

**Pelomedusidae** - 2 genera, 18 species  
Africa, Madagascar, Seychelles



hinged plastron  
*Pelusios sinuatus* - East African Serrated Mud Turtle

**TESTUDINATA**

**Pleurodira** - Side Neck, Snake Neck Turtles  
• neck is retracted to the side

**Chelidae** - 11 genera, 40 species

- South America, Australia, New Guinea
- highly aquatic
- fresh to brackish water



*Chelodina rugosa* - New South Wales  
• oviposits underwater and development is suspended until the dry season

**TESTUDINATA - Cryptodira** - neck is withdrawn vertically



*Chelydra serpentina* - Common Snapper  
southern Canada to Ecuador

- Chelydridae** - Snapping Turtles  
• 3 genera, 3 species  
• eastern North America through to Ecuador, and eastern Asia  
• highly aquatic but poor swimmers, walk on the bottom  
• large headed with powerful jaws  
• reduced plastron  
• cannot withdraw entirely into shell



*Macrolemys temminckii* - Alligator Snapper  
southeastern US

**TESTUDINATA - Cryptodira - Testudinoidea**



**Emydidae**

- 10 genera, 35 species
- North America to South America, one genus (*Emys*) in Europe, western Asia & northwest Africa
- most are freshwater, semiaquatic turtles, except *Terrapene* sp.
- most are able to withdraw almost completely into the shell which has a large plastron
- 3 genera with double hinged plastrons (*Emys*, *Emydoidea*, *Terrapene*) can withdraw completely



*Terrapene ornata* - Ornate Box Turtle

**TESTUDINATA - Cryptodira - Testudinoidea - Emydidae**



**Graptemys** sp. Map Turtles

- 10 species
- eastern United States
- lake and river turtles
- dorsal "keels" give the common name "sawback" in some areas



*G. versa* - Texas Map Turtle



*G. kohnii* - Mississippi Map Turtle

TESTUDINATA - Cryptodira - Testudinoidea - Emydidae



- Chrysemys* sp. - "Painted Turtles"
- southern Canada to Argentina & Uruguay
  - in North America they are all subspecies of *C. picta*
  - southern Manitoba as far north as the northern tip of Lake Winnipeg in the west
  - smooth, unkeeled carapace, frequently with brightly marked plastrons
  - northern populations spend first winter in nest as hatchlings because eggs are laid too late for hatchlings to grow sufficiently to survive the winter.



*C. picta belli* - Western Painted Turtle

TESTUDINATA - Cryptodira - Testudinoidea - Emydidae



*Deirochelys* sp. - Chicken Turtles  
• southern United States



- Emydoidea blandingii* - Blanding's Turtle
- reaches southern Ontario, but apparently in trouble in most places
  - closely related to *Deirochelys* but with a hinged plastron
  - it has been suggested that they may have some degree of freeze tolerance



*Trachemys scripta elegans*  
Red - eared Slider

Courtship

Nesting



TESTUDINATA - Cryptodira - Testudinoidea - Testudinidae  
Tortoises

- 11 genera, 40 species
- world wide in temperate and tropical terrestrial regions, except Australia
- terrestrial with high domed shells
- unwebbed feet, may be elephantine
- one genus, *Kinixys*, has a hinged carapace



*Gopherus berlandieri* - Texas Tortoise



*Gopherus agassizi* - Desert Tortoise



*Geochelone pardalis*

**Cheloniidae**

- 5 genera, 7 species
- circumtropical



*Chelonia mydas* - Green Sea Turtle



*Eretmochelys imbricata* - Hawksbill

**TESTUDINATA - Cryptodira - Chelonoidea - Sea Turtles**

- fully aquatic, but nest on land

**Dermochelyidae**

- monotypic
- worldwide into temperate waters
- apparently endothermic
- carapace of tiny osteoderms embedded in skin, with enlarged osteoderms forming keel



*Dermochelys coriacea* - Leatherback

**TESTUDINATA - Cryptodira - Trionychoidea**



*Apalone mutica* - Smooth Softshell

**Trionychidae - Softshell Turtles**

- 14 genera, 25 species
- eastern North America, central Africa, Middle East, India, southeast Asia to Japan, Sunda Shelf
- fully aquatic with webbed limbs
- dorsoventrally flattened with reduced bone in shell so carapace is soft
- plastron is also reduced
- pointed snout and jaws covered by fleshy lips rather than beaks, but they can still bite!
- long necks permit them to

**TESTUDINATA - Cryptodira - Trionychoidea**



*Carretochelys insculpta* - Pig Nosed Turtle

**Carretochelyidae**

- monotypic
- New Guinea and northern Australia
- soft skin over carapace
- highly aquatic
- "flies" through the water



*Kinosternon odoratus* - Common Musk Turtle

**Kinosternidae - Mud or Musk Turtles**

- 3 or 4 genera, 22 species
- eastern North America to northern South America
- release foul smelling musk
- highly aquatic, but are bottom walkers rather than swimmers

**ARCHOSAURIA - Crocodylia**

- strictly oviparous
- guard nests and carry young to water



*Alligator mississippiensis* - American Alligator

**Alligatoridae - alligators**

- 3 genera, 8 species
- coastal plain of southern US to South America, with one species in the Yangtze river of china
- teeth of lower jaw fit into pits in upper jaw and cannot be seen when mouth is closed



*Crocodylus niloticus* - Nile Crocodile

**Crocodylidae - crocodiles**

- 2 genera, 13 species
- Central America to northern South America, Sub-Saharan Africa and Nile Valley, India and Indo Pacific to northern Australia