

647. Unidentified genus and species

Mexico records.--Yucatan: Cueva del Cinco de Mayo, Cueva Sazich, and
Cenote Xtolok.

References.--499, 500.

648. Lucilia serricata Mg.Mexico records.--Yucatan: Cueva de Balaam Canché.

References.--499, 500.

Family Muscidae

649. Unidentified genus and species

Mexico records.--Yucatan: Cueva de Balaam Canché.

References.--499.

650. Coenosia sp.Mexico records.--Yucatan: Cueva del Camino de San Roque n. 2.

References.--499, 500.

651. Synthesiomyia nudiseta Van der WolpMexico records.--Yucatan: Cueva de Balaam Canché.

References.--499, 500.

Family Ochthiphilidae

652. Leucopsis sp. nr. simplexMexico records.--Yucatán: Cueva Ebizt and Cueva de Hochtun.

References.--499, 500.

Family Phoridae

653. Unidentified genus and species

Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva Luchil,
and Cueva Oxolodt.

References.--499, 500.

654. Megaselia sp.Mexico records.--Yucatán: Cueva Gongora, Cueva Oxolodt, Cueva de
Sabaca, and Cueva Spukil.

References.--499, 500.

655. Megaselia scalaris Lw.Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva Gongora,
Cueva Oxolodt, and Cueva del Camino de San Roque n. 2.

References.--499, 500.

Family Phyllomyzidae

656. Desmometopa sp.Mexico records.--Yucatán: Cueva de Balaam Canche and Cueva Oxolodt.

References.--499, 500.

657. Milichia sp.Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva Gongora,
Cueva de Hochtun, Cueva de Loltun, Cueva Luchil, Cueva Muruztun,
and Cueva Spukil.

References.--499, 500.

658. Pholeomyia dampfi SabroskyMexico records.--Tabasco: Cave (Teapa).

References.--584.

659. Pholeomyia indecora LoweMexico records.--San Luis Potosí: Cueva Chica.

References.--98.

660. Pholeomyia leucozona BilimekPholeomyia cacahuamilpensis HerreraMexico records.--Guerrero: Grutas de Cacahuamilpa.

References.--68, 302, 487, 488, 584, 702.

Family Psychodidae

661. Unidentified genus and species

Mexico records.--Querétaro: Cueva del Madroño.

References.--86.

662. Nemopalpus sp.Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.

References.--499, 500.

663. Psychoda sp.Mexico records.--San Luis Potosí: Cueva Chica.

References.--98.

664. Telmatoscopus albipunctatus (Will.)Mexico records.--Tabasco: Cueva de Teapa.

References.--583.

Family Sciaridae

665. Sciara sp.Mexico records.--Yucatán: Cueva de Sabaca, Cueva de Sambulhá (Motul), and Cueva Spukil.

References.--499, 500.

Family Sphaeroceridae

666. Leptocera sp.Mexico records.--Yucatan: Cueva Chac Mol.

References.--499, 500.

Family Stratiomyidae

667. Cyphomyia sp.Mexico records.--Yucatan: Cueva Góngora, Cueva Luchil, and Cueva de Sambulhá (Motul).

References.--499, 500.

668. Hermetia sp.Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.

References.--499, 500.

Family Streblidae

669. Aspidoptera clovisi Pessoa and GuimaraesMexico records.--Mexico: Grutas de la Estrella.

References.--315.

670. Euctenodes mirabilis WaterhouseMexico records.--Guerrero: Grutas de Acuitlapan; San Luis Potosí:

Cueva del Aire, Cueva de Huichihuayan, and Cueva de Potrerillos;

Yucatan: Cueva Jih, Cueva Oxolodt, Cueva Xconsacab, Cueva de

Xmahit, and Cenote Xtolok.

References.--86, 295, 315, 499, 500.

671. Euctenodes tonatiae KesselMexico records.--Yucatán: Cueva Xconsacab and Cenote Xtolok.

References.--499, 500.

672. Megistopoda araneae (Coq.)Pterellipsis araneae Coq.Mexico records.--San Luis Potosí: Cueva de Los Sabinos; Yucatán:

Cueva Chakxix, Cueva del Cinco de Mayo, Cueva Ebizt, and Cueva Puz.

References.--315, 499, 500, 688.

673. Metelasmus pseudopterus Coquillett
Mexico records.--San Luis Potosí: Cueva de Los Sabinos.
References.--315.
674. Nycterophilia coxata Ferris
Mexico records.--Baja California: Cuevas de Santiago; Chiapas: Cueva de la Chepa; Colima: Cuevas de la Finca; Guerrero: Grutas de Cacahuamilpa and Gruta de Calicanto; Tamaulipas: Cueva de los Cuarteles; Yucatan: Cueva de Balaam Canché.
References.--315, 400, 500.
675. Speiseria ambigua Kessel
Mexico records.--Tamaulipas: Cueva de los Cuarteles.
References.--315.
676. Strebla vespertilionis (Fabricius)
Mexico records.--México: Grutas de la Estrella.
References.- 315.
677. Trichobius sp. nr. dugesii Townsend
Trichobius blandus Curran
Mexico records.--San Luis Potosí: Cueva del Jobo.
References.--86, 315.
678. Trichobius adamsi Augustson
Mexico records.--Baja California: Cuevas de Santiago; Colima: Cuevas de la Finca; Guerrero: Grutas de Cacahuamilpa and Gruta de Calicanto.
References.--315.
679. Trichobius caecus Edw.
Mexico records.--Guerrero: Grutas de Cacahuamilpa; San Luis Potosí: Cueva Grande; Tamaulipas: Cueva de los Cuarteles and Cueva de El Pachón; Yucatan: Cueva de Balaam Canché and Cueva de Hochtún.
References.--315, 499, 500.
680. Trichobius dugesii Townsend
Mexico records.--San Luis Potosí: Cueva de Los Sabinos; Yucatán: Cave (Yocat), Cueva del Cinco de Mayo, Cueva Ebizt, Cueva de Hochtún, Cueva Puz, Cueva Spukil, and Cueva de Xmahit.
References.--295, 315, 499, 500, 688.
681. Trichobius hirsutulus Bequaert
Mexico records.--Yucatán: Cueva Lara.
References.--295.
682. Trichobius major Coquillett
Mexico records.--Nuevo León: Cueva del Carrizal.
References.--315.
683. Trichobius mixtus Curran
Mexico records.--San Luis Potosí: Cueva de Potrerillos.
References.--86.

684. Trichobius parasiticus Gervais

Mexico records.--Guerrero: Grutas de Acuitlapán and Cueva del Borrego;
San Luis Potosí: Cueva del Aire, Cueva de la Barranca, Cueva de
 Huichihuayan, and Cueva de Los Sabinos; Tabasco: Cueva de Teapa;
Yucatán: Cueva Jih, Cueva de Sambulhá (Motul), and Cenote Xtolok.
 References.--52, 86, 295, 315, 499, 500, 583.

685. Trichobius sphaeronotus Jobling

Mexico records.--Baja California: Cuevas de Santiago; Chiapas: Cueva
 de la Chepa; Nuevo León: Cueva de la Boca; Sonora: Cueva del Tigre.
 References.--315, 577.

Family Tabanidae

686. Tabanus haemagogus Will.

Mexico records.--Yucatán: Cueva Chac Mol.
 References.--499, 500.

Family Tachinidae

687. Archytas sp.

Mexico records.--Yucatán: Cueva del Camino de San Roque n. 2.
 References.--499.

688. Exorista sp.

Mexico records.--Yucatán: Cueva de Balaam Canche.
 References.--499.

Family Therevidae

689. Psilocephala sp.

Mexico records.--Yucatán: Cueva Chac Mol, Cueva del Cinco de Mayo,
 Cueva Góngora, Cueva de Kaua, Cueva de Loltun, Cueva Puz, Cueva de
 Sambulhá (Motul), Cueva del Camino de San Roque n. 2, Cueva Sazich,
 and Cueva Xkyc.
 References.--428, 499, 500.

Order Siphonaptera

Family Hystrichopsyllidae

690. Anomiopsyllus traubi Barrera

Mexico records.--Hidalgo: Cueva de Belen.
 References.--51.

Family Pulicidae

691. Xenopsylla cheopis (Rothschild)

Mexico records.--Yucatán: Cueva de Balaam Canché.
 References.--498, 499, 500.

Order Hymenoptera

Family Bethyridae

692. Apanesia n.sp.

Cleistepyris n.sp.
 Mexico records.--Yucatán: Cueva de Kaua.
 References.--499, 500.

Family Braconidae

693. Apanteles sp.Mexico records.--Yucatán: Cueva de Sambulha (Motul).

References.--499, 500.

Family Chalcididae

694. Brachymeria sp.Mexico records.--Yucatán: Cueva Puz.

References.--499, 500.

695. Stomatoceras n.sp.Mexico records.--Yucatán: Cueva San Isidro.

References.--499, 500.

Family Figitidae

696. Eucolia sp.Mexico records.--Yucatán: Cueva del Cinco de Mayo.

References.--499.

Family Formicidae

697. Unidentified genus and species

Mexico records.--San Luis Potosí: Cueva del Ahuate n. 2 and Cueva del Jobo.

References.--86.

698. Acromyrmex octospinosus ekchuah WheelerAcromyrmex octospinosus echinatio ForelMexico records.--Yucatán: Cueva Góngora, Cueva Luchil, Cueva Puz, Cueva de Sambulha (Mérida), Cueva Xkyc, and Cueva Ziz.

References.--500, 689, 690.

699. Atta cephalotes opaca ForelMexico records.--Yucatán: Cueva Muruztun.

References.--500, 690.

700. Brachymyrmex cavernicola WheelerMexico records.--Yucatán: Cueva de Balaam Canché.

References.--500, 690, 698.

701. Dolichoderus (Monacis) bispinosus (Olivier)Mexico records.--Yucatán: Cueva Xconsacab.

References.--500, 690.

702. Erebomyrma urichi (Wheeler)Spelaemyrmex urichi WheelerMexico records.--Yucatán: Cueva de Sambulha (Motul).

References.--500, 690.

703. Euponera sp.Mexico records.--San Luis Potosí: Ventana Jabalí.

References.--410.

704. Forelius maccooki Forel
Mexico records.--Yucatan: Cueva San Isidro.
References.--500, 690.
705. Neoponera latreillei Forel
Mexico records.--Yucatan: Cueva del Cinco de Mayo, Cueva Puz, and Cueva del Camino de San Roque n. 2.
References.--500, 690.
706. Neoponera villosa inversa F. Smith
Mexico records.--Yucatan: Cueva del Cinco de Mayo.
References.--500, 690.
707. Odontomachus haematoda (L.)
Mexico records.--Yucatan: Cueva del Camino de San Roque n. 2.
References.--690.
708. Pachycondyla harpax montezumia F. Smith
Mexico records.--San Luis Potosí: Cueva Chica; Tamaulipas: Caves;
Yucatan: Cueva Góngora.
References.--410, 500, 552, 690.
709. Paratrechina (Nylanderia) pearsei (Wheeler)
Nylanderia pearsei Wheeler
Mexico records.--Yucatan: Cueva de Balaam Canche, Cueva Chac Mol, and Cueva Muruztun.
References.--500, 690, 698.
710. Pheidole sp.
Mexico records.--San Luis Potosí: Cueva Grande.
References.--410.
711. Pheidole sp. (flavens group)
Mexico records.--Yucatan: Cueva de Sambulhá (Mérida).
References.--500, 690.
712. Pheidole punctatissima Mayr
Mexico records.--Yucatan: Cueva de Sambulhá (Motul) and Cueva Spukil.
References.--500, 690.
713. Ponera ergatandria Forel
Mexico records.--Yucatan: Cueva de Sambulhá (Motul).
References.--500, 690.
714. Ponera opaciceps Mayr
Mexico records.--Yucatan: Cueva de Sambulhá (Motul) and Cueva San Isidro.
References.--500, 690.
715. Solenopsis geminata (Fabr.)
Mexico records.--Yucatan: Cueva Góngora, Cueva Puz, and Cueva San Isidro.
References.--500, 690.

Family Halictidae

716. Pseudaugochloropsis sordiscutis (Vachal)
 Mexico records.--Yucatán: Cueva Sazich.
 References.--499, 500.

Family Pompilidae

717. Psammocharinae gen. et sp.
 Mexico records.--Yucatán: Cueva Puz.
 References.--499.

Family Sphecidae

718. Chorion (Ammobia) caliginosum (Erichson)
 Mexico records.--Yucatán: Cueva del Cinco de Mayo.
 References.--499, 500.

719. Crabro sp.
 Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
 References.--499, 500.

720. Notogonidea sp.
 Mexico records.--Yucatán: Cueva de Loltún.
 References.--499, 500.

721. Podium brevicolle Kohl
 Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
 References.--499, 500.

PHYLUM MOLLUSCA
 CLASS GASTROPODA
 Order Neritoidea

Family Helicinidae

722. Helicina (Succincta) arenicola Morelet
Oligyra (Succincta) arenicola (Morelet)
 Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote Chotch,
 Cueva Ebizt, Cueva Góngora, and Cueva Santa Elena.
 References.--62, 63.

Order Mesogastropoda

Family Ampullariidae

723. Pomacea yucatanensis (Crosse and Fischer)
Ampullaria yucatanensis Crosse and Fischer
 Mexico records.--Yucatán: Cenote de Kaua and Cenote Xtolok.
 References.--25, 61.

Family Hydrobiidae

724. *Coahuilix hubbsi Taylor
 Mexico records.--Coahuila: Pozos de la Becerra.
 References.--623.

725. Potamopyrgus coronatus (Pfeiffer)

Mexico records.--Yucatan: Cueva Gongora, Cueva Luchil, Cenote Santa Ana, and Cenote Uki.

References.--62, 63, 496.

Family Neocyclotidae

726. Dicrista liobasis Thompson

Mexico records.--Jalisco: Sink (Pihuamo).

References.--638.

727. Neocyclotus dysoni berendti (Pfeiffer)

Poteria (Neocyclotus) berendti (Pfeiffer)

Mexico records.--Yucatan: Cueva Ebizt, Cueva de Kaua, Cueva Lara, Cueva de Loltun, Cenote Scan Yui, and Cenote Xtolok.

References.--62, 63, 296, 500.

Family Pomatiasidae

728. Annularia (Choanopomops) cozumelensis (Richards)

Mexico records.--Quintana Roo: Sink (Isla de Cozumel).

References.--554.

729. Annularia (Choanopomops) gaigei (Bequaert and Clench)

Choanopoma gaigei Bequaert and Clench

Mexico records.--Yucatan: Cenote Ixil and Cenote Scan Yui.

References.--62, 500.

730. Annularia (Choanopomops) largillierti (Pfeiffer)

Choanopoma largillierti (Pfeiffer)

Chondropoma largillierti (Pfeiffer)

Mexico records.--Yucatan: Cueva de Balaam Canche, Cueva Ebizt, Cueva Gongora, Cueva Has, Cueva de Kaua, Cueva Lara, Cueva de Loltun, Cueva Puz, Cueva del Camino de San Roque n. 2, Cueva Santa Elena, Cenote Scan Yui, Cenote de Thompson, Cenote Uki, Cenote Xal, and Cenote Xtolok.

References.--62, 63, 296.

Family Potamididae

731. Cerithidea costata (da Costa)

Mexico records.--Yucatan: Cenote (Talcha).

References.--63.

Family Thiaridae

732. Pachychilus corpulentus Thompson

Mexico records.--Tamaulipas: Cueva del Nacimiento del Río Mante.

References.--637.

Order Basommatophora

Family Ancyliidae

733. Laevapex excentricus (Morelet)

Ancylus excentricus Morelet

Mexico records.--Yucatan: Cenote Chotch, Cenote Grande de Xanaba, and Cenote Xtolok.

References.--25, 62, 500.

Family Physidae

734. Stenophysa spiculata abbreviata (Fischer and Crosse)
Aplexa spiculata abbreviata (Fischer and Crosse)
 Mexico records.--Yucatán: Cueva de Balaam Canché.
 References.--63, 500.
735. Stenophysa spiculata gracilis (Fischer and Crosse)
Aplexa spiculata gracilis (Fischer and Crosse)
 Mexico records.--Yucatán: Cenote Xtolok.
 References.--62, 500.

Family Planorbidae

736. Drepanotrema (Fossulorbis) kermatoides (d'Orbigny)
Planorbis (Spiralina) cultratus d'Orbigny
 Mexico records.--Yucatán: Cenote Grande de Xanaba.
 References.--62.
737. Planorbis caribaeus d'Orbigny
 Mexico records.--Yucatán: Cenote Xtolok.
 References.--25.
738. Planorbis (Tropicorbis) maya Morelet
 Mexico records.--Yucatán: Cueva Has.
 References.--61, 296.

Order Geophila

Family Achatinidae

739. Lamellaxis (Allopeas) gracilis (Hutton)
Opeas gracile (Hutton)
 Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
 References.--63.
740. Lamellaxis (Lamellaxis) martensi Pfeiffer
Leptinaria martensi (Pfeiffer)
 Mexico records.--Yucatán: Cueva de Balaam Canché.
 References.--62, 63.
741. Lamellaxis (Lamellaxis) micra (d'Orbigny)
Opeas micra (d'Orbigny)
 Mexico records.--Yucatán: Cueva de Balaam Canché, Cueva Góngora,
 Cueva de Hochtún, Cueva de Kaua, Cueva Muruztún, Cueva San Isidro,
 Cueva Xkyc, and Cueva Ziz.
 References.--63.
742. Opeas yucatanense Pilsbry
 Mexico records.--Yucatán: Cueva de Balaam Canché and Cueva Chac Mol.
 References.--63.
743. Subulina octona (Bruguière)
 Mexico records.--Yucatán: Cenote del Country Club.
 References.--62.

Family Bulimulidae

744. Bulimulus dealbatus schiedeanus (Pfeiffer)
Mexico records.--Coahuila: Frightful Cave.
References.--218.
745. Bulimulus unicolor (Sowerby)
Mexico records.--Yucatán: Cueva de Balaam Canche, Cueva Ebizt, and Cueva de Loltun.
References.--62, 63.
746. Drymaeus cozumelensis Richards
Mexico records.--Quintana Roo: Sink (Isla de Cozumel).
References.--554.
747. Drymaeus serperastrus (Say)
Mexico records.--Yucatan: Cueva Ebizt and Cenote Scan Yui.
References.--62, 63.
748. Drymaeus shattucki Bequaert and Clench
Mexico records.--Yucatán: Cueva de Loltun and Cenote Xtolok.
References.--62, 63.
749. Drymaeus tropicalis (Morelet)
Mexico records.--Yucatan: Cueva Ebizt.
References.--63.
750. Orthalicus princeps (Sowerby)
Oxystyla princeps (Sowerby)
Mexico records.--Yucatán: Cueva Has, Cenote Ixil, and Cueva de Kaua.
References.--62, 63, 296.

Family Polygyridae

751. Praticolella griseola (Pfeiffer)
Mexico records.--Quintana Roo: Sink (Isla de Cozumel).
References.--554.

Family Spiraxidae

752. Euglandina cylindracea (Phillips)
Mexico records.--Yucatán: Cueva Ebizt, Cueva Has, Cueva Lara, Cueva de Loltun, Cueva de Sambulhá (Motul), Cenote Scan Yui, and Cenote Xtolok.
References.--62, 63, 296.
753. Orizosoma tabiense (Pilsbry)
Streptostyla (Orizosoma) tabiense Pilsbry
Mexico records.--Yucatán: Cave (Tabí).
References.--61, 517.
754. Spiraxis cacahuamilpensis Herrera
Mexico records.--Guerrero: Grutas de Cacahuamilpa.
References.--302, 702.

755. Streptostyla meridana (Morelet)

Mexico records.--Yucatán: Cueva de Balaam Canché, Cenote Scan Yui, and Cenote Uki.

References.--62, 63.

756. Streptostyla ventricosula (Morelet)

Mexico records.--Yucatán: Cueva Gongora, Cueva de Kaua, Cueva de Loltún, and Cueva Xkyc.

References.--63.

Family Urocoptidae

757. Brachypodella speluncae (Pfeiffer)

Cylindrella speluncae Pfeiffer

Mexico records.--Yucatán: Cave (Tabí), Cueva de Balaam Canché, Cenote Chotch, Cueva Ebizt, Cenote Ixil, Cueva de Loltún, and Cueva del Camino de San Roque n. 2.

References.--61, 62, 63.

758. Coelostemma marrsi Drake

Mexico records.--Chihuahua: Cueva del Diablo.

References.--219.

759. Holospira sp.

Mexico records.--Coahuila: Frightful Cave.

References.--218.

760. Microceramus concisus (Morelet)

Mexico records.--Yucatán: Cenote Ixil, Cueva Lara, and Cueva de Loltún.

References.--62, 63, 296.

Family Vertiginidae

761. Bothriopupa variolosa (Gould)

Mexico records.--Yucatán: Cenote Chotch.

References.--62.

762. Pupisoma dioscoricola insigne Pilsbry

Pupisoma dioscoricola (C.B. Adams)

Mexico records.--Yucatán: Cenote Santa Ana.

References.--62.

Family Xanthonychidae

763. Averellia (Trichodiscina) coactiliata (Deshayes)

Mexico records.--Yucatán: Cenote Xtolok.

References.--62.

764. Humboldtiana montezuma Pilsbry

Mexico records.--Coahuila: Frightful Cave.

References.--218.

765. Humboldtiana taylori Drake

Mexico records.--Coahuila: Spring Cave.

References.--218.

Family Zonitidae

766. Hawaia minuscule (Binney)Mexico records.--Yucatan: Cueva Sazich.

References.--63, 500.

PHYLUM CHORDATA

CLASS TELEOSTOMI

Order Cypriniformes

Family Characidae

767.*Astyanax sp.Anoptichthys sp.Mexico records.--San Luis Potosí: Sotano de Pichijumo and Sotano del Tigre; Tamaulipas: Bee Cave.

References.--1, 47, 66, 105, 111, 119, 191, 225, 229, 306, 307, 378, 454, 458, 464, 467, 486, 504, 509, 521, 522, 545, 546, 616, 632, 647, 684, 692.

768.*Astyanax antrobius (Alvarez)Anoptichthys antrobius AlvarezMexico records.--Tamaulipas: Cueva de El Pachón.

References.--11, 12, 13, 38, 47, 87, 88, 94, 106, 111, 119, 122, 214, 230, 308, 351, 373, 374, 375, 376, 377, 418, 458, 459, 462, 475, 508, 511, 512, 513, 532, 545, 582, 585, 587, 588, 589, 592, 628, 629, 631, 634, 635, 636, 643, 648, 692, 693, 694, 695.

769. Astyanax fasciatus altior HubbsMexico records.--Yucatan: Cenote Chapultepec and Cenote Xlaka.

References.--13, 215, 334.

770.*Astyanax hubbsi (Alvarez)Anoptichthys hubbsi AlvarezAstyanax (Anoptichthys) jordani hubbsi (Alvarez)Anoptichthys sp.Mexico records.--San Luis Potosí: Sótano del Arroyo, Cueva de Los Sabinos, and Sótano de la Tinaja.

References.--2, 11, 12, 13, 14, 38, 47, 74, 75, 76, 87, 88, 94, 100, 102, 105, 111, 118, 119, 122, 136, 214, 216, 274, 305, 308, 337, 338, 349, 351, 373, 374, 375, 377, 411, 458, 462, 475, 484, 485, 508, 513, 519, 526, 527, 528, 529, 545, 585, 587, 589, 592, 628, 629, 631, 634, 636, 643, 692, 693, 694, 695.

771.*Astyanax jordani (Hubbs and Innes)Anoptichthys jordani Hubbs and InnesAstyanax (Anoptichthys) jordani jordani (Hubbs and Innes)Astyanax mexicanus (Philippi)Mexico records.--San Luis Potosí: Cueva Chica.

References.--2, 4, 8, 11, 12, 13, 14, 22, 36, 38, 45, 47, 58, 64, 65, 67, 87, 89, 94, 98, 99, 100, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 117, 118, 119, 120, 123, 136, 168, 214, 215, 216, 231, 232, 233, 234, 269, 273, 274, 275, 276, 277, 279, 282, 283, 305, 308, 335, 336, 337, 338, 343, 346, 349, 351, 357, 358, 361, 362, 363,

371, 372, 373, 374, 375, 376, 377, 379, 380, 381, 382, 395, 396,
 397, 398, 399, 400, 401, 402, 403, 404, 410, 415, 416, 429, 430,
 431, 432, 433, 434, 435, 438, 458, 462, 467, 475, 476, 484, 485,
 492, 506, 508, 511, 513, 514, 519, 526, 527, 528, 529, 530, 531,
 535, 545, 553, 570, 582, 585, 586, 587, 589, 592, 593, 611, 612,
 613, 614, 617, 628, 629, 630, 631, 633, 634, 636, 643, 680, 683,
 692, 693, 694.

772. Astyanax mexicanus (Phillipi)

Astyanax sp.

Mexico records.--San Luis Potosí: Well near Cueva Chica.

References.--98.

Family Ictaluridae

773.*Prietella phreatophila Carranza

Mexico records.--Coahuila: Pozo "El Potrero".

References.--77, 139, 173, 341, 475, 622, 625, 643.

Family Pimelodidae

774. Rhamdia guatemalensis Günther

Rhamdia sp.

Mexico records.--Yucatán: Caves.

References.--5, 140, 381, 382, 683, 709.

775. Rhamdia guatemalensis decolor Hubbs

Rhamdia guatemalensis Günther

Mexico records.--Yucatán: Cenote Geiser, Cueva de Kaua, Cueva
 Oxolodt, Cueva de Sambulhá (Mérida), Cueva de Sambulhá (Motul),
 Cenote Scan Yui, and Cenote Uki.

References.--166, 214, 215, 334, 335, 414, 440, 468, 469, 475, 495,
 500, 501, 620, 629, 643.

776. Rhamdia guatemalensis depressa Barbour and Cole

Rhamdia depressa Barbour and Cole

Rhamdia guatemalensis Günther

Rhamdia sp.

Mexico records.--Yucatán: Cenote Chiuok, Cenote Chotch, Cenote Ciruak,
 Cenote Halal, Cenote Hotún, Cenote Huntún, Cenote Ixil, Cueva Luchil,
 Cenote Mukuyche, Cenote Pisté, Cenote Santa Ana, Cenote Scan Yui,
 Cenote Sisal, Cenote Sodzil, Cenote Tikimul, Cenote Chica de Xanabá,
 Cenote Grande de Xanabá, and Cenote Yuncu.

References.--37, 60, 214, 215, 334, 335, 414, 468, 495, 496, 500, 629,
 697.

777. Rhamdia guatemalensis sacrificii Barbour and Cole

Rhamdia sacrificii Barbour and Cole

Rhamdia guatemalensis subsp.

Mexico records.--Yucatán: Cenote Segrada and Cenote Xtolok.

References.--37, 60, 214, 215, 334, 335, 495, 496, 500, 629.

778. Rhamdia guatemalensis stygaea Hubbs
Rhamdia guatemalensis decolor Hubbs
 Mexico records.--Yucatán: Cueva Luchil and Cueva San Isidro.
 References.--166, 214, 215, 334, 335, 475, 495, 500, 629, 643.

Order Cyprinodontiformes

Family Poeciliidae

779. Gambusia yucatana Regan
 Mexico records.--Yucatán: Cenote Chiuok, Cenote Halal, Cenote Manzanilla, Cenote de Miramar, Cenote Mukuyche, and Cenote Xlaka.
 References.--215, 334.
780. Platypoecilus sp.
 Mexico records.--San Luis Potosí: Well near Cueva Chica.
 References.--98.
781. Poecilia sphenops (Cuvier and Valenciennes)
Mollienesia sphenops Cuvier and Valenciennes
 Mexico records.--Tabasco: Cave (Arroyo del Solpho).
 References.--47, 273, 374, 376, 509, 519, 684, 695.
782. Poecilia sphenops altissima (Hubbs)
Mollienesia sphenops altissima Hubbs
 Mexico records.--Yucatán: Cenote Manzanilla.
 References.--215, 334.
783. Poecilia velifera (Regan)
Mollienesia velifera Regan
 Mexico records.--Yucatán: Cenote Chapultepec, Cenote Manzanilla, Cenote Niagra, and Cenote Xlaka.
 References.--334, 500.

Order Perciformes

Family Brotulidae

- 784.*Typhliasina pearsei (Hubbs)
Typhlias pearsei Hubbs
Typhlias sp.
 Mexico records.--Yucatán: Cenote (Muna), Cueva de Balaam Canché, and Cueva del Pochote.
 References.--5, 53, 67, 138, 140, 166, 214, 215, 276, 335, 382, 475, 485, 486, 498, 500, 576, 607, 629, 631, 643, 683, 691, 709.

Family Cichlidae

785. Cichlasoma meeki (Brind)
 Mexico records.--Yucatán: Cenote Chapultepec.
 References.--215, 334, 500.
786. Cichlasoma urophthalmus (Günther)
Heros urophthalmus Günther
 Mexico records.--Yucatán: Cenotes.
 References.--381, 382.

787. Cichlasoma urophthalmus conchitae Hubbs
Mexico records.--Yucatán: Cenote Conchita.
References.--214, 215, 334, 500, 629.
788. Cichlasoma urophthalmus ericymba Hubbs
Mexico records.--Yucatán: Cueva de Sambulhá (Mérida).
References.--214, 215, 277, 335, 475, 500, 629.
789. Cichlasoma urophthalmus mayorum Hubbs
Cichlasoma mayorum Hubbs
Heros urophthalmus Günther
Mexico records.--Yucatán: Cenote Segrada and Cenote Xtolok.
References.--37, 60, 214, 215, 222, 334, 335, 414, 495, 500, 629.
790. Cichlasoma urophthalmus zebra Hubbs
Mexico records.--Yucatán: Cenote Xlaka.
References.--214, 215, 334, 500, 629.

Order Symbranchiformes

Family Symbranchidae

- 791.*Symbranchus infernalis (Hubbs)
Pluto infernalis Hubbs
Furmastix infernalis (Hubbs)
Pluto sp.
Mexico records.--Yucatán: ?Cenote (Muna), Cueva de Hochtún, and Cueva del Pochote.
References.--5, 13, 53, 67, 138, 140, 214, 215, 335, 382, 439, 475, 485, 486, 500, 629, 643, 691.

CLASS AMPHIBIA

Order Urodela

Family Plethodontidae

792. Bolitoglossa mexicana mexicana Duméril, Bibron, and Duméril
Mexico records.--Yucatán: Cenote Seco.
References.--220.
793. Chiropterotriton sp.
Mexico records.--Tamaulipas: Two small caves (El Chihue).
References.--523.
794. Chiropterotriton arborea (Taylor)
Mexico records.--San Luis Potosí: Cueva de la Hoya.
References.--524.
795. Chiropterotriton chondrostega (Taylor)
Mexico records.--Tamaulipas: Bell-shaped sink (Rancho del Cielo) and Two shallow sinks (Rancho del Cielo).
References.--419, 537.
796. Chiropterotriton magnipes Rabb
Plethodontidae sp.
Mexico records.--Queretaro: Cueva del Madroño; San Luis Potosí: Cueva de Potrerillos.
References.--86, 524, 605.

797. Chiropterotriton mosaueri (Woodall)
Oedipus mosaueri Woodall
 Mexico records.--Hidalgo: Cave (Durango).
 References.--523, 524, 624, 704.
798. Chiropterotriton multidentata (Taylor)
 Mexico records.--Tamaulipas: Cave (Aserradero del Paraíso) and Fissure (Casa Piedras).
 References.--419, 523, 537.
799. Pseudoeurycea bellii (Gray)
 Mexico records.--Tamaulipas: Cave (Agua Linda), Balanced Rock Cave, and Crystal Cave.
 References.--419, 537.
800. Pseudoeurycea scandens Walker
 Mexico records.--Tamaulipas: Fissure (Casa Piedras), Cave (El Chihue), and Caves (Rancho del Cielo).
 References.--419, 523, 537, 605, 681.

Order Anura

Family undetermined

801. Unidentified genus and species
 Mexico records.--San Luis Potosí: Cueva de la Hoya and Cueva de Potrerillos.
 References.--86.

Family Bufonidae

802. Bufo marinus horribilis Wiegmann
Bufo marinus (L.)
 Mexico records.--Yucatán: Cenote Halal, Cenote Segrada, and Cenote Xtolok.
 References.--37, 237, 495, 603, 709.
803. Bufo valliceps Wiegmann
 Mexico records.--Yucatán: Cueva Luchil, Cenote Xtolok, and Cenote Yuncu.
 References.--37, 237.

Family Hylidae

804. Agalychnis callidryas (Cope)
 Mexico records.--Yucatán: Cenote de Thompson.
 References.--237, 500.
805. Triprion petasatus (Cope)
Pharyngodon petasatus Cope
 Mexico records.--Yucatán: Cenote Pamanche and Cenote Santa Elena.
 References.--185, 364.

Family Leptodactylidae

806. Eleutherodactylus alfredi (Boulenger)
 Mexico records.--Quintana Roo: Caves (Pueblo Nuevo X-Can).
 References.--220.

807. Eleutherodactylus augusti augusti (Dugès)
Eleutherodactylus sp.
 Mexico records.--San Luis Potosí: Cueva del Jobo; Tamaulipas: Cave (El Carrizo), Cave (Sierra Gorda), and Cueva de El Pachón.
 References.--418, 419, 710.
808. Eleutherodactylus augusti cactorum Taylor
Eleutherodactylus cactorum Taylor
 Mexico records.--Puebla: Cave (Puebla).
 References.--606, 710.
809. Eleutherodactylus decoratus decoratus Taylor
 Mexico records.--Hidalgo: Cueva Piedra Ancho.
 References.--407.
810. Eleutherodactylus decoratus purpureus Lynch
Eleutherodactylus hidalgoensis Taylor
 Mexico records.--Tamaulipas: Cave (Aserradero del Paraíso), Cave (El Chihue), and Caves (Rancho del Cielo).
 References.--407, 419, 537.
811. Eleutherodactylus stuarti Lynch
 Mexico records.--Chiapas: Cueva Chica de Hunchenbien.
 References.--408.
812. Eleutherodactylus yucatanensis Lynch
 Mexico records.--Quintana Roo: Cave (Pueblo Nuevo X-Can).
 References.--406.
813. Syrrhophus dennisi Lynch
Syrrhophus longipes (Baird)
Syrrhophus latodactylus Taylor
Syrrhophus sp.
 Mexico records.--Tamaulipas: Cueva de El Pachón.
 References.--409, 418, 419, 710.
814. Syrrhophus longipes (Baird)
Syrrhophus latodactylus Taylor
 Mexico records.--Queretaro: Cueva de los Riscos; San Luis Potosí: Cave (Xilitla); Tamaulipas: Cave (Aserradero del Paraíso), Cave (El Chihue), Cave (Sierra Gorda), Bee Cave, and Crystal Cave.
 References.--409, 419, 523, 537, 710.
- Family Ranidae
815. Rana pipiens Schreber
 Mexico records.--Hidalgo: Cave (Durango); Quintana Roo: Cave (Felipe Carrillo Puerto); Tamaulipas: Dry sinkhole (Rancho del Cielo); Yucatán: Cenote (Chichén Itzá), Cenote de Miramar, Cenote Segrada, and Cenote Xtolok.
 References.--220, 364, 419, 427, 537, 704.

Family Rhinophrynidae

816. Rhinophrynus dorsalis Duméril and Bibron
 Mexico records.--Yucatán: Cenote Segrada.
 References.--364.

CLASS REPTILIA

Order Chelonia

Family Kinosternidae

817. Kinosternon creaseri Hartweg
Cinosternon leucostomum Duméril and Bibron
 Mexico records.--Yucatán: Cenote Scan Yui and Cenote Segrada.
 References.--37, 220, 237.
818. Kinosternon cruentatum Duméril and Bibron
 Mexico records.--Yucatán: Cenote Tizimin.
 References.--220.
819. Kinosternon integrum LeConte
 Mexico records.--Puebla: Cave (Puebla).
 References.--606.

Order Squamata

Family Boidae

820. Constrictor constrictor imperator (Daudin)
 Mexico records.--Guerrero: Cueva de Tezoapa.
 References.--672.

Family Colubridae

821. Dryadophis melanolomus melanolomus (Cope)
Eudryas boddaerti melanolomus (Cope)
 Mexico records.--Yucatán: Cenote Xtolok.
 References.--237.
822. Elaphe flavirufa flavirufa (Cope)
 Mexico records.--Tamaulipas: Cueva de la Sepultura.
 References.--666, 672.
823. Rhadinaea crassa Smith
 Mexico records.--Tamaulipas: Cave (Gómez Farías).
 References.--419.
824. Tropidodipsas sartorii sartorii Cope
 Mexico records.--Quintana Roo: Cave (Pueblo Nuevo X-Can); Yucatán:
 Cueva de Loltún.
 References.--166, 214, 220, 238.

Family Crotalidae

825. Bothrops atrox asper (Garman)
Bothrops atrox Duméril, Bibron, and Duméril
 Mexico records.--San Luis Potosí: Cueva de Fer-de-Lance.
 References.--410, 672.

Family Gekkonidae

826. Coleonyx elegans elegans Gray

Mexico records.--Yucatán: Cueva Góngora, Cueva Puz, Cueva Xkyc, and Cueva Ziz.

References.--166, 214, 238, 500, 604, 620.

827. Thecadactylus rapicaudus (Houttuyn)

Mexico records.--Yucatán: Cueva Chakxix, Cueva Puz, Cueva del Camino de San Roque n. 1, and Cenote Seco.

References.--166, 220, 238, 500, 604.

Family Iguanidae

828. Anolis biporcatus Wiegmann

Mexico records.--Yucatán: Cenote de Thompson and Cenote Xtolok.

References.--237.

Family Xantusiidae

829. Lepidophyma micropholis Walker

Lepidophyma sp.

Mexico records.--Tamaulipas: Cueva de El Pachón.

References.--418, 605, 682.

CLASS AVES

Order Podicipitiformes

Family Podicipitidae

830. Podilymbus podiceps (L.)

Mexico records.--Yucatán: Cenote Xtolok.

References.--176.

Order Falconiformes

Family Cathartidae

831. Coragyps atratus (Bechstein)

Mexico records.--Yucatán: Cenote Segrada.

References.--176.

Order Strigiformes

Family Strigidae

832. Ciccaba virgata tamaulipensis (Phillips)

Ciccaba virgata (Cassin)

Mexico records.--Tamaulipas: Caves (Rancho del Cielo) and Cave (Sierra de Tamaulipas).

References.--293, 370, 420.

Family Tytonidae

833. Tyto alba (Scopoli)

Mexico records.--Tamaulipas: Cueva del Abra.

References.--322, 370.

834. Tyto alba pratincola (Bonaparte)
 Mexico records.--Yucatán: Cenote Seco and Cenote Yuncu.
 References.--500, 639.

Order Apodiformes

Family Apodidae

835. Chaetura vauxi tamaulipensis Sutton
 Mexico records.--Tamaulipas: Cave No. 6 (Rancho del Cielo), Cave No. 14 (Rancho del Cielo), and Cave No. 19 (Rancho del Cielo).
 References.--293.

Family Trochilidae

836. Campylopterus curvipennis curvipennis (Lichtenstein)
 Mexico records.--Tamaulipas: Cave No. 13 (Rancho del Cielo).
 References.--293.

837. Lampornis amethystinus amethystinus Swainson
 Mexico records.--Tamaulipas: Cave No. 6 (Rancho del Cielo).
 References.--293.

Order Coraciiformes

Family Momotidae

838. Eumomota superciliosa superciliosa (Swainson)
Eumomota superciliaris (Swainson)
 Mexico records.--Yucatán: Caves.
 References.--93, 138, 227, 496, 497.
839. Momotus momota coeruliceps (Gould)
 Mexico records.--Tamaulipas: Cave No. 11 (Rancho del Cielo) and Cave No. 13 (Rancho del Cielo).
 References.--293.

Order Passeriformes

Family Hirundinidae

840. Petrochelidon fulva citata Van Tyne
Petrochelidon fulva (Vieillot)
 Mexico records.--Yucatán: Cenote Ixil and Cenote Pisté.
 References.--93, 184, 366, 651.
841. Stelgidopteryx ruficollis ridgwayi Nelson
Stelgidopteryx ridgwayi Nelson
Stelgidopteryx serripennis (Audubon)
 Mexico records.--Yucatán: Cave (Chichén Itzá), Cave (Santa Cruz), and Cenote Pisté.
 References.--25, 138, 227, 366, 472, 496, 497, 500, 639.

Family Troglodytidae

842. Catherpes mexicanus (Swainson)
 Mexico records.--Tamaulipas: Cave No. 20 (Rancho del Cielo).
 References.--293.

Family Turdidae

843. Myadestes obscurus obscurus Lafresnaye
 Mexico records.--Tamaulipas: Cave No. 6 (Rancho del Cielo) and Cave
 No. 13 (Rancho del Cielo).
 References.--293.

844. Catharus mexicanus mexicanus (Bonaparte)
 Mexico records.--Tamaulipas: Cave No. 13 (Rancho del Cielo).
 References.--293.

CLASS MAMMALIA
 Order Marsupialia

Family Didelphidae

845. Didelphis marsupialis L.
 Mexico records.--Chiapas: Cueva Cerro Hueco.
 References.--666.

846. Didelphis marsupialis yucatanensis J.A. Allen
Didelphis yucatanensis yucatanensis J.A. Allen
Didelphis virginiana Kerr
 Mexico records.--Yucatán: Cueva Ebizt.
 References.--138, 500, 501.

Order Chiroptera

Family undetermined

847. Unidentified genus and species
 Mexico records.--San Luis Potosí: Cueva del Jobo and Cueva de
 Potrerillos.

Family Desmodontidae

848. Desmodus rotundus murinus Wagner
Desmodus rotundus (Geoffroy)
Desmodus rufus True
Desmodus sp.
 Mexico records.--Chiapas: Cueva de la Chepa and Grutas de Zapaluta;
Colima: Cueva de la Fábrica; Guerrero: Cave (Acahuizotla), Cave
 (Acapulco), Cave (Almolonga), Cueva del Borrego, Cueva del Cañon
 del Zopilote, Grutas de Cuetzala, Cueva del Puente de Dios, and
 Grutas de la Tranca de Ixcapaneca; Hidalgo: Cueva de la Mariposa;
Jalisco: Cueva D.C.B., Cueva de las Garrochas, and Cueva de Ginés;
México: Cave (Zacazonapan) and Grutas de la Estrella; Michoacán:
 Cave (Los Bancos), Cave (El Guayabo), Cueva de la Arena, Cueva del
 Cerro El Borrego, Cueva de la Colmena, Cueva de la Estancia, Cueva
 Los Monos, and Cueva Prieta; Morelos: Cave (Alpayuca), Cave
 (Cuernavaca), Cave (Jonacatepec), Cave (Zacoalpan Amilpas), Cueva
 de la Barranca de Apatlaco, Cueva 18 de Julio, Cueva de
 Oxtayohualolco, Cueva Poza de Moctezuma, and Cueva del Salitre
 (Tetecalita); Nuevo León: Cueva de Guadalupe and Puente de Dios
 (Galeana); Oaxaca: Cave (Mitla), Cave (Selva Alta Siempre Verde),
 and Cave (Tollosa); San Luis Potosí: Cave (El Pujal), Cueva del
 Aire, Cueva de la Barranca, Sotano de Ferrocarril, Cueva de

Huichihuayan, Cueva del Nacimiento del Río Coy, and Cueva de Los Sabinos; Sinaloa: Small cave (Chinacatera); Tabasco: Cueva del Rancho El Azufre and Cueva de Teapa; Tamaulipas: Cave (Jiménez), Cave (Río Sabinas), Cave (Sierra de Tamaulipas), Cave (70 km. S Victoria), Cueva del Abra, Cueva La Esperanza, Cueva de Guadalupe, Cueva La Mula, Cueva de El Pachón, Grutas de Quintero, Cueva de la Sepultura, and Cueva de Los Troncones; Veracruz: Cave (Fortín), Cave (San Juan de la Punta), Cave (Tuxpilla), Grutas de Atoyac, Cueva del Boquerón, Cueva de los Murciélagos, Cueva del Ojo de Agua Grande, and Cueva de la Pesca; Yucatan: Cenote (Calle 24, No. 97, Mérida), Cueva de Hochtun, Cueva de Sambulha (Motul), Cenote Santa Ana, Cueva Spukil, Cueva Xconsacab, and Cenote Xtolok.

References.--15, 26, 29, 52, 86, 87, 124, 137, 138, 178, 179, 182, 194, 197, 199, 201, 205, 210, 211, 212, 217, 228, 278, 285, 287, 288, 295, 315, 318, 320, 327, 342, 345, 350, 368, 369, 405, 413, 421, 422, 423, 463, 464, 466, 482, 499, 500, 501, 532, 583, 591, 621, 626, 656, 662, 666, 667, 671, 672, 673, 686, 687, 701.

849. Diaemus youngi (Jentink)

Mexico records.--Tabasco: Gruta del Coconá.

References.--386, 665, 666.

850. Diphylla ecaudata Spix

Diphylla ecaudata centralis Thomas

Mexico records.--Oaxaca: Cave (Selva Alta Siempre Verde); Quintana Roo: Cueva de arena (Santa Rosa); San Luis Potosí: Cueva del Jobo, Cueva de Potrerillos, and Cueva de Los Sabinos; Tamaulipas: Cueva de El Pachón, Grutas de Quintero, and Cueva de la Sepultura; Veracruz: Grutas de Atoyac and Cueva del Ojo de Agua Grande; Yucatan: Cueva Jih and Cueva Oxolodt.

References.--15, 193, 194, 197, 272, 285, 287, 295, 298, 413, 418, 499, 500, 501, 532, 549, 591, 656, 661, 666, 672.

Family Emballonuridae

851. Balantiopteryx io Thomas

Mexico records.--Oaxaca: Cave (Matías Romero), Cave (Montebello), Cave (Selva Alta Siempre Verde), and Cave (Tollosa); Tabasco: Gruta del Coconá, Cueva de Don Luis, and Cueva La Murciélaguera; Veracruz: Caves (Jesús Carranza) and Grutas de Atoyac.

References.--29, 199, 285, 591, 666.

852. Balantiopteryx plicata plicata Peters

Balantiopteryx ochoterenai Martínez and Villa

Mexico records.--Colima: Cave (Manzanillo); Guerrero: Cave (Acahuizotla), Cave (Acapulco), Cueva del Canon del Zopilote, Grutas de Juxtlahuaca, and Cueva de la Laguna Honda; Michoacán: Caves (Apatzingan); Morelos: Cave (Amacuzac), Cueva Barranca de Apatlaco, and Cueva del Gallo; Nayarit: Cave (San Blas); Oaxaca: Cave (Tehuantepec), Cueva Lisa, and Cueva Pina del Colorado; Puebla: Cuevas del Río Nexapa; San Luis Potosí: Cueva de Los Sabinos; Sinaloa: Caves (Chinacatera), Cueva de Don Cristino, and Cueva de Ventanas; Sonora: Cave (San Bernardo); Tabasco: Gruta del Coconá and Cueva de Teapa; Veracruz: Caves (Puente Nacional), Cave (San Juan de la Punta), and Cave (Totutla).

References.--126, 131, 132, 134, 205, 210, 211, 212, 217, 285, 286, 288, 312, 345, 369, 405, 583, 653, 662, 666, 671.

853. Peropteryx kappleri kappleri Peters

Mexico records.--Tabasco: Cueva de Don Luis and Cueva de Escorpión;
Veracruz: Cave (Jesús Carranza).

References.--199, 285, 666.

854. Peropteryx macrotis macrotis (Wagner)

Peropteryx canina canina (Wied-Neuwied)

Mexico records.--Tabasco: Gruta del Coconá; Veracruz: Caves (Jesús Carranza); Yucatán: Cueva Chakxix, Cueva de Ioltún, Cueva del Camino de San Roque n. 2, and Cueva Spukil.

References.--114, 199, 285, 295, 298, 313, 500, 501, 666, 688.

855. Saccopteryx bilineata (Temminck)

Mexico records.--Oaxaca: Cave (Selva Alta Siempre Verde).

References.--591.

Family Molossidae

856. Eumops perotis californicus (Merriam)

Mexico records.--Coahuila: Cueva del Indio.

References.--170, 286, 666.

857. Molossus ater nigricans Miller

Molossus nigricans Miller

Molossus sp.

Mexico records.--Tabasco: Cueva de Don Luis; Yucatán: Cueva Ebizt.

References.--138, 500, 501, 666.

858. Tadarida aurispinosa (Peale)

Mexico records.--San Luis Potosí: Caves; Tamaulipas: Cueva del Abra.

References.--15, 18, 141, 200, 355, 666.

859. Tadarida brasiliensis intermedia Shamel

Tadarida brasiliensis mexicana (Saussure)

Mexico records.--Chiapas: Grutas de Zapaluta.

References.--171, 182, 666.

860. Tadarida brasiliensis mexicana (Saussure)

Tadarida brasiliensis (Geoffroy)

Tadarida mexicana (Saussure)

Mexico records.--Baja California: Cave (Las Cuevas); Chihuahua:

Caves; Coahuila: Cave (El Chiflon), Cave (San Buenaventura), Cueva de Allende, and Cueva de Laguna Seca; Distrito Federal: Cave

(Ixtacalco); Durango: Cueva del Guano; Jalisco: Cueva de las Garrochas;

Michoacán: Cueva de Janitzio; Nuevo León: Cueva de la Boca and Cueva

del Rincón de la Virgen; San Luis Potosí: Ventana Jabalí; Sinaloa:

Cave (Monte Largo) and Cueva de la Chinacatera; Sonora: Cueva del

Tigre; Tamaulipas: Cueva del Abra and Cueva La Mula; Veracruz: Cave

(Cofre de Perote) and Cave (Las Vigas); Yucatán: Cueva Valladolid.

References.--15, 27, 171, 172, 180, 182, 183, 204, 205, 248, 250, 287, 288, 342, 356, 392, 413, 450, 451, 532, 618, 619, 641, 659, 660, 662, 663, 666, 669.

861. Tadarida laticaudata ferruginea GoodwinTadarida femorosacca (Merriam)Tadarida yucatanica MillerTadarida laticaudataMexico records.--Tamaulipas: Cave (Río Sabinas) and Cueva del Abra.

References.--15, 141, 198, 200, 271, 354, 418, 532, 663, 666, 672.

Family Natalidae

862. Natalus mexicanus mexicanus MillerNatalus stramineus mexicanus MillerNatalus sp.Mexico records.--Baja California: Cave (Las Cuevas); Guerrero: Cave(Acahuizotla) and Grutas de Juxtlahuaca; Jalisco: Cueva de Ginés;Sonora: Cueva del Tigre.

References.--172, 180, 356, 405, 450, 666.

863. Natalus mexicanus saturatus Dalquest and HallNatalus stramineus saturatus Dalquest and HallNatalus mexicanus MillerNatalus stramineus GrayNatalus stramineus mexicanus MillerNatalus sp.Mexico records.--Chiapas: Cueva de la Chepa; Distrito Federal: Cueva deXictli; Guerrero: Cueva de El Salitre; México: Grutas de la Estrella;Morelos: Cueva del Cerro and Cueva del Salitre (Tetecalita); NuevoLeón: Cueva de la Boca; San Luis Potosí: Cueva Chica and Cueva delNacimiento del Río Coy; Tabasco: Gruta del Coconá; Tamaulipas: Cave

(Jiménez), Cave (Ojo de Agua), Cave (Sierra de Tamaulipas), Cueva

del Abra, Cueva de los Cuarteles, Cueva de la Esperanza, Cueva de

El Pachón, and Grutas de Quintero; Veracruz: Cave (Fortín), Cuevadel Boquerón, Cueva del Infiernillo, and Cuevas de Tilapa; Yucatán:

Cueva de Balaam Canché, Cueva de Hochtún, and Cueva Muruztún.

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179, 180, 192, 199, 208, 278, 285, 315, 342, 413, 418, 448, 478,

499, 500, 501, 532, 581, 620, 621, 666, 686.

Family Phyllostomidae

864. Anoura geoffroyi GrayMexico records.--Tamaulipas: Mine Cave.

References.--32.

865. Anoura geoffroyi lasiopyga PetersMexico records.--Chiapas: Cueva de Teopisca; Guerrero: Cueva de la LagunaHonda and Cueva Tlachilitla; México: Grutas de la Estrella; Morelos:

Cueva de Oxtoyahualolco.

References.--19, 315, 666.

866. Artibeus aztecus AndersenArtibeus cinereus aztecus AndersenArtibeus cinereus TrueDermanura cinereum GervaisMexico records.--Chiapas: Cave (Teopisca) and Grutas de Zapaluta;Guerrero: Cave (Cerra Companaria) and Cave (Omitemi); México: Cueva

de la Barranca de los Idolos; Morelos: Cave (Cerro Frio); Tamaulipas: Cave (Rancho del Cielo).

References.--15, 209, 270, 405, 537, 621, 666, 686.

867. Artibeus cinereus phaeotis Miller

Mexico records.--Tabasco: Cave (Teapa).

References.--666.

868. Artibeus hirsutus Andersen

Mexico records.--Guerrero: Cueva de los Americanos, Grutas de Juxtlahuaca, Cueva de la Laguna Honda, and Cueva del Puente de Dios; Morelos: Cueva del Salitre (Tetecalita); Nayarit: Cueva del Tesoro.

References.--405, 666.

869. Artibeus jamaicensis triomylus Handley

Artibeus jamaicensis jamaicensis Leach

Mexico records.--Guerrero: Cave (Acahuizotla), Cueva Las Granadas, Cueva de la Laguna Honda, Cueva del Rincón, and Cuevas de Yerbabuena; Jalisco: Cueva D.C.B.; Morelos: Cueva del Salitre (Tetecalita).

References.--292, 405, 423, 477, 482, 666, 673.

870. Artibeus jamaicensis yucatanicus Allen

Artibeus jamaicensis Leach

Artibeus perspicillatus True

Artibeus sp.

Mexico records.--Chiapas: Cueva Cerro Hueco and Grutas de Zapaluta; San Luis Potosí: Cueva Chica, Cueva de Corinto, Sótano de Ferrocarril, Cueva del Nacimiento del Río Coy, and Cueva de Los Sabinos; Tabasco: Cueva La Murcielaguera; Tamaulipas: Cave (Río Sabinas), Cueva del Abra, Cueva de El Pachón, and Grutas de Quintero; Veracruz: Caves (Jesús Carranza), Cave (Plan del Rio), Caves (Tuxpilla), Cueva del Ojo de Agua Grande, Cueva de la Pesca, Cueva de Sala de Agua Grande, and Cueva del Tigre; Yucatán: Cave (Chochola), Cave (Yocát), Cueva Chakxix, Cueva del Cinco de Mayo, Cueva Coyok, Cueva Ebizt, Cenote de Hunucmá, Cueva de Kaua, Cueva de Loltún, Cueva Oxkintok, Cueva Oxkutzcab, Cueva Puz, Cueva Sabacá, and Cueva del Camino de San Roque n. 2.

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871. Artibeus lituratus palmarum J.A. Allen and Chapman

Mexico records.--Guerrero: Cave (Acahuizotla), Cave (Papayo), Grutas de Juxtlahuaca; San Luis Potosí: Caves (Xilitla), Cueva del Lobo, and Cueva del Nacimiento del Río Coy; Tamaulipas: Cave (Río Sabinas) and Grutas de Quintero.

References.--15, 194, 405, 666.

872. Artibeus planirostris planirostris (Spix)

Mexico records.--Michoacán: Cave (El Guayabo).

References.--287, 288.

873. Artibeus toltecus toltecus Saussure
Dermanura cinereum (True)
 Mexico records.--Chiapas: Cueva Cerro Hueco; Morelos: Cave (Cerro Frio); Veracruz: Grotte de Xilapa.
 References.--209, 211, 212, 657.
874. Artibeus turpis turpis Andersen
 Mexico records.--Tabasco: Cueva de Don Luis.
 References.--666.
875. Carollia castanea subrufa (Hahn)
 Mexico records.--Tabasco: Cueva de Don Luis.
 References.--666.
876. Carollia perspicillata azteca Saussure
Carollia brevicauda True
 Mexico records.--Chiapas: Cueva Cerro Hueco; Puebla: Cueva del Azufre; San Luis Potosí: Caves (Xilitla); Tabasco: Cueva de Don Luis and Cueva La Murcielaguera; Tamaulipas: Cueva de los Troncones; Veracruz: Cave (Fortín) and Cueva del Boquerón.
 References.--194, 199, 278, 285, 621, 666.
877. Choeronycteris mexicana Tschudi
Choeronycteris sp.
 Mexico records.--Coahuila: Cave (Bella Unión), Cave (El Chiflon), Cave (San Buenaventura), Cave (San Pedro de las Colonias), Cueva de Don Jesús, and Cueva de la Herradura; Durango: Fissures (La Pila); Guerrero: Cueva del Rincón; Jalisco: Cueva Hedionda; Michoacán: Cave (Patzcuaro); Morelos: Cave (Jonacatepec) and Cave (Xochicalco); San Luis Potosí: Cave (Hacienda Capulin); Tamaulipas: Cueva La Mula; Tlaxcala: Cave (Tlaxcala).
 References.--15, 23, 27, 28, 35, 194, 205, 210, 211, 212, 287, 288, 405, 666.
878. Chrotopterus auritus auritus Peters
 Mexico records.--Chiapas: Grutas de Zapaluta; Oaxaca: Cave (Los Limones) and Cueva del Nacimiento; Veracruz: Cave (Jesús Carranza).
 References.--181, 182, 199, 209, 285, 666.
879. Glossophaga morenoi Martínez and Villa
Glossophaga soricina alticola Davis
Glossophaga soricina morenoi Martínez and Villa
 Mexico records.--Distrito Federal: Cuevas de Teutli; Guerrero: Cueva de Alpíxafia and Cueva de Tía Juana; Morelos: Cave (Jonacatepec) and Cueva del Idolo; Oaxaca: Cave (Carretera Transistimica); Tlaxcala: Cave (Tlaxcala); Yucatán: Cenote de Chapultepec.
 References.--205, 210, 211, 212, 591, 655, 664, 666.
880. Glossophaga soricina leachii Gray
Glossophaga soricina True
 Mexico records.--Chiapas: Cueva Cerro Hueco and Cueva de la Chepa; Durango: Cave (Santa Ana); Guerrero: Cave (Acahuizotla), Cave Acapulco), Cueva de Alpíxafia, Grutas de Cuetzala, Grutas de Juxtlahuaca, and Cueva de El Salitre; Michoacán: Cave (Coalcomán)

and Cave (El Guayabo); Morelos: Cueva de Huajintlan and Cueva del Idolito; Nayarit: Cueva del Fuerte de San Blas; San Luis Potosí: Cave (Xilitla) and Cueva del Nacimiento del Río Coy; Sonora: Caves (Chinobampo) and Cave (San Bernardo); Tabasco: Cueva de Don Luis; Tamaulipas: Cave (Ojo de Agua), Cave (Sierra de Tamaulipas), Cueva de la Boca, Cueva de la Florida, Cueva de El Pachón, and Grutas de Quintero; Tlaxcala: Cave (Tlaxcala); Veracruz: Cave (Fortín) and Cueva del Boquerón; Yucatán: Cueva Muruztún, Cueva Spukil, and Cueva Xkyc.

References.--15, 16, 17, 125, 126, 166, 169, 194, 199, 205, 210, 211, 212, 217, 278, 285, 286, 287, 288, 295, 297, 298, 329, 345, 352, 405, 518, 424, 443, 457, 459, 500, 501, 532, 621, 655, 664, 666.

881. Hylonycteris underwoodi Thomas

Mexico records.--Tabasco: Cueva de Don Luis; Veracruz: Cave (Metlac) and Cave (Tlacotepec).

References.--10, 285, 666.

882. Leptonycteris nivalis nivalis Saussure

Leptonycteris sp.

Mexico records.--Chiapas: Cave (Teopisca) and Cueva de la Chepa; Chihuahua: Cave (Carimechi); Distrito Federal: Cueva del Teutli; Guerrero: Cave (Mexcala), Cave (Yerbabuena), Grutas de Cacahuamilpa, Cueva del Cañon del Zopilote, Grutas de Cuetzala, Grutas de Juxtlahuaca, and Cueva de la Laguna Honda; Jalisco: Cueva D.C.B.; Morelos: Caves (Huajintlán), Cueva del Cerro, Cueva del Salitre (Tetecalita), and Cueva del Salitre (Xochimancas); Sonora: Caves; Tamaulipas: Cave (Jiménez).

References.--15, 125, 126, 183, 210, 211, 212, 217, 320, 321, 405, 413, 482, 581, 655, 666, 671.

883. Leptonycteris yerbabuenae Martínez and Villa

Leptonycteris nivalis yerbabuenae Martínez and Villa

Leptonycteris nivalis sanborni Hoffmeister

Leptonycteris sanborni Hoffmeister

Mexico records.--Chiapas: Cueva de la Chepa and Hoyo de Don Nicho; Guerrero: Cave (Teloloapan), Grutas de Cuetzala, and Cuevas de Yerbabuena; Hidalgo: Grutas de Xoxafi; Jalisco: Cueva D.C.B.; Mexico: Cueva del Coyote; Morelos: Cueva del Cerro, Cueva del Salitre (Tetecalita), and Cueva del Salitre (Xochimancas); Sonora: Cueva del Tigre.

References.--19, 30, 172, 209, 331, 423, 424, 436, 450, 619, 666, 668.

884. Lonchorhina aurita aurita Tomes

Mexico records.--Oaxaca: Cave (Cerro Pinon); Tabasco: Cueva La Murcielaguera.

References.--181, 666.

885. Macrophyllum macrophyllum Schinz

Mexico records.--Tabasco: Cave (Teapa).

References.--386, 666.

886. Macrotus waterhousii bulleri H. Allen
 Mexico records.--Hidalgo: Cave (Pinalito); Nuevo León: Cueva de Guadalupe.
 References.-- 286, 413, 666.
887. Macrotus waterhousii californicus Baird
Macrotus californicus Baird
Macrotus waterhousii Gray
Macrotus sp.
 Mexico records.--Baja California: Cave (Las Cuevas) and Caves (southern Baja California); Sonora: Cueva del Tigre.
 References.--180, 356, 449, 450, 473, 662, 666.
888. Macrotus waterhousii mexicanus Saussure
Macrotus mexicanus mexicanus Saussure
Macrotus waterhousii Gray
 Mexico records.--Guerrero: Cave (Acahuizotla), Cave (Mexcala), Cueva de Calicanto, Cueva del Canon del Zopilote, Cueva del Huarache o Palo Blanco, Cueva de la Mesa de las Choas, Cueva de la Penita, and Cueva de Tlachalitla; Jalisco: Cueva D.C.B.; Mexico: Cueva del Coyote; Morelos: Cave (Lake Tequesquitengo), Cueva de la Barranca de Apatlaco, Cueva del Cerro, Cueva de Huajintlán, Cueva de la Poza de Moctezuma, and Cueva del Salitre (Tetecalita).
 References.--20, 210, 211, 212, 280, 405, 413, 423, 473, 482, 666, 668, 673.
889. Micronycteris megalotis mexicanus Miller
Micronycteris megalotis (Gray)
 Mexico records.--Guerrero: Cave (Acahuizotla), Cave (Almolonga), Cueva Las Juntas, Cueva del Puente de Dios, and Cueva Tlachalitla; Morelos: Cueva de la Leona and Cueva de Xochitepec; San Luis Potosí: Cueva El Nilo; Tabasco: Cueva de Don Luis; Tamaulipas: Grutas de Quintero; Yucatán: Cueva Spukil, Cueva Xconsacab, and Cueva de Xmahit.
 References.--98, 134, 166, 211, 212, 405, 499, 500, 501, 620, 666, 686.
890. Micronycteris sylvestris (Thomas)
 Mexico records.--Jalisco: Cueva de las Garrochas; Veracruz: Cave (Tlacotepec) and Cave (Totutla).
 References.--199, 285, 659, 666.
891. Mimon bennettii cozumelae Goldman
Mimon cozumelae Goldman
 Mexico records.--Oaxaca: Cave (Los Limones); Veracruz: Cave (Presidio) and Caves (Jesús Carranza); Yucatán: Cenote (Tixpehual) and Cueva Tuz-ic.
 References.--181, 196, 285, 286, 298, 443, 666.
892. Mormoops megalophylla megalophylla Peters
Mormoops megalophylla senicula Rehn
Mormops megalophylla Peters
Mormoops megaphylla Peters
Hormops megallophylla Peters

Aello megalophylla megalophylla (Peters)

Aello megalophylla senicula (Rehn)

Mormoops sp.

Mexico records.--Chiapas: Cueva de la Chepa; Chihuahua: Cave (Carimechi); Coahuila: Cave (Puerta Santana), Cueva del Buen Abrigo, and Cueva de la Herradura; Durango: Cueva del Guano; Guerrero: Cave (Acapulco), Grutas de Cacahuamilpa, and Grutas de Juxtlahuaca; Jalisco: Cueva D.C.B.; Morelos: Cueva del Salitre (Tetecalita) and Cueva del Salitre (Ticumán); Nuevo León: Cueva de la Boca, Cueva del Diablo, and Grutas de San Bartolo; Oaxaca: Cueva de Domingullo; San Luis Potosí: Cueva Chica and Cueva del Nacimiento del Río Coy; Sonora: Cave (Guaymas) and Cueva del Tigre; Tabasco: Cave (Arroyo del Solpho); Tamaulipas: Grutas de Quintero and Cueva de los Troncones; Veracruz: Cueva del Boquerón, Cueva del Infiernillo, Cueva de la Presa, and Cuevas de Tilapa.

References.--15, 27, 98, 125, 126, 172, 180, 199, 208, 217, 273, 278, 285, 302, 314, 319, 342, 450, 525, 532, 619, 621, 652, 658, 666, 670, 686, 702.

893. Pteronotus davyi fulvus (Thomas)

Pteronotus davyi Gray

Dermonotus davyi (Gray)

Pteronotus sp.

Mexico records.--Chiapas: Cave (Tuxtla Gutiérrez) and Cueva de la Chepa; Guerrero: Cave (Acapulco), Grutas de Cacahuamilpa, and Cueva de El Salitre; Jalisco: Cueva D.C.B.; Morelos: Cave (Lake Tequesquitengo), Cueva del Cerro, and Cueva del Salitre (Tetecalita); San Luis Potosí: Cueva del Nacimiento del Río Coy; Sinaloa: Cave (Monte Largo) and Cueva de la Chinacatera; Sonora: Cueva del Tigre; Tabasco: Cave (Arroyo del Solpho); Tamaulipas: Cueva de los Troncones; Veracruz: Cueva del Boquerón, Cueva del Infiernillo, and Cueva Laguna Encantada.

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894. Pteronotus psilotis Dobson

Chilonycteris psilotis (Dobson)

Chilonycteris personata Wagner

Mexico records.--Guerrero: Cave (Acapulco), Grutas de Juxtlahuaca, and Cueva de El Salitre; Morelos: Cave (Lake Tequesquitengo), Cueva del Cerro, and Cueva del Salitre (Tetecalita); San Luis Potosí: Cueva del Nacimiento del Río Coy; Sinaloa: Cueva de la Chinacatera; Sonora: Cueva del Tigre; Tabasco: Cueva La Murcielaguera; Veracruz: Cueva del Boquerón and Cueva Laguna Encantada.

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895. Pteronotus rubiginosa mexicana (Miller)Chilonycteris rubiginosa mexicana MillerChilonycteris rubiginosa TrueChilonycteris parnelli mexicana MillerChilonycteris parnelli (Gray)Chilonycteris rubigena True

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896. Pteronotus suapurensis suapurensis J.A. AllenMexico records.--Veracruz: Cueva Laguna Encantada.

References.--209, 666.

897. Sturnira lilium parvidens GoldmanMexico records.--Puebla: Cueva El Azufre; Tabasco: Cueva La Murcielaguera.

References.--666.

898. Trachops cirrhosus coffini GoldmanMexico records.--Oaxaca: Cave (Cerro Piñón); Veracruz: Caves (Jesús Carranza).

References.--181, 285.

Family Vespertilionidae

899. Antrozous pallidus pallidus (LeConte)Mexico records.--Chihuahua: Caves; Durango: Cave (Lerdo).

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900. Eptesicus fuscus miradorensis H.AllenVesperugo scrotinus TrueMexico records.--Tamaulipas: Grutas de Quintero; Veracruz: Cueva de Cuautlapa, Cueva de Tilapa, and Cueva de Tuxpango.

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901. Eptesicus fuscus pallidus YoungMexico records.--Coahuila: Cave (San Buenaventura).

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902. Eptesicus gaumeri gaumeri (J.A. Allen)
Eptesicus brasiliensis propinquus Dalquest
 Mexico records.--Morelos: Cueva del Salitre (Tetecalita).
 References.--206, 353, 666.
903. Myotis sp.
 Mexico records.--Yucatán: Cueva Ebizt.
 References.--138.
904. Myotis californicus mexicanus (Saussure)
 Mexico records.--Tlaxcala: Cave (Tlaxcala).
 References.--205.
905. Myotis nigricans dalquesti Hall and Alvarez
Myotis nigricans extremus Miller and G.M. Allen
 Mexico records.--San Luis Potosí: Cave (El Salto); Tamaulipas:
 Cave (Ojo de Agua), Cave (Río Sabinas), and Grutas de El Puente;
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906. Myotis nigricans extremus Miller and G.M. Allen
 Mexico records.--Tabasco: Cueva de Don Luis; Yucatán: Cueva del
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 References.--295, 499, 500, 501, 666.
907. Myotis thysanodes aztecus Miller
 Mexico records.--México: Grutas de la Estrella.
 References.--666.
908. Myotis thysanodes thysanodes Miller
 Mexico records.--Chihuahua: Cave (Fern Canyon); Durango: Fissures
 and small caves (La Pila).
 References.--28, 359.
909. Myotis velifer incautus J.A. Allen
 Mexico records.--Coahuila: Cave (San Buenaventura), Cueva de la
 Bandurria, and Cueva de Don Jesús; Nuevo León: Cueva del Carrizal.
 References.--27, 666.
910. Myotis velifer peninsularis Miller
 Mexico records.--Baja California: Cave (Las Cuevas).
 References.--356.
911. Myotis velifer velifer J.A. Allen
 Mexico records.--Durango: Fissures and small caves (La Pila);
Jalisco: Cueva de las Garrochas; México: Cueva Barranca de los
 Idolos and Cueva de la Pena Blanca; Morelos: Cueva del Murciélago
 and Cueva del Salitre (Tetecalita); Puebla: Cueva del Salto de
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Sonora: Cueva del Tigre; Tlaxcala: Cave (Tlaxcala); Veracruz:
 Cave (Las Vigas) and Cave (Jalapa).
 References.--9, 28, 180, 182, 205, 285, 342, 450, 482, 666, 685, 686.

912. Pipistrellus subflavus veraecrucis (Ward)
Vesperugo veraecrucis Ward
 Mexico records.--Veracruz: Cave (Las Vigas).
 References.--213, 285, 666, 685, 686.
913. Plecotus mexicanus (G.M. Allen)
Plecotus macrotis LeConte
Corynorhinus macrotis (LeConte)
 Mexico records.--Chihuahua: Cave (Mojarachic); México: Cave (Paso Oyamecalco); Michoacán: Cave (Patzcuaro); Morelos: Cueva del Murciélago; Veracruz: Cave (Las Vigas) and Caves (Zacualpilla); Zacatecas: Cave (Sierra de Valparaíso).
 References.--285, 291, 666, 685, 686.
914. Plecotus townsendii australis (Handley)
 Mexico records.--Coahuila: Cave (Bella Unión) and Cave (San Buenaventura); Guerrero: Cueva Tecabra; Hidalgo: Grutas de Xoxafi; Jalisco: Cueva de las Garrochas; México: Cueva del Diablo; Michoacán: Cueva de la Arena.
 References.--27, 290, 291, 666.
- Order Rodentia
- Family Cricetidae
915. Neotoma angustapalata Baker
Neotoma sp.
 Mexico records.--Tamaulipas: Cave (El Encino), Caves (Rancho del Cielo), and Cueva de El Pachón.
 References.--15, 328, 418.
916. Neotoma mexicana torquata Ward
 Mexico records.--Veracruz: Cave (Limón) and Cave (Las Vigas).
 References.--285.
917. Ototylomys phyllotis phyllotis Merriam
 Mexico records.--Yucatán: Cueva de Balaam Canché, Cueva Chac Mol, Cenote Seco, and Cenote Xtolok.
 References.--166, 214, 295, 499, 501.
918. Peromyscus mexicanus (Saussure)
 Mexico records.--Veracruz: Caves.
 References.--285.
919. Peromyscus yucatanicus yucatanicus J.A. Allen and Chapman
 Mexico records.--Yucatán: Cenote Seco and Cenote Xtolok.
 References.--295.
920. Sigmodon hispidus microdon V. Bailey
 Mexico records.--Yucatán: Cueva Ebizt.
 References.--214, 500.

Family Dasyproctidae

921. Cuniculus paca nelsoni (Goldman)Cuniculus paca (True)Mexico records.--Yucatán: Cueva de Balaam Canché.

References.--214, 297, 501.

Family Erithizontidae

922. Coendou mexicanus yucataniae ThomasMexico records.--Yucatán: Cueva Chac Mol.

References.--214, 500.

Family Heteromyidae

923. Heteromys gaumeri J.A. Allen and ChapmanMexico records.--Yucatán: Cueva Ebizt.

References.--214, 500.

Order Carnivora

Family Canidae

924. Urocyon cinereoargenteus negrirostrisMexico records.--Guerrero: Cave (Yerbabuena).

References.--666.

Family Mustelidae

925. Spilogale gracilis MerriamMexico records.--Sonora: Cueva del Tigre.

References.--662, 666.

Family Procyonidae

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- Cueva del Cerro, Lake Tequesquitengo
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- Cueva del Murciélago, Tres Cumbres
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- Cueva de Oxtoyahualolco, Tepoztlán
References.--413, 666.
Species.--848, 865.
- Cueva Poza de Moctezuma, Oaxtepec
References.--320, 666.
Species.--7, 293, 848, 888, 895.
- Cueva del Salitre, Tetecalita
References.--206, 292, 413, 477, 478, 480, 482, 666, 668.
Species.--7, 848, 863, 868, 869, 882, 883, 888, 892, 893, 894, 895, 902, 911.
- Cueva del Salitre, Ticumán
References.--666, 670.
Species.--892.
- Cueva del Salitre, Xochimancas
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- Cueva de Xochitepec, Xochitepec
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- Cave (San Blas), San Blas
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Cueva del Fuerte de San Blas, San Blas

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Species.--880.

Cueva del Tesoro, Tepic

References.--666.

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References.--552.

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Cueva de las Animas, Monclova

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Cueva de la Boca, Santiago

References.--3, 78, 83, 84, 158, 182, 188, 208, 284, 301, 315, 475, 544, 660, 666, 669, 670.

Species.--7, 238, 242, 356, 432, 554, 606, 860, 863, 892.

Cueva del Carrizal, Candela

References.--3, 159, 160, 167, 265, 315, 474, 475, 544, 666.

Species.--197, 238, 282, 286, 287, 292, 363, 482, 485, 682, 909.

Cueva del Diablo, Sabinas Hidalgo

Synonyms.--Bat Cave; ?Cueva Envenenada

References.--6, 223, 245, 252, 253, 254, 255, 260, 304, 368, 475, 544, 658, 666, 670, 679.

Species.--7, 247, 294, 892.

Cueva Envenenada, Sabinas Hidalgo

References.--6, 223, 254, 255, 666.

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Cueva de las Fisuras, Sabinas Hidalgo

Synonyms.--Cueva del Camino

References.--544.

Species.--484.

Cueva de Guadalupe, Linares

References.--413, 666.

Species.--848, 886.

Resumidero de Pablillo, Galeana

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Grutas del Palmito, Bustamante

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References.--413.

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Cueva del Rincón de la Virgen, Villa de García

References.--182, 248, 413, 660, 669.

Species.--7, 860.

Grutas de San Bartolo, Santa Catarina

Synonyms.--Cueva de Tio Bartolo

References.--525, 544, 666, 670.

Species.--7, 208, 247, 892.

Grutas de Villa de García, Villa de García

References.--3, 78, 159, 160, 177, 243, 265, 266, 284, 475, 490, 544, 643, 679, 706.

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Cave (Carretera Transistimica), Matías Romero

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Cave (Los Limones), Acatlán de Pérez Figueroa

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Cave (Matías Romero), Matías Romero

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Species.--851.

Cave (Mitla), Mitla

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Species.--848.

Cave (Montebello), Matías Romero

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Cueva del Dominguito, Dominguito

References.--670.

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Cueva Lisa, Tehuantepec

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Cueva de Monteflor, Monteflor

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Species.--878.

Cueva Piña del Colorado, Tequisistlán

References.--666.

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Sotano de San Agustín, Huautla

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Cuevas del Rio Nexapa, Izúcar de Matamoros

References.--131, 132, 134.

Species.--29, 30, 54, 852.

Cueva del Salto de Alcececa, Atzalan

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Sotano de Camposantos, Landa de Matamoros

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Cueva del Madroño, Madroño

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Cueva de los Riscos, Jalpan

References.--409.

Species.--814.

Cueva de las Tablas, Landa de Matamoros

References.--41.

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- Cave (Felipe Carrillo Puerto), Felipe Carrillo Puerto
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- Cave (Cerra Companaría)
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Cueva del Ahuate No. 2, Xilitla

References.--86, 142, 471, 475, 547, 573.

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Cueva del Aire, Huichihuayán

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Species.--151, 193, 299, 314, 326, 330, 348, 431, 532, 592, 670, 684, 848.

Sotano del Arroyo, Valles

References.--47, 105, 111, 119, 143, 147, 301, 351, 373, 374, 394, 458, 462, 535, 539, 545, 587, 592, 595, 628, 645, 692.

Species.--123, 149, 163, 369, 603, 606, 770.

Cueva de la Barranca, Xilitla

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Cueva del Carnicero, Maroma

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Cueva de Corinto, Tamexín

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Species.--870.

Cueva de los Cuchos, Xilitla

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- Cueva del Desierto, El Guayalote
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- Cueva de Fer-de-Lance, El Pujal
References.--410.
Species.--825.
- Sotano de Ferrocarril, Valles
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Species.--149, 848, 870.
- Cueva Grande, El Pujal
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- Cueva de la Hoya, Ahuacatlán
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Species.--169, 193, 212, 275, 284, 299, 314, 318, 329, 330, 337, 382, 400, 427, 431, 433, 435, 444, 448, 474, 532, 601, 615, 794, 801.
- Cueva de Huichihuayán, Huichihuayán
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- Sotano de Huitzmolotitla, Xilitla
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- Ventana Jabalí, Tamuín
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- Cueva del Jobo, Xilitla
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- Cueva de la Lagunita, Ciudad de Maíz
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- Cueva de la Laja, Xilitla
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- Cueva del Lobo, Xilitla
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- Sotano de los Lobos, San Francisco
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- Cueva de la Luz, Aquismon
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- Sotano de Manuel, El Pujal
References.--410, 459.
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- Cueva del Nacimiento del Río Coy, Valles
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Species.--848, 863, 870, 871, 880, 892, 893, 894, 895.
- Sotano de la Navidad, Xilitla
References.--646.
Species.--169.
- Cueva El Nilo, Valles
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- Sotano de Pichijumo, Valles
Synonyms.--Sotano de Montecillos
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- Cueva Pinta, Valles
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- Cueva de la Porra, Xilitla
References.--96, 144, 394, 547, 600, 646.
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- Cueva de Potrerillos, Ahuacatlán
References.--86, 314, 413, 524, 605, 646, 666.
Species.--169, 212, 236, 277, 278, 339, 400, 427, 616, 670, 683, 796, 801, 847, 850.
- Sotano del Pozo, Ahuacatlán
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- Cueva de El Puente, San Francisco
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- Cueva de Los Sabinos, Valles
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Species.--11, 12, 16, 36, 37, 39, 40, 72, 76, 84, 85, 91, 93, 94, 96, 101, 102, 103, 106, 108, 114, 123, 124, 126, 140, 149, 156, 163, 252, 268, 272, 281, 303, 359, 360, 361, 387, 432, 434, 438, 481, 549, 672, 673, 680, 684, 770, 848, 850, 852, 870.
- Cueva del Salitre, Xilitla
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- Cueva de la Selva, Xilitla
References.--96, 547, 580, 646.
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- Cueva de Taninul n. 1, Tamuín
References.--186, 320, 368, 410, 455, 459, 542, 705.
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Sotano del Tigre, Valles

References.--301, 458, 459, 545.

Species.--163, 272, 402, 606, 767.

Sotano de la Tinaja, Valles

References.--41, 47, 111, 119, 147, 301, 351, 373, 374, 411, 458, 460, 462, 545, 587, 592, 628, 645, 692.

Species.--149, 163, 176, 186, 281, 369, 549, 606, 770.

Sotano de Tlamaya, Xilitla

References.--41, 42, 48, 240, 301, 547.

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Sotano del Toro, Valles

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Sotano de Yerbánis, Valles

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Caves (Chinacatera), Pericos

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Species.--848, 852, 911.

Cave (Monte Largo), Pericos

References.--180.

Species.--860, 893, 895, 911.

Cueva de la Chinacatera, Pericos

References.--31, 182, 662, 666.

Species.--860, 893, 894, 895.

Cueva de Don Christino, Mazatlán

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Cueva de Ventanas, Manzanillo

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Caves (Chinobampo), Chinobampo

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Cueva de Don Luis, Teapa

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Cueva del Escorpion, Teapa

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Cueva del Rancho El Azufre, Teapa

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Species.--798, 810, 814.

Cave (El Carrizo), 70 km. S Victoria

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- Caves (Gómez Farías), Gómez Farías
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- Cave (Río Sabinas), El Encino
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- Cueva de la Capilla, Gómez Farías
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814.
- Cueva de los Cuarteles, Aldama
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- Cueva La Mula, Joya Verde
References.--15.
Species.--848, 860, 877.
- Cueva del Nacimiento del Río Frío, Gomez Farias
Synonyms.--Cueva del Río Frío
References.--546.
Species.--248, 386, 401, 480.
- Cueva del Nacimiento del Río Mante, Mante
References.--637.
Species.--732.
- Cueva de El Pachón, El Pachón
References.--11, 12, 13, 15, 38, 47, 84, 87, 88, 94, 106, 111, 119,
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605, 628, 629, 631, 634, 635, 636, 643, 645, 648, 682, 692, 693,
694, 695, 710.
Species.--123, 149, 163, 432, 679, 768, 807, 813, 829, 848, 850,
863, 870, 880, 895, 915.
- Sotano de los Pinos, Gomez Farias
Synonyms.--Sotano de las Piñas
References.--301, 546.
Species.--580.
- Grutas de El Puente, Ocampo
References.--15, 270.
Species.--905.
- Grutas de Quintero, Quintero
References.--15, 56, 87, 156, 292, 314, 413, 418, 447, 470, 475, 532,
545, 561, 562, 567, 568, 570, 574, 576, 643, 645, 652, 661, 666,
670, 674, 687.
Species.--123, 148, 149, 163, 176, 204, 210, 226, 251, 338, 411, 848,
850, 863, 870, 871, 880, 889, 892, 900.
- Cueva del Rancho del Cielo n. 3, Gómez Farias
References.--145, 394, 537, 546.
Species.--366, 375, 385, 414, 581.
- Cueva del Rancho del Cielo n. 7, Gómez Farias
References.--145, 394, 537, 546.
Species.--366, 375, 380, 385, 414.
- Cueva de la Sepultura, Victoria
References.--15, 413, 549, 666, 672.
Species.--322, 848, 850.

- Cueva de los Troncones, Victoria
References.--15, 26, 666, 670.
Species.--7, 848, 876, 892, 893, 895.
- Sotano de El Venadito, Antiguo Morelos
References.--455, 532, 542, 545.
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- Wet Cave, Gómez Farías
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- Underground water conduits (Tlaxcala), Tlaxcala
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- Cave (Tlaxcala), Tlaxcala
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- Cave (Fortín), Fortín
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- Volcanic caves (Jalapa), Jalapa
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- Caves (Jesús Carranza), Jesús Carranza
References.--199, 285.
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- Cave (Limon), Limón
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- Cave (Metlac), Metlac
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References.--285.
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- Caves (Puente Nacional), Puente Nacional
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- Cave (San Juan de la Punta), San Juan de la Punta
References.--285.
Species.--848, 852.

- Cave (Tlacotepec), Tlacotepec
References.--199, 285, 659.
Species.--881, 890.
- Cave (Totutla), Totutla
References.--285.
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- Cave (Tuxpilla), Tuxpan
References.--422.
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- Cave (Las Vigas), Las Vigas
References.--205, 213, 285, 342, 666, 685, 686.
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- Cave (Zacualpilla), Zacualpilla
References.--285.
Species.--913.
- Grutas de Atoyac, Atoyac
References.--81, 83, 142, 159, 160, 161, 167, 177, 199, 244, 285, 394,
413, 471, 474, 475, 490, 643, 656, 666, 706.
Species.--157, 163, 260, 287, 357, 364, 368, 373, 388, 419, 430, 440,
476, 848, 850, 851.
- Cueva del Boquerón, San Andres Tuxtla
References.--192, 199, 278, 285, 666.
Species.--848, 863, 876, 880, 892, 893, 894, 895.
- Cueva del Carbón, Tequila
References.--645.
Species.--165.
- Cueva de Cuautlapa, Cuautlapa
References.--621.
Species.--900.
- Cueva del Infiernillo, Jalapa
References.--342, 686.
Species.--863, 892, 893, 895.
- Cuevas de Laguna Encantada, San Andres Tuxtla
References.--209, 320, 666.
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- Cueva de los Murciélagos, Tlapacoyan
References.--666.
Species.--848.
- Cueva de Ojo de Agua de Tlilapan, Orizaba
References.--453.
Species.--191.
- Cueva de Ojo de Agua Grande, Potrero Viejo
References.--197, 285, 310, 327, 471, 475, 561, 563, 566, 567, 570, 571,
574, 644, 645, 646, 656, 675, 676.
Species.--133, 165, 171, 181, 848, 850, 870.
- Cueva de la Pesca, Potrero
References.--285, 292, 413, 656, 666.
Species.--848, 870.
- Cueva de la Presa, Orizaba
References.--666, 670.
Species.--892.

- Sotano del Profesor, Tequila
 References.--40, 41, 42, 44, 299.
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- Cueva de Sala de Agua Grande, Yanga
 References.--285.
 Species.--870.
- Cueva del Tigre, Tuxpan
 References.--292, 666.
 Species.--870.
- Cuevas de Tilapa, Tilapa
 References.--621.
 Species.--863, 892, 900.
- Cueva de Tuxpango, Tuxpango
 References.--621.
 Species.--900.
- Grotte de Xilapa, Pico de Orizaba
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 References.--427, 603.
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- Cave (Chochola), Chochola
 References.--345.
 Species.--870.
- Cenote (Calle 24, No. 97, Mérida), Mérida
 References.--666.
 Species.--848.
- Cave (Muna), Muna
 References.--5, 140.
 Species.--784, 791.
- Well (Iron mill at Oxkutzcab), Oxkutzcab
 References.--190.
 Species.--177.
- Cave (Hacienda San Bernardo), San Bernardo
 References.--393, 394, 475.
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- Cave (Santa Cruz), Santa Cruz
 References.--25.
 Species.--841.
- Cave (Hacienda Tabí), Tabí
 References.--61, 517.
 Species.--753, 757.

Cenote (Talcha), Talcha

References.--63.

Species.--731.

Cave (Ticul), Ticul

References.--251.

Species.--522.

Cenote (Tixpehual), Tixpehual

References.--666.

Species.--891.

Cenote (Tizimín), Tizimín

References.--220.

Species.--818.

Cave (Yocat), Yocat

References.--295.

Species.--680, 870.

Cueva Amil, Mérida

References.--189, 190, 325, 326, 500, 649.

Species.--144, 184.

Cueva de Balaam Canché, Chichén-Itzá

Synonyms.--Cueva Bolonchen

References.--5, 62, 63, 134, 140, 154, 156, 164, 165, 166, 186, 189, 190, 215, 235, 239, 244, 276, 315, 320, 325, 326, 333, 335, 417, 444, 471, 475, 495, 499, 500, 501, 502, 516, 542, 576, 597, 607, 620, 629, 643, 674, 688, 690, 697, 698, 703.

Species.--5, 23, 26, 52, 53, 55, 60, 61, 74, 90, 96, 98, 113, 142, 159, 167, 177, 183, 184, 206, 211, 235, 260, 262, 273, 295, 310, 313, 315, 316, 343, 429, 478, 483, 507, 584, 591, 609, 615, 617, 625, 637, 639, 648, 649, 651, 653, 655, 656, 657, 674, 679, 688, 691, 700, 709, 722, 730, 734, 740, 741, 745, 755, 757, 784, 863, 917, 921.

Cenote de Escuela Carlos Morales, Mérida

References.--339, 417, 494, 500, 697.

Species.--98, 99, 132, 316, 506, 628.

Cueva de Carroza, Hoctún

References.--138, 601.

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Cueva de Caxcuy

References.--138.

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Cueva Chac Mol, Tohil

References.--63, 164, 165, 190, 320, 325, 326, 333, 475, 499, 500, 501, 690.

Species.--144, 155, 177, 184, 209, 211, 239, 249, 312, 478, 483, 576, 600, 624, 632, 642, 645, 666, 686, 689, 709, 742, 917, 922.

Cueva Chakxix, Tekax

References.--33, 165, 238, 298, 315, 333, 499, 500, 501, 604, 688.

Species.--239, 344, 347, 478, 528, 616, 633, 672, 827, 854, 870.

Cenote Chapultepec, Mérida

References.--13, 215, 334, 339, 494, 500, 664, 666, 696.

Species.--450, 506, 627, 769, 783, 785, 879.

Cenote Chiuok, Hacienda Mukuyche

References.--215, 334.

Species.--776, 779.

Cenote Chotch, Pisté

References.--62, 215, 334, 339, 384, 417, 495, 496, 500, 696, 697.

Species.--94, 105, 309, 450, 463, 464, 496, 506, 635, 722, 733, 757, 761, 776.

Cueva del Cinco de Mayo, Tekax

References.--138, 165, 254, 298, 315, 333, 475, 499, 500, 501, 688, 690, 703.

Species.--4, 349, 469, 471, 478, 498, 519, 583, 602, 604, 616, 647, 672, 680, 689, 696, 705, 706, 718, 870, 906.

Cenote Ciruak, Pisté

References.--215, 334, 339, 468, 495, 500, 696, 697.

Species.--44, 53, 80, 87, 98, 99, 101, 104, 105, 450, 506, 635, 776.

Cenote Conchita, Mérida

References.--215, 235, 334, 500, 696, 697.

Species.--95, 118, 457, 787.

Cenote del Country Club, Mérida

References.--62, 121, 417, 494, 500, 696, 697.

Species.--65, 94, 96, 98, 352, 457, 630, 743.

Cueva Coyok, Oxtutzcab

References.--295.

Species.--870.

Cenote Dzadz, Chichén Itzá

References.--203, 249, 500, 696.

Species.--461, 569.

Cueva Ebizt, Oxtutzcab

References.--33, 63, 138, 164, 165, 166, 298, 315, 333, 499, 500, 501.

Species.--46, 57, 211, 254, 471, 478, 528, 613, 615, 652, 672, 680, 722, 727, 730, 745, 747, 749, 752, 757, 846, 857, 870, 903, 920, 923.

Cenote Geiser, Mérida

References.--215, 334, 339, 417, 696, 697.

Species.--94, 98, 101, 316, 464, 506, 775.

Cueva Gongora, Oxtutzcab

References.--63, 149, 152, 157, 164, 165, 166, 190, 238, 239, 325, 326, 333, 394, 444, 475, 499, 500, 516, 604, 620, 689, 690.

Species.--34, 51, 68, 144, 184, 194, 209, 211, 239, 249, 262, 379, 393, 402, 422, 425, 478, 527, 530, 616, 623, 654, 655, 657, 667, 689, 698, 708, 715, 722, 725, 730, 741, 756, 826.

Cueva de Gorgosa, Oxtutzcab

References.--142, 471, 475.

Species.--159.

Aguada Halal, Merida

References.--235, 475.

Species.--119.

Cenote, Halal, Mérida

References.--215, 237, 334, 495, 697.

Species.--98, 637, 776, 779, 802.

Cueva Has, Yocat

References.--61, 296.

Species.--730, 738, 750, 752.

Cueva de Hoctún, Hoctún

References.--63, 85, 138, 149, 157, 162, 164, 165, 190, 215, 239, 244, 315, 320, 325, 326, 333, 335, 394, 439, 471, 475, 499, 500, 501, 502, 516, 629.

- Species.--75, 93, 98, 152, 155, 170, 177, 183, 184, 211, 260, 290, 378, 390, 402, 404, 408, 437, 478, 580, 581, 582, 585, 617, 643, 652, 657, 679, 680, 741, 791, 848, 863.
- Cenote Hotún, Pisté
References.--215, 334, 495, 696, 697.
Species.--53, 97, 454, 776.
- Cenote Huntún, Pisté
References.--215, 235, 334, 339, 495, 496, 696, 697.
Species.--24, 53, 94, 105, 113, 450, 459, 506, 776.
- Cenote de Humucma, Humucma
References.--666.
Species.--870, 906.
- Cenote Ixil, Chichén Itzá
References.--37, 62, 184, 189, 215, 235, 334, 335, 339, 471, 495, 496, 500, 651, 696, 697.
Species.--24, 88, 96, 98, 105, 113, 154, 175, 450, 508, 511, 513, 729, 750, 757, 760, 776, 840.
- Cueva de Ixtacumbilxunan, Ixtacumbilxunan
References.--7, 252.
Species.--7.
- Cueva Jih, Yocat
References.--295.
Species.--670, 684, 850.
- Cueva de Kaua, Kaua
References.--63, 79, 152, 157, 164, 165, 166, 190, 298, 299, 333, 335, 394, 475, 499, 500, 501, 590, 620.
Species.--19, 24, 53, 144, 177, 195, 209, 211, 254, 273, 332, 384, 469, 478, 519, 533, 539, 576, 613, 619, 634, 637, 689, 692, 727, 730, 741, 750, 756, 775, 870.
- Cenote de Kaua, Kaua
References.--61.
Species.--723.
- Cueva Lara, Yocat
References.--295, 296.
Species.--681, 727, 730, 752, 760, 906.
- Cueva de Loltún, Oxkutzcab
References.--63, 164, 165, 166, 238, 295, 298, 320, 333, 344, 475, 499, 500, 501, 666, 688.
Species.--17, 42, 190, 211, 218, 241, 254, 255, 269, 312, 478, 634, 637, 638, 657, 689, 720, 727, 730, 745, 748, 752, 756, 757, 760, 824, 854, 870.
- Cueva Luchil, Hacienda Tixcacal
References.--63, 97, 157, 165, 166, 190, 215, 237, 333, 334, 335, 394, 475, 495, 499, 500, 502, 688, 689, 697.
Species.--45, 53, 93, 94, 98, 99, 100, 103, 177, 239, 324, 393, 402, 407, 483, 617, 637, 643, 653, 657, 667, 698, 725, 776, 778, 803.
- Cenote Manzanilla, Mérida
References.--215, 334, 339, 417, 495, 696, 697.
Species.--97, 305, 316, 466, 506, 779, 782, 783.
- Cenote de Miramar, Tlacha
References.--215, 237.
Species.--779, 815.

- Cenote Mukuyche, Hacienda Mukuyche
References.--215, 334, 494, 495, 697.
Species.--94, 313, 630, 776, 779.
- Cueva Muruztún, Tizimín
References.--63, 149, 157, 164, 165, 239, 333, 394, 444, 475, 499, 500, 501, 516, 690.
Species.--74, 211, 227, 239, 392, 409, 422, 425, 478, 595, 637, 657, 699, 709, 741, 863, 880.
- Cenote Niagra, Mérida
References.--235, 334, 339, 340, 417, 475, 494, 500, 697.
Species.--97, 111, 316, 504, 505, 627, 783.
- Cenote Olivut
References.--417.
Species.--316.
- Cueva Oxkintok, Calcehtok
References.--286, 292, 295.
Species.--870.
- Cueva de Oxkutzcab, Oxkutzcab
References.--313.
Species.--870.
- Cueva Oxolodt, Kaua
References.--157, 164, 165, 186, 190, 315, 333, 335, 475, 499, 500, 501, 542, 688.
Species.--177, 211, 237, 260, 273, 343, 392, 478, 483, 615, 617, 653, 654, 655, 656, 670, 775, 850.
- Cenote Pamanche, Mérida
References.--185, 364.
Species.--805.
- Grutas de Pichjabin, Muna
References.--257.
Species.--7.
- Cenote Pisté, Pisté
References.--215, 334, 366, 417, 468, 495, 500, 696, 697.
Species.--53, 80, 89, 97, 319, 464, 776, 840, 841.
- Cenote del Pochote, Tizimín
References.--138, 326, 568, 607.
Species.--144, 183, 184, 784, 791.
- Cueva El Ponte
References.--475.
Species.--183.
- Cueva Puz, Oxkutzcab
References.--33, 63, 149, 157, 164, 165, 166, 190, 238, 298, 315, 333, 394, 471, 499, 500, 501, 516, 604, 688, 689, 690.
Species.--50, 51, 56, 71, 159, 211, 240, 254, 312, 379, 469, 471, 478, 520, 528, 616, 637, 672, 680, 689, 694, 698, 705, 715, 717, 730, 826, 827, 870.
- Cueva de Sabacá, Tekax
References.--5, 138, 140, 154, 156, 157, 163, 164, 165, 167, 186, 264, 268, 298, 320, 333, 344, 394, 475, 499, 500, 501.
Species.--18, 205, 209, 211, 231, 254, 273, 276, 295, 372, 376, 395, 473, 478, 563, 585, 602, 654, 665, 870.

Cueva de Sambulhá (Mérida), Mérida

References.--33, 63, 157, 164, 165, 166, 215, 335, 469, 475, 499, 500, 502, 516, 689, 690.

Species.--53, 81, 93, 98, 209, 211, 234, 246, 254, 257, 402, 528, 577, 719, 721, 739, 775, 788.

Cueva de Sambulhá (Motul), Motul

References.--63, 152, 157, 162, 164, 165, 189, 190, 215, 315, 320, 325, 326, 333, 334, 335, 394, 414, 440, 444, 468, 469, 471, 475, 495, 499, 500, 502, 575, 597, 649, 688, 690, 696, 697.

Species.--25, 35, 44, 53, 67, 78, 80, 81, 86, 93, 96, 98, 144, 155, 159, 167, 177, 184, 195, 211, 223, 306, 313, 322, 353, 396, 402, 422, 425, 446, 457, 478, 530, 573, 585, 665, 667, 684, 689, 693, 698, 702, 711, 712, 713, 714, 752, 775, 848.

Cueva San Isidro, Mérida

References.--63, 149, 157, 164, 165, 166, 189, 190, 215, 239, 325, 326, 333, 334, 335, 394, 475, 499, 500, 502, 516, 649, 674, 688, 690, 703.

Species.--1, 2, 3, 19, 53, 68, 71, 93, 94, 98, 99, 144, 155, 177, 184, 209, 211, 222, 304, 343, 376, 391, 393, 402, 478, 483, 498, 526, 695, 704, 714, 715, 741, 778.

Cueva del Camino de San Roque n. 1, Oxkutzcab

References.--152, 165, 190, 238, 239, 333, 499, 500, 516.

Species.--50, 71, 159, 201, 219, 288, 471, 478, 520, 613, 827.

Cueva del Camino de San Roque n. 2, Oxkutzcab

References.--33, 63, 114, 320, 444, 471, 475, 499, 500, 501, 581, 688, 690.

Species.--50, 312, 313, 334, 347, 422, 425, 521, 528, 575, 594, 613, 650, 655, 662, 668, 687, 689, 705, 707, 730, 757, 854, 870.

Cenote Santa Ana, Valladolid

References.--62, 189, 203, 215, 334, 339, 413, 417, 500, 666, 696, 697.

Species.--98, 105, 175, 327, 352, 453, 457, 508, 509, 510, 515, 587, 725, 762, 776, 848.

Cueva Santa Elena, Telchak

References.--62, 85, 189, 190, 235, 326, 417, 475, 495, 500, 649, 697.

Species.--94, 109, 128, 144, 183, 316, 437, 439, 637, 641, 722, 730, 805.

Cueva Sazich, Calcehtok

References.--63, 79, 149, 157, 164, 190, 299, 333, 394, 444, 471, 475, 499, 500, 516, 688.

Species.--75, 159, 209, 350, 377, 393, 428, 478, 533, 539, 616, 629, 634, 635, 636, 637, 643, 647, 689, 716, 766.

Cenote Scan Yui, Chichén Itzá

References.--62, 203, 215, 237, 334, 339, 414, 417, 495, 496, 500, 696, 697.

Species.--25, 53, 83, 97, 105, 130, 298, 305, 351, 450, 506, 514, 572, 727, 729, 730, 747, 752, 755, 775, 776, 817.

Cenote Seco, Chichén Itzá

References.--220, 243, 295, 389, 639.

Species.--254, 267, 792, 827, 834, 917, 919.

Cenote Segrada, Chichén Itzá

References.--37, 60, 222, 334, 335, 364, 496, 500.

Species.--777, 789, 802, 815, 816, 817, 831.

Cenote Sisal, Valladolid

References.--215, 334, 495, 500, 697.

Species.--98, 105, 776.

Cenote Sodzil, Mérida

References.--215, 334, 496.

Species.--776.

Cueva Spukil, Calcehtok

References.--157, 164, 165, 190, 295, 298, 315, 325, 326, 333, 390, 391, 394, 443, 471, 475, 491, 500, 568, 666, 688, 690.

Species.--144, 155, 159, 184, 211, 266, 315, 377, 393, 397, 402, 420, 471, 478, 500, 563, 608, 617, 654, 657, 665, 680, 712, 848, 854, 880, 889.

Cenote de Thompson, Chichén Itzá

References.--62, 237, 333, 339, 500, 697.

Species.--94, 478, 497, 513, 524, 730, 804, 828.

Cenote Tikimul, Chichén Itzá

References.--215, 334, 468.

Species.--80, 776.

Cueva Tuz-ic, Calcehtok

References.--286, 298, 443, 666.

Species.--891.

Cenote Uki, Motul

References.--62, 215, 235, 334, 339, 500, 696, 697.

Species.--94, 98, 112, 457, 464, 494, 506, 514, 525, 725, 730, 755, 775.

Cueva Valladolid, Valladolid

References.--641.

Species.--499, 860.

Cenote Xal, Chichén Itzá

References.--62.

Species.--730.

Cenote Chica de Xanabá, Chichén Itzá

References.--215, 334, 495, 496, 500, 697.

Species.--53, 82, 98, 99, 105, 506, 776.

Cenote Grande de Xanabá, Chichén Itzá

References.--62, 189, 203, 215, 235, 334, 339, 417, 468, 475, 481, 495, 500, 569, 696, 697.

Species.--15, 24, 79, 94, 96, 98, 99, 105, 117, 127, 128, 129, 175, 298, 327, 352, 449, 456, 497, 503, 514, 516, 569, 571, 572, 574, 589, 733, 736, 776.

Cueva Xconsacab, Tizimín

References.--164, 190, 315, 326, 333, 499, 500, 501, 502, 620, 690, 703.

Species.--1, 2, 3, 6, 22, 93, 98, 144, 177, 184, 211, 478, 585, 616, 637, 643, 644, 670, 671, 701, 848, 889.

Cenote Xix, Valladolid

References.--235, 475, 500, 697.

Species.--51, 98, 113, 115, 128.

Cueva Xkyc, Calcehtok

References.--63, 152, 157, 164, 165, 166, 169, 238, 333, 394, 444, 475, 499, 500, 501, 604, 688, 689, 690.

Species.--47, 194, 209, 211, 223, 225, 240, 254, 343, 377, 429, 478, 502, 530, 596, 613, 622, 689, 698, 741, 756, 826, 880.

Cenote Xlaka, Mérida

References.--203, 215, 235, 334, 475, 500, 696, 697.

Species.--99, 116, 120, 449, 450, 452, 454, 456, 457, 458, 459, 460, 462, 466, 586, 769, 779, 783, 790.

Cueva Xmahit, Tekax

References.--134, 157, 164, 165, 166, 315, 333, 394, 475, 499, 500, 501, 579, 620.

Species.--22, 62, 211, 229, 243, 379, 468, 478, 670, 680, 889.

Cenote Xtolok, Chichén Itzá

References.--21, 25, 33, 37, 60, 61, 62, 121, 164, 165, 203, 215, 237, 243, 281, 295, 315, 320, 333, 334, 335, 339, 345, 385, 414, 417, 468, 475, 495, 496, 499, 500, 501, 507, 639, 688, 696, 699, 703.

Species.--1, 2, 3, 6, 15, 20, 24, 32, 43, 48, 49, 58, 64, 65, 77, 94, 96, 98, 99, 128, 131, 209, 211, 220, 239, 254, 256, 288, 295, 310, 312, 449, 450, 451, 454, 455, 456, 457, 465, 466, 471, 478, 483, 491, 495, 497, 503, 504, 511, 512, 514, 528, 569, 570, 572, 578, 590, 634, 637, 640, 642, 646, 647, 670, 671, 684, 723, 727, 730, 733, 735, 737, 748, 752, 763, 777, 789, 802, 803, 815, 821, 828, 830, 848, 917, 919.

Cueva Yunchén, Libre Unión

References.--190, 236, 325, 326, 444, 475, 499, 500, 502.

Species.--93, 98, 110, 177, 184, 313, 423, 426, 588, 632, 634, 637.

Cenote Yuncú, Mérida

References.--215, 235, 237, 334, 417, 495, 500, 697.

Species.--92, 113, 125, 295, 319, 627, 776, 803, 834.

Cueva Ziz, Oxkutzcab

References.--63, 157, 164, 165, 166, 190, 238, 333, 394, 475, 499, 500, 604, 689, 690.

Species.--155, 211, 240, 254, 402, 410, 478, 567, 613, 616, 626, 698, 741, 826.

ZACATECAS

Cave (Sierra de Valparaíso), Valparaíso

References.--291.

Species.--913.