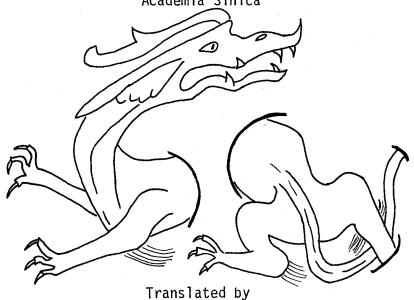
Кеу то тне SNAKES AND LIZARDS OF CHINA

Zhao Ermi & Jiang Yaoming 1977 Chengdu Institute of Biology Academia Sinica



YANG DATUNG* & ROBERT F. INGER+

*Kunming Institute of Zoology +Field Museum of Natural History

SMITHSONIAN HERPETOLOGICAL INFORMATION SERVICE NO. 71

SMITHSONIAN HERPETOLOGICAL INFORMATION SERVICE

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10 May 2004

Translators' note:

The original title page of this work appeared (as translated):

Systematic key of reptiles of China

Department of Herpetology Sichuan Institute of Biology

Published in 1977 the work included keys to the turtles and crocodilians. The translation was prepared while Yang Datong was in residence at the Field Museum in 1985-86. We attempted to prepare as literal a translation as possible. At a few points it was necessary to diverge slightly from the original. The only significant revision involved snakes originally grouped under the heading $\underline{\text{Natrix}}$; these are distributed in six genera in the translation. The entire translation was reviewed by the original authors and approved by them.

Key to Families of Snakes

- 1. Small snakes, worm-like; all scales around body same size; eye obscured under scales

 Moderate or large snakes; ventral scales usually larger than dorsals; eye not obscured
- 2. Tail compressed
 Tail cylindrical
 4
- 3. Granular scales on body; top of head without enlarged scales

 (A single species: Acrochordus granulatus)
 Scales of body not granular; top of head with large, symmetrical scales

 Hydrophiidae
- 4. Width of ventral scales less than 3 times width of adjacent lateral scales 5
 Width of ventrals more than 3 times width of adjacent scales 6
- 5. More than 30 rows of dorsal scales; vestige of hind limb present

 Scale rows 15; no vestige of hind limb Xenopeltidae
- 6. No grooved or tubular fangs at front of upper jaw... Colubridae
- Fangs present at front of upper jaw 7

 7. Immovable, grooved fangs; pupil usually round; body slender; usually black or dark brown on back, black alternating with white or brown, or with longitudinal stripes Elapidae Tubular, movable fangs; pupil vertical or oval; head triangular; neck slender; a pit on side of head present (Crotalinae) or absent (Viperinae)

TYPHLOPIDAE Key to species

Scales in 20 rows; nasal divided into two parts

Scales in 22-23 rows; nasal divided only from nostril to contact with second labial

Scales in 24-28 rows, rarely 22; nasal divided only from nostril to contact with second labial

Typhlops diardi

BOIDAE

Key to species

Head distinct from neck, with large symmetrical shields; rostral and first two supralabials with pits

Head not distinct from neck, small scales on head; no supralabials with pits $\frac{\text{Python molurus}}{\text{scales}}$

XENOPELTIDAE

Key to species of <u>Xenopeltis</u>
Eight upper labials, 3-2-3; 2 postorbitals; ventrals 164196; subcaudals 22-31
Seven upper labials, 3-2-2; one postorbital; ventrals 152164; subcaudals 16-19
hainanensis

COLUBRIDAE

Key to subfamilies

1.	Nostril opening on side of snout 2
	Nostril opening on top of snout; right and left nasal scales
	in contact; internasal single, behind suture of nasals
	Homalopsinae
2.	Mental groove present 3
	Mental groove absent Pareinae
3.	Subcaudals in two rows; anal plate single or divided
•	Colubrinae
	Subcaudals in single row; anal plate singleXenoderminae
	bubeaudars in single low, and place single, kenoderminae
	XENODERMINAE
	Achalinus
1.	One pair of rostral scales, in contact; first pair of
	submentals in contact behind mental; no postorbital 2
	Prefrontal long, meeting tip of nasal; first pair of
	submentals not in contact; first pair of infralabials in
	contact meiguensis
2.	
۷.	
2	
3.	Internasal suture shorter than prefrontal suture 4
	Internasal suture longer than prefrontal suture 5
4.	Midbody with 21-23 scale rows; ventrals 146-168
	<u>spinalis</u>
	Midbody with 25 scale rows; ventrals 178-184
	niger
5.	One temporal scale hainanus
	Two temporal scales 6
6.	Midbody with 21 scale rows; loreal about twice its height;
	dark brown, no middorsal stripe ater
	Midbody with 23 scale rows; loreal length about equal to its
	height; brown with a middorsal stripe rufescens
	rotgie, brown with a middorbar berrye
	PAREINAE
	<u>Pareas</u>
1.	Purple on back; some scales half white, half black forming
	transverse bands 2
	Brown on back; many small black spots; some spots join to
	form network 3
2.	Scales of back smooth (distr.: Hainan) margaritophorus
T	Scales of rows 3-7 with keels macularius
3.	Prefrontal separated from orbit; dorsals keeled except rows
J •	1-2 carinatus
	Prefrontal entering orbit; dorsal almost smooth, at most
	only several central rows with keels 4
4.	No preocular; loreal entering orbit 5
	Preocular present 6
5.	Ventrals 151-160; subcaudals 48-60; several middorsal scale
	rows keeled <u>stanley</u>
	Ventrals 175-189; subcaudals 63-69; all scale rows smooth
	boulengeri
6.	Preocular broadly in contact with lower corner of eve

		monticola
	Preocular broadly in contact with center	er of eye; loreal not
	entering orbit	7
7.	Maxillary teeth 4-6	chinensis
	Maxillary teeth 7-9	8
8.	Ventrals 180-196	hamptoni
	Ventrals 163-182 (distr.:Taiwan)	formosensis

COLUBRINAE Key to genera

	key to genera	
1.	Vertebral row of scales slightly larger than others; scales oblique	2
	Vertebral row of scales not enlarged	4
2.	Body green; ventrals with a white line; a long, narrow	w head,
	snout pointed; side of snout with deep groove; horizontal Ahaetulla	
	Not green over entire body	3
3.	Pupil round; head oval; body slender; ventral scale	•
J•	strong keel <u>Dendrophis</u>	
	Pupil vertical; head triangular, body not espesiender; ventrals without keels Boiga	ecially
4.	Tip of snout long, flexible, with small scales; g	reen on
	back (A single species: R. boulengeri) Rhynchophis	
	Not as above	5
5.	Head triangular; large scales of head keeled; to	
J.	scales small, keeled <u>Macropistho</u>	
	(A single species: M. rudis)	
	Head oval; scales of head smooth	6
6.	Loreal scale absent	7
	Loreal present	8
7.	Internasals absent; no temporals; preocular present Calamaria	•
	Internasals present; temporals present; no preocular.	
	Blythia	
8.	Internasals and prefrontals paired	11
- •	Internasals or prefrontals irregular, not paired	9
9.	A single internasal and a single prefrontal; dark b	rown or
	back, belly yellow Rhabdops	
	(A single species: R. bicolor)	
	More than one internasal	10
10.	Two internasals; a single prefrontal; nostril near	dorsa1
	surface of snout Opisthotrop	
	Two to 4 internasals and prefrontals; nostril on	
	surface of snout Atretium	
	(A single species: A. yunnanensis)	
11.	Large area of rostral scale visible on dorsal surf	ace of
	head; internasal suture short; in some species inte	
	absent Oligodon	
	Rostral barely or not visible on dorsal surface	12
12.	More than one loreal; eye large Ptyas	* -
12.	Only one loreal	13
13.	Temporals small, scarcely distinguished from neck sca	
10.	Coluber	100
	Temporals moderately large, in 2 or 3 rows	14
14.	Scale rows in even numbers, 14 or 16 Zaocys	
	Scale rows in odd numbers	15
15.	Scale rows 13-15	16
	Scale rows 17	19
	Scale rows 19	25
	Scale rows 21; 2 postoculars Elaphe (par	
		•

16.	Back mostly green, with a few crossbars	Opheodrys	
10.	Back partly green	<u>opiredarys</u>	17
17.	Upper labials 7, third and fourth border	ing eve: 15 s	
	rows throughout	Liopeltis	
	(A single species: L. frenatus)		
	Upper labials less than 6		18
18.	Nape of neck with arrow-shaped mark; 15 so	cale rows	
		Plagiopholis	
	No such mark on neck; 13 or 15 scale rows;		oove
1.0		Trachischium	
19.	Seventeen scale rows throughout; back br		отаск
	mark on top of head More rows of scales on neck than at midbo	Sibynophis	+ han
	17 at end of body	ody, of lewer	20
20.	Ventrals with a keel and notch laterally	r: body and	tai1
20.	slender	Chrysopelea	0 0 1 1
	(A single species: <u>C. ornata</u>)		
	Belly without keel or weakly keeled; in en	ither case vent	ra1s
	without a notch		21
21.	Dorsal scale rows oblique, at least anteri	iorly	
		<u>Pseudoxenodon</u>	
	Scale rows not oblique		22
22.	Back with crossbars		23
2.2	Back without crossbars	D	24
23.	Posterior group of maxillary teeth 3 Posterior group of maxillary teeth 2	Dinodon	
24.	Back with lines	<u>Lycodon</u> Psammophis	
24•	(A single species: P. lineolatus)	т Вашиорить	
	Back not lined	Psammodynastes	3
	(A single species: P. pulverulentus)		-
25.	Three or more postoculars		27
	At most 2 postoculars		26
26.	Back with reddish crossbars, 28-35+9-13	Dinodon (part))
	Without above pattern	Elaphe 1	
27.	Loreal variable $(0-2)$; eye small; some		not
	paired; subcaudals more than 200	Thermophis	
	(A single species: <u>T. baileyi</u>) Loreal single, rarely 2; all subcaudals	noired less	than
	200	parreu, ress	28
28.	Hemipenis forked, sulcus spermaticus divid	ded or not	29
	Hemipenis and sulcus spermaticus simple		31
29.	Sulcus spermaticus divided		30
	Sulcus spermaticus simple	Sinonatrix	
30.	Maxillary dentition continuous, teeth gra	adually or abro	upt1y
	larger posteriorly	<u>Xenochrophis</u>	
	(A single species: X . piscator)		-
	Maxillary dentition with posterior two		angly
0.1	enlarged, recurved, preceded by a diastema		
31.	Maxillary dentition continuous, teeth		
	posteriorly in the series; internasals na nostrils dorsolateral	arrowed anterio Natrix	лтту,
	Maxillary dentition usually coantinuous	The state of the s	เล11 ซ
	becoming larger posteriorly or the poster		
	enlarged, occasionally separated from the		
	internasals broad anteriorly, nostrils la		32

32. Maxillary teeth less than 35; no white, vertical bar in front and behind eye Amphiesma Maxillary teeth more than 40; a prominent white, vertical bar over preocular and fourth supralabial, bar narrow1v edged with black Amphiesmoides (A single species: A. ornaticeps) Ahaetulla Dorsal scale rows 13-13-11 or 9 near vent gorei 1. 2 Dorsal scale rows 15-15-11 or 9 near vent Supralabials 9, rarely 8, fourth to sixth touch 2. ventrals 167-200; caudals 127-164 putus Supralabials 7 or 8, only one touches eye; ventrals 153-175; caudals 85-105 subocularis Amphiesma 1. Temporals present 2 Temporals absent, or a single small scale between parietal and fifth upper labial atemporalis 2. Scale rows 17 throughout sauteri Scale rows 19 anteriorly and at mid-body, 17 near vent 3 Each ventral with 3 large blackish-brown spots forming 3. dotted lines on belly, sometimes median one not clear; pair of light stripes on back Ventrals without large spots, or with scattered small dots back, no longitudinal 4. Orange-yellow narrow crossbars on stripes optata Not as above Many dark crossbars or squarish spots on back between light 5. longitudinal stripes Not as above 6. A white streak behind eye extending posteriorly to connect with dorsal stripe; subcaudals 94-105 boulengeri No white streak behind eye; subcaudals 52-83 stolata 7. Back light brown, with 3 conspicuous black stripes; ventrals 141-152 miyajimae Color otherwise 8 9 8. No light stripes or light dotted lines on body With light stripes or light dotted lines 10 9. Upper labials 7, lower labials 7; ventral 147-153; subcaudals 59-66 vibakari Upper labials 8, lower labials 10; ventrals 174-217; 86-107 subcauda1s platyceps Body with alternating light and dark stripes octolineata 10. No more than two stripes on body Subcaudals less than 78, ventrals usually less than 161 12 11. Subcaudals more than 78, ventrals more than 165 No light, longitudinal streak or stripe on head behind eye 12. popei A light streak or stripe behind eye 13. Light longitudinal streak on side of head well-separated craspedogaster from eve light, longitudinal stripe beginning at rear Narrow.

khasiensis

below eye

Back olive-brown with two light yellow stripes edged with 14. black extending to tail; scales strongly keeled bitaeniata Back olive-brown with light spots forming two less distinct lines; scales weakly keeled, outer smooth johannis Temporals normally 1-3 in first row; anal plate single... multomaculata Temporals small; anal plate divided kraepelini Calamaria 1. No preocular yunnanensis Preocular present 2. Rostral scale at least half length of prefrontal suture; tip of tail pointed pavimentata Rostral scale one-third length of prefrontal suture; tip of tail blunt septentrionalis Coluber Scale rows 17-17-15; a black-edged vertebral stripe from head to tail spinalis Scale rows 21-21-15; diamond-shaped markings on vertebral ravergieri area Dendrophis Scale rows 13-13-11 (or 9) 1. gorei Scale rows 15-15-11 (or 9) 2. Upper labials 9 (rarely 8), 4-6 border eye; ventrals 167-200, subcaudals 127-164 pictus Upper labials 7 or 8, only one bordering eye; ventrals 153-175, subcaudals 85-105 subocularis Dinodon Scale rows at midbody 19; loreal not bordering eye; light 1. red, narrow crossbars 28-35 + 9-13rosozonatum Scale rows at midbody 17, rarely 19 Scales smooth, rarely a few rows with weak keels: 2. loreal usually bordering eye; more than 60 light red, narrow crossbars rufozonatum A few scale rows with weak keels; loreal usually not bordering eye; many yellowish white crossbars... septentrionalis Elaphe Most of body green, without dark markings 2 1. 3 Body not green, with markings of some sort 2. Loreal present prasina Loreal absent frenata 3. Markings on head consisting of black lines radiating from eye; a narrow black occipital crossbar radiata Markings on head, if present, not as above 4 5 4. No stripes or crossbars on top or side of head Top or side of head with stripes or crossbars 8 5. Sutures of dorsal head plates black carinata

	Not as above 6
6.	Head dark red; body with more than 30 reddish, square
	markings; tail ringed with red and brown moellendorffi
	Not as above 7
7.	Top of body and tail with large, dark brown, round spots;
	side of body and tail with smaller, irregular spots
	davidi
	Body usually with indistinct light crossbars
	schrenki
8.	Only stripe on head a short, dark postorbital one; back with
•	black trapezoidal blotches, at rear of body forming black
	stripe taeniura
	Not as above 9
9.	Top of head with 3 short, longitudinal stripes not crossing
-	head porphyracea
	Stripes or bands cross top of head 10
10.	Body with stripes 11
	Body with spots, diamonds, or crossbars 12
11.	Stripes on top of head form 2 V's, each continuous with
	stripes on body rufodorsata
	Stripes on top of head form one V continuous with stripes on
	body dione
12.	Body with a row of round, dark spots on each side connected
12.	over back by dark crossbars bimaculata
	Not as above 13
13.	Back with large dark diamonds having light centers
15.	mandarina
	Back with black crossbars perlacea
	back with black crobbato
	Lycodon
1.	No preocular, prefrontal and loreal border eye; dorsal
- •	scales weakly keeled; back black, a few (10) white crossbars
	anteriorly subcinctus
	Preocular present; prefrontal not bordering eye 2
2.	Scales smooth; loreal not bordering eye 3
•	Middle scale rows weakly keeled; loreal not touching
	internasal 4
3.	Loreal with a broad contact with internasal aulicus
•	Loreal narrowly in contact with internasal laoensis
4.	Back and belly with black and yellow rings fasciatus
	Back with alternating black and white crossbands; ventrals
	white ruhstrati
	· · · · · · · · · · · · · · · · · · ·
	Natrix
	One preocular; 7 upper labials; back uniform olive green
	natrix
	Three preoculars; 8 upper labials; back with alternately
	arranged, large black spots tesselata
	Oligodon
1.	Fewer than 17 scale rows at midbody 2
	At least 17 scale rows at midbody 4
7	Scale rows 13 at midhody eherharti

0	Scale rows 15 at midbody		3
3.	Ventrals more than 170; about 10 dark cro		
	Ventrals less than 160; more than 30 cros	ornatus shars	
	ventials less than 100, more than 50 cros	erythrorachis	3
4.	Scale rows at midbody 17	cryenrordenze	<u>^</u> 5
•	More than 17 scale rows at midbody		6
5.	Nape and rear of head with wide V-s	haped, dark	mark;
	ventrals with 2 rows of square, dark brow		
		chinensis	
	Without dark V on nape; belly unmarked	swinhonis	
6.	Scale rows at midbody 21	cyclurus	
	Scale rows at midbody 19		7
7.	Anal single		. 8
	Anal paired; vertebral area with about 50		brown
8.	crossbars	bellus	shama
٥.	Upper labials 7; trunk and tail with lar $22-24 + 4-8$	ge brown cross albocinctus	spars,
	Upper labials 8; scales edged with black		iork
	opper labiato o, beateb eagea with black	formosanus	, O I K • •
	Opheodrys		
1.	Anal single; back uniform green	doriae	
	Anal paired		2
2.	Back uniform green	<u>major</u>	
	Rear of body with short, yellow crossbars	<u>multicinctus</u>	
7	Opisthotropis		2
1.	Scale rows at midbody 17 Scale rows at midbody 19		2 5
2.	Black above, belly yellow	maxwelli)
2 •	Not as above		3
3.	Upper labials 7-9		4
	Upper labials 10-11	lateralis	
4.	Usually without preocular, rarely 1 or	2; loreal mee	eting
	еуе	<u>latouchi</u>	
	Usually 2-3 preoculars, rarely 1; loreal	not touching (eye
_		andersoni	
5.	Scale rows at end of body 17; body with b		
	Casla mana 10 at and of hadre hadrenet mi	<u>balteata</u>	
	Scale rows 19 at end of body; body not ri	kuantunensis	
		Kuantunensis	
	Plagiopholis		
1.	Loreal present, temporals 1 + 2	nuchalis	
-	No loreal		2
2.	Upper labials 5; temporals 1 + 1	blakewayi	
	Upper labials 6; temporals 2 + 2	styani	
_	Pseudoxenodon		
1.	Body and tail dorsally with black or blac		5
	N. 11-1-1-1-1	<u>bambusicola</u>	0
2	No blackish crossbars	nd noon of he	2
2.	Black-edged gray stripes on top of tail a		гу • • •
		<u>nothus</u>	

Not as above 3. Dark arrow-shaped mark on nape with light front margin; top of head gravish white, without markings; body without yellow karlschmidti Dark arrow on nape without light edge; head with or without dark markings; yellow and red between trunk scales... macrops Ptvas Scale rows 15-15-11 or 15-13-11; ventrals less than 175; dorsum brown, each scale with blackish brown streak... Scale rows 19-17-14; ventrals more than 185; dorsum brown, a dark network or crossbars mucosus Rhabdophis 2 Scale rows 15 at midbody 1. Scale rows 17 or 19 at midbody 3 Scales weakly keeled, 15 rows throughout; a distinct 2. nucha1 groove; back olive green, with scattered reddish brown spots, or with a black patch on the occiput nuchalis Scales distinctly keeled, 17 rows anteriorly; nuchal groove less obvious; back yellowish brown with many regularly arranged small blackish spots swinhonis Scale rows 17 at midbody; back uniform olive green; an 3. obvious nuchal groove leonardi Scale rows 19 at midbody Back with dark transverse markings; as bands crossing back or 4. alternating on right and left sides, or as shorter bars in two rows Back without crossbands or bars With black transverse bands crossing back or alternating on 5. nigrocincta right and left sides With shorter dark bars in two rows on back, each bar three adjacent scale rows 6. A distinct nuchal groove; two upper labials touch the eye; back with orange-red bars, belly grayish white, a pair of orange-red patches on side of neck himalayana No distinct nuchal groove; three upper labials touch eye; back with yellow bars, belly light yellow chrysarga 7. Back green, interstitial skin of neck and forebody scarlet subminiata Back green or greenish yellow, black and red bars on sides of neck and forebody tigrina Sibynophis Ten upper labials, rarely 9 or 11; one anterior temporal, 1. touching 8th upper labial collaris Nine upper labials, rarely 8; 2 anterior temporals, one touching 7th and 8th or 6th and 7th upper labial chinensis Ventrals 168-187, subcaudals 98-122 2. Ventrals 185-194, subcaudals 83-94 grahami Sinonatrix

11

Maxillary teeth fewer than 29; ventrals more than 144

1.

Maxillary teeth 29-32; ventrals 132-144; blackish brown rings circling body and tail wider dorsally and split by percarinata lighter center

Dark rings 30-40 on body, 12-20 on tail; belly between dark 2. rings orange-red or orange-yellow in life annularis Dark rings 18-21 on body, 11-13 on tail; rings edged with black and greenish brown in center

aequifasciata

Trachischium

Scale rows 13 throughout; ventrals 125-140 tenuiceps Scale rows 15; ventrals 113-125 monticola

Zaocys

- 1. Loreals 2-3; upper labials 8-10; rear of body with dark network carinatus Only 1 loreal
- Two to 4 vertebral scale rows keeled; greenish brown to 2. blackish brown; a dark stripe on each side near mid-line; large individuals with stripes indistinct near end of body.. dhumnades

Four to 6 vertebral rows keeled; green or greenish yellow on back; a black stripe anteriorly on each side of midline: lateral edges of ventrals with black streak nigromarginatus

HOMALOPSINAE

Enhydris

- 1. Scale rows 19 at midbody; more than 2 upper labials border plumbea
 - Scale rows 21-25 at midbody; only 1 labial touching eye 2 Scale rows 21 at midbody, rarely 19 or 23
- 2. Scale rows 23-25; loreal usually not touching eye; individuals with large black spots on back chinensis
- enhydris 3. Loreal touching internasal Loreal not touching internasal bennetti

ELAPIDAE

- 1. Vertebral scales enlarged, hexagonal; subcaudals in single (Bungarus) Vertebral scales normal in shape, not larger than adjacent scales; subcaudals in two rows or partly single
- 2. Back uniformly black Bungarus niger Body with white or yellow rings
- Back with black and white rings; white rings narrow, 30-50 +3. 9-15 B. multicinctus Back with black and yellow rings of equal width; yellow rings 20-28 + 3-5; tail blunt B. <u>fasciatus</u>
- Neck expandible; black or blackish brown on dorsum; 4. internasal bordering nostril 5 Neck not expandible; brownish or purplish above; internasal not bordering nostril (Calliophis)
- No enlarged post-parietal plates 5. Naja naja With enlarged post-parietal plates Ophiophagus hannah
- Brown or reddish brown dorsally with black crossbands 6. Purplish red with 3 black stripes Calliophis japonicus
- 7. Scale rows 17 throughout; wide, white crossbands on head...

VIPERIDAE

	VII EKIDAE	
1.	No facial pit (Viperinae)	2
	Facial pit present (Crotalinae)	5
2.	Top of head with large plates; head light with	
	markings; trunk with dark red crossbars $12-14 + 3-4$.	• •
	Azemiops <u>feae</u>	
	Top of head with small scales or just a few large pla	ates
	(<u>Vipera</u>)	3
3.	Top of head with small, smooth scales and a few	large
	plates; 19-21 scale rows	4
	Top of head with small, keeled scales; 27-33 scale	
	back with 3 rows of large, rounded spots each with	a dark
	margin and a light center <u>Vipera russelli</u>	
4.	Snout blunt; rostral in contact with 2 small scales;	nostril
	in center of nasal scale <u>V. berus</u>	
	Tip of snout pointed; upper border of rostral in	
	with one small scale; nostril in lower part of nasal	scale
	<u>V. ursini</u>	
5.	Large, symmetrical plates on top of head (Agkistrodo	
	Small scales on top of head; neck slender; head trian	_
	(<u>Trimeresurus</u>)	9
6.	Rostral pointing upward, projecting Agkistrodon acuti	us
	No rostral projection	 7
7.	Scale rows 19 A. monticola	
	Scale rows 21-23	8
8.	Nasals long and narrow A. halys	
	Nasals trapezoidal <u>A. strauchi</u>	
9.	Usually green	10
	Not green	12
10.	Nasal with a complete suture with upper labial	11
	Nasal suture with labial incomplete or absent	
	<u>Trimeresurus</u> albo	<u>olabris</u>
11.	Scale rows 17; 8 upper labials T . medoensis	
	Scale rows 19-23; 9-11 upper labials T. stejnegeri	
12.	Yellowish green with yellow, red, and black spots,	the red
	spots forming row on center of back <u>T. jerdoni</u>	
	Usually brown, with large, dark markings on back,	
	them confluent	13
13.	Scale rows 19-21 <u>T. gracilis</u>	
	Scale rows 21-29	14
14.	Head long, narrow; rostral narrow; nasal and into	ernasal
	small; 14-16 small superciliaries T. mucrosquamatu	<u>s</u> _
	Head shorter; tip of snout blunt; nasal large with 1	-3 small
	internasals; $6-8$ superciliaries T . monticola	

Key to Families of Lizards

1.	Top of head without symmetrical plates	2 5
2.	Symmetrical plates on top of head No movable eyelid (except in <u>Eublepharus</u>) Gekkonidae	
3.	Movable eyelid present Total length >1 m; granular scales on the back; tongue notched Varanidae	3 long,
	(A single species: <u>V. salvator</u>) Less than 1 m; dorsals not granular; tongue short weakly notched	and 4
4.	Tail with or without median dorsal keel or crest Agami Tail with two dorsal keel-like crests Xenosaurid	
5.	(A single species: Shinisaurus crocodilurus) Four limbs	6
6.	With no limbs or with hind limbs present as short flaps With femoral or pre-anal pores; ventrals squarish Lacertidae	7
	Without femoral or pre-anal pores; ventrals rounded Scincidae	
7.	Body worm-like, without lateral groove; tail very sh less than half length of body; males with short, finger hind limbs Dibamidae	
	(A single species: <u>Dibamus bourreti</u>) Body snake-like, with lateral groove; tail long, much l than body; no limbs Anguidae	onger
	AGAMIDAE	
	Key to genera	
1.	Ribs elongated, supporting wing-like flaps Draco	
	Without wing-like flaps	2
2.	Pre-anal pores present	8
•	No pre-anal pores	3
3.	Digits of hind limb fringed; eyelids with fringe	of
•	projecting scales; nostrils valvular Without above characters	
4.	Body depressed, without crest; male with patches of enl scales on belly and pre-anal areas Agama	arged
	Body compressed, usually with a crest; no patches of enl	
	scales in male	5
5.	Dorsal scales almost uniform, arranged in regular rows e in <u>C. brevipes</u> and <u>C. khasiensis</u> Dorsals heterogeneous Calotes	xcept 6
6.	An erect pointed scale behind eye	7
	Without such a scale <u>Japalura</u>	
7.	Body very compressed; a well developed crest on neck gular pouch and fold at shoulder; tympanum naked	
	Body not or slightly compressed; crest not well develope gular pouch or fold at shoulder; tympanum covered with scales Acanthosaurus well develope of tympanum covered with oriocalotes	d; no
	[A single species: O. paulus]	
8.	Body and tail compressed, crest well developed: tympanu	m at

	surface; femoral pores 4-6 [A single species: P. cocincinus]	Physignathus	
	Body and tail depressed, without credepression; pores 13-18	st; tympanum Leiolepis	in
	[A single species: L. belliana rubritaenia		
	Acanthosaurus	of pool guboguo	1 +0
	Length of spines behind orbit and on side diameter of eye; hind limb brought forwa	rd reaching mi	dway
	between eye and tympanum Length of spines less than half diamter		1imb
	brought forward reaching midway between sm	out and eye <u>lepidogaster</u>	
	Agama		
l .	Ventrals smooth; caudal scales arranged in Ventrals keeled; caudal scales overlapping		2
2.	Mid-vertebral scales distinctly keeled		3
3.	Mid-vertebral scales smooth or feebly keel Lateral scales smaller than dorsals	ed stoliczkaia	4
.) •	Laterals not smaller than dorsals	tarimensis	
4.	Laterals uniform	himalayana	. 1
	Laterals small, with a few large ones dis	spersed among t tuberculata	hem
	Calotes		
1.	A fold at shoulder		4
2.	No fold at shoulder, or with a feeble fold Scales around body less than 60	versicolor	2
	Scales around body more than 60		3
3.	Hind limb brought forward reaching to ax scales around body 65-72	illa or shoul microlepis	der;
	Hind limb not reaching axilla; scales arou		. •
,		<u>brevipes</u>	
4.	Scales on back not uniform, a few scatted dorsals and ventrals equal	ered large scal khasiensis	.es;
	Dorsals uniform, larger than ventrals	KHADICHBID	5
5.	Spines behind eye; color brown	<u>emma</u>	_
5 .	No spines behind eye Without gular pouch; color green	jerdoni	6
	Gular pouch present		7
7.	Tip of scales pointed upward and back; sca 58; hind limb brought forward reaching sho		
	Tip of scales pointed downward and back,		
	or 3 rows; scales around body 45; hind li	mb reaching neo kingdon-wardi	k or
	Tympanum without scales; nostrils open upw	ard blanfordi	
	Tympanum scaled; nostrils open outward	maculatus	
	Japalura		•
l •	Hind limb brought forward reaching tip of	andersoniana	
	Hind limb not reaching tip of snout		2

2.	Tympanum without scales 5
	Tympanum scaled 5
3.	Gular fold present; tail length more than twice body length;
	lateral dorsals with parallel light stripes <u>dymondi</u>
	No gular fold 4
4.	Hind limb reaching tympanum or eye; black V-shaped marks
	across back <u>kumaonensis</u>
	Hind limb reaching neck or tympanum; dark triangular marks or
	back varcoae
5.	One light, greenish transverse mark at mid-body, narrowest at
	vertebral area szechuanensis
	No such mark 6
6.	Scattered large scales on side of body grahami
- •	Without scattered large scales 7
7.	Gular fold present 8
• •	No gular fold 10
8.	Two small scales between nasal and rostral; one or 2 small
•	scales between nasal and first labial; black lines radiating
	from eye flaviceps
	One scale between nasal and rostral; one small scale between
	nasal and first labial
9.	A yellowish line below eye parallel with lip splendida
<i>y</i> •	A black line from eye toward angle of jaw yunnanensis
1.0	Tail twice body length
10.	Tail less than twice body brevipes
1 1	Distance between orbital spines longer than third toe without
11.	claw swinhonis
	Distance between orbital spines less than third toe
	mitsukurii
	micsukuiti
	Dhwunosonholus
1	Phrynocephalus Distance between nostrils equals distance from nostril to
1.	
	<u>-</u>
2	eye Distance between nostrils one half distance to fold before
2.	
	eye <u>axillaris</u> Distance between most rile more than one half distance to follow
	Distance between nostrils more than one half distance to follower eye 3
2	before eye Dorsal scales keeled 4
3.	
,	
4.	Dorsals with strong keels and scattered small black spots
	tip of tail white below <u>przewalski</u>
	Back with dark patches of large, upward pointing scales; ti
	of tail black below <u>frontalis</u>
5.	Hind limb reaches eye or temporal area 6
	Hind limb reaches axilla or front of shoulder 7
6.	Fore limbs and dorsal surface of tail with dark transvers
	bars <u>versicolor</u>
	No such markings; dorsal surface with dark conical scales
	<u>forsythii</u>
7.	Tail length 1.5-1.66 times length from gular sac to vent
	<u>theobaldi</u>
	Tail shorter erythrurus

GEKKONIDAE

Key to genera

1.	With movable eyelid; claw between 3 scales <u>Eublepharis</u>
	(A single species: E. lichtenfelderi)
2	Without movable eyelid Digits not expanded, or only slightly expanded 3
3.	Digits obviously expanded Underside of digits with very small scales; sides of digits
J•	fringed; dorsal scales uniform, overlapping; mid-dorsal
	caudal scales expanded Teratoscincus
	Digits not fringed; dorsal scales granular intermixed with
	larger scales; mid-dorsal caudals not expanded 4
4.	Distal phalanges compressed, angular; claw between 2 large
	scales, one dorsal and one ventral Cyrtodactylus
	Not as above Alsophylax
5.	Digits with one row of ventral lamellae; inner digit without
	<u>Gekko</u>
_	Digits with 2 rows of ventral lamellae 6
6.	Inner digit clawed 7 Inner digit clawless or with very small claw 8
7	
7.	Digits half webbed; body with a skin fold from axilla to groin Platyurus
	groin (A single species: P. platyurus)
	Digits with rudimentary web; body without skin fold
	Hemidactylus
8.	Inner digit normal in length Gehyra
•	(A single species: G. mutilata)
	Inner digit extremely short and slender, clawless or with
	rudimentary claw Hemiphyllodactylus
	(A single species: <u>H. yunnanensis</u>)
	Alsophylax
	Dorsal granules irregular or arranged in short rows pipiens
	Granules arranged in long rows <u>przewalski</u>
	Cyrtodactylus
	Twenty five scales across belly; large subcaudals in a
	single row; 6 preanal pores elongatus
	Scales across belly 30-40; without enlarged subcaudals; 12-14
	preanal pores <u>khasiensis</u>
	Gekko
1.	Rostral not in contact with nostril; total length to more
	than 30 cm gecko
	Rostral in contact with nostril; total length less than 20 cm
2.	Without webbing between digits 2
4.	Without webbing between digits 3 Webbing between digits 4
3.	Many enlarged granules especially anteriorly and on occiput
J•	japonicus
	A few enlarged granules on back swinhonis
4.	Without enlarged granules on back; 7-11 preanal pores
	subpalmatus
	With enlarged granules; more than 17 preanal pores 5
5.	Preanal pores 17-23; many moderately enlarged scales dorsally

Preanal pores 24; few enlarged scales dorsally <u>kikuchii</u>

1. 2.	Tail cylindrical, without serrated edges Scales on back granular; no enlarged scales Large tubercular scales scattered on back; enlarged, tubercular scales Many tubercular scales on body, a few on he	on tail <u>bowr</u> tail with ring ad <u>brooki</u>	s of
	Few tubercular scales on body; head without	frenatus	ares
	Teratoscincus Large dorsal scales beginning at shoulder	przewalski scincus	
	SCINCIDAE		
	Key to genera		
1.	Supranasal present		2
	Supranasal absent		5
2.	Lower eyelid with a transparent disk; front	oparietals fus Emoia	ed
	(A single species: <u>E.</u> atrocostata)	···· ·	
	Lower eyelid with small scales, no transpar		3
3.	•	<u>Mabuya</u>	,
,	Dorsal scales smooth		4
4.	Nostril between 2 nasals; one row of enlarg	ed subcaudais Eumeces	
	Nostril at center of a single nasal; subcau		han
		<u>Riopa</u>	5 C u
5.	(A single species: <u>R. bowringi</u>) Tympanum large, superficial	Tropidophorus	
J •	Tympanum small, situated in a depression		6
6.		Leiolopisma	•
	Lower eyelid with small scales, no transpar		7
7.	Length of frontal about half distance fr		
	end of parietal; frontoparietals not in co		meet
	at a point; no enlarged preanal	Ateuchosaurus	
	(A single species: A. chinensis) Frontal shorter; frontoparietals with broa	d contact: a	nair
	of enlarged preanals; if without large prea		
		Lygosoma	
	•		
1	Eumeces		0
1.	Middle 2 rows of scales larger than lateral		2
2.	Mid-dorsals equal to or only slightly large Twenty rows of scales around midbody; 4 lig		
۷.		quadrilineatus	u y
		5 light stripe	s on

elegans

One postmental; anal plate with keel Two postmentals

3.

Postnasal present; outer edge of thigh with several large scales in a group 5. Second temporal fan-shaped; 22-24 scales around midbody xanthi scales around midbody tunganus Leiolopisma	4.	No postnasal; second temporal wedge-shaped, wide posteriorly chinensis
Second temporal fan-shaped; 22-24 scales around midbody scales around midbody Second temporal with dorsal and ventral borders parallel; 28 scales around midbody Leiolopisma 1. Three supraoculars Four supraoculars Four supraoculars Without projection at front border of tympanic recess Without projection at front of tympanic recess Without projection at front of tympanic recess 3. A small tympanic opening, smaller than translucent window in lower eyelid		Postnasal present; outer edge of thigh with several large
Second temporal with dorsal and ventral borders parallel; 28 scales around midbody Leiolopisma 1. Three supraoculars Four supraoculars Four supraoculars Four supraoculars A scaly projection at front border of tympanic recess himalayanus Without projection at front of tympanic recess A small tympanic opening, smaller than translucent window in lower eyelid Tympanic opening larger than "window" in lower eyelid 4. Dorsal scales almost equal to laterals; light lateral stripes separated by 8 full and 2 half rows of scales reevesi Dorsals obviously larger than laterals; fewer than 8 scale rows between light stripes 5. Fore and hind limbs overlap, at least in males 6 Limbs do not overlap 6. Digits long; fourth toe with 16-18 ventral lamellae; dorsals less than twice size of laterals Digits short; fourth toe with 10-16 lamellae; dorsals twice size of laterals Digits short; fourth toe with 10-16 lamellae; dorsals twice size of laterals 7. Fourth toe with 10-12 lamellae; 24-26 scales around body; belly blackish Fourth toe with 17 lamellae; black dots under tail; belly pale Fourth toe with 13-16 lamellae 9. Seven upper labials; lateral stripes wavy on dorsal margins; 4 full and 2 half scale rows between Eight upper labials; lateral stripes with straight edges; 6 full and 2 half rows of scales between stripes septentrionalis Lygosoma 1. A single prefrontal Paired prefrontals 2. A pair of large preanal scales Without enlarged preanals; one enlarged scute at heel Smaragdinum 3. Four supraoculars; tip of snout not concave Five supraoculars; tip of snout not concave A Limbs overlap; more than 30 scale rows around body; tympanum in a depression; 16-22 scales under fourth toe 5. Outer surface of thigh with a patch of large scales; gray-	5.	
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Four supraoculars Four supraoculars Four supraoculars 2. A scaly projection at front border of tympanic recess himalayanus Without projection at front of tympanic recess of a small tympanic opening, smaller than translucent window in lower eyelid Tympanic opening larger than "window" in lower eyelid Tympanic opening larger than laterals; light lateral stripes Spearated by 8 full and 2 half rows of scales reevesi Dorsals obviously larger than laterals; fewer than 8 scale rows between light stripes Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap, at least in males Tore and hind limbs overlap at least in males Tore and hind limbs overlap at least in males Tore and hind limbs overlap at least in mal		Leiolonisma
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5. Outer surface of thigh with a patch of large scales; gray-		
	E	
	Э.	brown on back; side of body blackish, but not in a regular

stripe Without patch of large scales on thigh; copper-colored on back; a regular black stripe on side boulengeri copper-colored on indicum
Mabuya Length of tail 2 1/2 times head plus body; dorsals with 2 keels; supranasals meet; subcaudals expanded longicaudata Length of tail 1 1/2 times snout-vent; dorsals with 3-5 keels; suprnasals do not meet; subcaudals not enlarged multifasciata
Scales on top of head smooth; scales on body smooth or weakly keeled; parietals bordered laterally by 2 or 3 scales berdmorei Scales on top of lhead rough or with keels; scales of body clearly keeled; parietal bordered laterally by 4-5 scales 2 Frontonasal not divided; limbs overlap greatly hainanus Frontonasal divided into several small scales; limbs overlap slightly or not all sinicus
LACERTIDAE Key to genera Dorsal scales keeled; with pores present at groin 2 Dorsals granular; pores on thigh 3 Terminal phalanges of fingers and toes not bent or compressed Takydromus Terminal phalanges bent; digits compressed Platyplacopus Scales under digits keeled; ventrals arranged obliquely Eremias Scales under digits ksmooth; ventrals arranged in straight rows
Outer digits with scales forming a fringe gramica Outer digits lacking fringe 2 Groups of femoral pores continuous across preanal area, or groups interrupted by 3-5 scales 3 Groups of pores separated by 8-11 scales 4 Enlarged ventral scales in 12-16 rows, rarely 17 rows velox Enlarged ventrals in 18-20 rows, rarely 21 vermiculata Length of first supraocular equal to or shorter than distance to posterior loreal First supraocular longer than distance to posterior loreal
Frontonasal single; 16-20 rows of enlarged ventrals arguta Frontonasal divided, rarely single; 12-14 rows of enlarged ventrals Subocular borders mouth; 38-50 small scales across back and sides; tail longer than 1.5 times snout-vent brenchleyi Subocular not bordering mouth; 42-67 sma;11 scales across back and sides; tail less than 1.5 times snouth-vent argus

1.

2.

1.

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7. Four prefrontals

quadrifrons

Two prefrontals 8. Enlarged ventrals in 18 rows, rarely 16 or 20; usually 30-41 scales between mental and middle of neck (range 27-45); black crossbars present przewalski Enlarged ventrals usually in 12 rows, rarely 14-18; usually 22-28 scales between mental and middle of neck (maximum dark network or dark spots in rows on back multiocellata

Lacerta

Usually 2 postnasals, 2 loreals; 10-21 pores on thigh; 33-54scales around body agilis exigua One postnasal, 1 loreal; 5-15 pores; 25-38 scales around body vivipara

Platyplacopus

Large dorsal scales in rows Dorsals not larger than laterals

Three to 5 femoral pores

Two femoral lpores, rarely 3

sylvaticus kuehnei

2

intermedius

Takydromus

1. Four rows of large keeled dorsals

sexlineatus meridionalis

Five to 10 rows of large, keeled dorsals

2. Three pairs of mentals, rarely 2 or 4; ventrals keeled Four pairs of mentals, rarely 3 or 5; ventrals smooth or weakly keeled

3. Two pores on each side One pore on each side

5.

formosanus septentrionalis amurensis

4. Three pores on each side

One pore on each side

Tail 3 times snout-vent or longer; 24 scales under fourth toe

sauteri Tail less than 2;.5 times snout-vent; 19-22 scales fourth toe wolteri

ANGUIDAE Ophisaurus

Three small scales between nasal and prefrontal; 14-16 scales across back between lateral gr; ooves gracilis Two small scales between nasal and kprefrontal: 16-18 scales between lateral grooves harti