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中國龜鱉圖集

CHINESE CHELONIANS
ILLUSTRATED



JIANGSU SCIENCE AND TECHNOLOGY PUBLISHING HOUSE





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周久發 周 婷

中國電聲圖集

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序

周久發與周婷兩同志熱愛自然，尤喜鼈鱉，在南京市烏龍潭公園創建了我國第一個鼈鱉博物館。他們不辭辛勞，遍歷大江南北，搜集鼈鱉，精心飼養，公開展出，對普及科學知識、促進對鼈鱉的研究、推動鼈鱉類保護，都起到良好作用，為我國鼈鱉科學的發展做出有益的貢獻。他們作為對鼈鱉動物的愛好者，根據自己飼養觀察的實踐經驗，參考有關書籍，寫成這本《中國鼈鱉圖集》，實為難能可貴！

江蘇科學技術出版社為普及科學知識，樂於出版此書，令人深為感動！該社為讓國外讀者能閱讀此書，藉以了解我國種屬各異的鼈鱉，以及對鼈鱉的研究與保護，該社孫廣能同志特親到成都，邀我將此書的一部分譯為英文。我認為其意甚善，盛情可嘉，因而欣然同意。

翻譯工作係於1991年3~4月在美國柏克萊加利福尼亞大學 (University of California at Berkeley, USA) 應邀擔任密勒客座教授 (Visiting Miller Professor) 期間，利用業餘時間完成。譯稿承該校 Theodore J. Papenfuss 與 J. Robert Macey 過目，並協助編製和輸入分佈表。藉此一並致謝。

趙爾宓序於美國柏克萊加利福尼亞大學
1991年5月

前言

爬行動物的龜和黿隸屬於脊索動物門、脊椎動物亞門、爬行綱、龜鱉目。遠在2億多年前，在地球上就有它們的踪迹了，故素有活化石的美譽。我國古代對龜黿動物就有認識，古卷《瑞應圖》上說：龜類有三，靈龜、玄武、玉龜。現今世界上生存的龜鱉目動物約有240餘種。我國已知有龜黿動物31種（其中3種為1984年後由我國科學工作者發現），隸屬6科22屬。

《中國龜黿圖集》按我國龜鱉目動物的種類，所隸屬的科、屬，較全面系統地向廣大讀者介紹各種龜黿的產地、特徵和習性等知識，係我國第一部龜黿動物的大型彩色圖集。

在這本圖集的後部分，還對龜黿動物的食用、藥用、工業價值，天文、仿生等科學研究與開發應用，以及龜黿動物養殖中的常見病疾防治，作了簡要介紹。另外，龜在人類發展史上的地位與作用以及神話傳說，本書也略作提及。

《中國龜黿圖集》既是奉獻給廣大讀者的一部集知識與藝術於一書的科學專著，又是大、中專院校教學較好的輔導教材，也是廣大科研工作者及多種經營養殖場的參考讀物。願本圖集的首次面世，為推動我國龜鱉目動物的研究和開發應用，普及人們的科普知識，保護野生動物，起到有益的作用。

《中國龜黿圖集》的出版，曾得到中國科學院成都生物研究所趙爾宓等教授的指教，在此表示衷心的感謝。

由於初次編撰這類圖書，不足之處熱忱歡迎廣大讀者教正。

周久發
1991 • 10

概述

龜鱉動物在動物界中，隸屬脊索動物門、脊椎動物亞門、爬行綱、龜鱉目。

現今，世界上生存的爬行動物，種類已不多，約為6000種（我國約有350種左右），其中龜鱉目動物祇有240餘種，分為曲頸龜亞目和側頸龜亞目。我國龜鱉目動物從目前已知的種類都屬曲頸龜亞目，共6科22屬31種。但從烏龍潭公園龜鱉博物館所收藏展出的龜鱉動物種類看來，中國龜鱉目動物種類遠非目前所正式記載的31種，而是資源豐富，有待致力於龜鱉目動物研究的科學工作者和廣大業餘愛好者不斷發掘、發現。

In zoology chelonians belong to phylum Chordata, subphylum Vertebrata, class Reptilia and order Testudinata.

Today there are about 6000 species of living reptiles (including 350 species in China), among which 240 or more are chelonians. The order Testudinata is divided into two suborders: Cryptodira and Pleurodira. To date 31 species of tortoises and turtles belonging to six families and 22 genera are known in China. Nevertheless, considering the species of chelonians on display in Black Dragon-Pool Tortoise & Turtle Museum, we come to realize that in China there may be far more than 31 species officially recorded. The resource in chelonians is abundant, and is to be studied and utilized by our scientists and chelonian enthusiasts as well.

Both Zhou Jufa and Zhou Ting love Nature, and they especially love tortoises and turtles. In Black Dragon-Pool Park, Nanjing, they have set up the first Tortoise & Turtle Museum of our country. They have surmounted every difficulty in travelling around the whole land to search for varieties of precious tortoises and turtles. After careful breeding they put these small animals on display. In this way they help greatly in spreading the common knowledge of Nature, encouraging both the scientific investigation of tortoises and turtles and the protection of them, and thus have made contributions to the improvement in the research into tortoises and turtles. It is praiseworthy that as chelonian enthusiasts, they have written this "China's Tortoise and Turtle Diagram" on the basis of their own breeding experience with the help of other reference books concerned.

We feel grateful to the Jiangsu Science & Technology Press for publishing this book. Mr. Sun Guang-neng, the editor of the Press, came to Chengdu to request that I translate part of the book into English so that foreign readers will be able to have a good idea of the varieties of tortoises and turtles in China and of how to study and protect them. I accepted the work with pleasure.

I completed the translation work in my spare time in March and April 1991 when I was a visiting exchange Miller professor at the University of California, Berkeley, USA. Our thanks are also due to Theodore J. Papenfuss and J. Robert Macey of the University of California at Berkeley for reading the translation and offering help in drawing the distribution diagram and compiling the distribution chart.

Ermi Zhao
in Berkeley, USA

PREFACE

Chelonians, or tortoises and turtles, belong to phylum Chordata, subphylum Vertebrata, class Reptilia and order Testudinata. The first chelonian appeared on the earth as early as 200 million years ago. This is why chelonians enjoy a reputation as living fossils. In China people have a long history in recognizing them. An ancient Chinese book entitled Rui Yang Tu says that chelonians have three species, namely, Sprite Tortoises, Xuan Wu and Jade Tortoises. There exist about 240 species of chelonians today, and China has 31 species which belong to six families and 22 genera. New findings have constantly been reported in recent years in China. It is considered that if more time is to be devoted to the study of chelonians, more new forms will surely be discovered.

This book introduces systematically all the known species of tortoises and turtles in China concerning their morphological characteristics, habitats and habits as well as their distribution. It is the first color picture book on chelonians ever published in China. The second part of this book provides the readers with abundant material about the applications of chelonians as food, medicine and in industry and phenology and bionics, and with brief account of the treatment and prevention of common diseases in breeding. What is more, the position and function of tortoises and turtles in the history of human civilization, some of Chinese myths and folklores about them are also available in the book.

This book is not only a scientific monograph which incorporates knowledge with arts in one book, but also a useful supplementary textbook for universities, specialized colleges and secondary specialized schools. It can serve as a reference book for scientific researchers and breeding farms. We hope that the publication of this book will play an important role in promoting the research in this field and popularizing the further knowledge in chelonians and protecting wild animals.

We would like to acknowledge our gratitude to the help of Professor Ermi Zhao of Chengdu Institute of Biology attached to Chinese Academy of Sciences, without whom the work would have been difficult if not impossible.

Zhou Jiufa

INTRODUCTION

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Preface (In Chinese)

Introduction

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12. Zhe's Box Turtle (*Cuora zhoui*)
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世界龜鱉目動物科、屬名錄

現今已知世界生活的龜鱉目動物有240餘種，分爲曲頸龜亞目和側頸龜亞目，隸屬12科87屬。

序號	中文名	拉丁名	我國產科	屬
1. 曲頸龜亞目	Cryptodira			
(I) 兩爪龜科	Carettochelyidae		×	
1. 兩爪龜屬	Carettochelys			
(II) 海龜科	Cheloniidae			
2. 蠟龜屬	Caretta		×	
3. 海龜屬	Chelonia		×	
4. 玳瑁屬	Eretmochelys		×	
5. 麗龜屬	Lepidochelys		×	
(III) 野龜科	Chelydridae			
6. 鱉屬	Chelydra			
7. 大頭龜屬	Macrochelys			
(IV) 泥龜科	Dermatemyidae			
8. 泥龜屬	Dermatemys			
(V) 梭皮龜科	Dermochelyidae		×	
9. 梭皮龜屬	Dermochelys		×	
(VI) 龜科	Emyridae		×	
10. 安南龜屬	Annamemys			
11. 南龜屬	Batagur			
12. 咸水龜屬	Chelone		×	
13. 烏龜屬	Chrysemys		×	
14. 錦龜屬	Chitra		×	
15. 盒龜屬	Chelodactylus		×	
16. 水龜屬	Clemmys		×	
17. 四爪龜屬	Cuora		×	
18. 黃緣墨龜屬	Cyclanops			
19. 鴨嘴龜屬	Derochelys			
20. 提龜屬	Emydoidea			
21. 龜屬	Emys			
22. 池龜屬	Geoclemys			
23. 池龜屬	Geomyza		×	
24. 龜屬	Grapsomys			
25. 草龜屬	Hardella			
26. 東方短頸龜屬	Hoseomys			
27. 鴨嘴龜屬	Hyemys			
28. 什什龜屬	Kochigata			
29. 墨氏龜屬	Malaclemys			
30. 馬來短頸龜屬	Mauromys			
31. 提水龜屬	Maurimys		×	
32. 黑頸龜屬	Melanochelys			
33. 沼龜屬	Morenia			

1. FAMILIES AND GENERA OF TESTUDINATA

There are more than 240 living species of chelonians on the earth, belonging to 12 families and 87 genera, and are divided into two suborders, namely, Cryptodira and Pleurodira.

No.	Latin	Family & Genera in China
I. Suborder	Cryptodira	
(I) Family	Carettochelyidae	
1. Genus	Carettochelys	×
(II) Family	Cheloniidae	
2. Genus	Caretta	×
3. Genus	Chelonia	×
4. Genus	Eretmochelys	×
5. Genus	Lepidochelys	×
(III) Family	Chelydridae	
6. Genus	Chelydra	
7. Genus	Macrochelys	
(IV) Family	Dermatemyidae	
8. Genus	Dermatemys	
(V) Family	Dermochelyidae	
9. Genus	Dermochelys	×
(VI) Family	Emyridae	
10. Genus	Annamemys	×
11. Genus	Batagur	
12. Genus	Chelone	×
13. Genus	Chrysemys	×
14. Genus	Chitra	×
15. Genus	Chelodactylus	×
16. Genus	Clemmys	×
17. Genus	Cuora	×
18. Genus	Cyclanops	
19. Genus	Derochelys	
20. Genus	Emydoidea	
21. Genus	Emys	
22. Genus	Geoclemys	
23. Genus	Geomyza	×
24. Genus	Grapsomys	
25. Genus	Hardella	
26. Genus	Hoseomys	
27. Genus	Hyemys	
28. Genus	Kochigata	
29. Genus	Malaclemys	
30. Genus	Mauromys	
31. Genus	Maurimys	×
32. Genus	Melanochelys	
33. Genus	Morenia	

果蝨屬	Notochelis
35. 花蝨屬	Otaria
36. 巨蝨屬	Oritia
37. 彩蝨屬	Pseudomys
38. 擬岩蝨屬	Pyxidea
39. 岩蝨屬	Rhinocentomys
40. 粗頭蝨屬	Sacalia
41. 粗頭蝨屬	Sebenrockella
42. 粗頭蝨屬	Terrapene
(VII) 動胸蝨科	Knossteridae
43. 樹子蝨屬	Claudius
44. 樹子蝨屬	Staurorhynchus
45. 動胸蝨屬	Knossteron
(VIII) 平胸蝨科	Platysternidae
46. 平胸蝨屬	Platysternon
(IX) 肢蝨科	Testudinidae
47. 平肢蝨屬	Acanthys
48. 擬角肢蝨屬	Aprenomys
49. 角蝨屬	Chersina
50. 土蝨屬	Geochelone
51. 穴蝨屬	Gopherus
52. 珍蝨屬	Homopus
53. 擬角肢蝨屬	Indotestudo
54. 肢蝨屬	Kinkys
55. 細蝨屬	Malacocheirus
56. 四甲肢蝨屬	Manouria
57. 沙蝨屬	Pannobates
58. 蛛蝨屬	Pyxis
59. 四爪肢蝨屬	Testudo
(X) 蟹科	Trionychidae
60. 軟蟹屬	Amyda
61. 滑蟹屬	Apalone
62. 盾蟹屬	Aspideretes
63. 小頭蟹屬	Chitra
64. 蟹屬	Cyclanorbis
65. 圓蟹屬	Cycoderma
66. 圓蟹屬	Dugesia
67. 綠化蟹屬	Lisemys
68. 龍蟹屬	Nilsosia
69. 龜屬	Palaia
70. 山陸蟹屬	Pelochelys
71. 蟹屬	Pseudocnus
72. 陸蟹屬	Rafetus
73. 三爪蟹屬	Trionyx
II. 側頸龜亞目	Pleurodira
(XI) 長頸龜科	Chelidae
74. 長頸龜屬	Chelodina

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46. Genus <i>Platysternon</i>	x
(IX) Family Testudinidae	
47. Genus <i>Acanthys</i>	x
48. Genus <i>Aprenomys</i>	
49. Genus <i>Chersina</i>	
50. Genus <i>Geochelone</i>	
51. Genus <i>Gopherus</i>	
52. Genus <i>Homopus</i>	
53. Genus <i>Indotestudo</i>	x
54. Genus <i>Kinkys</i>	
55. Genus <i>Malacocheirus</i>	x
56. Genus <i>Manouria</i>	
57. Genus <i>Pannobates</i>	
58. Genus <i>Pyxis</i>	x
59. Genus <i>Testudo</i>	
(X) Family Trionychidae	
60. Genus <i>Amyda</i>	x
61. Genus <i>Apalone</i>	
62. Genus <i>Aspideretes</i>	
63. Genus <i>Chitra</i>	
64. Genus <i>Cyclanorbis</i>	
65. Genus <i>Cycoderma</i>	
66. Genus <i>Dugesia</i>	
67. Genus <i>Lisemys</i>	x
68. Genus <i>Nilsosia</i>	x
69. Genus <i>Palaia</i>	x
70. Genus <i>Pelochelys</i>	x
71. Genus <i>Pseudocnus</i>	x
72. Genus <i>Rafetus</i>	x
73. Genus <i>Trionyx</i>	x
II. Suborder Pleurodira	
(XI) Family Chelidae	
74. Genus <i>Chelodina</i>	

75. 蛇頭龜屬	Chelus
76. 鱘頭龜屬	Elaeysa
77. 澳龜屬	Emydura
78. 澳龜屬	Hydromedusa
79. 鱉屬	Phrynos
80. 鱉屬	Platenys
81. 鱉屬	Pseudemydura
82. 鱉屬	Rheodytes
(XII) 側頭龜科	
83. 馬達加斯加側頭龜屬	Pelomedusidae
84. 側頭龜屬	Erymnochelys
85. 亞馬遜側頭龜屬	Pelomedusa
86. 非洲側頭龜	Pelicocephalus
87. 南美側頭龜	Pelaisos
註 × 表示我國產	Podocnemis

二 中國龜鱉目動物已知種類、科、屬名錄

我國目前已知龜鱉目動物31種，均為曲頸龜亞目，隸屬6科22屬。

- 一、平胸龜科
 1. 平胸龜屬
 - (1) 平胸龜
- 二、鱉科
 2. 鳥龜屬
 - (2) 大頭鳥龜
 - (3) 黑頭鳥龜
 - (4) 鳥龜
 3. 鱉屬
 - (5) 黃緣鱉
 - (6) 黃頸鱉
 4. 四爪鱉屬
 - (7) 金剛四爪鱉

75. Genus *Chelus*
76. Genus *Elaeysa*
77. Genus *Emydura*
78. Genus *Hydromedusa*
79. Genus *Phrynos*
80. Genus *Platenys*
81. Genus *Pseudemydura*
82. Genus *Rheodytes*
- (XII) Family Pelomedusidae
83. Genus *Erymnochelys*
84. Genus *Pelomedusa*
85. Genus *Pelicocephalus*
86. Genus *Pelaisos*
87. Genus *Podocnemis*

II. LIST OF CHINESE CHELONIAN

There are 31 species of tortoises and turtles known from China. All belong to Cryptodira and are arranged in 6 families and 22 genera.

- I. Family Pleurosternidae
 - (I) Genus *Pleurosternon*
 1. *Pleurosternon megacephalum*
- II. Family Emydidae
 - (II) Genus *Chelonia*
 2. *Chelonia megalocephala*
 3. *Chelonia nigricans*
 4. *Chelonia reevesii*
 - (III) Genus *Cistoclemmys*
 5. *Cistoclemmys flavomarginatus*
 6. *Cistoclemmys goldingii*
 - (IV) Genus *Cuora*
 7. *Cuora auracaphala*

- (8) 五色附殼龜
(9) 黃氏附殼龜
(10) 三線附殼龜
(11) 雲南附殼龜
(12) 周氏附殼龜
5. 齒緣攝龜屬
(13) 齒緣攝龜
6. 地龜屬
(14) 地龜
7. 極水龜屬
(15) 黃喉極水龜
8. 花龜屬
(16) 花龜
9. 網紋攝龜屬
(17) 網紋攝龜
10. 麗江攝龜屬
(18) 麗江攝龜
(19) 四里頭水龜
三. 陸龜科
11. 凹甲陸龜屬
(20) 凹甲陸龜
12. 蘇州陸龜屬
(21) 蘇州陸龜
13. 四甲陸龜屬
(22) 四甲陸龜
四. 海龜科
14. 鱗頭龜屬
(23) 鱗頭龜
15. 海龜屬
(24) 海龜
16. 玳瑁屬
(25) 玳瑁
17. 麗龜屬
(26) 麗龜
五. 蛇皮龜屬
18. 蛇皮龜屬
(27) 蛇皮龜
六. 鱘科
19. 山溪鱘屬
(28) 山溪鱘
20. 鱘屬
(29) 鱘
21. 鱘屬
(30) 鱘
22. 斑鱘屬
(31) 斑鱘

8. *Cuora mccordi*
9. *Cuora pani*
10. *Cuora infuscat*
11. *Cuora yunnanensis*
12. *Cuora zhoui*
(V) Genus *Cyclotus*
13. *Cyclotus dentata*
(VI) Genus *Geomyda*
14. *Geomyda spengleri*
(VII) Genus *Mauernys*
15. *Mauernys mutica*
(VIII) Genus *Ocellia*
16. *Ocellia sinensis*
(IX) Genus *Pyxidea*
17. *Pyxidea mouibotti*
(X) Genus *Sacalia*
18. *Sacalia bealei*
19. *Sacalia quadrifasciata*
III. Family Testudinidae
(XI) Genus *Agrotomys*
20. *Agrotomys horsfieldi*
(XII) Genus *Indolestudo*
21. *Indolestudo elongata*
(XIII) Genus *Manouria*
22. *Manouria implexata*
IV. Family Cheloniidae
(XIV) Genus *Caretta*
23. *Caretta caretta*
(XV) Genus *Chelonia*
24. *Chelonia mydas*
(XVI) Genus *Eremochelys*
25. *Eremochelys imbricata*
(XVII) Genus *Lepidochelys*
26. *Lepidochelys olivacea*
V. Family Dermochelyidae
(XVIII) Genus *Dermochelys*
27. *Dermochelys coriacea*
VI. Family Trionychidae
(XIX) Genus *Pala*
28. *Pala steindachneri*
(XX) Genus *Pelochelys*
29. *Pelochelys bibroni*
(XXI) Genus *Pelodiscus*
30. *Pelodiscus sinensis*
(XXII) Genus *Rafines*
31. *Rafines swinhoei*

中國龜鱉目動物已

註：「·」表示分佈地區

III. DISTRIBUTION CHART OF CHINESE CHELONIANS

Table 1. Distribution Chart of Chinese Chelonians

Abbreviations for the provinces of China

AH Ahsah, F./Fujian, GD Guangdong, GS Gansu, GX Guangxi, GZ Guizhou, HA Hainan, HB Hebei, HJ Hebei, HL Heilongjiang, HN Hunan, JL Jilin, JS Jiangsu, LN Liaoning, NM Nei Mongol, NX Ningxia, QH Qinghai, SC Sichuan, SD Shandong, SN Shanxi, SX Shaanxi, TW Taiwan, XJ Xinjiang, XZ Xizang (Tibet), YN Yunnan, YU Henan, ZJ Zhejiang.

四 中國龜黿的檢索

- | | |
|---------------------------------------|-----|
| 1 A 背腹甲微被皮膚 | 2 |
| 1 B 背腹甲被微角質薄片 | 6 |
| 2 A 背甲具7條縱紋，上領有顯著的尖突，四肢無爪 | 棲皮龜 |
| 2 B 背甲無縱紋，後緣柔軟可屈，上領無顯著尖突，四肢有爪 | 3 |
| 3 A 吻突極短，其長度不到眶徑一半 | 鼈 |
| 3 B 吻突較長，其長度約等於眶徑 | 4 |
| 4 A 腹甲上有7枚脾脈狀物 | 鱉 |
| 4 B 腹甲上有2枚或4枚脾脈狀物 | 5 |
| 5 A 2枚脾脈狀物 | 斑鱉 |
| 5 B 4枚脾脈狀物 | 三端鱉 |
| 6 A 前肢鱗狀，指趾不分，每一前肢具1或2爪 | 7 |
| 6 B 前肢正常，指趾可分，具4或5爪 | 10 |
| 7 A 肋盾4對 | 8 |
| 7 B 肋盾每個5枚或以上 | 9 |
| 8 A 前額鱗2對，背甲盾片觀尾狀（初孵幼龜及年老個體例外） | 玳瑁 |
| 8 B 前額鱗1對，背甲盾片平削 | 海龜 |
| 9 A 較大下緣盾3對，其上無孔 | 蠍龜 |
| 9 B 較大下緣盾4對，各盾後緣有一孔 | 麗龜 |
| 10 A 有下緣盾，將背甲緣盾與腹甲盾片隔開，後端，頭大尾長，不能縮入殼內 | 平胸龜 |
| 10 B 無下緣盾，背甲緣盾與腹甲盾片相接 | 11 |
| 11 A 四肢多呈平扁，指趾間具蹼，頭背前部平滑無鱗 | 12 |
| 11 B 四肢多呈圓柱狀，指趾間無蹼，頭背前部具鱗 | 29 |
| 12 A 背甲椎板六角形，短邊在後 | 13 |

IV. KEY TO CHINESE CHELONIANS

- | | |
|--|-------------------------------|
| 1A Carapace and plastron covered with a continuous layer of undivided skin | 2 |
| 1B Carapace and plastron covered with clearly demarcated horny scales | 6 |
| 2A Carapace raised into seven prominent longitudinal ridges; upper jaw strongly cusped; limbs clawless | <i>Dermochelys coriacea</i> |
| 2B Carapace not ridged; hind part of it flexible; upper jaw not strongly cusped; claws present | 3 |
| 3A Rostral process very short, less than half of the diameter of eye | <i>Pseudemys bibroni</i> |
| 3B Rostral process longer, about equal to diameter of eye | 4 |
| 4A Seven callosities on plastron | <i>Pholidiscus sinensis</i> |
| 4B Two or four callosities on plastron | 5 |
| 5A Two palstral callosities | <i>Rafinesquina sinensis</i> |
| 5B Four palstral callosities | <i>Pala sinensis</i> |
| 6A Forelimbs in form of elongate flippers, without separate digits; each forelimb with one or two claws | 7 |
| 6B Forelimbs with distinct digits, with four or five claws | 10 |
| 7A Four palstral scales on each side of carapace | 8 |
| 7B Five or more palstral scales on each side of carapace | 9 |
| 8A Two pairs of prefrontal scales of carapace overlapping (except in hatchlings and old adults) | <i>Erymnochelys imbricata</i> |
| 8B One pair of prefrontal scales of carapace juxtaposed | <i>Chelonia mydas</i> |
| 9A Three pairs of enlarged inframarginal scales, no pore in it | <i>Caretta caretta</i> |
| 9B Four pairs of enlarged inframarginal scales, each scale with a pore on posterior border | <i>Lepidochelys olivacea</i> |
| 10A Palstral scales separated from marginals by inframarginals, much depressed with long tail and large head, which cannot be drawn into the shell | <i>Pseudemys macleayi</i> |
| 10B Inframarginal lacking, palstral scales in contact with marginals | 11 |
| 11A Limbs more or less flattened; digits webbed; top of head covered anteriorly with undivided skin | 12 |
| 11B Limbs more or less cylindrical; digits not webbed; top of head covered anteriorly with scales | 29 |
| 12A Hexagonal neural plates short-sided behind | 13 |