TRANSLATIONS OF RECENT DESCRIPTIONS OF CHINESE PITVIPERS OF THE *TRIMERESURUS*-COMPLEX (SERPENTES, VIPERIDAE), WITH A KEY TO THE COMPLEX IN CHINA AND ADJACENT AREAS

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HISTORICAL PERSPECTIVE

The renewed interest in herpetological researches that occurred in the 1970's in the People's Republic of China (hereafter merely referred to as China) led to the descriptions of many new taxa. Between 1972 and 1995, 17 species and 14 subspecies of snakes were described as new, either by Chinese or foreign authors. All species are still considered as valid, whereas seven subspecies proved to be junior synonyms of other taxa. The majority of the new snakes occur in the mountainous areas of central and southern China and includes several taxa of venomous snakes.

The descriptions of new snakes published between 1975 and 1995 appeared in Chinese journals such as *Acta zoologica Sinica* (*Dongwu Xuebao*) and *Acta zootaxonomica Sinica* (*Dongwu Fenlei Xuebao*), and also in more regional publications, university journals, and in collected works. But most descriptions were published in specialized journals like *Materials for herpetological Research* (*Liangqi Paxing Dongwu Yanjiu Ziliao*) and *Acta herpetologica Sinica*, of which three series were published, respectively between 1979-1982 (Old series) (Liangqi Paxing Dongwu Yanjiu), during the period 1982-1988 (New series) (*Liangqi Paxing Dongwu Xuebao*), and from 1992 onwards (*Liangqi Paxing Dongwu Xue Yanjiu*). Nearly all articles in these journals were in Chinese, although most articles included a short, sometimes disappointingly brief, English summary. We refer the reader to ZHAO & ADLER (1993) and ZHAO & ZHAO (1994) for an overview of the Chinese herpetological literature.

The rich Chinese herpetofauna can be explained by a combination of geographical and climatic factors. This area, and especially the mountains of southern China east of the Himalaya, northern Myanmar and northeastern India, seems to be a center of dispersal for several reptile groups. This region is characterised by a high number of crotaline species. So, while preparing a monograph on the Asian pitvipers of the *Trimeresurus*-complex (Serpentes, Viperidae, Crotalinae), one of us (PD) had to refer to many Chinese publications. According to ZHAO & ADLER (1993), DAVID (1995), ZHAO (1995a, 1995b) and DAVID & INEICH (in press), the *Trimeresurus*-complex, namely the four currently recognized genera *Trimeresurus* Lacepède, 1804, *Ermia* Zhang, 1992, *Ovophis* Burger *in* Hoge & Romano Hoge, 1981 and *Tropidolaemus* Wagler, 1830, currently has 43 species, ranging from Nepal to southern India and Sri Lanka, to eastern China and Japan, and to eastern Indonesia. It is particularly well represented in central, eastern and southern China and Hainan, with a total of 17 taxa, 13 species and four subspecies, not including the nominal subspecies. Taiwan is the home of four species, all but one also occurring on the mainland.

The taxonomy of this group is far from perfectly known, and during the period 1977-1995, seven new forms of the genus *Trimeresurus*, namely four species and three subspecies, were described from continental China, including a very large species. At the same time, a subspecies described long ago and

another one described in 1977 were raised to specific rank. All these taxa are currently considered valid, although with some doubt for one of the subspecies (see below).

Translations of these original descriptions were purposely prepared by the second author (HT) of the present paper for our monograph on the *Trimeresurus*-complex. We wish to share them with herpetologists not fluent in Chinese language or not having easily access to Chinese literature so a larger audience has access to original descriptions and characteristics of these venomous snakes, which are still poorly known outside China. English translations of the original articles are reproduced here with explanatory notes.

SYSTEMATICS

The seven taxa included herein were all described in the genus *Trimeresurus*. Two were subsequently reallocated to other genera, although ZHAO & ADLER (1993) were conservative and retained all these taxa in the genus *Trimeresurus*.

We provide below in chronological order of description the current names of these taxa, then the original name, bibliographic data, and, if relevant, the authorship of the new combination. For more information, see also GOLAY et al. (1993) and DAVID & INEICH (in press).

Trimeresurus medoensis Djao *in* Djao & Jiang, 1977
Trimeresurus medoensis Djao *in* DJAO & JIANG, 1977: 66, pl. 2: fig. 9-1 to 9-5.

Ovophis zayuensis (Jiang *in* Djao & Jiang, 1977)
Trimeresurus monticola zayüensis Jiang *in* DJAO & JIANG, 1977: 67, fig. 1: 1-3.
Ovophis monticola zayuensis: HOGE & ROMANO HOGE, 1981: 249.
Ovophis zayuensis: ZHAO, 1995a: 37.

Trimeresurus xiangchengensis Zhao, Jiang & Huang, 1978
Trimeresurus xiangchengensis ZHAO, JIANG & HUANG, 1978: 21.

Trimeresurus tibetanus Huang, 1982
Trimeresurus tibetanus HUANG, 1982: 116, fig. 1-5.

Ermia mangshanensis (Zhao *in* Zhao & Chen, 1990)
Trimeresurus mangshanensis Zhao *in* ZHAO & CHEN, 1990: 11, plate.
Ermia mangshanensis: ZHANG, 1992: 82; ZHANG, 1993: 56.

Ovophis monticola zhaokentangi Zhao, 1995
Ovophis monticola zhaokentangi ZHAO, 1995b: 109.

Trimeresurus stejnegeri chenbihuii Zhao, 1995
Trimeresurus stejnegeri chenbihuii ZHAO, 1995b: 110.

SCOPE AND METHODS

We provide translations of seven articles in which descriptions of these taxa were published. Three articles are not translated in full, only their parts relevant to the *Trimeresurus*-complex. DJAO & JIANG (1977) include general remarks and a zoogeographical analysis of the herpetofauna of the Xizang Province; these are not included here. ZHAO et al. (1978) and ZHAO (1995b) contain descriptions of taxa in addition to the *Trimeresurus*-complex; these are not included. On the other hand, we give full translations of two articles relative to *T. xiangshengensis* (ZHAO et al., 1978; ZHAO, 1979). The first one is a preliminary, although valid, description; the second one is a more formal and thorough diagnosis of the species. All other species were described in dedicated papers (HUANG, 1982; ZHAO & CHEN, 1990). However, the original description of *T. mangshanensis*, based on two juveniles, lacks important data about adults and other salient features of this amazing species. So, we also give the translation of another article related to this species and published same year as the original description (CHEN, 1990). The translated articles are arranged according to the chronology of their date of publication and appear in the following order:

DJAO & JIANG, 1977.
ZHAO, JIANG & HUANG, 1978.
ZHAO, 1979.
HUANG, 1982.
ZHAO & CHEN, 1990.
CHEN, 1990.
ZHAO, 1995b.

Full references are given in "LITERATURE CITED". These publications require some explanations. First, the Chinese policy until early 1980 was to credit articles to institutions or laboratories rather than to individuals. So we reproduce in bibliography the author(s) as mentioned in the original paper. In the first article, footnotes on pages 64 and 70 clearly indicate that the actual authors are DJAO & JIANG, and the paper is cited in bibliographies under this authorship.

Second, we used titles as given in the English summaries or as provided in ZHAO & ADLER (1993). The Chinese titles are slightly different, and they are given in the "NOTES" section. Personal, vernacular and geographical names are transcribed according to the *pinyin* system. We combine transcribed Chinese characters when they form a single word, for example *zhuyeqing* in place of *zhu ye qing*, the bamboo-leaf green snake. We retained the spellings of the author's names as mentioned in the English summaries of the original papers. DJAO Er-mie is now spelt ZHAO Er Mi (or Ermi).

Third, names of the type localities and other places are transcribed from the main Chinese text and not from the English summary. Our reference for geographical names is SUN (1989).

Last, the reader should refer to the original articles for the drawings and plates and also for the references included in these articles, which are not included here.

When necessary, we annotated the translations; these comments are marked by an integer in square brackets. The annotations follow the last article. There are no personal notes within the translations. These translations follow the original texts in respect to the titles of their sections and subsections.

A SURVEY OF REPTILES IN XIZANG AUTONOMOUS REGION, WITH FAUNAL ANALYSIS AND DESCRIPTIONS OF NEW FORMS [1]

Herpetological Department, Sichuan Biological Research Institute

Description of new species and subspecies [1]

Motuo zhuyeqing [2] ***Trimeresurus medoensis*** **Djao, sp. nov.** (Plate II, fig. 9, 1-5) [3]

Types: Holotype male (Sichuan Institute of Biology Nr 73 II 5208, 3 August 1973, Xizang, Motuo, bridge Ani [4], altitude 1200 m, collected by DJAO Er-mie and GAO Yuan); paratype male (Sichuan Institute of Biology Nr 73 II 5209, collected on the same day at the same place as the holotype, altitude 1400 m, collected by DJAO Er-mie and WU Xue-en). Deposited in the Sichuan Institute of Biology, Chengdu.

Diagnosis: A form of *zhuyeqing*. The first supralabial is completely separated from the nasal scale; 8 supralabials, 8-9 infralabials; 17 (19)-17-13 dorsal scale rows, of which the 7th-11th median rows are slightly keeled; 148-149 ventral scales.

Description: The dorsal parts are entirely green on the whole body; the upper lips and the venter are white-yellowish; a bicolor red and white ventrolateral stripe on each side, made of the red inferior part of scales of the first dorsal row and of the white superior part of scales of the first dorsal row and inferior margin of the scales of the second dorsal row; the ventrolateral stripe extend beyond the corner of the mouth to the temporal region, where it is interrupted, and, rearward, it reaches the level of first subcaudal scales; upper part and tip of tail dark red.

Total length: 563 + 129 mm (holotype) and 509 + 115 mm (paratype).

The internasals are much larger than other scales on the upper part of the snout, they are in contact or separated by a small scale; the nasals are not divided nor constricted in their middle, and their posterior edge is slightly concave; they are completely separated from the first supralabials by a suture between the scales; second supralabial borders the anterior side of the loreal pit, the upper part of this second supralabial is separated from the nasal by a triangular prefoveal scale [5]; a loreal [5] between the nasal and the preocular scales; the left and right supraocular scales are separated by a transversal row of 6-9 small scales; 2 postoculars; 1 subocular in contact on its forward border with the subfoveal [5]; eyes moderate, with a vertical, oval pupil; 8 supralabials, the third being the largest, the fourth situated just below the eye; 8 infralabials on the left side, and 9 infralabials at right, of which the first pair is in contact behind the mental, and the first three pairs are in contact with the anterior chin shields. 17(19)-17-13 dorsal scale rows, of which the 7-11 median rows are slightly keeled; 148-149 ventral scales; anal entire; 58-59 pairs of subcaudals.

Biology: The holotype and the paratype were collected along a forest path, during a light rain. The holotype was crawling at 10:50 towards the collectors and, arrived in their vicinity, turned away from them. The paratype was found along a path at 13:50, and, when noticed, tried to escape into a pile of leaves and fallen vegetation at the bottom of the hill slope.

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[1]: Authors of new forms : Djao Er-mie and Jiang Yao-ming.

Comparison and discussion: About thirty species are known in this genus, of which eight are green, bearing ventrolateral stripes or not, and are called "bamboo-leaf green snakes". The new species can be distinguished from the previously known forms by the following distinctive characteristics: 1) a reduced number of dorsal scale rows, 17(19)-17-13, which is different from all other species of the genus; 2) a relatively low number of supralabials, 8 on each side. The Large-scaled zhuyeqing, *T. macrolepis* Beddome [6], also has between 7 and 8 supralabials, but in this species the numbers of scale rows at midbody and before vent are 12-15 and 9-10 respectively; 133-143 ventral scales; upper head scales are much enlarged, with a single large scale separating the supraoculars. All these characters are different from those of the new species.

Three female snakes of *zhuyeqing* collected by KAULBACK in the Namti Valley, northern Burma, with 17-17-13 dorsal scale rows, 143-149 ventrals and 57-60 pairs of subcaudals, where tentatively referred by SMITH (1943: 518) [7] to the species *T. stejnegeri* Schmidt. *T. stejnegeri* was described from specimens collected in Shaowu, Fujian Province, and its range includes southern China, northern Burma, and westwards it reaches Darjeeeling in India. The examination of 196 specimens (90 males, 106 females) of *zhuyeqing* [8] originating from nine Chinese provinces gave the following results: dorsal scales behind the head on 21 or 23 rows (rarely 22, 24 or 25 rows; solely the specimen Nr 1 from Huili, Sichuan Province, has 19 rows), usually 21 scale rows at midbody (very few specimens have 23 rows, and solely the specimen Nr 2 from Huili, Sichuan Province, has 19 rows), 15 scale rows before vent (only the specimen Nr 3 from Lei Shan, Guizhou Province, has 13 or 12 scale rows), dorsal scales all keeled, with the exception of the two outer most rows, number of ventral scales 154-178 in the males (mean: 162.5), 154-173 in the females (mean: 160.7), 9-11 supralabials, sometimes 12, with only 1 specimen from Chongan, Fujian Province and one from Lei Shan, Guizhou Province, having 8 supralabials on each side, and a number of infralabials included between 10 and 14 (there is not any specimen with 9 infralabials). The differences between the new species and the *zhuyeqing* [8] are therefore very clear. We consider that if other characters of the specimens from northern Burma mentioned above are similar to those of the new species, these animals should be also referred to the *Motuo zhuyeqing*.

Shan laotietou, Zayü variety [9] ***Trimeresurus monticola zayüensis*** [10] **Jiang, subsp. nov.** (Fig. 1, 1-3) [11]

Types: Holotype male (Sichuan Institute of Biology Nr 73 I 5024, 22 July 1973, Xizang, Zayü, elevation 1800 m), cotype [12] female (Sichuan Institute of Biology Nr 73 I 5025, 30 July 1973, Xizang, Zayü, Bendui, elevation 2070 m), paratype male (Sichuan Institute of Biology Nr 73 II 5349, 1965, Xizang, Zayü).

Diagnosis: The new subspecies is separated from other known forms of *Shan laotietou* [13] by the following characters: in the the new subspecies, the largest supralabial is the third one, whereas in other subspecies it is the fourth one [14]; the number of ventral scales of the new subspecies is greater than 170, when it is less than 158 in other subspecies; the subcaudal scales are single in the new subspecies, with a few exceptions, whereas in other subspecies these scales are paired, only a few being single [15].

Range: Xizang Province: Zayü and Motuo.

THREE NEW SNAKE SPECIES IN CHINA [16]
(A SUMMARY)

ZHAO Er Mi JIANG Yao Ming HUANG Qing Yun [17]

3. Xiangcheng laotietou [18] ***Trimeresurus xiangchengensis*** sp. nov.

Types: Holotype male (CIB Nr 725049, 1972/10/17, Sichuan Province, Xiangcheng, altitude 3100 m), cotype [12] female (CIB Nr 725050, 1972/10/23, Sichuan Province, Xiangcheng, altitude 3100 m), paratypes 1 male, 5 females, 2 juveniles (CIB Nr 725048, 725050-725052, 725054-725057). The types are deposited in the Chengdu Insitute of Biology, Academia Sinica.

Diagnosis: Some characters of the new species, such as 189-193 ventral scales, 7-8 supralabials, 11-13 infralabials and some scales on the head are similar to those of *T. elegans* (Gray) [19] from which it differs by: 1) in the new species, dorsal scales are on 25-27 rows on the neck, 25 rows at midbody, and 17 (15 in a few cases) rows before vent, versus respectively 27-33, 23-26 and 19-21 rows in *T. elegans*; 2) a low number of subcaudals in the new species, 50-66, whereas their range is 63-79 in *T. elegans*; 3) some characters of head scalation and color blotches are different.

A NEW SNAKE OF THE GENUS *TRIMERESURUS* FROM SICHUAN, CHINA [20]

ZHAO Er Mi

(*Chengdu Institute of Biology, Academia Sinica*)

About thirty species are recognized in the genus *Trimeresurus* Lacepède, 1804, which occur in the souhern part of the Asian continent, mainly in southern and southeastern Asia, in southern China and in Japan (Ryukyus Archipelago). This genus is reported from the southwestern, southern and central regions of China as well as in the Indochinese part of the Oriental Region. In 1992, researchers of the Fifth Laboratory of our Institute collected ten specimens of *Trimeresurus* at Xiangcheng, in the Hengduan Mounts, western Sichuan Province. After examination, it proved to be a new species, which is described below.

Xiangcheng laotietou [18] ***Trimeresurus xiangchengensis* new species** (Fig. 1) [21]

Diagnosis: The new species is closely related to *T. elegans* (Gray) [19] from which it differs by 1) the presence of two loreals in the new species, against a single loreal in *T. elegans*; 2) the presence of a single scale row between third and fourth supralabials and the subocular in the new species, versus two rows in *T. elegans*; 3) the new species has 11-14 (mean: 12.3) infralabials, whereas *T. elegans* has 10-12 (mean: 10.5) infralabials; 4) 25 dorsal scale rows at midbody, with the two external rows smooth in the new species, whereas *T. elegans* has 23 or 25 rows at midbody, of which only the outermost row is smooth; 5) 17 scale rows before vent in the new species, instead of 19 rows in *T. elegans*; 6) the new species has 189-194 (mean: 191.5) ventral scales, versus 179-191 (mean: 185.5) in *T. elegans*; 7) the new species has 50-66 (mean: 59.3) pairs of subcaudal scales, versus 63-79 (mean: 71.7) pairs in *T. elegans*; 8) the color of the blotches are much different in these two species.

Types: Holotype male (CIB Nr 725050, 1972-10-17, Sichuan Province, Xiangcheng, Qianjinxiang, altitude 3100 m), cotype [12] female (CIB Nr 725049, 1972-10-10, Sichuan Province, Xiangcheng, Qianjinxiang, altitude 3200 m), paratypes 1 male, 5 females, 2 juveniles (CIB Nr 725048, 725051-725057, 1972-10-1-28, Sichuan Province, Xiangcheng, Qianjinxiang and Jiefangxiang, altitude 3000-3200 m). The types are deposited in the Chengdu Insitute of Biology, Academia Sinica.[22]

Description: A triangular head, with a relatively sharp canthus rostralis; rostral slightly higher than wide, with only its top visible from above; upper surface of head covered with small scales, the supraoculars being the largest, followed in size by the scales on the top of the snout; the left and right internasals are separated by 1-4 (mean: 2.8) small scales in contact wih the upper margin of the rostral scale; supraoculars longer than wide, their width being inferior to half of the distance between the left and right supraoculars, which are separated by 10-12 (mean: 10.8) small scales in a row; nasals relatively large, slightly constricted in their middle, sometimes each divided on its lower part into one anterior and one posterior scales; nostrils nearly rounded, located on the posterior margin of the posterior nasal and directed slightly obliquely backwards; eyes moderate, with a vertical, oval pupil; 7-8 (mean: 7.6) supralabials, of which the first one is completely separated from the nasal, the second is high and forms the anterior border of the loreal pit, the third is the largest, the third and fourth located just below the eye and separated from the subocular by a small scale row; the foveal [23] is separated from the nasal by 2-6 (mean: 3.5) small scales; the superior preocular is separated from the nasal by two loreals [24]; the temporals are smooth; 11-14 (mean: 12.3) infralabials, the first pair in contact behind the mental, the 2nd or 3rd anterior infralabials (sometimes the first) in contact with the anterior chin shields. The dorsal scales are rhombohedral or

elliptical, arranged in 25-27 rows behind the neck, 25 rows at midbody, of which the 21 medial rows are strongly keeled, and 17 rows before vent. Number of ventral scales: 191 and 189 in males, 190-194 (mean: 192) in females; anal entire; subcaudal scales: 66 and 61 pairs in males, 50-62 (mean: 57.6) in females; 3 subcaudals single at the base of the tail in specimen Nr 1, and at the tip of the tail in another specimen.

Specimen number	Sex	Dorsal scales	Ventrals	Subcaudals	Supralabials	Infralabials
725050	M	27-25-15	191	66	7	12/12
725048	M	25-25-17	189	61	7	13/12
725049	F	25-25-17	194	60	7	11/12
725051	F	25-25-17	194	55	8	13/11
725052	F	26-25-17	190	61	8	11/13
725053	F	27-25-17	192	50	8	12/13
725054	F	25-25-17	192	62	8	12/14
725055	F	27-25-17	190	—	8	12/14

Total length: male 741 + 124 mm (holotype), female 765 + 124 mm (cotype).

Light brown above, on each side of the back 1 or 2 rows of subtriangular, dark brown, grey-edged blotches alternating with one another, sometimes contiguous and giving a saw-tooth pattern or an irregular stripe. Belly light grey, in males and a part of females entirely spotted with brown with the exception of the neck, becoming densely powdered in the rear part of body. Head light brown above, with dark brown and light gray spots and streaks; upper lips whitish, sometimes marked with a few brown spots and a conspicuous, large dark brown spot under the loreal pit; a relatively wide temporal streak, wavy on its lower margin and light grey on its upper margin like the canthus rostralis, running from behind the eye up to the corner of the mouth; head whitish-grey below, with a few minute brown spots on infralabials in some specimens.

Biology: This species inhabits the Hengduan mountains above 3000 m. The adult snakes were found either in bushes or among grasses, or in wet places in forest, or in riparian areas along small streams. Two specimens were collected in a stone pile close to dwellings, one was caught inside a house. The air temperature was quite low when these snakes were found and these places were probably hibernation sites. Two juveniles were collected on banks of a river and a stream.

A NEW SPECIES OF THE CROTALIDAE SNAKE FROM TIBETAN [25]

HUANG Zheng Yi

In May 1979, Mr. Wu Qian Hong, while working at the Xizang Normal High School, collected two specimens of *laotietou* [26] which belong to a new species described below:

Xizang zhuyeqing [27] **(new species)** ***Trimeresurus tibetanus*** **Huang, sp. nov. (Fig. 1)** [28]

Types: Holotype female (Faculty of Biology of the Fudan University [29] Nr 80001, 1979-5-5, Xizang Province, Nielamou District, Quekesumou [30], altitude 3200 m, collected by Sog Lang Jo Gar); paratype male (Faculty of Biology of the Fudan University Nr 80002, collected on the same day by the same person as the holotype). Deposited in the vertebrates collection of the Fudan University.

Diagnosis: A species of the *zhuyeqing* group of the *laotietou* [26] genus. Overall body color bright green, with irregularly shaped rusty-color patches on the back, without lateral stripes. Head large, triangular, very distinct from the neck. Upper-head surface covered with small scales, loreal pits present. Nasal completely separated from the first supralabial by a suture, 8-9 supralabials, 9 infralabials, 23-21-17 dorsal scale rows, of which the 15th-17th median rows are slightly keeled, 155 [31] (male) and 161 [31] (female) ventrals; tail short, 44 pairs of subcaudals.

Description: The main measurements and scalation characters of the paratype are summarized in Table 1. Dorsal parts entirely green, marked with dorsal rust-colored blotches from the neck to the tail [32]. Venter light green, ventrolateral stripe absent. Tip of tail green. The internasals are separated by a small scale, the nasal is not divided and is completely separated from the first supralabial by a suture; second supralabial forming the anterior border of the loreal pit; 1 loreal [33] between the nasal and the preocular; 10-11 small scales in a row between the supraoculars, 1 postocular, 1 subocular in contact with the subfoveal [34], the third supralabial is the largest, the fourth lies just below the eye; the first pair of infralabial separated by a groove. At midbody 15-17 dorsal scale rows slightly keeled. Anal entire.

Table 1

Types	Total length (mm)	Tail length (mm)	Dorsal scale rows	Ventrals	Subcaudals	Supralabials	Infralabials
Holotype	610	82	23-21-17	161[31]	44	8-8	9-9
Paratype	570	58 (*)	23-21-17	155[31]	28 (*)	8-9	9-9

(*): truncated.

Discussion: Among the 34 known species in the *Trimeresurus* genus, nine species, known as *zhuyeqin*, are entirely green, with or without ventrolateral stripes. The main features which distinguish the new species from other forms are: 1) the low number of subcaudals, 44 pairs, whereas this number ranges between 51 to 80 pairs in other species; 2) a short tail, 82 mm long, when in adults of all other known species the tail is longer than 110 mm; 3) a relatively low number of supralabials, 8 scales on each side (the 8th left supralabial of the paratype is divided into two scales). The species *T. medoensis* Zhao and *T. macrolepis* Beddome also have respectively 8 and 7-8 supralabials, but the new species differs clearly from

the former species by others characters and tail length; see Table 2; 4) the new species is marked with rust-colored dorsal blotches, and its tail tip is green.

Table 2

Species [35]	Midbody dorsal scale rows	Subcaudals	Ventrals	Tail length (mm)	Dorsal markings
T. tibetanus	21 rows	44	155 & 161 [31]	82 & 58 (cut)	rusty-colored
T. medoensis	17 rows	58-59	148-149	115-129	none
T. macrolepis	12-15 rows	53-58 (see note)	135-143 females 133-140 males	110-115	none

Note: one female with a number of subcaudals close to the new species.

We thank JIANG Zheng Kui for the preparation of the line drawings, and FU Wen Yu and ZHU Mei Ping for the photographs.

DESCRIPTION OF A NEW SPECIES OF THE GENUS *TRIMERESURUS* [36]

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In the second half of September 1989, foresters of the Chenzhou area, Hunan Province, discovered on Mount Mang, Yizhang County, a snake den which contained 21 juveniles. While they were catching the youngs, two adults were discovered. All snakes were caught alive and kept in captivity. Mr. Chen gave two youngs to the CHENGDU INSTITUTE OF BIOLOGY for identification. It proved to be a new species of *laotietou*, described below from these two living juveniles.

Mangshan laotietou [37] ***Trimeresurus mangshanensis* Zhao** [38]**, sp. nov.**
(Figure on back cover) [39]

Holotype: ZS 8901, juvenile male, caught in Pingkeng District, Mt. Mang (Mangshan), Yizhang County, Hunan Province, altitude 700-900 m, by CHEN Guo Hua and TAO Yun Lin.

Paratype: ZS 8902, juvenile female, same dates, place of capture and collectors as the holotype.

Diagnose: The new species is similar to *Trimeresurus kaulbacki* Smith from northern Burma, and it differs from this latter species by: 1) the second supralabial is small and low, and it does not make the border of the loreal pit; 2) a lower number of ventrals; 3) different color of dorsal blotches.

Description of the holotype: Head subtriangular, tip of snout narrow and rounded with a sharp canthus rostralis. The rostral is subtriangular, the 2/3 inferior part slightly bent towards interior, the superior part slightly bent posteriorly on its upper part. Upper head-surfaces covered with small smooth scales among which the supraoculars are the largest; supraoculars separated on the middle by a row of 9 small scales; 1 pair of internasals, the second ones in term of size, widely in contact behind the rostral and not separated by a small scale; 2 relatively large scales on the canthus rostralis between the internasals and the supraoculars. Nasals squarish with their anterior and posterior margins slightly rounded and projected; rostrils shaped like a *mantou* [40], located in the middle of the nasals and open posteriorly; an oval-shaped nasal pore on the top of the posterior margin of the loreal pit; 1 relatively small loreal located between the 2 preoculars and the nasal. Presence of loreal pits, the prefoveal is relatively large and in contact forwardly with the nasal; the superior and inferior margins of the loreal pit are bordered respectively by a preocular and a subfoveal [41]. Eyes relatively small, slightly globulous; an oval, vertical pupil; 2 narrow, stretched preoculars, juxtaposed and bordering the superior margin of the loreal pit; the inferior margin of the pit is formed by the subfoveal; 2 very small postoculars at the superior corner of the eye, 1 lower, quite elongated subocular [42], which runs below the inferior margin of the eye from its lower posterior part towards the lower anterior border of the eye. 7 supralabials on each side of the head, first relatively enlarged, completely separated from the nasal, second the smallest and in contact at its superior margin with the prefoveal; third the largest, separated from the eye by 1-2 minute lacrimals [43]; fourth supralabial relatively large, in contact with third supralabial just below the eye; last three supralabials relatively low and slightly elongated. Mental triangular, pointed downwards, its anterior margin wide and straight, narrowing posteriorly and with a sharp tip inserted between the first infralabials pair. 1 pair of relatively large anterior chin shields, with, behind them, several pairs of smaller scales, separated from the first pair by a deep, well-defined groove. 16 infralabials on the left, 15 on the right, with the first pair quite large and

in contact with the mental, the 3 first pairs in contact with the anterior chin shields. Temporals relatively large, whereas posterior chin shields are small. Dorsals rhombohedral, keeled, arranged in 25 rows at 1-2 head length behind the head, 25 rows at midbody, 17 rows at 1-2 head length before vent, scales of the outer row smooth. Ventrals 189; anal entire. Tail lateraly compressed, mainly at its posterior part; 63 subcaudals, the first 62 paired, the 63th single, their outer margin being bent downwards up to the middle of the tail; dorsal part of the tail covered with relatively large, regularly arranged scales on rows of which the number progressively decreases backwards from 9 rows to 7, down to 4 rows at the end of the tail. Tail spine squarish and hard.

Total length: 447 mm [44], tail length: 65 mm.

Body entirely blackish brown marked with minute yellowish green or rusty spots which give a pattern similar to net meshes; along each side, a series of transversal bands made of about 40 yellowish green scales covering in width from 3 to 5 scale rows, evenly separated, confluent or slightly set off one from each other on the vertebral line. Ventrals also marked with minute spots like the back, and with larger subtriangular, yellowish green blotches. Upper surface of head blackish brown, with symmetrical yellowish green markings. Upper surface of the anterior part of the tail marked like the body, whereas the posterior tail part is very pale yellowish green or nearly white. Iris pale yellowish green. Adults have similar colors and patterns [45].

Variations in paratype: 7 small scales in a row between the supraoculars, 3 postoculars at right, 15 infralabials at left, 14 at right, 195 ventrals, 60 paired subcaudals. Total length: 444 mm, tail length: 65 mm.

The types are deposited in the Chengdu Institute of Biology, Academia Sinica.

A NEW SPECIES OF SNAKE IN CHINA - *TRIMERESURUS MANGSHANENSIS* [46]

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A group of white-tailed snakes was caught last year by the Mangshan Bureau of Forestry, in the region of Chen Zhou, located in the Hunan Province close to the border between Hunan and Guangdong provinces. According to the famous snake specialist, Mr. ZHAO Er Mi, consultant in the Chinese Snake Society and vice-president of the Chengdu Biology Institute, Academia Sinica, they belong to a species not yet described either from China or from abroad, and formally named *Mangshan laotietou* [47].

These white-tailed snakes were caught in the second half of September 1989 by the Mangshan Forestry Bureau. At the time of capture, the dorsal parts of the two adult snakes were grass-green, marked with blackish brown producing a net-like pattern [48]. The coloration was then very vivid (but after a little more than one month in captivity, the overall color became darker, mainly blackish brown). The posterior part of the tail is white for about 10 cm, and it constitutes the main diagnostic feature of this species. Each snake weighs about 3 kg, measures about 1.85 and 2 m, and have tube-like fangs 2 cm long. The venom can be spit to a distance of 1.5-2 m [49]. These white-tailed snakes have a typical, triangular iron-like shaped head which is as large as a child's fist, provided with loreal pits. The body is as wide as a small bowl. The 21 juveniles caught along with the adults were similar in aspects and coloration to the larger snakes, but their body is only as wide as a thumb. The white-tailed snakes are oviparous, with eggs large like small hen eggs.

The capture of the Mangshan snakes was announced by the Chinese Central Television [50] and was termed as the discovery of a rare venomous snakes, which drew attention from Chinese snake specialists and other scientists. After consultation of Chinese and foreign literature, Professor ZHAO Er Mi believed that they belong to an undescribed *Trimeresurus* species of the family Viperidae, subfamily Crotalinae. It is also a rare large-sized species which would be one of the largest venomous snakes in China. There is no snake reaching such a size among the thirty some forms known in this genus [51], from which it differs by its body color and pattern. This species will be named *Mangshan laotietou* snake because it was discovered from Mangshan.

Prof. ZHAO Er Mi also considers the *Mangshan laotietou* to be of great economical and scientific value. It is a new snake species added to the herpetological fauna of our country, which does not occur elsewhere either in China or abroad, so it is a precious species. Prof. ZHAO Er Mi calls from concerned authorities for the application of protective measures to the special Mangshan natural area. He also suggests that this species should be classed as a protected species.

The Mangshan Forestry Bureau has donated specimens to concerned research units, and types were deposited in the Academia Sinica, Chengdu Institute of Biology which is carefully studying these animals.

We are indebted to Director, Mangshan Forestry Bureau, for its support in our studies and also for its action towards the designation of *Mangshan laotietou* as a protected species.

INFRASPECIFIC CLASSIFICATION OF SOME CHINESE SNAKES [52]

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Abstract. - In this article, variations in scalation of four snake species are investigated. Methods commonly applied in the studies of infraspecific variations have been applied. Four new subspecies are described.

Key words. - Subspecific classification - Coefficient of difference - Mean value comparison - *Xenopeltis hainanensis jidamingae* - *Psammodynastes pulverulentus papenfussi* - *Ovophis monticola zhaokentangi* - *Trimeresurus stejnegerii chenbihuii* [53]

The author of the present article, while preparing the chapter on snakes in the *Encyclopedia of Chinese Animals* for the National Foundation of Natural Sciences within the scope of the Eighth Five-year Plan, discovered that some populations of *Xenopeltis hainanensis*, *Psammodynastes pulverulentus*, *Ovophis monticola* and *Trimeresurus stejnegerii* are differentiated. Studies of meristic characters in connection with current methods used for differentiation of subspecies, such as the coefficient of difference (C.D.) and the mean value comparison (MAYR et al., 1965, translated by ZHENG Z. X.) have shown that these populations have reached a subspecific level.

3 The subspecies of the *Shan laotietou* [54]

Ovophis monticola is widely distributed from eastern Himalaya towards east up to Indochina and southern provinces of China. It was divided into five subspecies, among which *zayuensis* is distinct enough from other subspecies to deserve specific status and was renamed *Ovophis zayuensis* (ZHAO, 1995). Specimens from northern Vietnam have a lower number of ventral scales (129-138, mean: 134), and BOURRET (1935) created the subspecies *meridionalis* to accomodate them. The high number of dorsal scale rows (25-29, mean: 26 or more) in Taiwan animals led TAKAHASHI (1922) to define the subspecies *makazayazaya*. The subspecies *monticola* and *orientalis* (SCHMIDT, 1925) differ by the pattern of head spots, and, although the value V + Sc [55] is slightly inferior to the value accepted for separating subspecies, the mean value comparison corresponds to the value on which is based the distinction of subspecies (Table 3). Examination of specimens showed that specimens from the population de Gongshan, north of Pianma, Lushui County, Yunnan Province, have a relatively higher number of ventral and subcaudal scales and are clearly different from those of other populations (Table 3).

Table 3. Subspecific differentiation of *Ovophis monticola* (Günther, 1864)

Population		A S. W. China (*monticola*)	A-B	B Gonghan	B-C	C S. E. China (*orientalis*)	C-A
n		40		6		25	
V+Sc	Range	172-203		215-225		169-182	
	M±S.D.	188.6±7.38		217.5±5.28		176±3.48	
ΔM			28.9		41.5		12.6
C.D.			2.28 (>1.28)		4.74 (>1.28)		1.16 (<1.28)
S.E.d			3.13		1.77		1.58
ΔM / S.E.d			9.23 (>3)		23.45 (>3)		7.97 (>3)

Table 3 shows that between the population from Gongshan, and *monticola* and *orientalis*, the coefficients of difference of the value V+Sc all are greater than 1.28, the ΔM values all are more than three times the value of S.E.d. It indicates that the population of Gongshan is a subspecies that is here called:

Shan laotietou, Gonshan variety [56] *Ovophis m. zhaokentangi* ssp. nov.

Holotype: KIZ 730093, adult male, collected on December 11th, 1973 at Bapo, Gongshan County, Yunnan Province, elevation 1400-1500 m.
Cotype [12]: KIZ 730018, adult female, collected on May 23rd, 1973, same locality than holotype.
Paratypes: KIZ 730096, male; KIZ 730024 and 730032, females, collected between May 29 and December 26, 1973, same locality than holotype. CIB 740003, male, collected on March 17th, 1973 at Pianma, Lushui County, Yunnan Province, elevation 1980 m.

Types are deposited in the Kunming Institute of Zoology (KIZ) and the Chengdu Institute of Biology (CIB).

Diagnosis: 159-169 ventral scales, mean 163.5; 49-63 subcaudals [57], mean 54. Internasals left and right separated by 2 small scales. Pattern similar to the one of *monticola*.

Distribution: Gaoligonshan, north of Pianma, Lushui County, western Yunnan Province.

Etymology: The new subspecies is named in honour to Pr. ZHAO Ken Tang, of the Suzhou Railways Normal College, for his researches in the lacertilian groups *Phrynocephalus* and *Eremias*.

4 Subspecific differentiation of the *zhuyeqing* [58]

Trimeresurus stejnegeri occurs in eastern Himalaya and from Myanmar to Thailand and Vietnam; in China, it is largely distributed in the southern provinces, as far north as Wenxian County, Gansu Province (33°N) in the west, and Changbai County, Jilin Province (41°20'N) in the east. Two subspecies were described. The form with 19 dorsal scale rows was raised to specific rank, *Trimeresurus yunnanensis* (ZHAO, 1995). We found that specimens from the populations of Hainan Island have 10-12 supralabials (mean 10.9), 12-14 infralabials (mean 13), 11-17 (mean 13.3) scales in a row between left and right supraoculars. All these values are higher than those recorded for other Chinese populations, especially the number of ventral scales which is clearly greater than those of other specimens from continental China and Taiwan (Table 4).

Table 4. Infraspecific differentiation of *Trimeresurus stejnegeri* Schmidt, 1925

Population		A Hainan Is.	A-B	B Continental China	B-C	C Taiwan Is.	C-A
n		18		175		26	
V+Sc	Range	236-256		199-246		213-236	
	M±S.D.	245.9 ± 5.54		229.3 ± 6.86		227.5 ± 5.71	
ΔM			16.6		1.8		18.4
C. D.			1.34 (>1.28)		0.14 (<1.28)		1.64 (>1.28)
S. E. d			1.67		1.42		1.73
ΔM / S. E. d			9.94 (>3)		1.27 (<3)		10.64 (>3)

According to Table 4, the coefficients of difference of the value V+Sc between populations from Hainan and those from Fujian, Zhejiang, Anhui, Hubei, Guizhou, Guangxi, Yunnan, Sichuan, Jiangsu, Jilin and Taiwan are higher than the value distinguishing subspecies, and the value of ΔM is much more than three times the value of S.E.d. A new subspecies is created for the Hainan population.

4.1 Zhuyeqing, typical form *Trimeresurus s. stejnegeri* Schmidt, 1925

Diagnosis: Ventral scales in males 154-170, mean 162.6; in females 154-172, mean 162.

Distribution: Provinces of continental China and Taiwan.

4.2 Zhuyeqing, Hainan variety *Trimeresurus s. chenbihuii* ssp. nov.

Holotype: CIB64 III 5599, adult male, collected on June 6th, 1964 at Diaoluoshan, Lingshui County, Hainan Province, elevation about 250 m.

Cotype [12]: CIB64 III 5945, adult female, collected on June 11th, 1964, same locality than holotype.

Paratypes: CIB64 III 5906, 5944, 5978-9, 6013, 6043-44, 6069, 6101, 6104, 6107, males; CIB64 III 5600, 5735, 6014, females, collected between June 6 and 15th, 1964 at Diaoluoshan, Lingshui County, Hainan Province, elevation 225-290 m. CIB64 III 5110, 5181, 5261-2, males, collected between April 23rd and May 12th, 1964 at Wuzhishan, Qiongzhong County, Hainan Province, elevation 500 m.

Types are deposited in the Chengdu Institute of Biology (CIB).

Diagnosis: Ventral scales in males 169-178, mean 172.6; in females 168-174, mean 172 [59].

Distribution: Hainan Island.

Etymology: The new subspecies is named in honour to Prof. CHEN Bi Hui, who dedicated his researches to the endangered Yangze alligator.

Trimeresurus medoensis

[1]: The description of the new taxa begins on the middle of the page 66. We did not translate pages 64-66 nor 68-69.

[2]: *Zhuyequinq*, meaning literally "bamboo-leaf green [snake]", is the Chinese general vernacular name for green pitvipers occurring in this country (*T. albolabris*, *T. medoensis*, *T. stejnegeri*, *T. tibetanus* and *T. yunnanensis*). The *zhuyeqing* proper is *T. stejnegeri*, whereas *T. medoensis* is called "*Motuo zhuyeqing*". The Chinese text widely uses this vernacular name rather than the scientific name, and we here follow this custom.

[3]: On plate II, the figure 9 is black-and-white photographs of the preserved holotype which depict respectively:
Photograph 9-1: general view from above.
Photograph 9-2: close-up view from the top of the head.
Photograph 9-3: close-up view from the underneath of the head.
Photograph 9-4: close-up lateral view of the head.
Photograph 9-5: close-up view of the body side.

[4]: Ani qiao [qiao = bridge], written "A-nie" in the English summary. We considered the pinyin transcription of names as mentioned in the Chinese text. On the other hand, the city of Motuo is also known as Mêdog (see SUN, 1989).

[5]: We follow PETERS (1964) for the terminology of head scales in pitvipers. So, any small scale lying between the nasal, the loreal, the scale bordering the pit (the foveal proper) and supralabials is a prefoveal scale. The scale bordering the lower margin of the pit is a subfoveal, but as, in case of pitvipers of the *Trimeresurus*-complex, it also borders the anterior margin of the eyes, it is often considered as the lower preocular. We take this position here. The foveal is usually united with the second supralabial in the genera of Asian pitvipers, and is not considered in itself. Last, the term of loreal is restricted only to scale(s) in contact both with the nasal and the preocular. Any scale located between the posterior margin of the nasal and any scale other than a preocular is a prefoveal or foveal.

[6]: A *Trimeresurus* species endemic to the hills of Southern India, and not related to the group of *T. stejnegeri*. The head scalation in this species is atypical in the genus by the much enlarged head scales.

[7]: See below for the complete references of this major work for Southern Asia.

[8]: Namely *Trimeresurus stejnegeri* proper; in this paper, the authors do not distinguish *T. stejnegeri stejnegeri* Schmidt, 1925 and *T. stejnegeri yunnanensis* Schmidt, 1925 (now *T. yunnanensis*).

Trimeresurus monticola zayuensis

[9]: A name formed from the words *shan* = mountain, *laotie* = iron (the domestic apparatus, not the metal) and *tou* = head, the vernacular name means literally "mountain iron-head [snake]". The present "variety" is therefore the "Zayü mountain iron-head snake". The name *laotietou* is given to terrestrial species of Chinese species of the *Trimeresurus*-group, such as *T. mucrosquamatus* (the *laotietou* proper), *T. xiangchengensis* and *T. jerdonii*. The name *shan laotietou* is given to *Ovophis monticola*.

[10]: According to the Art. 32 (c) and (d) of the *International Code of Zoological Nomenclature* (I. C. Z. N., 1985), a species group-name published with a diacritic mark is an incorrect original spelling

which must be corrected. Accordingly, the subspecific name must be written *Trimeresurus monticola zayuensis*.

Subsequently, this taxon was given a specific rank by ZHAO (1995a), as *Ovophis zayuensis*, because of important morphological differences with *O. monticola*. According to this author, the differences between *O. monticola* and *O. zayuensis* are as follows (unmodified from ZHAO's article):

	O. zayuensis (n = 4)	Other subspecies of *O. monticola* (n = 78)
Largest supralabial scale	third	fourth
Infralabials of the first pair	not in contact each other	in contact each other
Ventral scales	175 - 176	132 - 169
Subcaudals	single, only a few paired	paired, only a few single
Nasal scales	quite small, the left and right ones separated by 1 to 3 small scales	quite large, left and right ones in contact or separated by 1 to 3 small scales
Second supralabial	tall, constituting the prefoveal scale	entering or not the loreal pit

[11]: Figure 1, located on page 67, is made of line drawings depicting respectively:
drawing 1: close-up view from the top of the head.
drawing 2: close-up view from the underneath of the head.
drawing 3: close-up lateral view of the head.

[12]: A cotype is now considered as a paratype. We retained the terminology adopted by the authors.

[13]: Namely *Ovophis monticola* proper.

[14]: This statement is obviously incorrect, as the largest supralabial is also the third in the nominal subspecies, *Ovophis monticola monticola* (Günther, 1864), from India, Nepal and Myanmar and extreme west of Yunnan Province, and *Ovophis monticola convictus* (Stoliczka, 1870), the southern subspecies. The largest supralabial is the fourth in the Chinese subspecies *Ovophis monticola makazayazaya* (Takahashi, 1922), from continental China and Taiwan, and in *Ovophis tonkinensis* (Bourret, 1934), from Vietnam and Hainan Island.

[15]: They are also single in *Ovophis tonkinensis*. Both this latter species and *O. zayuensis* have single subcaudal scales, whereas all are paired (or paired except a few single scales in some specimens) in all other other subspecies of *O. monticola.*

Trimeresurus xiangchengensis

[16]: This short article, which has no English summary, gives a brief description of three new snake species: *Opisthotropis guangxiensis*, *Plagiopholis unipostocularis*, two colubrid snakes, and *Trimeresurus xiangchengensis*.

[17]: Authorship of separate species description is not given; so we consider that the authorship of *T. xiangchengensis* include all three authors.

[18]: A name meaning "Xiangcheng iron-head snake"; see note [9].

[19]: A species endemic to the Yaeyama archipelago, southern Ruykyus Archipelago, Japan. The authors did not compare their new species with *Trimeresurus mucrosquamatus*, a species widely distributed in China to which it is closely related.

[20]: The literal translation of the Chinese title should read as "A new species of *Laotietou* snake from Sichuan".

[21]: Figure 1, located on page 423, has a line drawing depicting the side of the head and a black-and-white photograph showing the living animal.

[22]: Peculiarly, the collection numbers of the type specimens mentioned in this article and their dates of capture are differ from those given in the preliminary description of the species (ZHAO et al., 1978)! This latter publication is considered the valid, original description of the present species, and the name-bearing type and other specimens in the type series, are those mentioned in this article:

Holotype: CIB Nr 725049, collected on 1972-10-10
Paratypes: CIB Nr 725048-725057.

[23]: Namely the second supralabial; see note [5].

[24]: Two loreals consecutively arranged, not superposed.

Trimeresurus tibetanus

[25]: The literal translation of the Chinese title reads as "A new species of Crotalidae from Xizang". In the English summary, the authors uses the word "Tibetan".

[26]: The name *laotietou* is here used as a collective name for the genus *Trimeresurus*. The Chinese text used this vernacular name rather than the scientific name, hence its regular appearance.

[27]: A name meaning "Xizang bamboo-leaf green snake" see note [2].

[28]: Figure 1 contains five elements, noted (1) to (5) and is divided into two parts, as follows: elements (1) and (2), on page 116: black-and-white photographs showing respectively an overall view of the holotype and a close-up dorsal view of the head; elements (3), (4) and (5) on page 117: line drawings of parts of the holotype showing respectively a lateral view of the head, the general arrangement of dorsal scales at midbody and of color spots, and a ventral view of the tail.

[29]: The FUDAN UNIVERSITY is located in Shanghai City.

[30]: The type locality is given in the English summary as "Naylam, Chokesumo"; we recommend the *pinyin* transcription of the names given in the Chinese text. The city of Nielamou is also known as Nyalam (see SUN, 1989).

[31]: Our own counts, according to DOWLING's method, give respectively 152 (male) and 159 (female) ventrals.

[32]: According to Mr WU of the Fudan University, the dorsal head surface of the types was also marked with faint rust-colored marks or lines.
He gave also us some ecological data. The type specimens were collected in low dense, luxuriant vegetation inside a shallow valley having a subtropical climate in spite of the altitude.

[33]: The description of the types are partly erroneous. We (PD) examined both types in the Fudan University, and a more complete description is in preparation. The paratype has 1 loreal on the left side and 2 consecutive loreals on the right side; the holotype has 1 loreal at right and 2 consecutive on the left side; figure 1 (3) is erroneous on this point. Moreover, fig. 1 (3) suggests that, in this species, the third supralabial is in contact with the subocular. This is true on the left side of the holotype, whereas they are separated by a small scale on its right side; the third supralabial is in contact with the subocular on the right side of the paratype but separated on the left side. Last, there are 3 differentiated supraoculars in the holotype, respectively 3 supraoculars on right side and 2 on left side in the paratype.

[34]: Namely the lower preocular.

[35]: The author used Chinese names of these species, respectively *Xizang zhuyeqing*, *Motuo zhuyeqing* and *Dalin zhuyeqing*, the latter one meaning "large-scaled bamboo-leaf green snake". For convenience, we used scientific names in the translation.

Trimeresurus mangshanensis

[36]: The literal translation of the Chinese title should read as "A new species of *laotietou* snakes - The *Mangshan laotietou* snake". The authors use the vernacular names, *laotietou* and *Mangshan laotietou*, rather than the scientific names.

[37]: A name meaning "Mangshan iron-head snake".

[38]: Although the article is signed by ZHAO & CHEN, the specific description is clearly attributed to ZHAO only. Accordingly, this species must be referred to as *T. mangshanensis* Zhao *in* Zhao & Chen, 1990.

[39]: The back cover of this issue of the *Sichuan Journal of Zoology* is a color photograph of the living juvenile snakes.

[40]: A *mantou* is a Chinese steamed bread, made from wheat, popular in northern China. Its shape is broadly like a crude hemisphere. So, this scale has a semicircular appearance, broadly similar to the ∩ figure.

[41]: This subfoveal is also the lower preocular.

[42]: The authors call the subocular "the postero-inferior-ocular".

[43]: According to PETERS (1964: 182), it seems that this term is here improperly used.

[44]: It is unfortunate that the description of this species is based on two juveniles, because it does not do justice to the formidable size and weight reached by larger adults. This is really a giant pitviper. CHEN (1990), also translated here, gives a description of the adults and mentions a size of about 2 m, for a weight of 3 kg. Mr. CHEN Yuan Hui kindly supplied (*in litteris*, October 1993) further data about the species, of which follows a short summary. This species is currently known only from a forested area of a few tens of square-kilometers between 700 m and 1300 m, where it is regularly encountered by peasants, although in low number. One specimen weighed about 4 kg, and another one slightly more than 5 kg, and local residents suggest that much heavier animals were caught. Another specimen had a total length of 203 cm, an head length of 85 mm and a body diameter of 50 mm. This snake feeds on insects, mammals and frogs. It is oviparous, depositing from 13 to 21 eggs (diameter about 30 mm). See also note [51] below. In the *Trimeresurus*-complex, solely *Trimeresurus flavoviridis*, of the Ryukyu Archipelago, Japan, reaches a larger size with a known maximal total length of 2.41 cm (Anonymous, 1993), but it is much lighter, as this specimen weighed only 1.35 kg; the second largest known specimen was long of 231.5 cm and weighed 2.4 kg (MISHIMA, 1980).

[45]: According to published photographs, the pattern, and especially the edges of the transversal bands, are much more contrasted in juveniles, which look like being banded. In adults, the pattern is quite obscure.

[46]: The literal translation of the Chinese title should read as "Discovery of a new snake species in China - The *Mangshan laotietou* snake". This article has no English summary.

[47]: It seems that this paper was written before the formal description of the species. However, as it does not include any binominal latin name, there can not be any dispute concerning the true authorship of this species.

[48]: In our opinion, this description is more appropriate than the one given in ZHAO & CHEN (1990). The species is mostly yellowish-green, marked with large, more or less squarrish dark brown or dark violaceous dorsolateral blotches, as wide as the yellowish-green ground color, which are paired or alternating, forming irregular cross bands or a chequered pattern; scattered brownish spots between the dorsolateral blotches; below these dark dorsal blotches, a series of irregular lateral blotches of the same color. The dark color becomes dominant in larger adult. Upper head surfaces of the same color than the body, marked with symmetrical brownish figures. End of tail whitish.

[49]: No other member of the *Trimeresurus*-complex has ever been reported for spitting venom. This noteworthy particularity was confirmed by Mr. CHEN (*in litteris*, october 1993), who writes: "These snakes do spit venom indeed, I have observed myself the phenomenon. When they spit venom, they produce a strong hissing. The venom is projected at a distance up to 1.5-2 meters away. The spitting occurs only when snakes are strongly aroused". We did not examine the fangs of this species and we have no further data.

[50]: CCTV channel.

[51]: The japanese *Trimeresurus flavoviridis* may be longer; see note [44].

Ovophis monticola zhaokentangi

[52]: The literal translation of the Chinese title should read as "Subdivision of some Chinese snake species". The text relevant to *Trimeresurus* group begins on page 108, with description of new taxa beginning on page 109. Other pages are not translated here.

[53]: Key words mention the Chinese names of these species. In this translation, we give scientific names for convenience.

[54]: Namely *Ovophis monticola* Günther, 1864. In this article, ZHAO considers *Ovophis monticola orientalis* (Schmidt, 1925) a valid subspecies, distinct from the Taiwanese *O. monticola makazayazaya* (Takahashi, 1922), to the contrary to ZHAO & ADLER (1993) who consider both subspecies to be synonymous. Data published in the literature and unpublished data (P. David) tend to support the validity of both subspecies (see characters in the KEY). However, a thorough revision of the *monticola*-complex is required.

[55]: V+Sc designing the total number of ventral and subcaudal scales. According to ZHAO, the total number V+Sc ranges from 169 to 182 in *O. monticola orientalis*. However, we examined specimens for which this value is 186; according to WU et al. (1985), it may attain 193 in specimens from southern China referable to *O. monticola orientalis*.

[56]: A name meaning "mountain iron-head [snake]" (see also note [9]). The present "variety" is therefore the "Gongshan mountain iron-head snake".

[57]: In the English summary (p. 111), the diagnosis is given in a slightly different way: "This new subspecies has higher ventral plus subcaudal counts, 215-225 (mean 217.5±5.28), than that of all other known subspecies. The coloration of head is similar to the nominate species." Other meristic data about this subspecies are as follows (ZHAO, pers. comm., based on six specimens): subcaudals all paired; 8-9 supralabials, of which the 4th is the largest; 8-9 cephalic scales in a row between supraoculars; 2nd supralabial bordering the anterior side of the loreal pit.

Trimeresurus stejnegeri chenbihuii

[58]: Namely *Trimeresurus stejnegeri* Schmidt, 1925 (see note [8]).

[59]: In the English summary (p. 112), the diagnosis is given in a slightly different way: "This new subspecies has higher ventral counts, 169-178 (mean 172.6) in males and 168-174 (mean 172) in females; while the nominate subspecies has 154-170 (mean 162.6) in males and 154-172 (mean 162) in females."

Thanks to the courtesy of Mr. CEN Jian Qiang of the Shanghai Natural History Museum, we examined seven preserved specimens of *Trimeresurus stejnegeri* from Hainan Island. Ventral scales counts, obtained according to the DOWLING's method, are as follows:

Museum Number	Sex	Ventrals
SNHM 2042	Male	174
SNHM 2043	Female	169
SNHM 2154	Female	166
SNHM 2158	Female	167
SNHM 2160	Male	163
SNHM 2161	Male	160
SNHM 2458	(Juvenile)	156

The DOWLING's method gives ventrals counts lower by one or two scales compared to the total number of ventrals. Nevertheless, it is obvious that Hainan Islands specimens have a lower number of ventrals than indicated by ZHAO (1995b). The validity of this subspecies seems questionable.

ICONOGRAPHY

The iconography of these recently described taxa is limited, and we give below bibliographic data of published illustrations referring to these forms. We believe it complete to January 1st, 1996. Figures and illustrations published in the original descriptions, mentioned above, are repeated below for the sake of completeness. Species are listed below according to their chronological order of description and under their currently valid name. *Ovophis monticola zhaokentangi* and *Trimeresurus stejnegeri chenbihuii* have not been illustrated.

Trimeresurus medoensis

DJAO & JIANG (1977): pl. II: fig. 9-1 to 9-5 (preserved holotype; black & white photographs).

HU & ZHAO (1979): fig. 2-8, p. 68 (living animal; black & white photograph).

TIAN et al. (1986): pl. XIX: fig. 66-68 (preserved holotype; black & white photographs).

Ovophis monticola zayuensis

DJAO & JIANG (1977): fig. 1, p. 67 (line drawing of head).

Trimeresurus xiangchengensis

ZHAO (1979): fig. 1, p. 423 (line drawing of head - living animal; black & white photograph).

TIAN et al. (1986): pl. XIX: fig. 72 (living animal; black & white photograph).

ZHANG & ZHAO (1990): fig. 6-4, p. 84 (line drawing of skull).

Trimeresurus tibetanus

HUANG (1982): fig. 1 & 2, p. 116 (preserved holotype; black & white photographs); fig. 3-5, p. 117 (various line drawings).

ZHAO & ADLER (1993): pl. 44: fig. C (living animal; color photograph).

Ermia mangshanensis

ZHAO & CHEN (1990): back cover of the issue (living animal; color photograph).

CHEN (1990): p. 41 (black & white photographs of living juvenile, adult animals, and biotope).

Journal of Snake, **2**, 1990, (4): back cover (living animal; color photograph).

ZHAO & ADLER (1993): pl. 44: fig. A (living animal; color photograph).

A KEY TO THE *TRIMERESURUS*-COMPLEX IN CHINA AND ADJACENT AREAS

In recent years, three keys have been published that are relevant to the *Trimeresurus*-complex in China and including at least one of the recently described taxa. The first one can be found in SICHUAN BIOLOGICAL RESEARCH INSTITUTE (1977); an English translation, covering the snakes and lizards was subsequently prepared (YANG & INGER, 1986). The most recent and complete key to Chinese snakes, to the subspecific level, was published in TIAN et al. (1986: 132-133). ZHAO & ADLER (1993: 67-92) give keys to the generic level. But no key including all currently recognized members of the *Trimeresurus*-complex is available.

We provide an up-to-date key to the sixteen species and subspecies of the *Trimeresurus*-complex inhabiting China (including Hainan and Taiwan islands, Hong Kong and Macau), and to five taxa occuring in its immediate vicinity, namely *Ovophis monticola convictus* (Stoliczka, 1870) and *Trimeresurus cornutus* Smith, 1930, both known from northern Vietnam, *Trimeresurus kaulbacki* Smith, 1940, from northern Myanmar, *Trimeresurus albolabris septentrionalis* Kramer, 1977 from Nepal and India, and *Trimeresurus erythrurus* (Cantor, 1839) and *Trimeresurus popeiorum* Smith, 1937, both known to occur in Sikkim and northeastern India within 100-200 km of the Indian-Chinese border. We did not include the insular species living in the Japanese Ryukyu archipelago, clearly differentiated by their geographic range. We follow ZHAO (1995a) for raising to a specific rank *Ovophis monticola zayuensis* and *Trimeresurus stejnegeri yunnanensis*, and ZHAO (1995b) in considering *Ovophis monticola orientalis* (Schmidt, 1925) distinct from *O. monticola makazayazaya* (Takahashi, 1922).

This key is both drawn from literature and the examination of preserved specimens belonging to most mentioned taxa. We used our unpublished, preliminary data for the members of *Ovophis monticola*-group (DAVID, in prep.). We tried to produce a key based on external features that will work as well with preserved animals as with living snakes. However, we had to refer to hemipenial shape for distinguishing *T. popeiorum* from *T. stejnegeri*.

According to the current status of our knowledges, the following taxa are present in continental China [C], Hainan Island [I], Hong Kong [H], Macau [M] and Taiwan [T]:

Ovophis monticola (Günther, 1864) [C, H, T]
  Ovophis monticola monticola (Günther, 1864) [C]
  Ovophis monticola makazayazaya (Takahashi, 1922) [T]
  Ovophis monticola orientalis (Schmidt, 1925) [C, H]
  Ovophis monticola zhaokentangi Zhao, 1995 [C]
Ovophis tonkinensis (Bourret, 1934) [I]
Ovophis zayuensis Jiang *in* Djao & Jiang (1977) [C]
Ermia mangshanensis Zhao *in* Zhao & Chen, 1990 [C]
Trimeresurus albolabris (Gray, 1842) [C, I, H]
  Trimeresurus albolabris albolabris (Gray, 1842) [C, I, H, M]

Trimeresurus gracilis Oshima, 1920 [T]
Trimeresurus jerdonii Günther, 1875 [C]
Trimeresurus medoensis Zhao *in* Djao & Jiang (1977) [C]
Trimeresurus mucrosquamatus (Cantor, 1839) [C, H, T]
Trimeresurus stejnegeri Schmidt, 1925 [C, I, T]
Trimeresurus stejnegeri stejnegeri Schmidt, 1925 [C, T]
Trimeresurus stejnegeri chenbihuii Zhao, 1995 [I]
Trimeresurus tibetanus Huang, 1982 [C]
Trimeresurus xiangchengensis Zhao, Jiang & Huang, 1978 [C]
Trimeresurus yunnanensis Schmidt, 1925 [C]

Taxa not recorded in China but occuring close to its border and considered in our key:

Ovophis monticola convictus (Stoliczka, 1870)
Trimeresurus albolabris septentrionalis Kramer, 1977
Trimeresurus cornutus Smith, 1930
Trimeresurus erythrurus (Cantor, 1839)
Trimeresurus kaulbacki Smith, 1940
Trimeresurus popeiorum Smith, 1937

Mobile maxillary fangs; loreal pits present, upper head surface covered with small, irregular shields: *Trimeresurus*-complex.

1A Overall dorsal color chiefly bright green or bluish green in life, green or blackish in preservative, with or without small dark markings and a ventrolateral stripe **2**
1B Overall color brownish, greyish or dull dull greenish, always with well defined large blotches, usually darker, or lighter with dark edges **10**

2A First supralabials fused with nasals or incompletely separated by a groove **3**
2B First supralabials totally separated from nasals by a suture (two independant scales) **5**

3A Upper head scales flat, smooth and imbricate; temporals smooth or feebly keeled; usually 21 (rarely 23) dorsal scale rows at midbody **4**
3B Upper head scales granular or tuberculate and juxtaposed; temporals strongly keeled; usually 23-25 (very rarely 21) dorsal scale rows at midbody ..... ***T. erythrurus***

4A Side of head below eyes yellow, white or pale greenish, much lighter than the remaining part of the head; total length of females up to 104 cm; from southern China to Darjeeling area, Myanmar and farther south ..... ***T. albolabris albolabris***
4B Side of head below eyes green or blue green, barely lighter than the remaining part of the head; total length of females up to 75 cm; Nepal and northern India ..... ***T. albolabris septentrionalis***

5A 17 scale rows at midbody; less than 150 ventrals; 8 supralabials ..... ***T. medoensis***
5B 19-23 scale rows at midbody; more than 150 ventrals; 8-11 supralabials **6**

6A Less than 50 subcaudals; 8-9 supralabials; 21 dorsal scale rows at midbody; 2 or 3 supraoculars; rusty markings on dorsal parts and upper-head surface; Xizang Province and Nepal ..... ***T. tibetanus***
6B More than 50 subcaudals; 9-11 supralabials; 19-21 (rarely 23) dorsal scale rows at midbody; 1 single supraocular; no red markings on the back **7**

7A 19 scale rows at midbody; Yunnan and adjacent areas ..... ***T. yunnanensis***
7B 21 (rarely 23) scale rows at midbody **8**

8A Hemipenis short, rounded, spinose; base of tail much enlarged up to about 15-20 subcaudals in males; iris reddish in males; temporals usually smooth; canthus rostralis moderate **9**
8B Hemipenis long, slender, without spines; base of tail moderately enlarged up to 20-25 subcaudals in males; iris yellow or golden in both sex; temporals more or less keeled; sharp canthus rostralis ..... ***T. popeiorum popeiorum***

9A Ventrals 154-170 in males and 154-172 in females; continental China and Taiwan ..... ***T. stejnegeri stejnegeri***
9B Ventrals 156-178 in males and 166-174 in females; Hainan Island ..... ***T. stejnegeri chenbihuii***

10A Several erect supraoculars forming a horn ..... ***T. cornutus***
10B Supraoculars usually single, flat, not erected **11**

11A Body clearly elongated, head long, massive, with a narrow snout and a sharp canthus rostralis; subcaudals always paired; usually more than 160 ventrals; dorsal pattern made of irregular dorsolateral markings giving a wavy or zigzag pattern, or cross-bands, or rhombohedral dorsal blotches, or a speckled pattern **12**
11B Body rather short and stout; head short with a rounded snout; dorsal pattern made of dorsolateral dark squarish blotches, usually darker, or lighter with dark edges, confluent on the vertebral line, bordered below by other squarish blotches on the sides; subcaudals paired or single; less than 160 ventrals in specimens having paired subcaudals **16**

12A 2 consecutive, small, rectangular loreals between the nasal and the higher preocular; 10 or more cephalic scales in a row between the supraoculars; dorsal color greyish or light brown; pattern made of irregular or triangular dorsal blotches giving a wavy, zigzag or sawteeth-like appearance **13**
12B 1 large, squarish loreal; 10 or less cephalic scales in a row between the supraoculars; dorsal color either mostly dull greenish, with dorsal rhombohedral blotches, or speckled with black, or brownish with yellowish green transverse bands **14**

13A Usually more than 195 ventrals and more than 75 subcaudals; 9-12 supralabials; 25-31 (rarely 23-33) dorsal scale rows at midbody; usually 13-16 (rarely 11-18) scales in a row between the supraoculars; 2 or 3 scale rows between supralabials and the subocular; pattern made mostly of irregular dorsal blotches giving a wavy appearance ..... ***T. mucrosquamatus***
13B Less than 195 ventrals and less than 72 subcaudals; 7-8 supralabials; 25 dorsal scale rows at midbody; 10-12 scales in a row between the supraoculars; 1 or 2 scale rows between supralabials and the subocular; pattern made mostly of triangular, downwards pointed, dorsal blotches giving a saw-like appearance ..... ***T. xiangchengensis***

14A 2nd supralabial high, bordering the anterior side of the loreal pit; pattern not made of irregular cross-bands **15**
14B 2nd supralabial low, not bordering the anterior side of the loreal pit; dorsal pattern made of irregular, contiguous or more or less alternating blackish brown dorsolateral blotches giving the appearance of irregular cross bands on a yellowish-green background ..... ***E. mangshanensis***

15A 21 (very rarely 19, rarely 23) dorsal scale rows at midbody; less than 195 ventrals; internasal very large; 4th supralabial nearly as large as the 3rd one; two different patterns: either dull green above, with large, oval, reddish, black-edged dorsal blotches, or almost entirely blackish, heavily speckled with yellow spots ..... ***T. jerdonii***

15B 25 dorsal scale rows at midbody; 200 or more ventrals; internasals very large; 4th supralabial smaller than the 3rd one; dorsal surfaces dull greyish green in life or in preservative, with blackish, rhombohedral dorsal blotches separated or united to one another; smaller spots on the sides; symmetrical yellow lines on the head ..... ***T. kaulbacki***

16A 19 (rarely 21) scale rows at midbody; 2nd supralabial not bordering the loreal pit; endemic to Taiwan ..... ***T. gracilis***

16B 23-27 (very rarely 21) scale rows at midbody ..... (***Ovophis monticola*-group) 17**

17A Subcaudals single (or rarely only a few paired) **18**

17B Subcaudals paired (or rarely a few single) **19**

18A More than 160 ventrals; 10 supralabials, the 3rd the largest; 2nd supralabial high, bordering the anterior side of the loreal pit; 3-5 scales on the upper surface of the snout between a line connecting anterior borders of the eyes and the internasals; Xizang Province ..... ***O. zayuensis***

18B Less than 140 ventrals; 8-10 supralabials, the 4th the largest; 2nd supralabial bordering the anterior side of the loreal pit or not; 5-7 scales on the upper surface of the snout between a line connecting anterior borders of the eyes and the internasals; Vietnam and Hainan Island ..... ***O. tonkinensis***

19A 4th (sometimes the 5th) supralabials the largest **20**

19B 3rd supralabials the largest **22**

20A 10-12 (exceptionally 8, rarely 9) supralabials; internasals usually in contact; less than 160 ventrals; total number of ventrals plus subcaudals 169 to 204 ..... **21**

20B 8-9 supralabials; internasals separated by 2 small scales; 159 or more ventrals; total number of ventrals plus subcaudals 215 to 225; western Yunnan ..... ***O. monticola zhaokentangi***

21A 23-25 (exceptionally 21 or 27) dorsal scale rows at midbody; 132-154 ventrals, 33-48 subcaudals; total number of ventrals plus subcaudals 169 to 193; continental China ... ***O. monticola orientalis***

21B 25-29 dorsal scale rows at midbody; 144-155 ventrals, 39-54 subcaudals; total number of ventrals plus subcaudals 188 to 204; endemic to Taiwan ..... ***O. monticola makazayazaya***

22A 23-25 (rarely 21) dorsal scale rows at midbody; 135-156 ventrals, 33-62 subcaudals; 8-9 supralabials; Himalaya eastwards up to western Yunnan, India, Bangladesh, Myanmar ..... ***O. monticola monticola***

22B 21-23 (very rarely 25) dorsal scale rows at midbody; 127-152 ventrals, 22-54 subcaudals; 7-9 (exceptionally 10) supralabials; Vietnam, Thailand, Malaya, Sumatra ..... ***O. monticola convictus***

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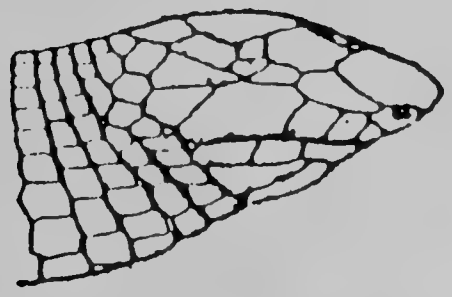

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INTRODUCTION

The following alphabetical listing of these three Florida publications by author(s) covers all the papers dealing with amphibians and reptiles that have appeared in these publications.

The Florida Academy of Sciences was originally published as Proceedingss through volume 7. Volumes 1-5 appeared as one number a year with 6-7 becomming quarterly. Volume 6 numbers 1-2 were not numbered consecutively but number three picked up page numbering as if numbers 1-2 were. Volumes 8-35 had the name changed to the Quarterly Journal of the Florida Academy of Sciences. Volume 36 to the present became Florida Scientist. All titles from the three different names are listed together as for all practical purposes they are the same. Supplements were issued for some volumes which consists of the program and abstracts for the yearly meetings. Articles from the supplements are identified by an :Abs. after the title. Titles by name only are not listed.

The Florida Field Naturalist had volumes 1-8 published twice yearly and 9-20 quarterly.

The Florida Naturalist is the organ of the Florida Audubon Society and consisted of six numbers a year beginning in October, 1927 until volume 53 when it became a quarterly.

All junior authors are listed and cross referenced to the senior author. All articles with original names are preceded by an * (asterisk).

All scientific names of amphibians and reptiles are listed alphabetically and referenced to the numbered article(s) they appear in numerical order. The Florida Academy of Sciences are just numbered from 1-198. The Florida Field Naturalist has the prefix **F** followed by numbers from 199-225. The Florida Naturalist has the prefix **N** fillowed by numbers 226-326. No names in bibliographies are listed. All original spellings are maintained. Those ending i or ii, if both are used, is given with ii. All original names are given in **bold**.

The author wishes to thank C. Gans for suggesting this project and for suggesting the addition of the scientific name index G. R. Zug and W. R. Heyer. D. L. Auth checked and furnished photocopies of several missing numbers that were not available to me.

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1. Allen, E. Ross. 1938. Florida snake venom experiments. 2: 70-76.
2. -----. 1939a. Notes on Florida watersnakes. 3: 101-104.
3. -----. 1939b. Notes on the feeding and egg-laying habits of the Pseudemys. 2: 105-108.

Allen E. Ross, **see** Neill, Wilfred T., 1955, 1962.

4. Altig, Ronald. 1972. Defensive behavior in Rana areolata and Hyla avivoca. 35: 212-216.
5. Arata, Andrew A. 1958. Notes on the eggs and young of Gopherus polyphemus (Daudin). 21: 274-280.

Arata, Andrew A., **see** Myers, Charles W., 1961.

6. Arndt, Rudolf G. 1991. Predation on hatchling diamondback terrapin, Malaclemys terrapin (Schoepff), by the ghost crab, Ocypode quadrata (Fabricius). 54: 215-217.
7. Auffenberg, Walter. 1954. Additional specimens of Gavialosuchus americanus (Sellards) from a new locality in Florida. 17: 185-209.
8. -----. 1956. Additional records of Pleistocene lizards from Florida. 19: 157-167.
9. *-----. 1957a. A new species of Bufo from the Pliocene of Florida. 20: 14-20.
10. -----. 1957b. Notes on fossil crocodilians from southeastern United States. 20: 107-113.
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INTRODUCTION

The present alphabetical listing by author (s) covers all the papers concerning herpetology that have appeared in the Occasional Papers of the Museum of Zoology since its beginning in 1913, along with the monographic series Miscellaneous Publications of the Museum of Zoology, and five publications appearing in the Laboratory of Vertebrate Biology series.

Junior authors are listed alphabetically and cross referenced to the senior author. All articles in this bibliography can be located by knowing the author(s) or the title.

All herpetological scientific names are listed alphabetically and referenced to the article(s) where they are mentioned. This is supplemented by a numerical listing of museum numbers and authors, which makes references available to those not having excess to complete series within their libraries, and needing inter-library assistance.

All original spelling have been maintained and new scientific names are highlighted. Occasional Papers of the Museum of Zoology are cited by the initials (OP); Miscellaneous Publications and Laboratory of Vertebrate Biology as (MP) and (LVB respectively. The number of the publication and the first page number of the article where the name appears are given, although in certain instances where the name is cited throughout a monograph, and considered of importance, the name is cited as several page listings.

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Houma, Louisiana

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INTRODUCTION

The present numbered alphabetical listing by author(s) covers all the papers of a herpetological interest that have been published in Volumes 1-50, 1939-1990 of the *Great Basin Naturalist*. Thejournal consists of four numbers a year, occasionally some numbers combined.

All the junior authors are listed alphabetically and cross referenced to the senior author. All articles with original namesare preceded by an *.

In the scientific name index all scientific names of amphibians and reptiles are listed alphabetically and referenced to the numbered article (s) they are used in. All original spellings are maintained even though it is known they are mispelled. No scientific names in bibliographies or literature cited are used. When names appeared with both **i** or **ii** then **ii** is used for both. All original names are **boldfaced**.

The author wishes to thank C. Gans for suggesting this project. For suggesting the addition of a scientific name index C. R. Zug and W. R. Heyer.

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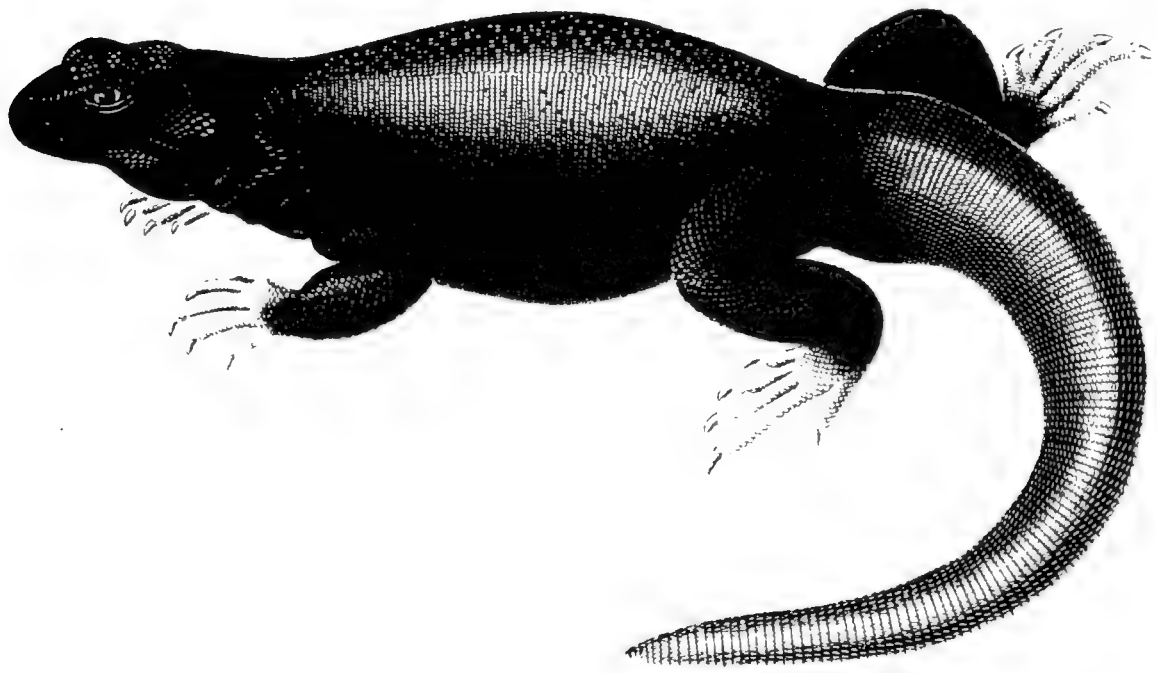

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Introduction

The lizard genus *Sauromalus* consists of a diverse group of diurnal herbivores inhabiting the deserts of southwestern United States and northwestern México, including more than 26 islands in the Gulf of California. Commonly known as chuckwallas, these large iguanids generally live on volcanic or granitic substrates, although some species also prefer nearby arroyo bottoms. Chuckwallas display a wide array of color patterns that undergo a degree of ontogenetic transformation, sometimes becoming sexually dichromatic. Body size varies from large to small, although when compared to other iguanid lizards, chuckwallas are approximately one half the size of the largest members in the family. Some species exceed an impressive snout-vent length of more than 300 mm, while others reach 220 mm or less.

The genus is well supported as a natural group within Iguanidae based on numerous morphological novelties (de Queiroz 1987). These unique features are associated with chuckwallas preference for rocky habitats and their ability to retreat into rock crevices to seek shelter. Their dorsoventrally compressed body results from a compression of both the pectoral and pelvic girdles, a more slender mandible, reduced neural spines, and the absence of a mid-dorsal scale row Once inside a crevice, chuckwallas inflate their lungs if harassed, effectively wedging them into place and making extraction difficult.

As many as nine species have been described within *Sauromalus*, although only seven species are recognized at present (Table 1). In recent years, many authors have called into question the number species within the genus and the geographical boundaries in which they occur (Robinson 1972; Case 1982; Stebbins 1985; de Queiroz 1987). These taxonomic controversies are primarily the result of outdated systematic methodologies, insufficient diagnoses, and the absence of a reported type locality for the holotype, *Sauromalus ater*. The last taxonomic study of the entire genus was completed by Shaw (1945). Currently, the only formal phylogenetic analysis of the chuckwalla species is a unpublished Master's thesis (Hollingsworth, 1995) that is being edited for publication.

As this bibliography shows, chuckwallas have been the focus of numerous biological pursuits. *Sauromalus obesus* has been the main focus of investigation in studies requiring large sample sizes and long-term observation. Their wide-use in research is primarily the result of their accessibility from the United States. Some researchers have undertaken the extra effort in documenting the diet, behavior, ecology, and evolution of the insular endemics, *S. hispidus* and *S. varius*, which are found on the Mexican islands in the mid-rift region of the Gulf of California. Other species, such as, *S. ater*, *S. klauberi*, *S. slevini* and *S. australis* have received less attention. The sporadic literature on these species is most likely due to their inaccessibility on small islands in the Gulf of California and the remoteness of Baja California.

This bibliography provides the essential references for all those interested in these fascinating lizards. It was assembled with information from a variety of sources, relying most heavily on Zoological Record through December 1996. Every technical and popular article dealing with new information or syntheses of previous knowledge are included. The cover illustration of *Sauromalus obesus* is from Baird (1859).

We thank the following institutions for their help in compiling this bibliography: Section of Herpetology, Los Angeles County Museum of Natural History, Department of Biology, San Diego State University; Tierra Madre Consultants; Del Webb Memorial Library, Loma Linda University; Department of Natural Science, Loma Linda University; and Department of Biology, La Sierra University

Table 1. Various Classifications of *Sauromalus*.

Van Denburgh, 1922:

Sauromalus ater
Sauromalus interbrachialis
Sauromalus townsendi
Sauromalus hispidus
Sauromalus slevini
Sauromalus varius

Schmidt, 1922:

Sauromalus ater
Sauromalus hispidus
Sauromalus obesus
Sauromalus townsendi
Sauromalus varius

Shaw, 1945:

Sauromalus ater
Sauromalus australis
Sauromalus hispidus
Sauromalus klauberi
Sauromalus slevini
Sauromalus obesus townsendi
S. obesus tumidus
S.obesus obesus

Etheridge, 1982:

Sauromalus ater ater
S. ater klauberi
S. ater shawi
Sauromalus australis
Sauromalus hispidus
Sauromalus obesus multiforminatus
S. obesus townsendi
S. obesus tumidus
S. obesus obesus
Sauromalus slevini
Sauromalus varius

Consensus of various authors as of 1996:

Sauromalus ater ater
S. ater shawi
Sauromalus australis
Sauromalus klauberi
Sauromalus hispidus
Sauromalus obesus multiforminatus
S. obesus townsendi
S. obesus tumidus
S. obesus obesus
Sauromalus slevini
Sauromalus varius

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BIBLIOGRAPHY AND SCIENTIFIC NAME INDEX TO AMPHIBIANS AND REPTILES IN THE SOUTHWESTERN NATURALIST VOLUMES 1-40, 1956-1995

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INTRODUCTION

This bibliography and index to *The Southwestern Naturalist*, volumes 1-40, is the result of independent work by the authors. Upon learning of their duplication of efforts it was decided to combine our efforts. As a result errors or omissions by either author (and there were some) was discovered and corrected, hopefully to make a publication useful to the herpetological community.

The present bibliography is a numbered alphabetical listing by author(s) of all the papers of herpetological interest published in *The Southwestern Naturalist*, Volume 1, 1956 through Volume 40, 1995. Volume 36 (4): 377-674 is not included as this is a complete index of volumes 1-36, 1956-1991 and to include this would be repetitious. Book reviews are included when of a herpetological nature. These are followed by : A review, after the title. Primary articles and notes are treated equally. Junior authors are referenced to the primary author. Errata notices are referenced to the original article and treated as a paper for completeness. All articles with original names are preceded by an *. and original names are **boldfaced**. The scientific name index includes all the herpetological scientific names included in the various articles. Names in the Literature Cited and Book Reviews are not included. The numbered articles are listed for each taxon in numerical order with the **first** page of the use of the name. Those names ending in **i** or **ii** are both listed under **ii** whenever both versions appear, otherwise as used in the articles. All spelling variations are maintained even when it is obvious that it is a typo.

Our sincere thanks to C. Gans for suggesting this project and to G. R. Zug and W. R. Heyer for suggesting the inclusion of the scientific name index and to H. S. Smith for suggesting we combine our efforts.

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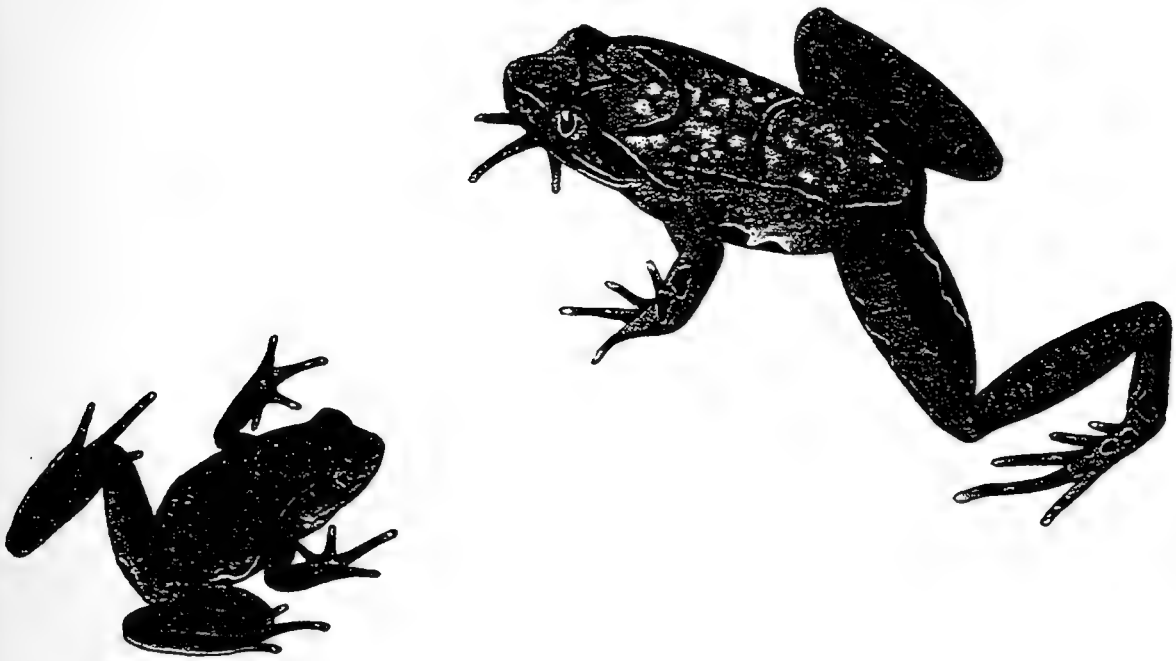
SCIENTIFIC NAME INDEX

TRANSLATIONS
OF
TWO NEW SPECIES OF AMPHIBIANS IN TIBET
<HUANG & FEI 1981>
AND
DESCRIPTION OF TWO NEW SPECIES OF THE GENUS MEGOPHRYS
<FEI, YE & HUANG 1995>



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&
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Royal Ontario Museum

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INTRODUCTION

Since 1994 we have been collaboratively involved in biodiversity inventories in Vietnam. Our investigations, conducted in association with the Institute of Ecology and Biological Resources (Hanoi) and the Zoological Institute of St. Petersburg (Russia), have led us to understand that the amphibian fauna of Vietnam is poorly known. The most current, comprehensive review of the amphibians of this region was done by BOURRET (1942). Bourret estimated that 82 species of amphibians occurred in Vietnam. However, our recent efforts suggest that this figure grossly underestimates Vietnam's amphibian diversity.

As we work to identify our herpetological collections from Vietnam, it is imperative that we have access to the literature that includes the herpetofauna from regions adjacent to Vietnam. In addition to BOURRET (1942), the reviews of INGER (1954, 1966) on the Philippine Islands and Borneo, respectively, and TAYLOR'S (1958, 1962) reviews of Thailand herpetofauna have been indispensable. However, a great deal of Vietnam's herpetofauna is shared with China. The works of POPE (1931) and LIU (1950) have supplied us with the older descriptions of many Chinese amphibians. Since the mid 1980's much significant work has originated from within China. Several new species have been described and numerous taxonomic accounts and revisions have been given in Chinese. Recently, we began to translate these descriptions, particularly those pertaining to megophryid frogs. The papers are likely to be useful to other biologists, and we present two of these translations herein:

YONG-ZHAO HUANG AND LIANG FEI. 1981. Two new species of amphibians in Tibet. Acta Zootaxonomica Sinica 6(2): 211–215.

LIANG FEI, CHANG-YUAN YE AND YONG-ZHAO HUANG. 1992. Description of two new species of the genus *Megophrys*, Pelobatidae (Amphibia: Anura) from China. Zoological Research 13(1):5–12.

These articles describe four species of anurans — *Megophrys pachyproctus* HUANG, *Rana conaensis* FEI AND HUANG, *Megophrys glandulosa* FEI, YE AND HUANG, and *Megophrys mangshanensis* FEI AND YE — from southern and western China.

Literal translations of text from Chinese to English often creates long, complex sentences. We have endeavored to maintain as literal a translation as possible, but without compromising English grammar. Consequently, some Chinese sentences have become multiple English sentences.

ACKNOWLEDGMENTS

Translation of these articles was funded by the Natural Sciences and Engineering Research Council (NSERC) grant A3148 to R.W. Murphy. This SHIS publication is contribution 85 from the Centre for Biodiversity and Conservation Biology, Royal Ontario Museum. The figures were scanned from the original publication and the gray background was removed using Adobe PhotoShop.

BOURRET, R. 1941 Les batraciens de l'Indochine. Indochine: Institut Océanographique de l'Indochine, 1–517.

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Two New Species of Amphibians in Tibet

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(Northwest Plateau Institute of Biology, Academia Sinica)
Liang Fei
(Chengdu Institute of Biology, Academia Sinica)

In May and June of 1977, based on the initial survey of the amphibians of Tibet in 1973, the Northwest Institute of Biology, Academia Sinica, once again, went to Yadong, Chuona, Motuo in the south part of Tibet for an important survey. We also made short visits to Rikaze, Langxian, Linzi, Bomi, Mangkang, and other places. We found two new species. Type specimens are kept separately in the Northwest Plateau Institute of Biology, Academia Sinica, and the Chengdu Institute of Biology, Academia Sinica.

New species: ***Megophrys pachyproctus*** Huang, sp. nov.

Type species: Holotype ♂ (No. 770650), Allotype ♀ (No. 770652) and Paratype 1 ♂ (No. 770651), all collected on July 28, 1977 in Gelin, Motuo County, Tibet at an elevation of 1530m by Huang Yongzhao.

Diagnostic Characters: This new species is very similar to *Megophrys minor* Stejneger. The main differences are: the new species bears a vomerine ridge, lower part is swollen and bears thin teeth; the posterior end of the body of the male protrudes a slight bit and has an arc-shaped swelling. However, *M. minor* does not bear vomerine teeth, the posterior body of male does not have an arc-shaped swelling. Compared with *M. omeimontis,* body shape of adult new species is distinctly smaller.

Figure 1. *Megophrys pachyproctus* #770650 ♂

M. pachyproctus Gelin, Motuo, Tibet

Character	Holotype specimen 770650	2 ♂♂	1 ♀	Character	Holotype specimen 770650	2 ♂♂	1 ♀
Body length	35.3	35.3–36.2 35.8	35.8	Forearm and hand length	17.9	17.9–18.4 18.2 50.8%	18.7 52.2%
Head length	12.5	12.5–13 12.8 35.8%	12.5 34.6%	Forearm width	2.7	2.5–2.7 2.6 7.3%	2.4 6.7%
Head width	12.4	12.4– 12.8 12.6 35.2%	12.9 36%	Hand length	9.9	9.9–10.1 10 27.9%	10.4 29.1
Snout length	4.8	4.7–4.8 4.75 13.4%	4.5 12.6%	Sotal length of leg	55.5	55.5–60 57.8 161.5%	60 167.6%
Internasal space	4	4 11.2%	3.9 10.9%	Tibia length	17.1	17.1–17.8 17.5 48.9%	17.8 49.3%
Interorbital space	4	4 11.2%	4.3 12%	Tibia width	4.8	4.3–4.8 4.6 12.8%	4.2 11.7%
Eyelid width	3.5	3.5–3.8 3.7 10.3%	3.2 8.9%	Tarsus and foot length	25.6	25.6–27 26.3 73.5%	27.5 26.8%
Diameter of eye	4.9	4.8–4.9 4.85 13.7%	4.7 13.1%	Foot length	16.8	16.8–17 16.9 47.2%	17.4 48.4%
Tympanum	1.7	1.7 4.7%	1.7 4.7%				

Note: Measurements are in mm, percentages are the comparison of each part with body length.

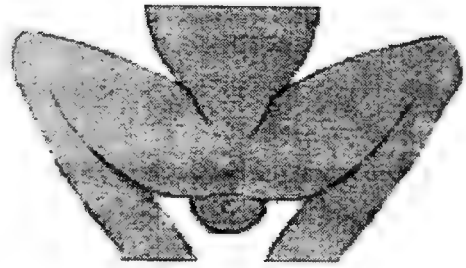

Figure 2. *Megophrys pachyproctus* showing anal region

Description of morphology: Body length of male 35.3–36 mm; head flattened, length and width nearly equal; snout tip bluntly rounded, shield like, distinctly protruding over lower lip, dorsal part of snout region concave; canthus rostralis very distinct, loreal region vertical and cheek surface concave; nostrils not easily seen in dorsal view, they are in the middle of snout and eyes; internasal space equal with interorbital space but a little larger than upper eyelid width; pupils vertical; tympanum oval, far away from eyes, about same distance as diameter of tympanum; two slanting vomerine ridges, posterior end swollen, bearing teeth, right and left not in contact; posterior end of tongue rounded, weakly notched.

Forearm narrow; finger tips rounded; no web between fingers; fingers long and narrow, digital formula: 3,4,2,1, first and second fingers nearly equal in length; no subarticular tubercles; inner metacarpal tubercles flattened but not very distinct. Hindlimb long, tibio-tarsal articulation reaches anterior to eye, right and left heels slightly overlapping, tibia length does not reach half of body length; toe tips rounded; no lateral fringes on toes, no web between toes; toes long and narrow, third slightly longer than fifth toe; no subarticular tubercles; at the base of the first toe is a swollen-like tubercle; inner metatarsal tubercles flattened, no outer metarsal tubercles.

Skin rough, dorsal body and four limbs all bear small light red warts both in rows and sparse, warts on middle of posterior dorsal occipital region "X"-shaped; longitudinal skin ridge from posterior supratympanic fold to hip with light red warts on it; skin folds at upper eyelid with many distinct folds; supratympanic fold obtusely angled, the part inclined to shoulder is thicker, warts also appear on folds; posterior end of the body of male protrudes slightly and appears as an arc-shaped swelling, then inclines to ventral body and reaches anal region. Dissected view: formed by a mass of adipose tissue under protruding skin, posterior of female does not have arc-shaped swelling. A few small round warts appear on lateral body and dorsal part of four limbs, femur and tibia are typical; a pair of light colored white glands appear on lateral chest; a pair of posterior femur glands present.

In life, dorsal body brownish yellow or dark brown; triangular dark marking edged with lighter color appear between the eyes; color along warts darker; upper lip edge bears light alternating with dark longitudinal stripes, one below eyes larger; color below supratympanic fold darker; 2–4 dark transverse stripes on forearms, and 4–5 on either side of femur and tibia; grayish brown or black-brown around vent, dorsally it is edged

with grayish white narrow stripe; pelvis, both anterior and posterior femur and anterior part of ventral femur are all orange-red colored; finger and toe tips light red; tarsal, metatarsal and ventral toes grayish brown or black-brown; many grayish black spots scattered on lateral body and whole ventral body, a grayish black short longitudinal stripe in the middle of throat region is distinct; small milky white spots along lower lip edge. Color marking on dorsal and ventral body in female are lighter than in male.

Secondary sex characters: first finger of male bears gray nuptial pad, with dense nuptial spines on it; internal single subgular vocal sac exists, opening of vocal sac small and interrupted; posterior body has swelling which protrudes a little bit and arc-like; no linea musculinae.

Ecology: On a rainy night of July 28, 1977, in the forest about 1500m above sea level, following the call that was a continuous "gazhi—gazhi—gazhi—……", two male *Megophrys* were collected in the bushes and branches of shrubs; a female was collected beside road which was not far away from a flowing ditch.

New species *Rana conaensis* Fei et Huang, sp. nov.

Rana liebigii Herpetology Research Section, Sichuan Institute of Biology, 1977, Acta Zoological Sinica, 23(1):56–57. (specimen from Chuona)

Type specimen: Holotype ♂ (No. 770531, collected on June 30, 1977 in Mama, Chuona County, Tibet at the elevation 2900m, by Huang Yongzhao), allotype ♀ (No. 770532, collected at the same time and same place with holotype), paratype (22♂♂, 8 ♀♀, 26 juveniles, ova and tadpoles, collected on June 24–30, 1977 in Mama, Chuona County, Tibet, at the elevation of 2900–3400m, Northwest Institute of Biology. 2 ♂♂, 1 ♀, 3 juveniles and tadpoles, collected on August 7 in Mama, Chuona County, Tibet at the elevation of 2900m,Chengdu Institute of Biology[1])

Diagnostic Characters: The new species is smiliar to *Rana liebigii* Guenther. Body size of new species is small, the largest body length of adult frog is not greater than 70mm, no dorsolateral fold; skin on both sides of anal region forms a slight "/\"-shaped air-filled sac, very distinct; internal arm of male frog does not bear cone-shaped black spines. Body size of *Rana liebigii* large, the greatest body length of an adult frog is more than 100mm; dorsolateral fold exists; skin on anal region does not bear air-filled sac; inner arm of male bears cone-shaped black spines.

Descrption of morphology: Average body length is 58mm in males, 55mm in females; head width slightly larger than head length, snout tip bluntly rounded, protruding

[1] * In 1977, two ♂♂, one ♀, three juveniles collected by Mr. Wenxuan Chao of Fishery Institute of Biology, Academia Sinica in Mama, Chuona County on August 7, 1974, were regarded as *Rana liebigii*. Now after obtaining more of the same species, we think they should be this new species, *Rana conaensis*.

over mandible; canthus rostralis not distinct, loreal region inclines outward; nostrils slightly closer to eyes, internasal space larger than interorbital space or upper eyelid width; pupils rounded; tympanum hidden; vomerine teeth in two short rows, slanting from choanae to mid-line, rows closer together posteriorly; large tongue, deeply notched at posterior end.

Forearm and hand length do not reach half of body length; finger tips ball-like, formula 3,4,1,2, first and second fingers nearly equal in length, slight lateral fringes on fingers; subarticular tubercles near tips of fingers distinct; three metacarpal tubercles, inner metacarpal tubercles big and oval shape, outer metacarpal tubercles small, narrow and long, hindlimb thick and strong, tibio-tarsal articulation extends anterior to eyes or nostrils, right and left heels overlap; tibia length larger than half of body length, tibia and foot almost same length; comparisons between toes and fingers, third and fifth toe almost same length; completely webbed between toes, first and fifth toe have very distinct lateral fringes, fringes over half the length of the web; subarticular tubercles distinct; inner metatarsal tubercles long oval shape, no outer metatarsal tubercles; no tarsal fold.

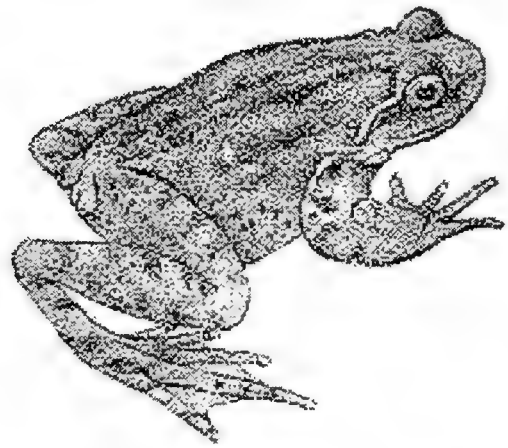

Figure 3. *Rana conaensis* ♂ No. 770531

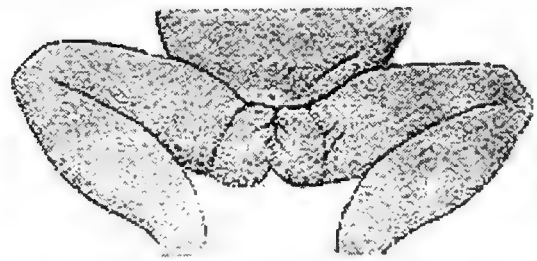

Figure 4. *Rana conaensis* showing anal region

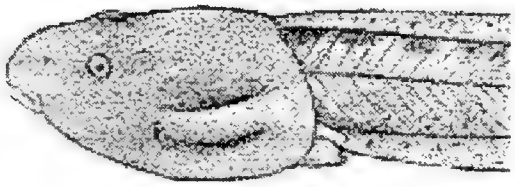

Figure 5. Tadpole of *Rana conaensis* showing air-filled sac.

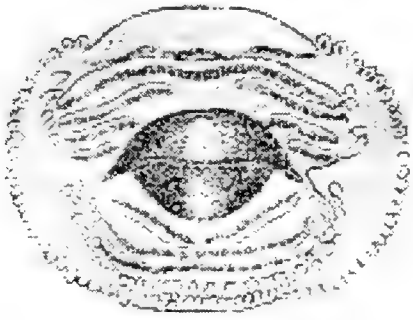

Figure 6. Mouth region of a tadpole of *Rana conaensis*

Skin smooth, small round warts or long warts sparse on dorsum and lateral body, dense on posterior body; no dorsolateral fold, only broken longitudinal rows of skin ridges on both sides of anterior dorsal body; granules scattered on warts or among skin ridges and on lateral head, dorsal part of four limbs, warts or granules all bear black spines or light spiney marks; horizontal skin groove between posterior corners of eyes; supra-tympanic fold distinct. Skin on anal region at posterior part of body in male loose, it forms a slight "Λ"-shaped sac from dorsum to anus to posterior base of thigh, very distinct, but not as distinct in females compared to that of males, absent in juveniles. Skin on ventral body smooth, two bunches of cone-shaped black spines on lateral chest of male, after black spines fall off, only two bunches of light fleshy tubercles remain; small spiny warts scattered on posterior part below tarsal and metatarsals.

In life, dorsal body of adult olive-brown, dark brown or grayish brown; black transverse stripe on anterior edge of transverse groove between eyes; three longitudinal rows of black-brown, small and big spots on dorsal body, generally linked to form three faint longitudinal stripes from posterior eyes along dorsal midline and both sides of body directly to posterior part of body; black-brown stripe starts on canthus rostralis through the eyes to the level below supratympanic fold; dark irregular stripes on both upper and lower lip edges; grayish brown spots on lateral body; dark transverse stripes on forelimbs mostly irregular; broken markings mostly appear on posterior thigh, some are not very clear. Ventral body grayish white or milky white, grayish brown or dark brown spots densely scattered on throat, chest and lateral belly, spots on posterior part of ventral

body and upper ventral thigh are few or none. Dorsal body of juveniles mostly olive-green, three longitudinal stripes on dorsal body very distinct; dorsal part of forelimbs olive-brown or grayish brown, transverse stripes on forelimbs very distinct; as size increases, green color on dorsal body will eventually decrease till reaching color of adult.

Secondary Sex Characters: Forelimb thick and strong, first and second fingers bear black cone-shaped nuptial spines, inner side of third finger also bears several nupital spines in a few specimens, two bunches of black cone-shaped spiny warts on lateral side of chest; internal single subgular vocal sac exists, opening of vocal sac is a slit and interrupted; linea musculinae exists on lateral body.

Eggs: Diameter of eggs is 3–3.5mm, animal pole brownish gray, vegetable pole milky yellow; two layers of gelatinous membrane are outside of eggs, outer layer thick and very sticky.

Tadpoles: In life, dorsal body olive-brown or dark brown, dorsal part of musculus candalis bears 3–5 dark transverse stripes or spots, color of caudal fin slightly lighter, dark brown spots densely scattered on caudal fin. Ventral body light colored, liver and intestine can be seen. When hindlimb bud is 3.4–7mm long, total body length is about 65mm, snout rounded, eyes dorsolaterally on head; spiracle on left side of body slanting to posterior upper level, does not form a free tube; skin on posterior lateral body loose, forming a slight air-filled sac; anus slants open on right side below base of tail; musculus caudalis well developed, caudal fin low, posterior tip bluntly rounded; mouth on ventral side of snout, about 5mm wide, lip wide, no papillae in middle part of upper lip, two rows of papillae on both sides of upper lip, widely separated from each other, external row of papillae small and dense, internal row big and sparse, near labial teeth; some bear 3–5 additional papillae; labial tooth formula often II: 3-3 / II: 1-1, individual II: 4-4 / II: 1-1 or II: 3-3/III. In addition, color of small tadpoles in life with an avarage 23mm body length is brownish gray on dorsum; milky yellow on venter; milky yellow on musculus caudalis, also; caudal fin light with sparse gray tiny spots, two rows of papillae on corner of mouth and mandible, widely separate; labial teeth formula often II: 2-2 / II: 1-1, some I: 3-3 / II: 1-1 or II: 3-3/ II: 1-1. When tail length of tadpole in metamorphosis is 8–14mm, body length is19–23.2mm, essentially having adult frog characteristics, warts or skin ridges on dorsal body starts to show, transverse stripes on forelimbs are more regular and clearer than adults.

Ecology: This species often rests in small streams, spring runs and nearby water puddles at an elevation of 2850–3400m, mostly hidden under rocks, fallen trees beside streams or under roots beside ditches, occasionally stays on rocks beside the bank or among bushes, when scared, jumps into water immediately and escapes, very hard to catch. Eggs either single or several linked together and stuck unevenly on fallen trees or under rocks in shallow water. Tadpoles move around either in the cracks of rocks or under stones in small slow moving streams, or among aquatic plants beside spring water or slow areas under the tree roots.

Rana conaensis Mama, Chuona Tibet

Character	Holotype specimen 770531	20♂♂	9♀♀	Character	Holotype specimen 770531	20♂♂	9♀♀
Body length	57.6	43.5–69 58	46.1–68.4 55.2	Forearm and hand length	26.2	21.2–33.5 27.6 47.6%	21.7–27.6 24.3 44%
Head length	18.3	15–22 18.8 32.4%	15.2–21 17.8 32.2%	Forearm width	9.5	5.2–12.3 9.4 16.2%	4.3–6.5 5.4 9.8%
Head width	20.8	16–24 20.2 34.8%	16.6–23.7 19.5 35.3%	Hand width	15.9	13.3–20.5 17.2 29.7%	13.5–17.2 15.1 27.4%
Snout length	8.3	6.4–9.3 8.2 14.1%	6.9–9 7.8 14.1%	Total length of leg	102	75–132 103.6 178.6%	80–107 92.6 167.8%
Internasal space	6.4	4.7–7 6.1 10.5%	5–6.5 5.7 10.3%	Tibia length	31.5	24.5–40.7 32.2 55.5%	25.4–33.3 29.2 52.9%
Interorbital space	4	3.6–5 4.4 7.5%	3.5–4.2 3.9 7.1%	Tibia width	8.5	6.8–12.1 10.2 17.6%	7.4–10 8.6 15.6%
Eyelid width	4.7	3.3–5.4 4.7 8.1%	4–5.2 4.5 8.2%	Tarsal and foot length	46	34.4–58.3 46.2 79.7%	35.7–47 41.6 75.4%
Diameter of eye	6.3	5.2–7.5 6.3 10.9%	5.3–8 6.2 11.2%	Foot length	31	23.5–39.5 31.4 54.1%	24.4–31.7 28.1 50.9%

10 tadpoles of *Rana conaensi* Mama, Chuona, Tibet

Total body length	59.3–70.4 64.4	Snout to spiracle	12–14 13 59.6%	Tail height	10–11.2 10.6 48.6%
Head and body length	20.4–23 21.8	Interorbital space	4.6–5.2 4.9 22.5%	Musculus caudalis width	5.6–6.8 6.3 28.9
Body height	10–11.2 10.6 48.6%	Mouth width	4.3–5.2 5 22.9%	Hindlimb	3.4–7 4.9 22.5%
Body width	13–14.5 13.4 61.5%	Tail length	38.5–48.2 42.6 195.4%		

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Description of two new species of the Genus *Megophrys*, Pelobatidae (Amphibia: Anura) from China

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Abstract: In 1975 and 1987, two species of *Megophrys* were collected separately in Yizhang, Hunan and Jingdong, Yunnan. Afterwards, we compared them to existing species of *Megophrys*, especially to the similar species *M. lateralis* (Anderson) using external morophology and characters of the skull. We found they were greatly different, so we regard them as two new species, *M. mangshanensis* and *M. glandulosa*. This article gives a description of the morphology and ecology of these two new species.

Key words: Amphibia, Pelobatidae, *Megophrys mangshanensis* new species, *M. glandulosa* new species, systematics.

During our expeditions to Yizhang, Hunan in 1975, and Jingdong, Yunnan in 1987, we found two types of species of *Megophrys,* Pelobatidae. After a comparison of these species to existing species of the genus, we found their body sizes, shapes, and morphological characters to be very close to *M. lateralis*. After further studies of these three similar species using their external morphology and the characters of skull, we found them distinctly different (please see Table 1, figure 1–4 and Liu, 1961). Therefore, we believe the two specimens collected from Jingdong, Yunnan and Mangshan, Hunan are new species and we name them as *M. glandulosa* and *M. mangshanensis*.

Type specimens are all kept in Chengdu Institute of Biology, Academia Sinica.

Now the description of the morphology and ecology are recorded as follows:

Megophrys glandulosa Fei, Ye et Huang, new species

Holotype: No. 873112, adult male; Wuliang Shan, Jingdong, Yunnan Province. elevation 1900m, collected on March 29, 1987 by Fei Liang.

Allotype: No.873201, adult female; Wuliang Shan, Jingdong, Yunnan Province. elevation 2100m; collected on May 2, 1975.

Paratype: 25 ♂♂, 2 ♀, collected in the same place as the holotype, elevation 1900–2100m; collected on March 29–30, 1987 by Fei Liang, Huang Yongzhao, Luo Jiarui.

Diagnostic characters: the main distinguishing differences of this new species from the similar species *M. lateralis* (Anderson) are: snout pointed; big swollen bean-like gland at the posterior part of supratympanic fold; many large warts on side of body; toes with wide fringes; numerous large, dark spots on posterior part of belly and ventral part of thighs; nasals in contact with sphenethmoid; squamosal separated from frontoparietal, prootic on dorsal part entering the orbit. In comparison, in *M. lateralis*; snout short and rounded; no bean-like gland on posterior part of supratympanic fold; small warts on side of body; toes with narrow fringes; no spots on posterior part of belly and ventral part of thighs; nasal not in contact with sphenethmoid; squamosal in contact with frontoparietal, prootic on dorsal part not entering the orbit.

Description of morphology: male body length 76.3–81mm, female 76.5–99.5mm. head flattened, head width slightly larger than head length, snout shield-like, narrow and pointed, obviously extending over mandible; canthus rostralis very distinct, loreal region almost vertical, slightly concave; tympanum distinct; large tongue, pear-shaped, posterior end slightly notched; vomerine ridge very distinct, inclined medially, 3–4 teeth at end of ridge.

Finger tips ball-like, second finger shorter than first and fourth fingers; no subarticular tubercles, inner metacarpal slightly distinct. Hindlimb long, tibio-tarsal articulation extends anterior to nostril up to tip of snout, right and left heels overlapping, tibia length greater than half of body length; finger tip and toe tip same; third toe slightly longer than fifth toe; toe with very wide fringe (narrow in female), base of toes with rudimentary web; no subarticular tubercles, inner metatarsal tubercles flatten, a little distinct, no outer metatarsal tubercles.

Dorsal skin smooth, more small warts on head and shoulder, less on anterior part of dorsal body, big granules between shoulders forms narrow skin ridge in the shape of a "V"; several distinct small granules on posterior body; both sides of body bear a longitudinal skin ridge formed by small warts. Big warts on lateral body, roughly over ten on each side, small warts dispersed among them; external fringe of upper eyelid bears a undistinguished horn; supratympanic fold long, straight and flat anteriorly, curving over the tympanum extending to the shoulder, and gradually expanded, terminating in a bean-like gland; upper and lower lip margins, temporal region, and tympanum all bear a few small tubercles; edge of upper lip bears small saw tooth-like papillae; dorsal part of fore limbs bear a few small tubercles. Entire ventral skin smooth, a pair of axillary glands located on the chest laterally, very small, distinctly smaller than width of finger tip; round warts at posterior femur are very obvious; femoral gland round, larger than width of toe tip.

Secondary sex characteristics: male has brown black nuptial pads on first and second fingers, and an internal single subgular vocal sac, opening of vocal sac is long and interrupted.

Table 1. Comparison in morphological characters of three closely-related species of *Megophrys*

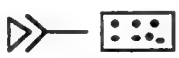
Species		*M. glandulosa*	*M. mangshanensis*	*M. lateralis*
Location		Jingdong, Yunnan	Mangshan, Hunan	Mengyang, Yunnan
Elevation		1900–2100m	1000m	700m
Head bones	anterior end of ethmoid cartilage	sharp	round	round
	right and left nasals	in contact	separate	in contact
	nasal and sphenethmoid	overlapping	overlapping	separate
	squamosal and frontoparietal	wide separate	in contact	in contact
	prootic	entering the orbit	not entering the orbit	not entering the orbit
External characters	snout region	narrow and sharp	wide and round	wide and round
	posterior part of supratympanic fold	expand to be bean-like	not bean-like	not bean-like
	warts on dorsal body	big and dense	small and sparse	small and sparse
	fringes on side of toe	very wide	none	narrow
	web between toes	rudimentary web	no web	rudimentary web
	patterns on dorsal body			
	stripe of upper lip margin	1	2	1
	throat region	light colored, black spots on both sides of throat	dark colored, no spots on both sides of throat	light colored, dark stripes on both sides of throat
	ventral body and ventral side of thigh	dark spots	no spot	no spot

Table 2. Measurements of *Megophrys glandulosa*

	Holotype ♂	10 ♂♂	3 ♀♀		Holotype ♂	10 ♂♂	3 ♀♀
Body length	78.4	76.3–81.0 78.2	76.5–99.5 87.0	Forearm and hand length	37.0	34.6–38.0 36.4 46.5%	34.6–43.9 40.0 46.0%
Head length	28.6	27.7–30.5 28.8 36.8%	28.7–32.6 30.1 34.0%	Forearm width	6.8	6.5–9.4 7.6 9.7%	5.6–9.0 7.7 8.9%
Head width	29.5	28.2–31.1 29.4 37.6%	30.5–35.2 32.1 36.9%	Hand width	21.6	20.5–23.0 22.0 28.0%	20.4–21.3 20.7 24.0%
Snout length	10.8	9.3–11.0 10.3 13.2%	10.2–12.1 11.1 12.8%	Total \length of leg	142.0	130.0–146.0 139.6 178.5%	137.0–161.0 146.3 168.2%
Interorbital space	8.8	7.0–9.5 8.0 10.2%	8.2–9.4 8.9 10.2%	Tibia length	46.8	43.9–47.3 46.0 58.5%	42.3–49.8 47.1 54.1%
Eyelid width	7.0	6.5–7.6 7.0 9.0%	7.0–8.2 7.4 8.5%	Tarsal and foot length	61.2	57.8–64.3 62.0 79.3%	57.6–71.5 64.6 75.1%
Diameter of eye	10.0	9.7–10.8 10.3 13.2%	9.0–10.7 9.8 11.3%	Foot length	40.6	38.8–43.2 41.2 52.7%	39.0–47.2 44.1 50.7%

Note: Measurements in mm, percentages are comparisons with body length.

In life, dorsal body dark brown or brownish gray, brownish black triangular spot appears between eyes, patterns vary tremendously in the middle of dorsum, most often "V"-shaped spot outlined with light colored stripe, on top of shoulder; irregular spots generally on posterior part of dorsum; dorsolateral, longitudinal skin ridge on dorsum dark brown; yellowish white color on top of supratympanic fold, black-brown color on canthus rostralis and below supratympanic fold; a yellowish white longitudinal stripe on upper lip region from nostril to posterior part of angle of jaw; large warts on dorsal body mostly are either bright yellow or part black and part yellow; warts on posterior femur and femoral gland are both bright yellow. Gray, tiny spots show on throat, edge of mandible bears light yellow spots, either side of throat bears an arc-shaped white narrow stripe, external side of stripe appears dark reddish brownish black and extends to anterior shoulder, which forms bilateral symmetrical big spots; yellowish white color on ventral body and ventral part of thigh region,

region, scattered densely with dark spots; internal part of forelimb and dorsal part of fingers bear very distinct dark spots; dorsal hindlimb brownish gray, bears 3–4 dark brown transverse stripes; color on dorsal part of limbs are dark, and gradually changes to a lighter color ventrally, ventral parts of metacarpals and metatarsals grayish black, color on ventral part of fingers and toes tips are light.

Characters of skull: Based on skulls of three male specimens No. 873063, 873065 and 873071 and one female specimen No. 873068, premaxilla almost vertical, alary process of premaxilla slightly inclined forward; anterior part of ethmoid cartiliage narrow and sharp; right and left nasals in contact at the mid-line, nasal and sphenethmoid overlap, not in contact with frontoparietal, sphenethmoid enters orbit on dorsal part; squamosal not in contact with frontoparietal, prootic enters orbit dorsally.

Ecological data: This frog lives in the mountain areas in coniferous and broad-leaf mixed forests at elevations of 1900–2100m. They occur in slowly flowing streams with bushes and grass growing on both sides of the banks. The water is very clear and there are many rocks in the water. This frog makes a continuous "xia, xia, xia, ……" sound in the afternoon and evening in March and April, making more sounds in the evening. It is very easy to collect them in the evening. In a female collected during the end of March, mature eggs in the belly had entered the fallopian tubes, and the eggs appear milky-yellow in color. The diameter of the eggs is about 2.3mm, with a total 954 eggs (left side 465, right side 489). Females collected in the early May do not have mature eggs in their bellies. Based on the gravid females collected, this species of frog may have its breeding season in April.

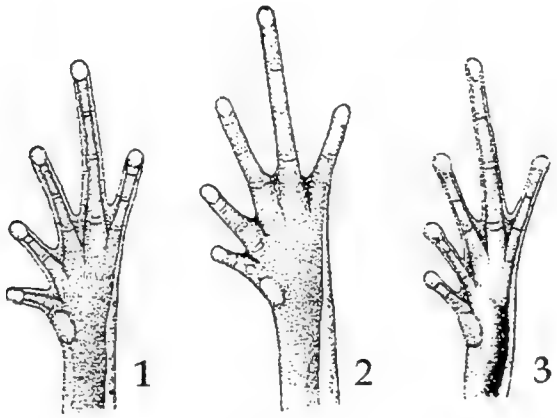


Figure 1. Foot characteristics of three similar species of *Megophrys* (ventral view) 1. *M. glandulosa* ♂ 2. *M. mangshanensis* ♂. 3. *M. lateralis* ♂ (Copied from Liu and Hu, 1961).

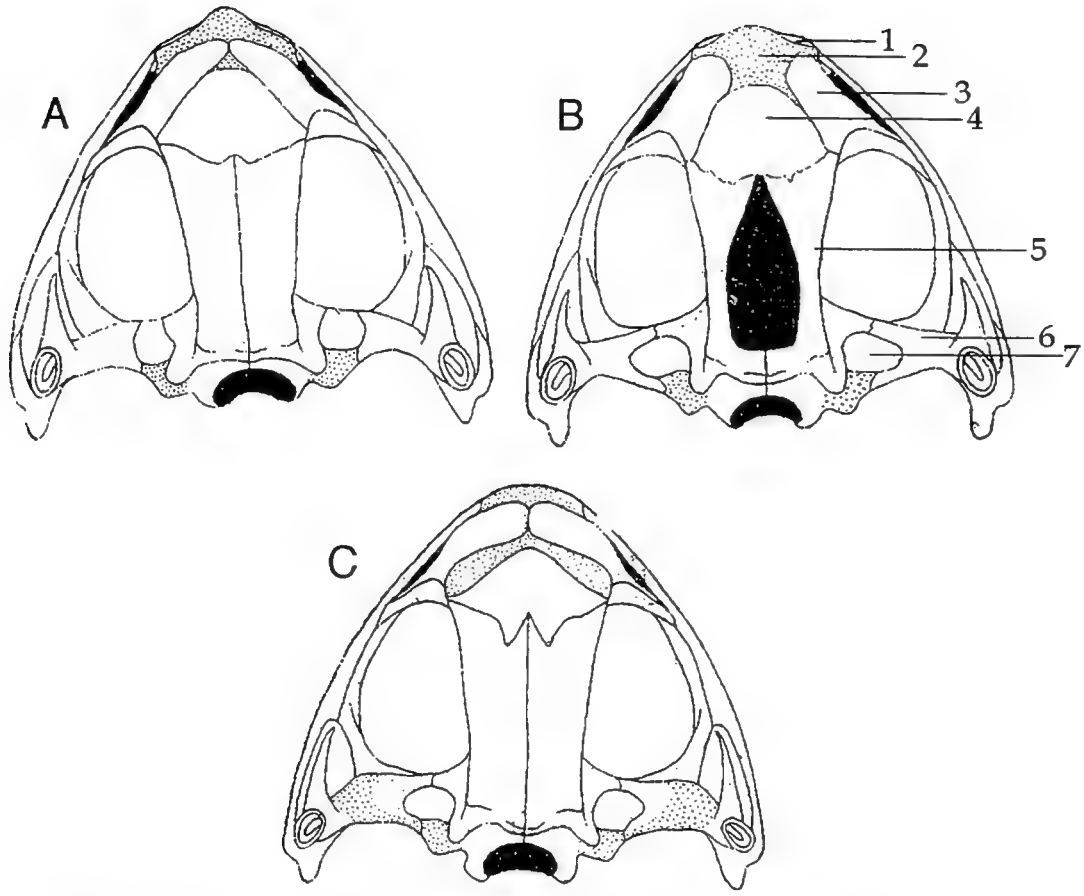


Figure 2. Skull characteristics of three similar species of *Megophrys* (dorsal view)
A. *M. glandulosa* ♂ B. *M. mangshanensis* ♂ C. *M. lateralis* ♀
1. alary process of premaxilla; 2. ethmoidcartiliage; 3. nasal; 4. sphenethnoid; 5. frontoparietal; 6. squamosum; 7. prootic.

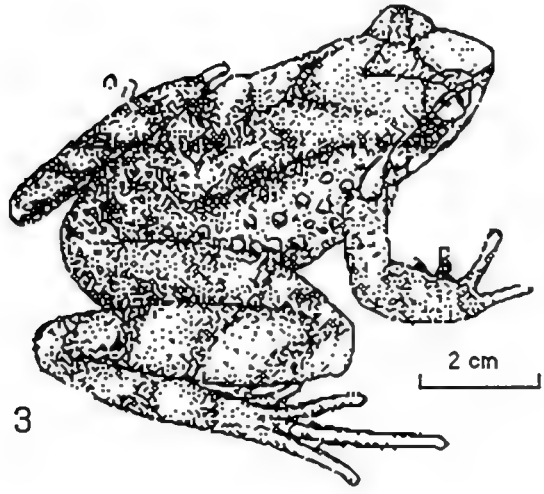


Figure 3. *M. glandulosa* ♂;

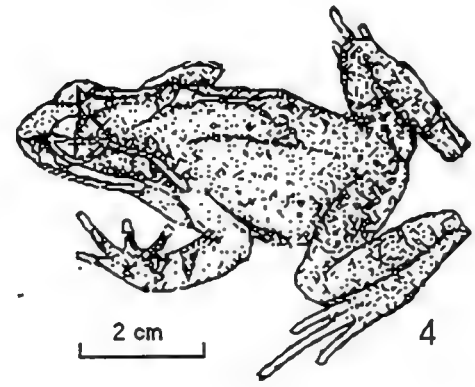


Figure 4. *M. mangshanensis* ♂.

Megophrys mangshanensis Fei et Ye, new species

Holotype: No. 75 I 0689, adult female; collected in Mangshan, Yizhang County, Hunan province at 1000m elevation on June 10, 1975.

Allotype: No. 75 I 0907, adult male; collected in the same place as holotype on June 25, 1975.

Diagnostic characters: The main distinguishing differences of this new species from its similar species *M. lateralis* (Anderson) are: no lateral fringes on toes and no webbing between toes; a very distinct dark spot on mid-dorsal body, "X"-shaped, connects anteriorly with triangular spot on head; nasals are far separated from each other; nasals in contact with frontoparietal and sphenethmoid, from dorsal view, sphenethmoid does not enter the orbit. In contrast, *M lateralis* has lateral fringes on toes; webbing basal; dark spot on mid-dorsal body "Y"-shaped, not in contact with triangular spot on head; nasals in contact with each other, but not in contact with frontoparietal or sphenethmoid, from dorsal view, sphenethmoid enters the orbit.

Morphological description: body length of holotype, adult female, is 73mm, allotype male is 62.5mm; head flattened; snout tip shield-like, short and round, clearly extends over mandible; canthus rostralis very distinct, loreal region vertical and concave; tympanum clear; tongue pear-shaped; posterior end weakly notched; vomerine ridge very distinct, its posterior end large, bearing 3–4 teeth.

Finger tips ball-like, second finger shorter than first and fourth fingers; no subarticular tubercles, inner metacarpal tubercles weakly distinct. Hindlimb short, tibio-tarsal articulation reaches eye; right and left heels overlap, tibia length over half of body length, toe tips ball-like, third toe longer than fifth toe, no lateral fringes on toes, no webbing between toes (rudimentary web between metatarsals); no subarticular tubercles, inner metacarpal tubercle flattened, slightly distinct, no outer metatarsal tubercle.

Dorsal skin smooth, "V"-shaped narrow ridge formed by thin warts on posterior part of head are not very distinct, either side of dorsal body bears a longitudinal skin ridge formed by small warts, many small white spiny warts on posterior body; warts on both sides of body smaller. A small horn on upper eyelid; upper lip margin bears saw tooth-like papillae; supratympanic fold long, curving over tympanum to shoulder (it is more straight and flattened in males compared to females), its hind part a little thicker, no bean-like gland; white warts on temporal region. Dorsal body of hindlimb smooth, a few warts appear on posterior thigh. A pair of axillary glands and femoral glands, about equal to width of finger tip and toe tip.

Secondary sex characters: first and second fingers of males bear brown nuptial pads, internal single subgular vocal sac exists, opening of vocal sac long and interrupted.

In life, dorsal head yellowish green, body color changes gradually from yellowish green to purplish gray from anterior body to top of vent; dark reddish brown triangular marking appears between eyes, center of marking light green, its hind edge mixes with anterior part of "X"-shaped marking. The "X"-shaped marking on mid-dorsal body and longitudinal skin ridge on lateral body are all purple color; both sides of posterior part of markings are in contact with longitudinal stripes on lateral body; all edges of these marking and stripes are outlined with orange-yellow narrow lines. Color from canthus rostralis to lower part of supratympanic fold are purple-red; upper lip edge dark red , bearing two yellowish white markings, one below loreal region, another narrow and long stripe starts from below eye to a level below tympanum. Lateral body light purple, warty region grayish white, a broken light purple-gray longitudinal stripe appears from posterior axilla to middle part of sides of the belly, either distinct or indistinct. Dark purple color on throat and chest, dispersed with orange-red, milky white and yellowish green small spots; ginger-yellow color on both posterior belly and ventral part of thigh, with orange-red, black-gray small spots scattered around. Dorsal parts of forelimbs are purple-gray bearing indistinct purple-black narrow transverse stripe, colors changes from dorsum being purple-black becoming lighter on the belly; dark purple at posterior part of thigh, bearing sparsely black and milky white spots; ventral parts of fingers and toes grayish white.

Table 3: Measurement of *M. mangshanensis*

	Holotype ♀	Allotype ♂		Holotype ♀	Allotype ♂
Body length	73.0	62.5	Forearm and hand length	33.6 46 .0%	26.3 42.1%
Head length	27.3 37.4%	22.1 35.4%	Forearm width	5.4 7.4%	5.4 8.6%
Head width	28.4 38.9%	22.0 35.2%	Hand length	18.9 25.9%	16.3 26.1%
Snout length	10.0 13.7%	7.5 12.0%	Total length of leg	118.0 161.6%	99.0 158.4%
Interorbital space	8.9 12.2%	7.7 12.3%	Tibial length	39.7 54.4%	32.4 51.8%
Eyelid width	7.2 9.9%	5.8 9.3%	Tarsal and foot length	53.2 72.9%	43.0 68.8%
Diameter of eye	9.6 13.2%	8.0 12.8%	Feet length	33.6 46.0%	27.7 44.3%

Skull characters: Based on the skull morphology of a female specimen 75 I 0689 and male specimen 75 I 0907, premaxilla inclined forward, from ventral view, alary process of premaxilla large; anterior part of ethmoid cartiliage wide and round; right and left nasals far separated from each other, but in contact with the sphenethmoid and frontoparietal bones; from dorsal view, sphenethmoid does not enter the orbit; center of frontoparietal weakly ossified (75 I 0689) or not ossified (75 I 0907); squamosal and frontoparietal bone in contact (or fused), prootic does not enter the orbit from dorsal part.

Ecological data: This species of frogs lives either in streams of evergreen broad-leaf areas or in rich vegetated forests at about 1000m. Fallen leaves below the trees are thick, and streams are very clear; many small and big rocks occur in the streams. In middle and late June, this frog hides under fallen leaves on the roadside slopes about 20–30m from streams.

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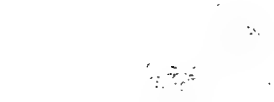
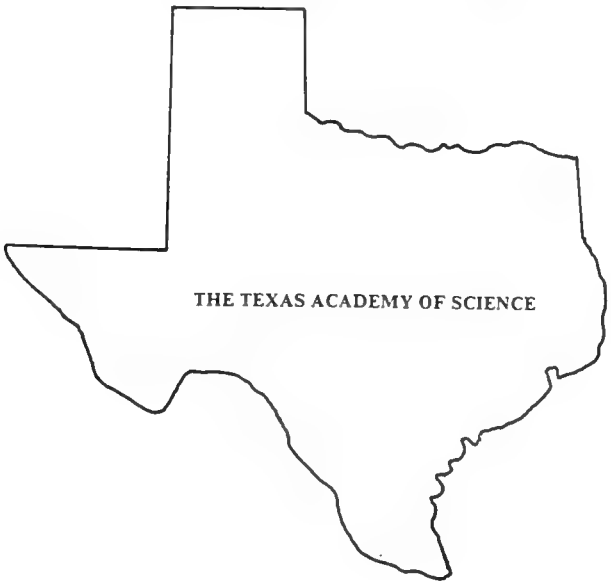


BIBLIOGRAPHY AND SCIENTIFIC NAME INDEX TO AMPIBIANS AND REPTILES IN THE PROCEEDINGS AND TRANSACTIONS OF THE TEXAS ACADEMY OF SCIENCE, VOLUME 1-30 (1892-1948), SPECIAL PUBLICATIONS OF THE TEXAS ACADEMY OF SCIENCE, 2 EDITIONS (1936-1938), AND THE TEXAS JOURNAL OF SCIENCE, VOLUMES 1-45 (1949-1993)



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INTRODUCTION

The present bibliography consists of all the papers, abstracts and reviews that have appeared in the *Proceedings and Transactions of the Texas Academy of Science*, Volumes 1-30, 1892-1948, *Special Publications of the Texas Academy of Science*, 2 editions, 1936-1938, and the *Texas Journal of Science*, Volumes 1-45, 1949-1993 concerning amphibians and reptiles. Abstracts by title only are not listed. Abstracts have Abs. placed after the title. All titles are numbered sequentially. All authors are listed alphabetically with junior author(s) cross referenced to the senior author.

The Proceedings and Transactions were sometimes published together or separately. Each section was designated as such giving the impression as two series so titles listed here is separated into the appropriate section. The Transactions for volume 22 were never published and volume 13 for the Proceedings and Transactions were never published. These appeared irregularly with a hiatus between the years 1913-1929. The Texas Journal of Science consists of four numbers a year, sometimes numbers are combined. All articles with original names are preceded by an *.

The scientific name index consists of all the herpetological names from the various series listed alphabetically and referenced to the numbered titles of the article in which it appears. All original spellings are maintained. No scientific names in the literature cited or bibliographies are listed. All original names are **boldfaced**. When both **i** or **ii** are used then **ii** is used for both.

The author wishes to thank C. Gans for suggesting this project. For suggesting the addition of a scientific name index G. R. Zug and W. R. Heyer. To A. H. Chaney for the loan of a large run of the early volumes and to J. R. Dixon for copying *Special Publications* # 2 for me.

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