

# Index

## A

*Abingdonii*, 40  
*Acanthochelys*, 1, 3, 54–58, 61, 75  
    *A. cosquinensis*, 54, 55, 57  
    *A. macrocephala*, 54–56  
    *A. pallidipectoris*, 54–56  
    *A. radiolata*, 54–57  
    *A. spixii*, 54–57  
*Acherontemys*, 17  
*Actinemys*, 8  
*Acutirostris*, 17, 18  
*Acutum*, 19  
Adamantina Formation, 113, 114  
Africa, 2, 12, 22, 35, 37, 45, 46, 96, 117, 119,  
    121–123, 148, 151, 156  
*Agrionemys*, 37  
*Albertwoodemys*, 96  
Albian, 53, 60, 86, 117–121  
Aldabra atoll, 35  
Allen Formation, 60, 74, 78, 84  
*Altatryonyx*, 22  
Amazonian basin, 1, 43  
Amazon river, 38, 63–65, 68–70,  
    76, 98, 99  
Amphychelydia, 120  
*Amyda*, 22  
Andalhualá Formation, 43  
Antarctica, 123, 124, 154  
Antarctic peninsula, 86, 87  
*Apalone*, 22  
Aptian, 119–122  
Aptian-Albian, 53, 61, 86, 119, 139, 140  
Aquatic cryptodires, 2, 4, 7–26  
*Araiochelys*, 117  
Araripe basin, 119, 121  
Araripemydidae, 119–121

## *Araripemys*

*Ar. arturi*, 120, 121  
    *Ar. barretoii*, 3, 116, 119–121, 123  
Araucanian, 43  
*Arenila*, 117  
Argentina, 2, 10, 11, 20, 38–41, 43, 44, 56–61,  
    66, 68–70, 72–74, 78, 79, 81, 82, 84,  
    103, 114, 115, 134–140, 145, 147, 148,  
    151, 152, 156  
*Arizonense*, 20  
Arroyo Feliciano Formation, 11, 39  
Asia, 16, 22, 35, 37, 46, 96, 133, 148, 155, 156  
*Aspideretes*, 22  
*Aspideretoides*, 22  
*Astrochelys*, 37  
*Atoposemys*, 22  
*Auctoris*, 75  
Australasia, 53, 74–76, 85, 86, 122, 134, 135,  
    139, 140  
Australia, 22, 53, 85–87, 123, 133, 154  
Australochelyiidae, 4, 150–153  
*Australochelys*, 149–156  
    *A. africanus*, 149–156  
*Axestemys*, 22  
*Azzabaremys*, 117

## B

Baenid, 138, 139  
*Bairdemys*, 2, 96, 104–106, 108  
    *Bai. hartsteini*, 104  
    *Bai. healeyorum*, 104  
    *Bai. miocenica*, 104  
    *Bai. sanchezi*, 104, 105  
    *Bai. venezuelensis*, 104, 105  
    *Bai. winklerae*, 104

- Bajo Barreal Formation, 58, 73  
 Bajocian, 154  
 Bajo de la Carpa Formation, 78  
*Baltemys*, 18  
 Barremian, 122  
*Batagur*, 12  
 Batagurinae, 12  
*Batrachemys*, 63, 65, 75  
   *Ba. heliostemma*, 65  
   *Ba. tuberculata*, 65  
   *Ba. zuliae*, 65  
*Bauruemys*, 2, 96, 110, 112–113, 123  
   *Ba. elegans*, 110, 112, 113  
*Bergouniouxchelys*, 12  
 Big-head pantanal swamp turtle, 56  
 Bolivia, 38, 45, 55, 56, 64–66, 68, 70, 76, 98, 99, 109  
*Bonapartemys bajobarrealis*, 71, 73, 79  
*Boremys pulchra*, 138  
*Borkenia*, 12  
 Bothremydidae, 83, 95, 117–118, 123  
*Brasilemys*, 3, 115–117, 123  
   *Bra. josai*, 115–117  
 Brazil, 9–11, 15, 20, 38, 39, 46, 55–57, 63–65, 68–70, 76, 79, 98, 99, 102, 104, 107, 111–114, 117–121, 123  
 Brazilian radiolate swam turtle, 56  
 Broad-jawed, 12  
*Brontochelys*, 96  
*Bufocephala*, 65, 66
- C**  
*Callichelys*, 10  
 Campanian, 58, 60, 72, 73, 78, 84, 86, 138  
 Canada, 16, 18, 35  
 CañadónAsfalto Formation, 148  
*Caninemys*, 2, 3, 96, 103–105  
   *Can. tridentata*, 103–105  
 Capa de huesos *See* Urumaco Formation  
 Capa de tortugas *See* Urumaco Formation  
*Carbonemys*, 2, 3, 96, 108  
   *Car. cofrinii*, 105, 108  
 Carcarañá Formation, 38  
 Caribbean seaway, 10, 11, 15, 70, 154  
*Caribemys*, 144–146, 154  
   *C. oxfordiensis*, 145, 146, 154  
 Carnian, 155  
 Casamayoran SALMA, 81  
 Castillo Formation, 23  
*Cearachelys placidoi*, 3, 116–118  
 Cenomanian, 58, 60, 73, 77, 118  
 Central America, 2, 12, 17, 18, 20, 21, 24, 25, 45, 154  
 Central American seaway, 25  
 Central Atlantic, 154  
*Cerrejonemys*, 2, 3, 96, 105, 108–109  
   *C. wayuunaiki*, 105, 108, 109  
 Cerrejón Formation, 108, 109  
 Cerro Barcino Formation, 60, 61, 139  
 Chapadmalalan SALMA, 57  
*Chedighaii*, 117  
*Cheirogaster*, 37  
 Chelid, 23, 24, 57, 60, 61, 63, 65, 70, 74–76, 83–86  
 Chelidae, 1, 4, 53–85, 95, 120, 122  
*Chelodina*, 55, 76, 85  
 Chelonian fauna, 1  
*Chelonoidis*, 2, 3, 36–46  
   *Ch. australis*, 38, 41, 42, 44  
   *Ch. becki*, 40  
   *Ch. carbonaria*, 36, 38–41, 43, 46  
   *Ch. chatanensis*, 40  
   *Ch. chilensis*, 36, 38–40, 45  
   *Ch. darwini*, 40  
   *Ch. denticulata*, 36–41, 43  
   *Ch. donosobarrosi*, 38, 39  
   *Ch. duncanensis*, 40  
   *Ch. gallardoi*, 38, 42–44  
   *Ch. gringorum*, 38, 42, 44–45  
   *Ch. hesternana*, 38, 41–43  
   *Ch. hoodensis*, 40  
   *Ch. nigra*, 36–38, 40  
   *Ch. petersi*, 38, 39  
   *Ch. phantastica*, 40  
   *Ch. porteri*, 40  
   *Ch. vicina*, 40  
*Chelus*, 1, 3, 55, 75–79, 85, 144  
   *C. colombianus*, 75–78  
   *C. fimbriata*, 75–78  
   *C. lewisi*, 75, 76, 78  
*Chelydra*, 2, 3, 16–18  
   *C. osceola*, 18  
   *C. rossignonii*, 17, 18  
   *C. serpentina*, 17, 18  
 Chelydridae, 1, 2, 4, 16–18, 24  
*Chelydrops*, 17  
*Chelydropsis*, 17  
*Chersina*, 37  
 China, 155  
*Chinlechelys tenertesta*, 152, 155  
 Chinle group, 155  
*Chitra*, 22  
*Chrysemys*, 8, 10, 11  
*Chrysemys ornata*, 10

- Chubutemys*  
*Chu. capelloi*, 2  
*Chu. copelloi*, 133, 136, 137, 139, 140  
*Clemmydopsis*, 12  
*Clemmys*, 8  
 Colhuehuapean SALMA, 44  
 Colombia, 9, 11, 14, 15, 17, 20, 21, 25, 38, 41,  
 46, 61, 63–65, 68–70, 76, 78, 98–100,  
 102, 108, 109, 145, 154  
 Competitive exclusion, 23  
*Condorchelys antiqua*, 2, 3, 147–149, 155  
 Contamana group, 100  
*Cordichelys*, 96  
 Costa rica, 11, 14  
 Crato Formation, 120, 121  
 Cretaceous, 2, 37, 58–60, 71–74, 77, 78,  
 82–84, 86, 87, 96, 110–116, 118–124,  
 133, 135, 136, 140, 143–147, 153, 154  
*Crossochelys corniger*, 135  
 Cubagua Formation, 23  
*Cucullemys*, 12  
 Culebra Formation, 25  
*Cuora*, 12  
*Cuvierichelys*, 12  
*Cyclanorbis*, 22  
*Cyclernys*, 12  
*Cycloderma*, 22  
*Cylindraspis*, 37, 45
- D**  
*Dacquemys paleomorpha*, 96, 108  
 Deirochelyidae, 7  
*Deirochelys*, 8  
*Denverus*, 17  
*Dipsochelys*, 37, 45  
*Dirqadim schaefferi*, 118, 119  
*Dithyrosternon*, 37  
*Dogania*, 22  
 Dortokidae, 153
- E**  
 Eastern Pacific, 154  
*Echmatemys*, 12  
 Ecuador, 14–17, 21, 40, 63, 70, 76, 99  
*Eileanchelys waldmani*, 148, 149, 155  
 Elliot Formation, 151  
*Elochelys*, 117  
 Elrhaz Formation, 119  
 Elseya, 55, 86  
*Elusor*, 55  
*Emarginochelys*, 17  
 Emydidae, 1, 2, 4, 7–12, 24, 72, 138  
 Emydinae, 7, 12  
*Emydoidea*, 8  
 Emydura, 55, 86  
 Emydura-Elseya group, 74, 75  
*Emys*, 8–11, 37, 55–57, 61, 63, 66, 68, 69, 79,  
 96, 98–100  
*E. cayennensis*, 98–100  
*E. dumeriliana*, 96  
*E. trocaxa*, 96  
 Eocene, 22, 37, 45, 46, 80, 81, 87, 117,  
 134–136  
*Epiemys*, 12  
*Ergilemys*, 37  
*Erymnochelyinae*, 108  
*Erymnochelys*, 96, 108, 122, 123  
*E. madagascariensis*, 108  
 Escalator hopscotch, 140  
 Eupleurodira, 2, 53, 95, 122  
 Eurasiatic, 140  
 Euraxemydidae, 118–119  
*Euraxemys*, 2, 116, 118, 119, 121  
*Eu. essweini*, 116, 118, 119  
*Euroemys*, 12  
 Europe, 12, 16, 22, 35, 37, 85, 96, 117, 133,  
 143, 148, 153–156
- F**  
 Fleming Fjord Formation, 155  
 Formed caudal vertebrae, 138  
 Formed cervical vertebrae, 138  
*Foxemys*, 117, 118  
*Francedebroinella*, 22  
*Francellia*, 12  
 French Guiana, 76
- G**  
 Gadoufaoua, 121, 123  
 Gaiman Formation, 44  
 Galápagos islands, 35, 40, 45, 46, 141  
*Galianemys*, 117, 118  
*G. emringeri*, 118  
*G. whitei*, 118  
 Geiselemys, 12  
*Geochelone*, 37, 44, 46  
*G. bolivari*, 37  
*Geoclemys*, 12  
*G. melanosterna*, 15  
*Geoemyda*, 12, 15  
*G. punctularia*, 15  
 Geoemydidae, 1, 2, 4, 7, 12–16, 24, 25

Geoffroy's side-necked turtle, 68  
 Giant land turtles, 139  
*Gilmoremys*, 22  
 Ginglymoidy, 138  
*Glyptemys*, 9  
 Gondwana, 1, 2, 4, 22, 53, 56, 121–123,  
 133–141, 155  
*Gopherus*, 37, 46  
*Graptemys*, 9  
 Great American Biotic Interchange (GABI), 25  
 Greenland, 155  
*Guandongemys*, 12  
 Guianas, 15, 63, 64, 70, 99  
*Gyremys*, 72, 83

## H

*Hadrianus*, 37  
*Hamadachelys*, 117, 123  
*Hardella*, 12  
*Heckerochelys romani*, 148, 149, 155  
*Helopanoplia*, 22  
*Heosemys*, 12  
*Hesperotestudo*, 37  
 Hispanic corridor, 154  
 Holocene, 11, 133, 134  
*Homopus*, 37  
 Honda group, 41, 102  
 Honduras, 11, 14, 17, 25  
 Horn, 22, 63, 133, 134  
 Huai Hin Lat Formation, 155  
 Huayquerian SALMA, 43  
*Hummelemys*, 12  
*Hutchemys*, 22  
 Hydraspis, 65, 68, 69  
*Hydraspis*  
   *H. geoffroyana*, 68  
   *H. raniceps*, 65  
*Hydromedusa*, 1, 2, 55, 61, 79–81, 84, 85  
   *H. casamayorensis*, 79–81  
   *H. maximiliani*, 61, 79  
   *H. platanensis*, 79  
   *H. tectifera*, 79–81  
   *H. wagleri*, 79

## I

*Impregnochelys*, 37  
 India, 12, 35, 117, 121, 123, 124, 148  
 Indo-Australian archipelago, 22  
*Indochelys spatulata*, 149, 155  
*Indotestudo*, 37  
 Island hoppers, 4, 7–26, 35–46

## J

Jaw closure mechanism, 150  
 Jurassic, 2, 140, 143–156  
*Juvenmys*, 12

## K

*Kallokibotion bajazidi*, 133, 137, 140  
*Kayentachelys aprix*, 148, 149, 154, 155  
 Kerguelen Plateau, 123  
*Khunnuchelys*, 22  
 Kimmeridgian, 122, 143, 154  
*Kinixys*, 37  
 Kinosternidae, 1, 2, 4, 18–21, 24  
*Kinosternidae claudius*, 18  
*Kinosternon*  
   *K. alamosae*, 19  
   *K. angustipons*, 19, 20  
   *K. baurii*, 20  
   *K. chimalhuaca*, 20  
   *K. creaseri*, 20  
   *K. dunni*, 19, 20  
   *K. durangoense*, 20  
   *K. flavescens*, 20  
   *K. herrerae*, 20  
   *K. hirtipes*, 20  
   *K. integrum*, 20  
   *K. leucostomum*, 19–21  
   *K. leucostomum postinguinale*, 19, 21  
   *K. longicaudatum*, 19  
   *K. oaxaca*, 20  
   *K. scorpioides*, 19–21  
   *K. seriei*, 20  
   *K. sonoriense*, 20  
   *K. subrubrum*, 20  
*Kurmademys*, 117

## L

Labrastrochelys, 117  
 La Colonia Formation, 138  
*Laganemys tenerensis*, 119  
 Land bridge, 24, 25, 45, 124  
*Landreatchelys*, 12  
*Lapparentemys*, 2, 96, 103, 109–111  
   *La. vilavilensis*, 103, 109, 110  
*Latenemys*, 96  
 Laurasia, 2, 137, 156  
 La Venta fauna, 41  
 La Victoria Formation, 102  
*Lemurchelys*, 96  
*Leucocephalon*, 12  
*Linderochelys rinconensis*, 71, 74–75

Lindholmemydidae, 37  
*Lissemys*, 22  
*Lomalatachelys neuquina*, 77–79  
 Long-neckedchelid, 74, 85, 86  
 Los Alamitos Formation, 60, 72, 78  
 Los Colorados Formation, 151, 152

**M**

Maastrichtian, 60, 72, 78, 84–86,  
 110, 112, 138  
 Mackayi, 134  
*Macrocephalochelys*, 16  
*Macrochelys*, 16, 17  
 Madagascar, 35, 45, 96, 121–124  
 Magdalena river, 9, 76, 99, 102  
 Maíz Gordo Formation, 103  
*Malaclemys*, 9  
*Malacochersus*, 37  
*M. tornieri*, 37  
*Malayemys*, 12  
*Manouria*, 37, 46  
 Marília Formation, 111, 112  
 Matamata turtle, 76  
 Mato Grosso, 55, 56  
*Mauremys*, 12  
*Meiolania*  
*M. brevicollis*, 134  
*M. damelipi*, 133, 134  
*M. platyceps*, 133, 134  
 Meiolaniformes, 2, 4, 133–141  
 Meiolaniidae, 133–140  
*Melanochelys*, 12  
 Mesoamerican immigrants, 7  
 Mesoamerican slider, 11  
*Mesoclemmys*  
*M. dahli*, 61–63, 66  
*M. gibba*, 61–63, 65  
*M. heliostemma*, 61–64  
*M. hogei*, 61, 62, 64, 65  
*M. nasuta*, 61–64, 66  
*M. perplexa*, 61, 62, 64, 65  
*M. raniceps*, 61, 62, 65  
*M. tuberculata*, 61–65  
*M. vanderhaegei*, 61, 66, 67  
*M. zuliae*, 61, 63, 66, 67  
 Mexico, 11, 18, 20, 21, 25, 155  
 Miocene, 22–25, 41–44, 54, 66, 76–79,  
 100–102, 104–107, 134  
*Mogharemys*, 96  
*Mongolochelys*, 133, 137–140  
*Mo. efremovi*, 137–140  
 Montehermosan SALMA, 39, 43

Monte Hermoso Formation, 41  
*Morenia*, 14  
 Mud turtles, 20, 21, 25  
 Musk turtles, 18  
*Myuchelys*, 55

**N**

*Najadochelys*  
*N. maior*, 82, 83  
*N. patagonica*, 82, 83  
 Nampanjian Trough Basin, 155  
 Narrow-jawed, 12  
*Neochelys*, 96  
 Neogene, 2, 22, 23, 68  
 Neotropics, 24, 122  
 Neuquén Group, 74, 78  
 New World, 7, 16, 18  
 New World pond turtles, 7  
 Nicaragua, 14, 21, 25  
 Niger, 119, 121, 123  
*Nigeremys*, 117  
*Nilssonina*, 22  
*Ninjemys*, 133, 134  
*N. oweni*, 134  
*Niolamia*, 2, 133–136, 140  
 Non-chelid eupleurodiran turtles, 95  
 Norian, 151  
 Northern white-lipped mud turtle, 21  
*Notochelys*, 14  
 Notoemydidae, 147  
*Notoemys*, 2, 143–147  
*N. laticentralis*, 2, 145–147, 154  
*N. oxfordiensis*, 154  
*N. zapatocaensis*, 2, 145, 146, 154

**O**

*Odontochelys*, 152, 155, 156  
*O. semitestacea*, 152, 155, 156  
 Old World, 12  
 Oligocene, 16, 18, 25, 45, 46, 86,  
 103, 134  
*Ordosemys*, 138  
*O. leios*, 138  
 Orinoco basin, 1, 63, 65, 68  
*Orlitia*, 12, 14  
*Osteopygis*, 82, 83  
*O. sculptus*, 82–83  
*Otwayemys*, 133, 137–140  
*O. cunicularius*, 137–140  
*Owenemys*, 14  
 Oxfordian, 122, 154

**P**

- Palaeocene, 16, 37, 46, 71, 81, 82, 84, 87, 101, 103, 105, 108–110, 136, 137, 140  
*Palaeochelys*, 14  
*Palaeochoersis talampayensis*, 2, 149–153, 155, 156  
*Palaeoemys*, 14  
*Palaeomauremys*, 14  
*Palaeophrynops*, 1, 2, 55, 71, 72  
     *Pa. patagonicus*, 71, 72  
*Palaeotestudo*, 37  
*Palaeotrionyx*, 23  
*Palea*, 23  
 Panama, 11, 14, 15, 24, 25, 38  
 Panamanian Isthmus, 24–26  
 Pancryptodiran, 149  
 Pangaea, 2, 117, 154, 156  
*Pangshura*, 14  
 Panpelomedusoides, 73, 79  
 Pantanal region, 55  
*Papulemys*, 96  
 Paraguay, 1, 10, 38, 55, 56, 66, 68, 79  
 Paraguayan Chaco, 38  
 Paraguay basin, 1, 38, 68  
 Paraguay river, 10, 38, 68, 79  
*Paraplastotomenus*, 23  
 Patagonia, 38, 44, 45, 53, 58, 74, 81, 83, 84, 86, 87, 123, 135  
*Patagoniaemys*, 2, 134, 136–140  
     *Pat. gasparinae*, 2, 136–140  
*Peiropemys*, 2, 96, 110–112  
     *Pei. mezzalirai*, 110–112  
*Pelagrochelys*, 2, 134, 136, 137, 140  
     *Pel. walshae*, 2, 136, 137, 140  
*Pelochelys*, 23  
*Pelodiscus*, 23  
 Pelomedusidae, 95, 119, 122, 123  
 Pelomedusidae (sensu lato), 95  
 Pelomedusoides, 4, 73, 79, 95–124  
 Pelomedusoids, 2, 23, 121, 122  
*Peltocephalus*, 2, 96, 97, 108, 122, 123  
     *Pe. dumerilianus*, 96–97, 100, 108  
 Peru, 21, 63–65, 68–70, 76, 99, 100  
 Phillipines, 12  
*Phosphatochelys*, 117  
*Phrynops*, 1, 55, 63–69, 72–75  
     *P. geoffroanus*, 64–69, 72, 73, 75  
     *P. geoffroanus tuberosus*, 69, 75  
     *P. hilaarii*, 66–69  
     *P. sensu lato*, 74  
     *P. sensu stricto*, 69, 72  
     *P. tuberculata*, 65  
     *P. tuberculatus*, 66  
     *P. tuberosus*, 68  
     *P. vanderhaegei*, 66  
     *P. wermuthi*, 65  
     *P. williamsi*, 66, 68, 69  
*Platemys*, 1, 2, 55–57, 67, 68, 70, 75  
     *P. melannonota*, 70  
     *P. pallidipectoris*, 56  
     *P. platycephala*, 55, 57, 67, 70, 75  
     *P. radiolata*, 56  
     *P. spixii*, 57  
 Platycheilyidae, 4, 122, 143–146, 154  
*Platycheilus*, 143, 144, 146, 153, 154  
     *P. oberndorferi*, 143, 146, 153, 154  
*Platysternon*, 16  
 Pleistocene, 11, 16, 24, 39, 133, 134  
 Pleurosternids, 156  
 Pliocene, 16, 22–25, 39, 41–43, 54, 57, 66, 77, 79, 101, 102, 105, 107, 134  
 Plio-Pleistocene, 24, 39  
 Podocnemididae, 1, 2, 95–97, 101, 103, 105, 109–111, 113, 115, 117, 122, 123  
 Podocnemidinura, 114–116  
*Podocnemis*, 2, 96–103, 106, 109, 112–115, 122, 123  
     *Po. argentinensis*, 101, 103  
     *Po. bassleri*, 98, 100–101  
     *Po. brasiliensis*, 11, 114  
     *Po. cayennensis*, 98–100  
     *Po. erythrocephala*, 97  
     *Po. expansa*, 97–100  
     *Po. harrisi*, 114  
     *Po. lewyana*, 97–99  
     *Po. medemi*, 101, 102  
     *Po. negri*, 101, 102  
     *Po. pritchardi*, 101, 102  
     *Po. sextuberculata*, 97–99, 102  
     *Po. unifilis*, 96–100  
     *Po. venezuelensis*, 106  
     *Po. vogli*, 97–100  
*Polysternon*, 117  
*Portezueloemys*, 2, 114–116, 123  
     *Por. patagonica*, 114–116  
 Portezuelo Formation, 60, 114, 115  
*Pricemys*, 2, 96, 110–112  
     *Pri. caiera*, 110–112  
 Processus trochlearis, 139, 149, 150  
 Processus trochlearis oticum, 149  
*Prochelidella*, 1, 2, 55, 58–61  
     *P. argentinae*, 58–61  
     *P. cerrobarcinae*, 58–61  
     *P. portezuelae*, 58–61  
 Proganochelidae, 155  
*Proganochelys quenstedti*, 149, 151, 152, 155, 156  
*Proganochelys* sp., 152, 155

- Promalacoclemmys*, 14  
*Proterochersis*, 152, 153, 155  
*P. robusta*, 152, 153, 155  
*Protochelydra*, 17  
*Provencemys*, 14  
*Psammobates*, 37  
*Pseudemydura*, 55  
*Pseudemys*, 9–11, 24  
*P. scripta*, 10  
*Pseudograptemys*, 9  
*Psilosemys*, 9  
*Ptychogaster*, 14  
 Puesto de la Flecha Formation, 103  
 Punta Peligro, 72, 82, 83, 137  
*Pyxis*, 37  
*P. arachnoides*, 37
- R**
- Rafetus*, 23  
*Ranacephala*, 64, 65  
*Rheodytes*, 55  
*Rhinemys*, 1, 2, 55, 64, 65, 67, 69  
*Rh. rufipes*, 64, 65, 67, 69  
*Rhinoclemmys*, 2, 12–16, 25, 26  
*R. annulata*, 13, 14, 25  
*R. areolata*, 14, 25  
*R. diademata*, 13–15  
*R. funera*, 14  
*R. melanosterna*, 13–15  
*R. nasuta*, 13–15, 25  
*R. panamaensis*, 14  
*R. pulcherrima*, 14, 25  
*R. punctularia*, 13–16, 25  
*R. rubida*, 14, 25  
*Rhohonemys*, 117  
 Rosablanca Formation, 145  
*Rosasia*, 117, 118  
*Roxochelys*, 2, 83, 96, 109–114  
*R. wanderleyi*, 110–114  
 Russia, 12, 148
- S**
- Sacalia*, 14  
 Salamanca Formation, 70, 72, 81–83, 137  
*Salamanchelys*, 1, 2, 55, 70–72  
*S. palaeocenica*, 70–72  
 San Francisco basin, 1, 56, 57, 65  
*Sankuchemys*, 117  
 Santa Lucía Formation, 109  
 Santana Formation, 117–120  
 Santonian, 78, 85, 110, 114  
 Sarmiento Formation, 44, 81, 135  
*Scorpiodes carajasensis*, 20, 21  
 Scorpion mud turtle, 20  
 Short-necked chelids, 74  
*Shweboemys*, 96, 108  
*S. antiqua*, 108  
*Siebenrockiella*, 14  
*Sinamyda*, 23  
 Sinemydids, 156  
 Snapping turtle, 16, 18  
 Softshell turtles, 22  
 Solimões Formation, 102  
 South America, 1, 2, 4, 8–26, 35, 36, 38–46,  
 53–57, 59, 62, 67, 68, 74, 76, 77, 80,  
 82, 83, 85, 86, 96–124, 133–141,  
 145–154, 156  
 South Dakota, 18  
 Southern Hemisphere, 96, 155  
 Southern white-lipped mud turtle, 21  
 South Gondwana Pleurodiran Turtles,  
 4, 53–86  
*Spatulemys lasalae*, 68  
 Spix's side-necked turtle, 57  
 Spotted-bellied side-necked turtle, 68  
 Staurotypinae, 18  
*Staurotypus*, 18, 25  
 Stem Testudines, 73, 139, 152–155  
 Stem turtles, 154–156  
*Stereogenys*, 56, 108  
*Sternotherus*, 18  
*Stigmochelys*, 37  
*Stupendemys*, 2, 96, 104–108  
*St. geographicus*, 104–108  
*St. souzai*, 107  
*Stylemys*, 37
- T**
- Taphrosphys*, 117  
*Taquetochelys*, 119  
*T. decorata*, 119  
*Terrapene*, 9  
 Terrestrial turtles, 12  
 Testudinata, 137, 146–150, 155, 156  
 Testudines, 22, 73, 139, 149, 152–156  
 Testudinidae, 1, 2, 4, 7, 12, 35–46, 138  
 Testudinoidea, 7, 37  
*Testudo*, 14, 15, 17, 37, 38, 40, 41, 43,  
 44, 70, 75, 76  
*T. australis*, 41  
*T. denticulata*, 38  
*T. dorsata*, 14  
*T. elephantopus*, 40  
*T. formosa*, 41  
*T. gallardoi*, 41, 43, 44

*Testudo* (cont.)

- T. gringorum*, 44
- T. nigra*, 40
- T. planiceps*, 70
- T. platycephala*, 70
- T. praestans*, 41, 43, 44
- T. punctularia*, 15
- T. serpentina*, 17
- Thailand, 155
- Tithonian, 2, 122, 146, 154
- Tortoises, 2, 4, 7, 12, 35–46
- Trachemys*, 2, 8–11, 24, 25
  - T. adiutrix*, 8, 9, 24, 26
  - T. angusta*, 9
  - T. callirostris*, 8–10, 24
  - T. decorata*, 9
  - T. decussata*, 9
  - T. dorbigni*, 8–11, 24, 26
  - T. emolli*, 9
  - T. gaigeae*, 9
  - T. ornata*, 9–11, 24
  - T. scripta*, 9, 11, 24
  - T. stejnegeri*, 9
  - T. taylori*, 9
  - T. terrapin*, 9
  - T. venusta*, 8, 9, 11
  - T. yaquia*, 9
- Transoceanic migration, 45
- Triassic, 2, 149–156
- Trinidad, 15
- Trionychinae, 23
- Trionyx*, 23
- Tullochelys*, 17
- Turkanemys*, 96
- Turonian, 58, 60, 73, 74, 110, 114
- Turtle evolution, 135, 138, 148, 149, 153

**U**

- Ultrionyx*, 23
- Ummulisani*, 117
- Uruguay river, 10, 11, 57, 68, 69, 79, 156
- Urumaco Formation, 23, 104, 106, 107

**V**

- Vaca Muerta Formation, 146, 147
- Valanginian, 2, 122, 145, 154
- Venezuela, 10, 14, 15, 23, 63–66, 68, 70, 76, 78, 98–100, 104, 106, 107
- Vijayachelys*, 14
- Villavieja Formation, 76

**W**

- Warkalania*, 134
- Western Tethys, 154
- West Indies, 35

**X**

- Xenochelys*, 18
- Xinjiangchelyids, 156
- Xinjiangchelys*, 139

**Y**

- Yaminuechelys*, 2, 55, 81–86
  - Y. gasparinii*, 81–84
  - Y. maior*, 81–84
- Yellow-spotted river turtle, 99

**Z**

- Zolhafah*, 117, 118