KEY TO THE SNAKES AND LIZARDS OF CHINA

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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 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
 3
- 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
- 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

 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) Viperidae

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 koshunensis 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 Eryx miliaris

XENOPELTIDAE

Key to species of Xenopeltis

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

Key to species of Xenopeltis

unicolor

hainanensis

COLUBRIDAE

Key to subfamilies

1.	Nostril opening on side of snout
	Nostril opening on top of snout; right and left nasal scales
	in contact; internasal single, behind suture of nasals
2.	Mental groove present Homalopsinae
4 .	
2	Mental groove absent Pareinae
3.	Subcaudals in two rows; anal plate single or divided
	Colubrinae
	Subcaudals in single row; anal plate singleXenoderminae
	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.	Middle of body with 27 scale rows formosanus
	Middle of body with 21-25 scale rows 3
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
•	spinalis
	Midbody with 25 scale rows; ventrals 178-184
5.	One temperal scale
٥.	One temporal scale hainanus Two temporal scales 6
6.	
0.	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 <u>rufescens</u>
	PAREINAE
1	Pareas
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
0	form network 3
2.	Scales of back smooth (distr.: Hainan) <u>margaritophorus</u>
	Scales of rows 3-7 with keels <u>macularius</u>
3.	Prefrontal separated from orbit; dorsals keeled except rows
	1-2 <u>carinatus</u>
	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 stanley
	Ventrals 175-189; subcaudals 63-69; all scale rows smooth
	boulengeri
6.	Preocular broadly in contact with lower corner of eye

Preocular broadly in contact with center of eye; loreal not entering orbit 7

7. Maxillary teeth 4-6
Maxillary teeth 7-9

8. Ventrals 180-196
Ventrals 163-182 (distr.:Taiwan)

Monticola
7

Chinensis
8

hamptoni
formosensis

	COLUBRINAE
	Key to genera
1.	Vertebral row of scales slightly larger than others; dorsal
	scales oblique
	Vertebral row of scales not enlarged 4
2.	Body green; ventrals with a white line; a long, narrow head,
2 .	snout pointed; side of snout with deep groove; pupil
	horizontal Ahaetulla
	Not green over entire body 3
3.	Pupil round; head oval; body slender; ventral scales with
J •	strong keel Dendrophis
	Pupil vertical; head triangular, body not especially
4.	slender; ventrals without keels Boiga Tip of another flowible with small acceleration areas.
4.	Tip of snout long, flexible, with small scales; green on back Rhynchophis
	(A single species: R. boulengeri) Not as above
5.	not do dove
).	Head triangular; large scales of head keeled; temporal
	scales small, keeled Macropisthodon
	(A single species: M. rudis)
_	Head oval; scales of head smooth Loreal scale absent 7
6.	
7	noted probent
7.	Internasals absent; no temporals; preocular present
	Calamaria
	Internasals present; temporals present; no preocular
0	<u>Blythia</u>
8.	Internasals and prefrontals paired
0	Internasals or prefrontals irregular, not paired 9
9.	A single internasal and a single prefrontal; dark brown or
	back, belly yellow Rhabdops
	(A single species: R. bicolor) More than one internasal
1.0	note than one internation
10.	Two internasals; a single prefrontal; nostril near dorsal
	surface of snout Two to 4 internasals and prefrontals: nostril on dorsal
	surface of snout Atretium
	(A single species: A. yunnanensis)
11.	
	head; internasal suture short; in some species internasals
	absent Oligodon
1.0	Rostral barely or not visible on dorsal surface 12
12.	More than one loreal; eye large Ptyas
	Only one loreal

Temporals small, scarcely distinguished from neck scales...

Temporals moderately large, in 2 or 3 rows

Scale rows in even numbers, 14 or 16

Scale rows in odd numbers

Scale rows 21; 2 postoculars

Scale rows 13-15

Scale rows 17

Scale rows 19

Coluber

Zaocys

Elaphe (part)

14

15

16

19 25

13.

14.

15.

10.	back mostly green, with a rew crossbars opheodrys	
	Back partly green	17
17.	Upper labials 7, third and fourth bordering eye; 15 s	cale
	rows throughout Liopeltis	
	(A single species: L. frenatus)	
		1.0
	- P P	18
18.	Nape of neck with arrow-shaped mark; 15 scale rows	
	Plagiopholis	
	No such mark on neck; 13 or 15 scale rows; nape with gro	OVE
		OVC
	Trachischium	
19.	Seventeen scale rows throughout; back brown, with a b	lack
	mark on top of head Sibynophis	
	More rows of scales on neck than at midbody, or fewer	than
	17 at end of body	20
20	· ·	tail
20.		Laii
	slender <u>Chrysopelea</u>	
	(A single species: <u>C. ornata</u>)	
	Belly without keel or weakly keeled; in either case vent	rals
	without a notch	21
2.1		
21.	Dorsal scale rows oblique, at least anteriorly	
	Pseudoxenodon	
	Scale rows not oblique	22
22.	Back with crossbars	23
	Back without crossbars	24
2.2		2 7
23.	Posterior group of maxillary teeth 3 Dinodon	
	Posterior group of maxillary teeth 2 <u>Lycodon</u>	
24.	Back with lines Psammophis	
	(A single species: P. lineolatus)	
	Back not lined Psammodynastes	
	(A single species: P. pulverulentus)	-
2.5		27
25.	Three or more postoculars	
	At most 2 postoculars	26
26.	Back with reddish crossbars, 28-35+9-13 Dinodon (part)	
	Without above pattern Elaphe	
27.	Loreal variable (0-2); eye small; some subcaudals	not
21.		1100
	paired; subcaudals more than 200 Thermophis	
	(A single species: <u>T. baileyi</u>)	
	Loreal single, rarely 2; all subcaudals paired, less	than
	200	28
28.	Hemipenis forked, sulcus spermaticus divided or not	29
20.	Hemipenis and sulcus spermaticus simple	
2.0		< 1
29.		31
	Sulcus spermaticus divided	30
	Sulcus spermaticus divided Sulcus spermaticus simple Sinonatrix	30
30.	Sulcus spermaticus divided Sulcus spermaticus simple Sinonatrix	30
30.	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abru	30
30.	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly Xenochrophis	30
30.	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator)	30 ptly
30.	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroa	30 ptly
	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroatenlarged, recurved, preceded by a diastema Rhabdophis	30 ptly ngly
30.	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroa	30 ptly ngly
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	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroatenlarged, recurved, preceded by a diastema Rhabdophis Maxillary dentition continuous, teeth gradually laposteriorly in the series; internasals narrowed anterion nostrils dorsolateral Natrix	ptly ngly rger rly,
	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroatenlarged, recurved, preceded by a diastema Rhabdophis Maxillary dentition continuous, teeth gradually latence posteriorly in the series; internasals narrowed anterion nostrils dorsolateral Maxillary dentition usually coantinuous, teeth gradually	angly rger rly,
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	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroatenlarged, recurved, preceded by a diastema Rhabdophis Maxillary dentition continuous, teeth gradually laposteriorly in the series; internasals narrowed anterion nostrils dorsolateral Maxillary dentition usually coantinuous, teeth gradually becoming larger posteriorly or the posterior two abruenlarged, occasionally separated from the preceding teenlarged.	angly rger rly, ally ptly
	Sulcus spermaticus divided Sulcus spermaticus simple Maxillary dentition continuous, teeth gradually or abrularger posteriorly (A single species: X. piscator) Maxillary dentition with posterior two teeth stroatenlarged, recurved, preceded by a diastema Rhabdophis Maxillary dentition continuous, teeth gradually laposteriorly in the series; internasals narrowed anterion nostrils dorsolateral Maxillary dentition usually coantinuous, teeth gradually becoming larger posteriorly or the posterior two abru	angly rger rly, ally ptly

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 narrowly Amphiesmoides edged with black (A single species: A. ornaticeps) Ahaetulla Dorsal scale rows 13-13-11 or 9 near vent gorei 1. Dorsal scale rows 15-15-11 or 9 near vent Supralabials 9, rarely 8, fourth to sixth touch eye; 2. ventrals 167-200; caudals 127-164 putus Supralabials 7 or 8, only one touches eye; ventrals 153-175; subocularis caudals 85-105 Amphiesma Temporals present 1. Temporals absent, or a single small scale between parietal and fifth upper labial atemporalis Scale rows 17 throughout sauteri 2. 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; a pair of light stripes on back modesta Ventrals without large spots, or with scattered small dots Orange-yellow narrow crossbars on back, no longitudinal 4. optata stripes Not as above Many dark crossbars or squarish spots on back between light longitudinal stripes Not as above A white streak behind eye extending posteriorly to connect 6. with dorsal stripe; subcaudals 94-105 <u>boulengeri</u> No white streak behind eye; subcaudals 52-83 <u>stolata</u> Back light brown, with 3 conspicuous black stripes; ventrals 7. miyajimae 141-152 Color otherwise 9 No light stripes or light dotted lines on body 8. 10 With light stripes or light dotted lines Upper labials 7, lower labials 7; ventral 147-153; 9. vibakari subcaudals 59-66 Upper labials 8, lower labials 10; ventrals 174-217; 86-107 platyceps subcaudals 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

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 Boiga Temporals normally 1-3 in first row; anal plate single... multomaculata Temporals small; anal plate divided kraepelini Calamaria No preocular 1. vunnanensis Preocular present Rostral scale at least half length of prefrontal suture; tip 2. pavimentata of tail pointed 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) gorei 1. Scale rows 15-15-11 (or 9) Upper labials 9 (rarely 8), 4-6 border eye; ventrals 167-2. 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 + 9-13 rosozonatum Scale rows at midbody 17, rarely 19 Scales smooth, rarely a few rows with weak keels; loreal 2. 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 Loreal present prasina 2. Loreal absent frenata 3. Markings on head consisting of black lines radiating from eye; a narrow black occipital crossbar 4 Markings on head, if present, not as above 5 No stripes or crossbars on top or side of head 4. Top or side of head with stripes or crossbars 8

carinata

Sutures of dorsal head plates black

5.

	NOC as above	0
6.	Head dark red; body with more tha	n 30 reddish, square
	markings; tail ringed with red and br	own moellendorffi
	Not as above	7
7.	Top of body and tail with large, da	rk brown, round spots;
	side of body and tail with smaller, i	-
	order of body and barr with smaller, -	davidi
	Body usually with indistinct light cr	
	body distally with indistinct light of	schrenki
8.	Only stripe on head a short, dark pos	
0.	black trapezoidal blotches, at rear	of hody forming black
	stripe	taeniura
	Not as above	g
9.	Top of head with 3 short, longitudin	al strines not crossing
9.	head	porphyracea
	Stripes or bands cross top of head	10
1.0		11
10.	Body with stripes	
1.1	Body with spots, diamonds, or crossba	
11.	Stripes on top of head form 2 V's,	
	stripes on body	rufodorsata
	Stripes on top of head form one V con	
20 120	body	dione
12.	Body with a row of round, dark spots	
	over back by dark crossbars	<u>bimaculata</u>
	Not as above	13
13.	Back with large dark diamonds having	light centers
		mandarina
	Back with black crossbars	perlacea
	Lycodon	
1.	No preocular, prefrontal and lore	eal border eye; dorsal
	scales weakly keeled; back black, a f	few (10) white crossbars
	anteriorly	subcinctus
	Preocular present; prefrontal not bor	rdering 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 inte	ernasal aulicus
	Loreal narrowly in contact with inter	rnasal laoensis
4.	Back and belly with black and yellow	rings fasciatus
	Back with alternating black and white	e crossbands; ventrals
	white	ruhstrati
	Natrix	
	One preocular; 7 upper labials; back	uniform olive green
	one preocular, , upper rusture, such	natrix
	Three preoculars; 8 upper labials;	
	arranged, large black spots	tesselata
	arranged, large black spots	tesserata
	0144	
,	Oligodon	2
1.	Fewer than 17 scale rows at midbody	2
	At least 17 scale rows at midbody	aharharti
2.	Scale rows 13 at midbody	eberharti

	Coole rove 15 at midbody	3
3.	Scale rows 15 at midbody Ventrals more than 170; about 10 dark crossbars.	
٥.	ornati	
	Ventrals less than 160; more than 30 crossbars.	
		orachis
4.	Scale rows at midbody 17	5
	More than 17 scale rows at midbody	6
5.	Nape and rear of head with wide V-shaped,	dark mark;
	ventrals with 2 rows of square, dark brown spots	
	chiner	
	Without dark V on nape; belly unmarked swinho	nis
6.	Scale rows at midbody 21 cyclur	us
	Scale rows at midbody 19	7
7.	Anal single	8
	Anal paired; vertebral area with about 50 black-	edged, brown
	crossbars bellus	
8.	Upper labials 7; trunk and tail with large brow	n crossbars,
	22-24 + 4-8 alboci	nctus
	Upper labials 8; scales edged with black forming	a network
	formos	anus
	Opheodrys	
1.	Anal single; back uniform green <u>doriae</u>	
	Anal paired	2
2.	Back uniform green <u>major</u>	
	Rear of body with short, yellow crossbars multic	inctus
	<u>Opisthotropis</u>	0
1.	Scale rows at midbody 17	2 5
0	Scale rows at midbody 19	
2.	Black above, belly yellow maxwel	3
2	Not as above	4
3.	Upper labials 7-9 Upper labials 10-11 latera	
1.	Usually without preocular, rarely 1 or 2; los	
4.	eye latout	
	Usually 2-3 preoculars, rarely 1; loreal not too	
	anders	
5.	Scale rows at end of body 17; body with black ra	
5.	balter	
	Scale rows 19 at end of body; body not ringed	
		inensis
	Rudire	THE HOLD
	Plagiopholis	
1.	Loreal present, temporals 1 + 2 nuchal	is
	No loreal	2
2.	Upper labials 5; temporals 1 + 1 blakev	
	Upper labials 6; temporals 2 + 2 styant	
	Pseudoxenodon	
1.	Body and tail dorsally with black or blackish cr	ossbars
	bambus	sicola
	No blackish crossbars	2
2.	Black-edged gray stripes on top of tail and rear	of body
	nothus	

Not as above Dark arrow-shaped mark on nape with light front margin; top 3. of head grayish white, without markings; body without yellow karlschmidti and red Dark arrow on nape without light edge; head with or without dark markings; yellow and red between trunk scales... macrops Ptyas Scale rows 15-15-11 or 15-13-11; ventrals less than 175; dorsum brown, each scale with blackish brown streak... korros 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 nuchal 2. 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 alternating on right and left sides, or as shorter bars in Back without crossbands or bars With black transverse bands crossing back or alternating on 5. right and left sides nigrocincta With shorter dark bars in two rows on back, each bar on three adjacent scale rows A distinct nuchal groove; two upper labials touch the eye; 6. 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 Back green, interstitial skin of neck and forebody scarlet 7. subminiata Back green or greenish yellow, black and red bars on sides tigrina of neck and forebody Sibynophis

1. Ten upper labials, rarely 9 or 11; one anterior temporal, touching 8th upper labial collaris

Nine upper labials, rarely 8; 2 anterior temporals, lower one touching 7th and 8th or 6th and 7th upper labial 2

Ventrals 168-187, subcaudals 98-122 chinensis

Ventrals 168-187, subcaudals 98-122
Ventrals 185-194, subcaudals 83-94

grahami

1. Maxillary teeth fewer than 29; ventrals more than 144 2

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

2. Dark rings 30-40 on body, 12-20 on tail; belly between dark 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

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 2

Two to 4 vertebral scale rows keeled; greenish brown to 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 eye
Scale rows 21-25 at midbody; only 1 labial touching eye 2

2. Scale rows 21 at midbody, rarely 19 or 23
Scale rows 23-25; loreal usually not touching eye; some individuals with large black spots on back chinensis

3. Loreal touching internasal enhydris bennetti

ELAPIDAE

- 1. Vertebral scales enlarged, hexagonal; subcaudals in single row $\frac{(\text{Bungarus})}{\text{Vertebral scales normal in shape, not larger than adjacent scales; subcaudals in two rows or partly single} 4$
- 2. Back uniformly black
 Body with white or yellow rings
- Back with black and white rings; white rings narrow, 30-50+9-15Back with black and yellow rings of equal width; yellow rings 20-28+3-5; tail blunt

 B. fasciatus
- 4. Neck expandible; black or blackish brown on dorsum; internasal bordering nostril

 Neck not expandible; brownish or purplish above; internasal not bordering nostril

 (Calliophis)
- 5. No enlarged post-parietal plates Naja naja
 With enlarged post-parietal plates Ophiophagus hannah
- 6. Brown or reddish brown dorsally with black crossbands 7
 Purplish red with 3 black stripes Calliophis japonicus
- 7. Scale rows 17 throughout; wide, white crossbands on head...

Scale rows 15; with inverted V-shaped mark on head... C. macclellandi C. kelloggi

VIPERIDAE

1.	No facial pit (Viperinae) 2
	Facial pit present (Crotalinae) 5
2.	Top of head with large plates; head light with brown
	markings; trunk with dark red crossbars 12-14 + 3-4
	Azemiops feae
	Top of head with small scales or just a few large plates
	(Vipera) 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 rows;
	back with 3 rows of large, rounded spots each with a dark
,	margin and a light center Vipera russelli
4.	Snout blunt; rostral in contact with 2 small scales; nostril
	in center of nasal scale V. berus
	Tip of snout pointed; upper border of rostral in contact
	with one small scale; nostril in lower part of nasal scale
5.	Large, symmetrical plates on top of head (Agkistrodon) 6
٥.	Small scales on top of head; neck slender; head triangular
	(Trimeresurus)
6.	Rostral pointing upward, projecting Agkistrodon acutus
0.	No rostral projection 7
7.	Scale rows 19 A. monticola
	Scale rows 21-23
8.	Nasals long and narrow A. halys
	Nasals trapezoidal A. strauchi
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> albolabris
11.	Scale rows 17; 8 upper labials T. medoensis
1.0	Scale rows 19-23; 9-11 upper labials <u>T. stejnegeri</u>
12.	Yellowish green with yellow, red, and black spots, the red
	spots forming row on center of back T. jerdoni
	Usually brown, with large, dark markings on back, some of
13.	them confluent Scale rows 19-21 T. gracilis
15.	Scale rows 19-21 Scale rows 21-29 T. gracilis 14
14.	Head long, narrow; rostral narrow; nasal and internasal
17.	small; 14-16 small superciliaries <u>T. mucrosquamatus</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 Symmetrical plates on top of head 5
2.	No movable eyelid (except in Eublepharus) Gekkonidae
3.	Movable eyelid present Total length >1 m; granular scales on the back; tongue long, notched Varanidae
	(A single species: <u>V. salvator</u>) Less than 1 m; dorsals not granular; tongue short and weakly notched 4
4.	Tail with or without median dorsal keel or crest Agamidae Tail with two dorsal keel-like crests Xenosauridae
_	(A single species: Shinisaurus crocodilurus)
5.	Four limbs With no limbs or with hind limbs present as short flaps 7
6.	With femoral or pre-anal pores; ventrals squarish Lacertidae
	Without femoral or pre-anal pores; ventrals rounded
7.	Scincidae Body worm-like, without lateral groove; tail very short,
	less than half length of body; males with short, finger-like
	hind limbs (A single species: Dibamus bourreti) Dibamidae
	Body snake-like, with lateral groove; tail long, much longer
	than body; no limbs Anguidae
	A C A M T D A E
	AGAMIDAE Key to genera
1.	Key to genera
1.	Ribs elongated, supporting wing-like flaps <u>Draco</u> Without wing-like flaps 2
1.	Key to genera Ribs elongated, supporting wing-like flaps Draco Without wing-like flaps 2 Pre-anal pores present 8
2.	Key to genera Ribs elongated, supporting wing-like flaps Draco Without wing-like flaps 2 Pre-anal pores present 8 No pre-anal pores 3
	Key to genera Ribs elongated, supporting wing-like flaps Draco Without wing-like flaps 2 Pre-anal pores present 8 No pre-anal pores 3 Digits of hind limb fringed; eyelids with fringe of
2.	Ribs elongated, supporting wing-like flaps Without wing-like flaps Pre-anal pores present No pre-anal pores Digits of hind limb fringed; eyelids with fringe of projecting scales; nostrils valvular Rey to genera Draco 8 8 Phrynocephalus
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2.3.4.	Ribs elongated, supporting wing-like flaps Draco Without wing-like flaps 2 Pre-anal pores present 8 No pre-anal pores 3 Digits of hind limb fringed; eyelids with fringe of projecting scales; nostrils valvular Phrynocephalus Without above characters 4 Body depressed, without crest; male with patches of enlarged scales on belly and pre-anal areas Agama Body compressed, usually with a crest; no patches of enlarged scales in male 5
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	surface; femoral pores 4-6 [A single species: P. cocincinus]	Physignathus	
	Body and tail depressed, without cres	t. tympanum	in
		Leiolepis	11
	[A single species: L. belliana rubritaeniat		
	[A Single species: L. Delilana Indilitaeniat	<u>.a</u> j	
	Acenthogourus		
	Acanthosaurus	f soals aubaqual	+ 0
	Length of spines behind orbit and on side of		
	diameter of eye; hind limb brought forwar		vay
	between eye and tympanum	armata	1
	Length of spines less than half diamter of		m
	brought forward reaching midway between sno		
		lepidogaster	
	Agama		
1.	Ventrals smooth; caudal scales arranged in		
	Ventrals keeled; caudal scales overlapping	sanguinolenta	
2.	Mid-vertebral scales distinctly keeled	3	
	Mid-vertebral scales smooth or feebly keele		
3.	Lateral scales smaller than dorsals		
		tarimensis	
4.	Laterals uniform	himalayana	
	Laterals small, with a few large ones disp	persed among the	e m
		tuberculata	
	Calotes		
1.	A fold at shoulder	4	
	No fold at shoulder, or with a feeble fold	2	
2.	Scales around body less than 60	versicolor	
	Scales around body more than 60	3	
3.	Hind limb brought forward reaching to axi	illa or shoulde	er
	scales around body 65-72	microlepis	
	Hind limb not reaching axilla; scales aroun	nd body 73-80	
		brevipes	
4.	Scales on back not uniform, a few scatter	red large scales	s;
	dorsals and ventrals equal	khasiensis	
	Dorsals uniform, larger than ventrals	5	
5.	Spines behind eye; color brown	emma	
	No spines behind eye	6	
6.	Without gular pouch; color green	jerdoni	
•	Gular pouch present	7	
7.	Tip of scales pointed upward and back; scal	les around body	48.
	58; hind limb brought forward reaching show	ulder mystaceus	
	Tip of scales pointed downward and back,	except for upper	
	or 3 rows; scales around body 45; hind lin	mb reaching neck	0
	eye	kingdon-wardi	
	e y e	KINGGON WOLGE	
	Draco		
	Tympanum without scales; nostrils open upwa	ard blanfordi	
	Tympanum scaled; nostrils open outward	maculatus	
	Tympanum Scared; nostriis open outward	macuracus	
	Innalura		
1	Japalura Hind link brought forward roaching tip of	snout or herond	
1.	Hind limb brought forward reaching tip of	andersoniana	• •
	Hi l lieb and marchine time of court	andersoniana 2	
	Hind limb not reaching tip of snout	2	

2.	Tympanum without scales 3
	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 kumaonensis
	Hind limb reaching neck or tympanum; dark triangular marks on
	back varcoae
5.	One light, greenish transverse mark at mid-body, narrowest at
3 .	vertebral area szechuanensis
	No such mark
6.	Scattered large scales on side of body grahami
0.	Without scattered large scales 7
7.	Gular fold present 8
/ •	
0	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
8.	Two small scales between nasal and rostral; one or 2 small
	scales between nasal and first labial; black lines radiating
	from eye <u>flaviceps</u>
	One scale between nasal and rostral; one small scale between
0	nasal and first labial
9.	A yellowish line below eye parallel with lip splendida
	A black line from eye toward angle of jaw <u>yunnanensis</u>
10.	Tail twice body length
	Tail less than twice body <u>brevipes</u>
11.	Distance between orbital spines longer than third toe without
	claw <u>swinhonis</u>
	Distance between orbital spines less than third toe
	<u>mitsukurii</u>
	Phrynocephalus
1.	Distance between nostrils equals distance from nostril to
	fold in front of eye <u>vlangali</u>
	Distance between nostrils less than distance to fold before
	e y e 2
2.	Distance between nostrils one half distance to fold before
	eye <u>axillaris</u>
	Distance between nostrils more than one half distance to fold
	before eye
3.	Dorsal scales keeled 4
	Dorsals smooth 5
4.	Dorsals with strong keels and scattered small black spots;
	tip of tail white below przewalski
	Back with dark patches of large, upward pointing scales; tip
	of tail black below frontalis
5.	Hind limb reaches eye or temporal area 6
٥.	Hind limb reaches axilla or front of shoulder 7
6.	Fore limbs and dorsal surface of tail with dark transverse
0.	bars versicolor
	No such markings; dorsal surface with dark conical scales
	no such markings; dorsal surface with dark conical scales forsythii
7.	LOISYLIII
1 .	Total length 1 5 1 66 times length from sular see to work
	Tail length 1.5-1.66 times length from gular sac to vent
	Tail length 1.5-1.66 times length from gular sac to vent theobaldi erythrurus

GEKKONIDAE Key to genera 1. With movable eyelid; claw between 3 scales <u>Eublepharis</u> (A single species: <u>E. lichtenfelderi</u>) Without movable eyelid 2. Digits not expanded, or only slightly expanded Digits obviously expanded 3. Underside of digits with very small scales; sides of di

Underside of digits with very small scales; sides of digits fringed; dorsal scales uniform, overlapping; mid-dorsal caudal scales expanded

Digits not fringed; dorsal scales granular intermixed with larger scales; mid-dorsal caudals not expanded

4

3

4. Distal phalanges compressed, angular; claw between 2 large scales, one dorsal and one ventral

Not as above

Cyrtodactylus
Alsophylax

5. Digits with one row of ventral lamellae; inner digit without claw Gekko

Digits with 2 rows of ventral lamellae

Inner digit clawed

Inner digit clawless or with very small claw

8

Inner digit clawless or with very small claw

7. Digits half webbed; body with a skin fold from axilla to groin

(A single species: P. platyurus)

Digits with rudimentary web; body without skin fold
Hemidactylus

8. Inner digit normal in length
(A single species: G. mutilata)
Inner digit extremely short and slender, clawless or with rudimentary claw
(A single species: H. yunnanensis)

Alsophylax

Dorsal granules irregular or arranged in short rows <u>pipiens</u>
Granules arranged in long rows <u>przewalski</u>

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 khasiensis

Gekko

- 1. Rostral not in contact with nostril; total length to more than 30 cm $\frac{\text{gecko}}{\text{Rostral in contact with nostril; total length less than 20 cm}}$
- 2. Without webbing between digits

 Webbing between digits

 4
- 3. Many enlarged granules especially anteriorly and on occiput japonicus

A few enlarged granules on back swinhonis

4. Without enlarged granules on back; 7-11 preanal pores

With enlarged granules; more than 17 preanal pores 5

5. Preanal pores 17-23; many moderately enlarged scales dorsally

chinensis

Preanal pores 24; few enlarged scales dorsally kikuchii

	Hemidactylus
1.	Tail very depressed, edges denticulate garnoti
1 .	Tail cylindrical, without serrated edges 2
2.	Scales on back granular; no enlarged scales on tail bowringi
2 *	Large tubercular scales scattered on back; tail with rings of
	enlarged, tubercular scales
3.	Many tubercular scales on body, a few on head brooki
٠.	Few tubercular scales on body; head without tubercular scales
	frenatus
	Teratoscincus
	Large dorsal scales beginning at shoulder przewalski
	Large dorsal scales beginning at occiput scincus
	Large dorsal scales beginning at occipate scincus
	SCINCIDAE
	Key to genera
1.	Supranasal present 2
	Supranasal absent 5
2.	Lower eyelid with a transparent disk; frontoparietals fused
	Emoia
	(A single species: E. atrocostata)
	Lower eyelid with small scales, no transparent disk 3
3.	Dorsals with 2-5 keels Mabuya
	Dorsal scales smooth 4
4.	Nostril between 2 nasals; one row of enlarged subcaudals
	Eumeces
	Nostril at center of a single masal; subcaudals not enlarged
	Riopa
	(A single species: R. bowringi)
5.	Tympanum large, superficial Tropidophorus
	Tympanum small, situated in a depression 6
6.	Lower eyelid with transparent disk Leiolopisma
	Lower eyelid with small scales, no transparent disk 7
7.	Length of frontal about half distance from tip of snout to
	end of parietal; frontoparietals not in contact or just meet
	at a point; no enlarged preanal Ateuchosaurus
	(A single species: A. chinensis)
	The state of the s

Frontal shorter; frontoparietals with broad contact; a pair of enlarged preanals; if without large preanals, heel with an enlarged scale Lygosoma

Eumeces Middle 2 rows of scales larger than laterals 2 Mid-dorsals equal to or only slightly larger than laterals 3 2. Twenty rows of scales around midbody; 4 light lines on body quadrilineatus Twenty six rows of scales around midbody; 5 light stripes on marginatus 3. One postmental; anal plate with keel elegans Two postmentals

4.	No postnasal; second temporal wedge-shaped, wide posteriorly chinensis
	Postnasal present; outer edge of thigh with several large
	scales in a group 5
5.	Second temporal fan-shaped; 22-24 scales around midbody
	<u>xanthi</u>
	Second temporal with dorsal and ventral borders parallel; 28
	scales around midbody <u>tunganus</u>
	Leiolopisma
1.	Three supraoculars <u>przewalski</u> Four supraoculars 2
2.	Four supraoculars A scaly projection at front border of tympanic recess
۷.	himalayanus
	Without projection at front of tympanic recess 3
3.	Λ small tympanic opening, smaller than translucent window in
	lower eyelid sikkimense
1.	Tympanic opening larger than "window" in lower eyelid 4 Dorsal scales almost equal to laterals; light lateral stripes
4.	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
5.	Fore and hind limbs overlap, at least in males 6
	Limbs do not overlap 7
6.	Digits long; fourth toe with 16-18 ventral lamellae; dorsals
	less than twice size of laterals doriae Digits short; fourth toe with 10-16 lamellae; dorsals twice
	size of laterals modestum
7.	Fourth toe with 10-12 lamellae; 24-26 scales around body;
	belly blackish monticola
	Fourth toe with more than 12 lamellae 8
8.	Fourth toe with 17 lamellae; black dots under tail; belly
	pale Fourth toe with 13-16 lamellae potanini 9
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 quadrupes
	Paired prefrontals A pair of large preanal scales 3
2.	n pari or range promise
	Without enlarged preanals; one enlarged scute at heel
2	Four supraoculars: tip of spout not concave 4
3.	Four supraoculars; tip of snout not concave 4 Five supraoculars; tip of snout concave maculatum
4.	Limbs overlap; more than 30 scale rows around body; tympanum
	in a depression; 16-22 scales under fourth toe 5
	Limbs do not overlap, or just meet; less than 30 scales
	around body; tympanum superficial; 12-13 scales under fourth
5	Outer surface of thigh with a patch of large scales; gray-
5.	brown on back; side of body blackish, but not in a regular
100	brown on back, brack or body brackron, but not in a report

Stripe
Without patch of large scales on thigh; copper-colored on back; a regular black stripe on side indicum

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; suprasals do not meet; subcaudals not enlarged multifasciata

Tropidophorus

1. 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

2. Frontonasal not divided; limbs overlap greatly hainanus
Frontonasal divided into several small scales; limbs overlap

LACERTIDAE

sinicus

slightly or not all

Key to genera

1. Dorsal scales keeled; with pores present at groin 2
Dorsals granular; pores on thigh 3

2. Terminal phalanges of fingers and toes not bent or compressed

Terminal phalanges bent; digits compressed Platyplacopus

3. Scales under digits keeled; ventrals arranged obliquely

Eremias

Scales under digits ksmooth; ventrals arranged in straight rows

Lacerta

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
 Groups of pores separated by 8-11 scales
 4
 Enlarged ventral scales in 12-16 rows, rarely 17 rows velox

Eremias

Enlarged ventrals in 18-20 rows, rarely 21 vermiculata

4. Length of first supraocular equal to or shorter than distance to posterior loreal

First supraocular longer than distance to posterior loreal

7

5. Frontonasal single; 16-20 rows of enlarged ventrals arguta Frontonasal divided, rarely single; 12-14 rows of enlarged ventrals

6. 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

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

Enlarged ventrals usually in 12 rows, rarely 14-18; usually 22-28 scales between mental and middle of neck (maximum 35); dark network or dark spots in rows on back multiocellata

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

Platyplacopus

Takydromus

1. Four rows of large keeled dorsals sexlineatus meridionalis Five to 10 rows of large, keeled dorsals Three pairs of mentals, rarely 2 or 4; ventrals keeled 2. Four pairs of mentals, rarely 3 or 5; ventrals smooth or weakly keeled Two pores on each side formosanus 3. One pore on each side septentrionalis Three pores on each side 4. amurensis One pore on each side

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

Sauteri
Tail less than 2;.5 times snout-vent; 19-22 scales under 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



Yang, Datong. □□□ and Inger, Robert 986. "Key to the snakes and lizards of China." *Smithsonian herpetological information service* (71), 1–21. https://doi.org/10.5479/si.23317515.71.1.

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