

## A checklist of the reptiles and amphibians of Guerrero, México

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**Resumen.** En la zona sur de México es alta la diversidad alta de anfibios y reptiles. El estado de Guerrero ocupa una parte considerable de esta área en la que se han registrado 231 taxa, de los cuales 48 (21%) son endémicos. La región fisiográfica de la Sierra Madre del Sur posee la mayor diversidad de anfibios y reptiles del estado. En la siguiente lista anotada se incluyen cinco nuevos registros estatales.

Palabras clave: herpetofauna, lista anotada, diversidad, riqueza regional, Sierra Madre del Sur, Guerrero, endemidad.

**Abstract.** A great diversity of reptiles and amphibians exist in southern México. The state of Guerrero spans a large portion of this zone and has 231 taxa, 48 (21%) of which are endemic. Physiographically, the Sierra Madre del Sur contains the highest diversity of reptiles and amphibians. The following checklist of reptiles and amphibians of Guerrero include five new state records.

Key words: herpetofauna, checklist, diversity, regional richness, Sierra Madre del Sur, Guerrero, endemism.

The biological diversity of reptiles and amphibians in México, known and respected by the ancient American civilizations, is presently barely appreciated as a heritage to be known, handled and preserved. The herpetological fauna of México includes 1165 species and subspecies (Flores-Villela 1993a). They are mainly distributed in the inter-tropical zone to the southern zone of the country. Four states of this region (Oaxaca, Chiapas, Veracruz and Guerrero), are important because of their richness in vegetation and animal diversity. As for amphibians and reptiles, Oaxaca

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has 397 species (Casas-Andreu 1996), Chiapas 326 (Álvarez del Toro *et al.* 1993, Luna-Reyes 1997), and Veracruz 293 species (Pelcastre-Villafuerte & Flores-Villela 1992); Guerrero has been reported to have 168 forms (Smith & Taylor 1966).

Reliable faunal records for different communities are lacking, and more importantly, good checklists of the habitats in two great zoogeographical regions, the Nearctic and the Neotropical, are needed. Both regions occur in Guerrero, ranked fourth in the country in terms of herpetological diversity (Smith & Taylor 1966).

Guerrero has no elevations higher than 4000 m above sea level. It consists of broad plains and lowlands with soils types and ecosystems that include extreme environmental conditions. The environmental heterogeneity is a remarkable feature, even if cold or very wet desertic conditions are not predominant. Each area has its own particular association of fauna and vegetation that exemplify the biological diversity of México.

Studies of reptiles and amphibians in Guerrero have gone through several stages. Bonnaterre (1789) described *Bipes canaliculatus* in the first scientific investigation of the state's vertebrates, (in México, *Iguana iguana* in 1758 by Linnaeus was earlier). This important taxonomic stage ends with the work of Smith & Taylor (1966) where the total number of species and subspecies and their general geographic distribution in the state was established.

Among the early herpetological works of the state that incorporate taxonomic matters and that focus on ecological and distributional aspects are: Gadow (1905), with a general view and Davis & Dixon (1959, 1961, and 1964), which included the reptiles and amphibians from the vicinity of Chilpancingo.

Since then and to the present, there have been relevant and valuable herpetological contributions in the fields of systematics, ecology, and biogeography; for instance Adler (1965), Adler & Dennis (1972), Snyder (1972), Smith & Savitzky (1974), Myers & Campbell (1981), Papenfuss, Wake & Adler (1983), Savage (1984), Hillis, Frost & Webb (1984), Sánchez & López-Forment (1987), Pérez-Ramos & Saldaña de la Riva (1989), Saldaña de la Riva & Pérez-Ramos (1989), Campbell & Frost (1993), Mendelson & Campbell (1994), Mendelson & Toal (1996), Adler (1996), Hanken *et al.* (in press), and Pérez-Ramos, Saldaña de la Riva & Campbell (in press). Other papers emphasize collections at several localities, such as Porter (1963), Smith & Smith (1977, 1979), Flores-Villela & Hernández-García (1989), Flores-Villela & Muñoz-Alonso (1993), and Köhler (1995).

Other recent works have dealt with the comprehensive study of the herpetofauna of Guerrero, Omitlemi and Taxco areas: Saldaña de la Riva & Pérez-Ramos (1987); Muñoz-Alonso (1988) and Hernández-García (1989), respectively.

Other studies have provided information on the distribution of some species. These include Taylor (1933a, 1933b, 1936a, 1936b, and 1937); Shannon (1951); Holman (1964); Liner & Dundee (1969), and Duellman (1960).

The present study attempts to answer the following questions: Which and how many species and subspecies of reptiles and amphibians are found in Guerrero?, which of these are endemic to the state?, and which is the region with the greatest

diversity of amphibians and reptiles? We also aim to provide a thorough review of the herpetological richness of the state.

### **Study area**

The state of Guerrero is located in southern México between  $16^{\circ} 19' N$  to  $18^{\circ} 52' N$  and  $98^{\circ} 02' W$  to  $102^{\circ} 12' W$  (Fig. 1). It is bordered by the Trans-Mexican Volcanic Belt (TMVB) to the north. It includes the northwestern part of the Sierra Madre del Sur (SMS), most of the basin of the Río Balsas (RBB), and a portion of the Pacific Coastal Plain (PCP). It has a total area of  $63675 \text{ km}^2$  (García & Falcón 1979; Figueroa-de Contin 1980). According to Rzedowski (1978), the vegetation in the state includes the following primary associations: tropical deciduous forest, arid tropical scrub, and thorn forest, coniferous forest (part), and pine and/or oak forest; cloud forest, savannah and mangroves.

There are six soil types in the state: inceptisol, ultisol, alfisol, vertisol, mollisol, and entisol (Figueroa-de Contin 1980). Hydrographically, the Balsas river serves as the axis for tributaries towards the Pacific ocean. Most of the rivers of the southern flank of the SMS contribute to the formation of large lagoons such as Potosí, Nuxco, del Tular, Mitla, Coyuca, Tres Palos, Tecomate, and Chautengo. Two important lakes, Tuxpan and Tixtla, are found in Guerrero (García & Falcón 1979).

The state has an heterogeneous environment, with miscellaneous climatic conditions. The common factor in the great diversity of climates in the state is the summer rainy season (June, July, August, and September). The general climate of Guerrero is warm with an annual mean high temperature of  $22^{\circ}\text{C}$ . On the mountains the lowest temperatures recorded during the colder months reach values below  $18^{\circ}\text{C}$ . Humidity varies between 600-2500 mm annual total precipitation (Dirección de Estudios del Territorio Nacional 1970; Secretaría de Programación y Presupuesto 1981; García 1981).

### **Methodology**

During the 1974-1981 period, 86 localities in Guerrero were visited (Appendix 1). The localities were selected according to their location and environmental characteristics. An important criterium for their selection was to choose remote or barely collected sites of amphibians and reptiles from every physiographic region of the state. Climatic conditions for each locality were recorded from the literature. The distance of the sites to paved roads, towns and populated areas was also recorded (Fig. 1).

Field work consisted of 10 to 15 days trips. Three to four localities per trip were visited with a maximum stay of four days but no less than two days at each locality. The collecting period was mostly during the daytime, although nighttime collecting

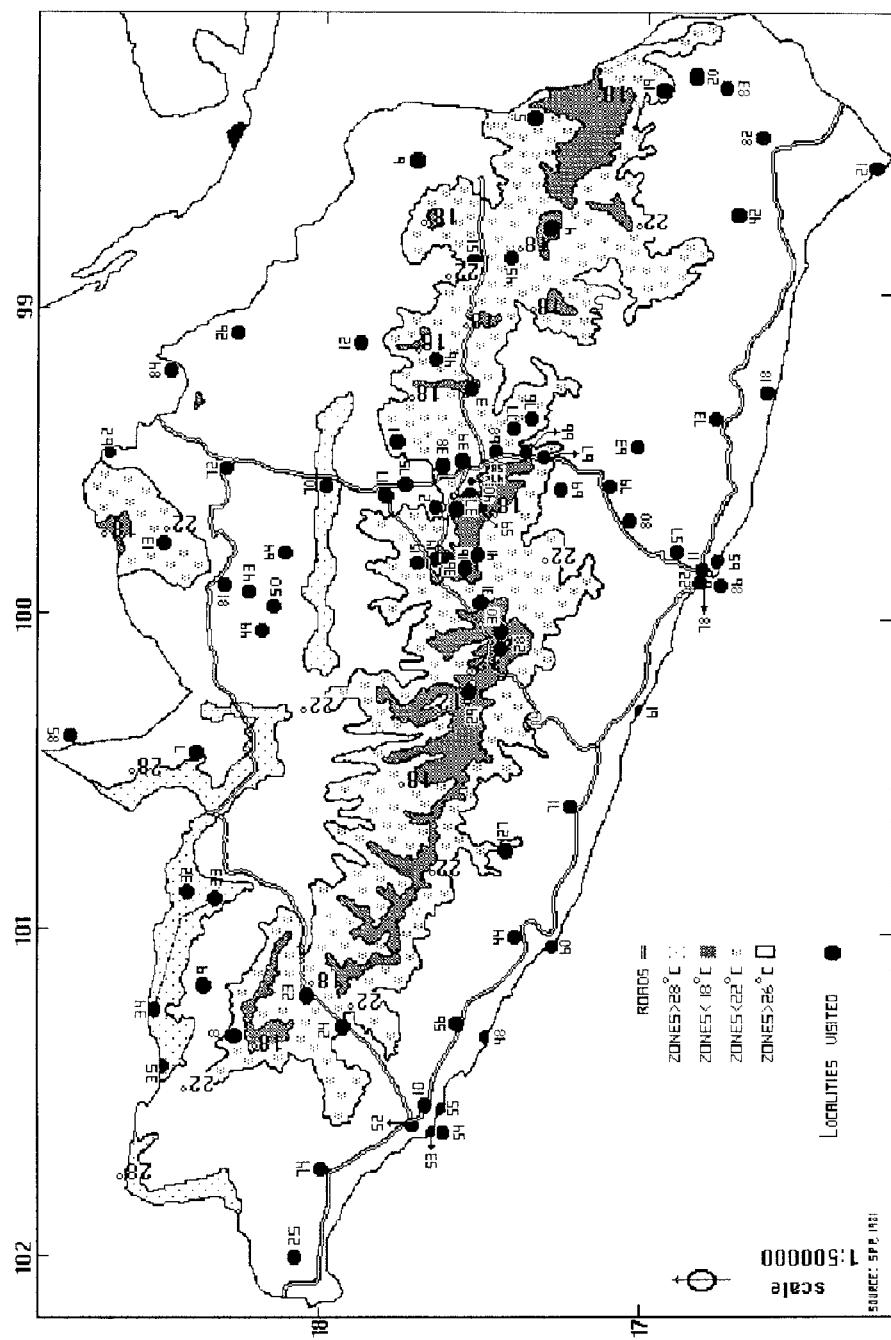


Fig. 1. Localities sampled in Guerrero (for numbers see Appendix 1).

was also carried out. The procedures of collection such as capture and preservation followed suggestions by Knudsen (1972), Pisani & Villa (1974), and Gaviño de la Torre, Juárez & Figueroa (1980). The following data were recorded for each specimen: sample number, date, locality, sex, body and tail lengths, weight, collection time, altitude, habitat and microhabitat at point of capture. The specimens were identified to species-subspecies following Davis (1954), Zweifel (1954), Duellman (1970), Duellman & Wellman (1960), Duellman & Zweifel (1962), Dixon (1964), Smith & Taylor (1966), Lynch (1968, 1970a and 1970b), Smith (1972), Smith & Smith (1977, 1979), Campbell & Lamar (1989), Williams (1994), and Rossman, Ford & Seigel (1996).

#### *Checklist of the herpetological fauna*

In addition to the specimens collected in the late 1970's, this checklist includes other specimens donated to the authors, plus a thorough search of specimens already present in national collections such as the Colección Herpetológica Nacional of the Instituto de Biología (IBH), Universidad Nacional Autónoma de México (UNAM); the collection of the Museo de Zoología "Alfonso L. Herrera" (MZFC), Facultad de Ciencias, UNAM; the collection of the Escuela Nacional de Ciencias Biológicas of the Instituto Politécnico Nacional (IPN); and the Dirección General de Fauna Silvestre of the Secretaría de Agricultura y Recursos Hídricos (SARH), recently integrated to the collection of the Instituto de Biología, UNAM. It is important to mention that the literature review covers to 1996, and some recent publications that add new state records are included in the list.

Due to the ambiguity of the nomenclature and related problems when dealing with *Ambystoma*, *Syrrhopus*, *Tomodactylus*, *Anolis*, *Enyaliosaurus*, *Sibon*, *Tropidodipsas*, *Ophryacus*, and *Porthidium*, identification of these amphibians and reptiles was carried out in a conservative manner. In most cases, scientific names, followed by the author's name and the year of original description were written following Smith & Smith (1993), but in some specific cases we followed Flores-Villela (1993b), and Duellman (1993). As to the synonymy of the species and subspecies treated here, we refer to Smith & Smith (1993). Likewise, the specific and subspecific names are sorted in alphabetic order, while the supraspecific taxa are arranged in phylogenetic order (Goin, Goin & Zug 1978; Flores-Villela 1993b).

## Results

#### *Richness of the herpetofauna*

The herpetological fauna known from Guerrero has increased 27% since the 168 forms recorded by Smith & Taylor (1966). Because of explorations to regions poorly known, the bibliographic review has been updated to include taxonomic and systematic studies on several groups of amphibians and reptiles.

Presently, eight groups of amphibians and reptiles occur in Guerrero. There are 231 species and subspecies in the state, representing 20% of the total Mexican

herpetofauna. Seventy taxa are amphibians and 161 taxa are reptiles (Table 2). The herpetofauna of Guerrero includes 70% of the existing families of amphibians and reptiles in México. Together with the other three herpetofauna rich states of México (Chiapas, Oaxaca and Veracruz), it exceeds that of other Mexican or North American regions.

*Representativeness of the herpetofauna*

The amphibians and reptiles of Guerrero are not equally represented (Table 1). Of the eight groups of amphibians and reptiles, three contribute with ca. 90% of forms (frogs and toads, lizards and snakes; 24%, 29%, 36% respectively), while the five remaining groups contribute only 0.4 to 5.6% of the herpetofauna (Table 1).

Lizards and snakes (Squamata) are the most diverse groups, representing 93% of the total of Reptilia. The most conspicuous and diverse families are the snakes Leptotyphlopidae, Typhlopidae, Loxocemidae, Boidae, Colubridae, Elapidae and Viperidae, with 83 forms representing 51.5% of the reptiles. The lizard families Eublepharidae, Gekkonidae, Xantusiidae, Corytophanidae, Iguanidae, Polychrotidae, Phrynosomatidae, Anguinidae, Xenosauridae, Helodermatidae, Scincidae, and Teiidae have 67 forms, representing 41.6% of the reptiles; the rest correspond to three groups (turtles, amphisbaenians and crocodilians).

**Table 1.** Composition of the herpetofauna of Guerrero

Orders	Suborders	Families	Genera	Species	Subspecies	Total
Gymnophiona	-	1	1	1	-	1
Caudata	-	2	4	11	2	13
Salientia	-	8	19	49	7	56
Total of amphibians	-	11	24	61	9	70
Testudines						
Cryptodira	1	5	7	2	6	8
Squamata						
Amphisbaenia	1	1	1	2	-	2
Sauria	1	12	23	36	31	67
Serpentes	1	7	48	34	49	83
Crocodylia	-	1	1	1	-	1
Total of reptiles	4	26	80	75	86	161
Herpetofauna	4	37	104	136	95	231

Toads and frogs (Salientia), include 80% of the total of Amphibia; axolotls and salamanders (Caudata) contribute 19%, and the rest correspond to caecilians (Gymnophiona), represented only by *Dermophis oaxacae*. Here are included the families Rhinophrynidae, Microhylidae, Pelobatidae, Ranidae, Bufonidae, Centrolenidae, Hylidae, and Leptodactylidae with 56 forms representing 24% of the total.

Eight families of amphibians and reptiles stand out in the state by their diversity and relative abundance: Plethodontidae, Hylidae, Leptodactylidae, Polychrotidae, Phrynosomatidae, Teiidae, Colubridae, and Elapidae. Among them, the most important genera are *Pseudoeurycea*, *Hyla*, *Eleutherodactylus*, *Anolis*, *Sceloporus*, *Cnemidophorus*, *Leptodeira*, *Salvadora*, *Tantilla*, *Thamnophis*, and *Micrurus*.

Several new state records are here recorded, including: *Sceloporus m. melanorhinus*, *Cnemidophorus c. communis*, *C. lineatissimus lividus*, and *Leptotyphlops humilis*. Three specimens of a potentially new species of salamander were captured and are considered as *Pseudoeurycea* sp. (Pérez-Ramos and Saldaña de la Riva, unpublished).

#### *Endemic herpetofauna*

Forty-eight forms of amphibians and reptiles are presently known to be endemic to the state. These forms represent 21% of the herpetofauna of Guerrero. Reptiles comprise more than half of all endemics (25 forms; 52%); families Polychrotidae and Colubridae contribute six forms each. There are 23 forms of amphibians (48%). Families Plethodontidae and Leptodactylidae contribute ten and five forms, respectively (with an asterisk in the check-list). Adler (1996) and Hanken *et al.* (in press), emphasize the recent richness of plethodontid salamanders found in Guerrero.

#### *Regional herpetological richness*

Every physiographic region of Guerrero has its own herpetological fauna. The most diverse is the Sierra Madre del Sur (SMS) where 151 amphibian and reptilian taxa, representing 65% of the total herpetological forms of Guerrero occur. Most taxa are endemics; 69% (33 forms) of the endemics are found in the mountain zone, which may be indicative of speciation processes enhanced by the ecological-geographical isolation. The cause of this herpetofaunistic diversity in Guerrero has not been investigated thoroughly. Bojorquez *et al.* (1995) and Saldaña de la Riva & Pérez-Ramos (1989) had suggested, respectively, that the environmental variables and variety of habitats or climatic conditions, elevation and vegetation types probably contribute to the richness. For the moment, particularly to (SMS), we are adding that the most direct mechanism may be the unique set of physiographic features of the SMS in Guerrero, too. It is a range of mountains parallel to the Trans-Mexican Volcanic Belt that run along the coast of the Pacific ocean to influence drastically the distribution of the herpetofauna. The SMS is characterized by a rugged and sharp topography with a large number of isolated canyons ("barrancas"), where elevation changes from 1000 to 3700 m are common, producing a heterogeneous environment (temperature, precipitation and moisture variation) that allows development of different communities such as tropical deciduous, oak, pine-oak, coniferous and cloud forests, in addition to the slope-effect. However, the set of ecological conditions related to the amphibians and reptiles need to be reinterpreted with field data to produce a better understanding of the biogeography of these vertebrates in this geographically strategic area of México.

The knowledge on protection and conservation of the amphibians and reptiles of Guerrero is deficient. Immediate action is required to conduct field and experi-

mental works on the biology of this vertebrates; so far, less than 50% of the total herpetofauna of the state has some status of protection and conservation.

As stated before, the diversity of amphibians and reptiles in Guerrero is high, but new species and subspecies can still be found. Regions that remain unstudied are the eastern and western zones of the Taxco ranges, both the upper and lower basins of the Balsas; the mountain regions, both the western and eastern parts of the Sierra Madre del Sur, and the Costa Grande and the Costa Chica regions.

### **Checklist of amphibians and reptiles of Guerrero**

#### **CLASS AMPHIBIA**

##### **Order GYMNOPHIONA**

###### **Family CAECILIIDAE**

*Dermophis oaxacae* (Mertens) 1930<sup>3</sup> UC

##### **Order CAUDATA**

###### **Family AMBYSTOMATIDAE**

*Ambystoma rivulare* (Taylor) 1940<sup>3</sup> E

###### **Family PLETHODONTIDAE**

*Bolitoglossa hermosa* Papenfuss, Wake& Adler 1983<sup>3,4</sup> UC

*Pseudoeurycea ahuitzotl* Adler 1996<sup>3,4</sup>

*P. belli belli* (Gray) 1850<sup>2,3</sup> E

*P. cephalica cephalica* (Cope) 1865<sup>3</sup> E

*P. mixcoatl* Adler 1996<sup>3,4</sup>

*Pseudoeurycea* sp. "P.Aguila" Pérez-Ramos, Saldaña de la Riva  
(unpublished)

*P. tenchalli* Adler 1996<sup>3,4</sup>

*P. teotepet* Adler 1996<sup>3,4</sup>

*P. tlahcuiloh* Adler 1996<sup>3,4</sup>

*Thorius grandis* Hanken, Wake & Freeman (in press)

*T. infernalis* Hanken, Wake & Freeman (in press)

*T. omiltemi* Hanken, Wake & Freeman (in press)

##### **Order SALIENTIA**

###### **Family RHINOPHRYNIDAE**

*Rhinophryne dorsalis* Duméril & Bibron 1841<sup>1,2,3</sup> UC

###### **Family MICROHYLIDAE**

*Gastrophryne usta* (Cope) 1866<sup>1,2,3</sup> UC

*Hypopachus variolosus* (Cope) 1866<sup>2,3</sup>

###### **Family PELOBATIDAE**

*Spea multiplicata* Cope 1863<sup>1,2,3</sup>

###### **Family RANIDAE**

*Rana berlandieri* Baird 1854<sup>3</sup> SC

- R. forneri* Boulenger 1883<sup>1,2,3</sup> UC  
*R. omiltemana* Günther 1900<sup>2,3,4</sup> T  
*R. sierramadrensis* Taylor 1939<sup>1,3</sup> UC  
*R. zweifeli* Hillis, Frost & Webb, 1984<sup>1,2,3</sup>  
*Rana* sp. form "Arcelia" Hillis, Frost & Wright 1983<sup>3</sup>  
*Rana* sp. form "Papagayo" Hillis, Frost & Wright 1983<sup>3</sup>

## Family BUFONIDAE

- Bufo cycladen* Lynch & Smith 1966<sup>1,2,3</sup>  
*B. gemmifer* Taylor 1939<sup>1,2,3,4</sup> UC  
*B. marinus* (Linnaeus) 1758<sup>1,2,3</sup>  
*B. marmoreus* Wiegmann 1833<sup>1,2,3</sup>  
*B. occidentalis* Camerano 1879<sup>1,2,3</sup>  
*B. perplexus* Taylor 1943<sup>1,2,3</sup>

## Family CENTROLENIDAE

- Hyalinobatrachium fleischmanni* (Boettger) 1893<sup>3</sup>

## Family HYLIDAE

- Agalychnis moreleti* (Duméril) 1853<sup>3</sup>  
*Hyla arboricola* Taylor 1941<sup>1,2,3,4</sup>  
*H. arenicolor* Cope 1866<sup>1,2,3</sup>  
*H. bistincta* Cope 1877<sup>2,3</sup> UC  
*H. chrysos* Adler 1965<sup>1,3,4</sup> UC  
*H. eximia* Baird 1854<sup>2,3</sup>  
*H. juanitae* Snyder 1972<sup>3</sup> E  
*H. melanomma melanomma* Taylor 1940<sup>1,3</sup> UC  
*H. mykter* Adler & Dennis 1972<sup>3,4</sup> E  
*H. pentheter* Adler 1965<sup>3</sup>  
*H. pinorum* Taylor 1937<sup>2,3</sup> UC  
*H. sartori* Smith 1951<sup>1,3</sup> E  
*H. smithi* Boulenger 1902<sup>1,2,3</sup>  
*H. sumichrasti* (Brocchi) 1879<sup>3</sup>  
*H. trux* Adler & Dennis 1972<sup>3,4</sup> E  
*Pachymedusa dacnicolor* (Cope) 1864<sup>1,2,3</sup>  
*Phrynohyas venulosa* Laurenti 1768<sup>3</sup>  
*Ptychohyla erythromma* (Taylor) 1937<sup>3</sup> UC  
*P. leonhardschultzei* (Ahl) 1934<sup>3</sup>  
*Scinax staufferi staufferi* (Cope) 1865<sup>1,2,3</sup>  
*Smilisca baudini* (Duméril & Bibron) 1841<sup>1,2,3</sup>  
*Tripion spatulatus reticulatus* (Taylor) 1942<sup>1,2,3</sup>

## Family LEPTODACTYLIDAE

- Eleutherodactylus augusti cactorum* Taylor 1938<sup>1,3</sup>  
*E. guerrerensis* Lynch 1967<sup>1,2,3,4</sup> UC  
*E. hobartsmithi* (Taylor) 1936<sup>3</sup>  
*E. mexicanus* (Brocchi) 1879<sup>1,3</sup>  
*E. omiltemanus* (Günther) 1900<sup>1,3,4</sup> UC

- E. pygmaeus* Taylor 1936<sup>1,2,3</sup>  
*E. rugulosus* (Cope) 1869<sup>1,2,3</sup>  
*E. saltator* Taylor 1941<sup>1,2,3</sup> UC  
*E. uno* Savage 1984<sup>3,4</sup> UC  
*Leptodactylus labialis* (Cope) 1877<sup>3</sup>  
*L. melanotus* (Hallowell) 1860<sup>1,2,3</sup>  
*Syrrhophus pipilans pipilans* Taylor 1940<sup>1,2,3</sup>  
*Tomodactylus albolabris* Taylor 1943<sup>1,2,3,4</sup> UC  
*T. dilatus* (Davis & Dixon) 1955<sup>1,3,4</sup>  
*T. nitidus nitidus* (Peters) 1869<sup>1,3</sup>  
*T. nitidus petersi* (Duellman) 1954<sup>1,3</sup>

#### CLASS REPTILIA

##### Order TESTUDINES

###### Suborder CRYPTODIRA

###### Family BATAGURIDAE

- Rhinoclemmys pulcherrima pulcherrima* (Gray) 1855<sup>1,2,3</sup> E  
*R. rubida perixantha* (Mosimann & Rabb) 1953<sup>1,3</sup> UC

###### Family EMYDIDAE

- Trachemys scripta ornata* (Gray) 1831<sup>1,3</sup> SC

###### Family KINOSTERNIDAE

- Kinosternon integrum* (LeConte) 1854<sup>1,2,3</sup> SC

###### Family CHELONIIDAE

- Chelonia mydas agassizi* Bocourt 1868<sup>1,2</sup> T  
*Eretmochelys imbricata bissa* (Ruppell) 1835<sup>3</sup> T  
*Lepidochelys olivacea* (Eschscholtz) 1829<sup>1,2,3</sup> T

###### Family DERMOCHELYIDAE

- Dermochelys coriacea angusta* (Philippi) 1899<sup>3</sup> T

##### Order SQUAMATA

###### Suborder AMPHISBAENIA

###### Family AMPHISBAENIDAE

- Bipes canaliculatus* Bonnaterre 1789<sup>1,2,3</sup> UC  
*B. tridactylus* (Dugès) 1894<sup>1,3,4</sup> UC

###### Suborder SAURIA

###### Family EUBLEPHARIDAE

- Coleonyx elegans nemoralis* Klauber 1945<sup>2,3</sup> E

###### Family GEKKONIDAE

- Hemidactylus frenatus* Schlegel 1836<sup>1,2,3</sup>  
*Phyllodactylus bordai* Taylor 1942<sup>1,3</sup> UC  
*P. delcampoi* Mosauer 1936<sup>3,4</sup> UC

*P. lanei lanei* Smith 1935<sup>1,2,3</sup>

*P. tuberculosus magnus* Taylor 1942<sup>1,2,3</sup>

Family XANTUSIIDAE

*Lepidophyma smithi* Bocourt 1876<sup>1,2,3</sup> UC

Family CORYTOPHANIDAE

*Basiliscus vittatus* Wiegmann 1828<sup>1,2,3</sup>

Family IGUANIDAE

*Ctenosaura pectinata* (Wiegmann) 1834<sup>1,2,3</sup> E

*Enyaliosaurus clarki* (Bailey) 1928<sup>1,2,3</sup> E

*Iguana iguana* (Linnaeus) 1758<sup>2,3</sup> SC

Family POLYCHROTIDAE

*Anolis dunni* Smith 1936<sup>1,2,3</sup> UC

*A. gadovi* Boulenger 1905<sup>3,4</sup> UC

*A. liogaster* Boulenger 1905<sup>1,2,3,4</sup> UC

*A. megapholidotus* Smith 1933<sup>1,2,3,4</sup> UC

*A. microlepidotus* Davis 1954<sup>1,2,3</sup> UC

*A. nebulosus* (Wiegmann) 1834<sup>1,2,3</sup>

*A. omiltemanus* Davis 1954<sup>1,3,4</sup> UC

*A. subocularis* Davis 1954<sup>1,2,3,4</sup> UC

*A. taylori* Smith & Spieler 1945<sup>1,2,3,4</sup> UC

Family PHRYNOSOMATIDAE

*Phrynosoma asio* Cope 1864<sup>1,2,3</sup> UC

*P. taurus* Dugès 1868<sup>3</sup> E

*P. orbiculare* (Linnaeus) 1789<sup>2,3</sup> T

*Sceloporus adleri* Smith & Savitzky 1974<sup>1,2,3,4</sup> UC

*S. aeneus aeneus* Wiegmann 1828<sup>3</sup>

*S. asper* Boulenger 1897<sup>3</sup> UC

*S. formosus scitulus* Smith 1942<sup>1,2,3,4</sup>

*S. gadoviae* Boulenger 1905<sup>1,2,3</sup>

*S. grammicus grammicus* Wiegmann 1828<sup>1,2,3</sup> UC

*S. horridus horridus* Wiegmann 1834<sup>1,2,3</sup>

*S. horridus oligoporos* Cope 1864<sup>1,2,3</sup>

*S. melanorhinus calligaster* Smith 1942<sup>1,2,3</sup>

*S. melanorhinus melanorhinus* Bocourt 1876<sup>1,5</sup>

*S. mucronatus omiltemanus* Günther 1890<sup>1,2,3</sup>

*S. ochoterenae* Smith 1934<sup>1,2,3</sup>

*S. palaciosi* Lara-Góngora 1983<sup>3</sup>

*S. pyrocephalus* Cope 1864<sup>1,2,3</sup>

*S. siniferus siniferus* Cope 1869<sup>1,2,3</sup>

*S. spinosus caeruleopunctatus* Smith 1938<sup>3</sup>

*S. stejnegeri* Smith 1942<sup>1,3,4</sup> UC

*S. uniformis* Cope 1864<sup>1,3</sup>

*Urosaurus bicarinatus anonymorphus* (Mittleman) 1940<sup>1,2,3</sup>

*U. bicarinatus bicarinatus* (Duméril) 1856<sup>1,2,3</sup>

*U. gadovi* (Schmidt) 1921<sup>1,2,3</sup>

Family ANGUINIDAE

*Abronia deppei* (Wiegmann) 1828<sup>3</sup> UC

*A. mixteca* Bogert & Porter 1967<sup>2,3</sup> UC

*Abronia* sp. "Guerrero" Flores-Villela & Sánchez 1993<sup>1,2,3,4</sup>

*Gerrhonotus liocephalus liocephalus* Wiegmann 1828<sup>2,3</sup> UC

*Mesaspis gadovi* (Boulenger) 1913<sup>1,2,3,4</sup> UC

Family XENOSAURIDAE

*Xenosaurus penai*<sup>1,2</sup> Pérez-Ramos, Saldaña-de la Riva & Campbell  
(in press)

Family HELODERMATIDAE

*Heloderma horridum horridum* (Wiegmann), 1829<sup>1,2,3</sup> E

Family SCINCIDAE

*Eumeces brevirostris brevirostris* (Günther) 1860<sup>1,2,3</sup>

*E. brevirostris indubitus* Taylor 1933<sup>1,2,3</sup>

*E. ochoterenae* Taylor 1933<sup>2,3,4</sup> UC

*Mabuya unimarginata* Cope 1862<sup>1,2,3</sup>

*Sphenomorphus assatus taylori* (Oliver) 1937<sup>1,3</sup>

Family TEIIDAE

*Ameiva undulata dextra* Smith & Laufe 1946<sup>1,2,3</sup>

*Cnemidophorus calidipes* Duellman 1955<sup>1,2,3</sup> UC

*C. communis communis* Cope 1877<sup>1,2,5</sup> UC

*C. costatus costatus* Cope 1877<sup>1,2,3</sup>

*C. costatus zweifeli* Duellman 1960<sup>1,2,3</sup>

*C. deppei deppei* Wiegmann 1834<sup>1,2,3</sup>

*C. deppei infernalis* Duellman & Wellman 1960<sup>1,2,3</sup>

*C. guttatus immutabilis* Cope 1877<sup>1,2,3</sup>

*C. lineatissimus lividus* Duellman & Wellman 1960<sup>1,5</sup> UC

*C. sacki gigas* Davis & Smith 1952<sup>1,2,3</sup>

*C. sacki sacki* Wiegmann 1834<sup>2,3</sup>

Suborder SERPENTES

Family LEPTOTYPHLOPIDAE

*Leptotyphlops goudotii bakewelli* Oliver 1937<sup>1,2,3</sup>

*L. maximus* Loveridge 1932<sup>1,3</sup>

*L. humilis* (Baird & Girard) 1853<sup>1,5</sup>

Family TYPHLOPIDAE

*Ramphotyphlops braminus* (Daudin) 1803<sup>1,2,3</sup>

Family LOXOCEMIDAE

*Loxocemus bicolor* Cope 1861<sup>1,2,3</sup> UC

## Family BOIDAE

*Boa constrictor imperator* (Daudin) 1803<sup>1,2,3</sup> E

## Family COLUBRIDAE

*Clelia clelia clelia* (Daudin) 1803<sup>3</sup>*Coniophanes fissidens dispersus* Smith 1941<sup>3</sup>*C. lateritus melanocephalus* Peters 1869<sup>3</sup>*C. piceivittis taylori* Hall 1951<sup>1,3,4</sup>*Conophis vittatus viduus* Cope 1876<sup>3</sup>*C. vittatus vittatus* Peters 1860<sup>1,2,3</sup>*Conopsis biserialis* Taylor & Smith 1942<sup>2,3</sup> E*Dryadophis melanotomus slevini* (Stuart) 1933<sup>3</sup>*D. melanotomus stuarti* Smith 1943<sup>3</sup>*Drymarchon corais melanurus* (Duméril, Bibron & Duméril) 1854<sup>1</sup>*D. corais rubidus* Smith 1941<sup>1,2,3</sup>*Drymobius margaritiferus fistulosus* Smith 1942<sup>1,2,3</sup>*Enuliusravitorques unicolor* (Fischer) 1882<sup>3</sup>*Ficimia publia* Cope 1866<sup>3</sup>*F. ruspator* Smith & Taylor 1941<sup>3,4</sup> UC*Geophis omiltemanus* Günther 1893<sup>3,4</sup> UC*G. sieboldii* (Jan) 1862<sup>3</sup> UC*Hypsiglena torquata torquata* (Günther) 1860<sup>3</sup> UC*Imantodes gemmistratus gracillimus* (Günther) 1895<sup>1,3</sup> UC*I. gemmistratus latistratus* (Cope) 1887<sup>1,3</sup> UC*Lampropeltis triangulum conanti* Williams 1978<sup>1,2,3</sup> E*Leptodeira annulata cussiliris* Duellman 1958<sup>1,2,3</sup> UC*L. maculata* (Hallowell) 1860<sup>1,3</sup> UC*L. nigrofasciata mystacina* Cope 1869<sup>1,2,3</sup>*L. septentrionalis polysticta* Günther 1895<sup>1,3</sup>*L. splendida bressoni* Taylor 1938<sup>1,3</sup>*Leptophis ahaetulla praestans* (Cope) 1868<sup>1,3</sup> E*L. diplotropis diplotropis* (Günther) 1872<sup>1,2,3</sup> E*Manolepis putnami* (Jan) 1863<sup>1,2,3</sup>*Masticophis mentovarius striolatus* (Mertens) 1934<sup>1,2,3</sup>*Oxybelis aeneus* (Wagler) 1824<sup>1,2,3</sup>*O. fulgidus* (Daudin) 1803<sup>3,4</sup>*Pituophis lineaticollis lineaticollis* (Cope) 1861<sup>1,2,3</sup>*Pseudoficimia frontalis* (Cope) 1864<sup>1,3</sup>*Pseudoleptodeira latifasciata* (Günther) 1894<sup>3</sup> UC*Rhadinaea hesperia hesperia* Bailey 1940<sup>1,2,3</sup>*R. omiltemana* (Günther) 1894<sup>1,2,3,4</sup> UC*R. taeniata aemula* Bailey 1940<sup>1,2,3</sup>*Rhadinophanes monticola* Myers & Campbell 1981<sup>3,4</sup> UC*Salvadora bairdi* Jan 1860<sup>2,3</sup> UC*S. intermedia* Hartweg 1940<sup>3</sup> UC*S. lemniscata* (Cope) 1890<sup>3</sup> UC*S. mexicana* (Duméril, Bibron & Duméril) 1854<sup>1,2,3</sup> UC

- Senticolis triaspis intermedia* (Boettger) 1883<sup>1,5</sup>  
*Sibon nebulata nebulata* Linnaeus 1758<sup>3</sup>  
*Sonora michoacanensis michoacanensis* (Dugès) 1884<sup>2,3</sup>  
*Stenorhina freminvillei* Duméril, Bibron & Duméril 1854<sup>1,2,3</sup>  
*Storeria storerioides* (Cope) 1865<sup>1,3</sup>  
*Tantilla bocourtii bocourtii* (Günther) 1895<sup>3</sup>  
*T. calamarina* Cope 1866<sup>1,2,3</sup>  
*T. coronadoi* Hartweg 1944<sup>3,4</sup> UC  
*T. deppei* (Bocourt) 1883<sup>3</sup> E  
*Thamnophis chryscephalus* (Cope) 1884<sup>1,2,3</sup> E  
*T. cyrtopsis collaris* (Jan) 1863<sup>3</sup> E  
*T. eques eques* (Reuss) 1834<sup>1,3</sup> E  
*T. godmani* (Günther) 1894<sup>1,2,3</sup> E  
*T. proximus rutiloris* (Cope) 1885<sup>3</sup> E  
*T. validus isabelleae* (Conant) 1953<sup>1,2,3</sup>  
*Tolula conica* Taylor & Smith 1942<sup>1,2,3</sup>  
*Trimorphodon biscutatus biscutatus* (Duméril, Bibron & Duméril) 1854<sup>1,2,3</sup>  
*T. tau latifascia* Peters 1869<sup>1,2,3</sup>  
*Tropidodipsas annulifera* Boulenger 1894<sup>3</sup> UC  
*T. fasciata guerreroensis* Taylor 1939<sup>3</sup>  
*T. zweifeli* Liner and Wilson 1970<sup>3</sup> UC  
*Xenodon rabdocephalus mexicanus* Smith 1940<sup>3</sup>

#### Family ELAPIDAE

- Micruurus browni browni* Schmidt & Smith 1943<sup>1,2,3</sup> UC  
*M. browni taylori* Schmidt & Smith 1943<sup>1,2,3,4</sup> UC  
*M. distans michoacanensis* (Dugés) 1891<sup>3</sup> UC  
*M. laticollaris laticollaris* (Peters) 1869<sup>1,3</sup> UC  
*Pelamis platurus* (Linnaeus) 1766<sup>1,2,3</sup>

#### Family VIPERIDAE

- Agkistrodon bilineatus bilineatus* (Günther) 1863<sup>2,3</sup> UC  
*Crotalus durissus culminatus* Klauber 1936<sup>1,3</sup> SC  
*C. intermedius omiltemanus* Günther 1895<sup>1,3,4</sup> E  
*C. triseriatus triseriatus* (Wagler) 1830<sup>3</sup>  
*Ophryacus undulatus* (Jan) 1859<sup>3</sup> SC  
*Porthidium barbouri* (Dunn) 1919<sup>1,3,4</sup> UC  
*Sistrurus ravidus exiguus* Campbell & Armstrong 1979<sup>3,4</sup> SC

#### Order CROCODYLVIA

##### Family CROCODYLIIDAE

- Crocodylus acutus* (Cuvier) 1807<sup>3</sup> UC

1: collected by the authors, 2: listed in catalog of herpetological collections, 3: record found in the literature, 4: endemic taxa, and 5: new record provided by the authors

(E) endangered, (T) Threatened, (SC) special concern, and (UC) uncommon (Secretaría del Medio Ambiente, Recursos Naturales y Pesca 1995).

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**Appendix 1.** Collection localities in Guerrero

Northern range (NR)	Río Balsas basin (RBB)	Sierra Madre del Sur (SMS)	Pacífico coastal plain (PCP)
13= Ixcateopan	2= Chichihualco 6=Coyahualco 7=Villa Madero 9=Arooyo Largo 12=Tlalcozotitlán 17=Xochipala 26=Chaucingo 32=Quirícuaro 33=El Naranjo 34=San Jerónimo 35=Las Junias de Cujaráñ 38=Cosausi 43=Acatempán 49=Tehuixtla 50=Zacatlán 62=Grutas de Cacahuamilpa 64=Los Sauces 70=Mezcala 72=Iguala 75=Cañón del Zopilote 81=Teloloapan 84=Tilzapota, Morelos 85=Bejucos, México	1=Huitzilhepec 3=Zoquiapan 4= La Compuerita de Tlaciapa 5=Xochapa 8=Chipícuaro 14=Filo de Caballo 15=La Escalera 16= El Asoleadero del Balsamar 19=Pico del Águila 23=Puerto del Bálsmo 24=Los Ciruelos 27=La Palma 28=Cerro Teotepéc 29=Toro Muerto 30=Yerbasanta 31=Cruz de Ocote 36=Crucero del Carrizal de Bravo 37=Barranca del Tío Chico Reyes 39=Casa de Teja 40=Jalapa 41=El Puerto 45=Ayotoxtha 46=Acatlán 47=Amojílceca 51=Thlatlauquitepec 58=Cacatula 59=Acatlahxco 66=Acahuizotla 67=Agua de Obispo 68=Mazatlán 76=Xomilcotitlán 77=San Roque	10=Pozquelite 11=Cumbres de Llano Largo 18= Las Lechugas 20=Tierra Blanca 21=Punta Maldonado 22=Acapulco 25=El Limón 42=Jolotichán 44=Pápanoa 48=Laguna de San Valiente 52=Barrio Viejo 53=Ixapa 54=Isla Ixtapa 55=Zihuatanejo 56=Petatlán 60=Barra Potosí 61=Cayaquitos 63=Las Mesas 65=Puerto Marqués 69=Los Cajoles 71=Teepan de Calena 73=San Marcos 74=La Unión 78=Plan de los Amates 79=Km 67.5, Rd. Méx 95 80=El 40 82=Ometepec 83=Tlacoachistlahuaca 86=Isla Roqueta