

Table S1. Global list of Freshwater Reptile Species

Freshwater reptile species from the for Freshwater Animal Diversity Assessment (FADA) database. The latest revision of the list of freshwater turtle species was completed by the IUCN/SSC Tortoise and Freshwater Turtle Specialist Group and the latest revision list of Squamata in freshwater was completed by Andrew Durso. Both these lists were provided by Aaike De Wever in his capacity of Data Manager (FADA). The Squamata list included some species that were attributed to mangroves or estuaries. Available information on the habitats of these species was examined and the species were removed from the list if there was no information showing that they inhabited freshwater environments.

Suborder	Family	Scientific name	How aquatic?
Crocodylia	Alligatoridae	<i>Alligator mississippiensis</i>	Semi-aquatic
Crocodylia	Alligatoridae	<i>Alligator sinensis</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Caiman crocodilus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Caiman latirostris</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Melanosuchus niger</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Palaeosuchus palpebrosus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Palaeosuchus trigonatus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus acutus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus cataphractus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus intermedius</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus johnsoni</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus mindorensis</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus moreletii</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus noveaguineae</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus niloticus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus palustris</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus raninus</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus rhombifer</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Crocodylus siamensis</i>	Semi-aquatic
Crocodylia	Crocodylidae	<i>Osteolemus tetraspis</i>	Semi-aquatic
Crocodylia	Galvalidae	<i>Gavialis gangeticus</i>	Semi-aquatic
Crocodylia	Galvalidae	<i>Tomistoma schlegelii</i>	Semi-aquatic
Lacertilia	Agamidae	<i>Hydrosaurus amboinensis</i>	Semiaquatic
Lacertilia	Agamidae	<i>Hydrosaurus pustulatus</i>	Semiaquatic
Lacertilia	Agamidae	<i>Hydrosaurus weberi</i>	Semiaquatic
Lacertilia	Agamidae	<i>Intellagama lesueurii</i>	Semiaquatic
Lacertilia	Agamidae	<i>Lophognathus temporalis</i>	Semiaquatic
Lacertilia	Agamidae	<i>Physignathus cocincinus</i>	Semiaquatic
Lacertilia	Corytophanidae	<i>Basiliscus basiliscus</i>	Semiaquatic
Lacertilia	Corytophanidae	<i>Basiliscus galeritus</i>	Semiaquatic
Lacertilia	Corytophanidae	<i>Basiliscus plumifrons</i>	Semiaquatic
Lacertilia	Corytophanidae	<i>Basiliscus vittatus</i>	Semiaquatic
Lacertilia	Gerrhosauridae	<i>Zonosaurus maximus</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Echinosaura sulcarostrum</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Neusticurus bicarinatus</i>	Semiaquatic

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Lacertilia	Gymnophthalmidae	<i>Neusticurus medemi</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Neusticurus racenisi</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Neusticurus rudis</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Neusticurus tatei</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites apodemus</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites cochranæ</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites ecleopus</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites erythrocularis</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites flavogularis</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites juruaensis</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites montanicola</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites ocellatus</i>	Semiaquatic
Lacertilia	Gymnophthalmidae	<i>Potamites strangulatus</i>	Semiaquatic
Lacertilia	Lanthanotidae	<i>Lanthanotus borneensis</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis aquaticus</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis barkeri</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis eugenegrahami</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis lionotus</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis lynchi</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis macrolepis</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis maculigula</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis oxylophus</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis poecilopus</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis rivalis</i>	Semiaquatic
Lacertilia	Polychrotidae	<i>Anolis vermiculatus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Amphiglossus astrolabi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Amphiglossus reticulatus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Cophoscincopus durus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Cophoscincopus greeri</i>	Semiaquatic
Lacertilia	Scincidae	<i>Cophoscincopus senegalensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Cophoscincopus simulans</i>	Semiaquatic
Lacertilia	Scincidae	<i>Eulamprus heatwolei</i>	Semiaquatic
Lacertilia	Scincidae	<i>Eulamprus kosciuskoi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Eulamprus leuraensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Eulamprus quoyii</i>	Semiaquatic
Lacertilia	Scincidae	<i>Eulamprus tympanum</i>	Semiaquatic
Lacertilia	Scincidae	<i>Lioscincus steindachneri</i>	Semiaquatic
Lacertilia	Scincidae	<i>Parvooscincus duwendorum</i>	Semiaquatic
Lacertilia	Scincidae	<i>Parvooscincus leucospilos</i>	Semiaquatic
Lacertilia	Scincidae	<i>Parvooscincus manananggalae</i>	Semiaquatic
Lacertilia	Scincidae	<i>Parvooscincus tikbalangi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Sphenomorphus cryptotis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus assamensis</i>	Semiaquatic

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Lacertilia	Scincidae	<i>Tropidophorus baconii</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus baviensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus beccarii</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus berdmorei</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus boehmei</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus brookei</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus cocincinensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus davaoensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus grayi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus guangxiensis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus hainanus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus hangnam</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus iniquus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus laotus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus latiscutatus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus matsuii</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus microlepis</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus micropus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus misaminius</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus mocquardii</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus murphyi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus noggei</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus partelloi</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus perplexus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus robinsoni</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus sinicus</i>	Semiaquatic
Lacertilia	Scincidae	<i>Tropidophorus thai</i>	Semiaquatic
Lacertilia	Shinisauridae	<i>Shinisaurus crocodilurus</i>	Semiaquatic
Lacertilia	Teiidae	<i>Crocodylurus amazonicus</i>	Semiaquatic
Lacertilia	Teiidae	<i>Dracaena guianensis</i>	Semiaquatic
Lacertilia	Teiidae	<i>Dracaena paraguayensis</i>	Semiaquatic
Lacertilia	Teiidae	<i>Kentropyx altamazonica</i>	Semiaquatic
Lacertilia	Tropiduridae	<i>Uranoscodon superciliosum</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus caerulivirens</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus cerambonensis</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus indicus</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus jobiensis</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus juxtindicus</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus melinus</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus mertensi</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus mitchelli</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus niloticus</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus ornatus</i>	Semiaquatic

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Lacertilia	Varanidae	<i>Varanus salvator</i>	Semiaquatic
Lacertilia	Varanidae	<i>Varanus semiremex</i>	Semiaquatic
Serpentes	Acrochordidae	<i>Acrochordus arafurae</i>	Fully aquatic
Serpentes	Acrochordidae	<i>Acrochordus javanicus</i>	Fully aquatic
Serpentes	Aniliidae	<i>Anilius scytale</i>	Fully aquatic
Serpentes	Boidae	<i>Eunectes beniensis</i>	Fully aquatic
Serpentes	Boidae	<i>Eunectes deschauenseei</i>	Fully aquatic
Serpentes	Boidae	<i>Eunectes murinus</i>	Fully aquatic
Serpentes	Boidae	<i>Eunectes notaeus</i>	Fully aquatic
Serpentes	Colubridae	<i>Erythrolamprus semiaureus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops angulatus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops apiaka</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops carinicaudus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops danieli</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops gomesi</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops hagmanni</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops infrataeniatus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops leopardinus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops modestus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops pastazae</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops petersi</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops polylepis</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops scalaris</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops tapajonicus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops trivittatus</i>	Fully aquatic
Serpentes	Colubridae	<i>Helicops yacu</i>	Fully aquatic
Serpentes	Colubridae	<i>Hydrops caesurus</i>	Fully aquatic
Serpentes	Colubridae	<i>Regina alleni</i>	Fully aquatic
Serpentes	Colubridae	<i>Regina grahamii</i>	Fully aquatic
Serpentes	Colubridae	<i>Regina rigida</i>	Fully aquatic
Serpentes	Colubridae	<i>Regina septemvittata</i>	Fully aquatic
Serpentes	Colubridae	<i>Seminatrix pygaea</i>	Fully aquatic
Serpentes	Colubridae	<i>Thamnodynastes strigatus</i>	Fully aquatic
Serpentes	Colubridae	<i>Adelophis copei</i>	Semiaquatic
Serpentes	Colubridae	<i>Afronatrix anoscopus</i>	Semiaquatic
Serpentes	Colubridae	<i>Atretium schistosum</i>	Semiaquatic
Serpentes	Colubridae	<i>Atretium yunnanensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Clonophis kirtlandii</i>	Semiaquatic
Serpentes	Colubridae	<i>Coniophanes bipunctatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Crotaphopeltis barotseensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Crotaphopeltis degeni</i>	Semiaquatic
Serpentes	Colubridae	<i>Crotaphopeltis hippocrepis</i>	Semiaquatic
Serpentes	Colubridae	<i>Crotaphopeltis hotamboeia</i>	Semiaquatic

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Serpentes	Colubridae	<i>Erythrolamprus almadensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Erythrolamprus cobella</i>	Semiaquatic
Serpentes	Colubridae	<i>Erythrolamprus frenatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Erythrolamprus jaegari</i>	Semiaquatic
Serpentes	Colubridae	<i>Erythrolamprus miliaris</i>	Semiaquatic
Serpentes	Colubridae	<i>Erythrolamprus poecilogyrus</i>	Semiaquatic
Serpentes	Colubridae	<i>Farancia abacura</i>	Semiaquatic
Serpentes	Colubridae	<i>Farancia erytrogramma</i>	Semiaquatic
Serpentes	Colubridae	<i>Gomesophis brasiliensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Grayia caesar</i>	Semiaquatic
Serpentes	Colubridae	<i>Grayia ornata</i>	Semiaquatic
Serpentes	Colubridae	<i>Grayia smithii</i>	Semiaquatic
Serpentes	Colubridae	<i>Grayia tholloni</i>	Semiaquatic
Serpentes	Colubridae	<i>Helophis schoutedeni</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrablades periops</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrablades praefrontalis</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydraethiops laevis</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydraethiops melanogaster</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrodynastes bicinctus</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrodynastes gigas</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrodynastes melanogigas</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydromorphus concolor</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydromorphus dunni</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrops martii</i>	Semiaquatic
Serpentes	Colubridae	<i>Hydrops triangularis</i>	Semiaquatic
Serpentes	Colubridae	<i>Limnophis bangweolicus</i>	Semiaquatic
Serpentes	Colubridae	<i>Limnophis bicolor</i>	Semiaquatic
Serpentes	Colubridae	<i>Liopholidophis lateralis</i>	Semiaquatic
Serpentes	Colubridae	<i>Liopholidophis sexlineatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Lygophis anomalus</i>	Semiaquatic
Serpentes	Colubridae	<i>Lygophis dilepis</i>	Semiaquatic
Serpentes	Colubridae	<i>Lygophis meridionalis</i>	Semiaquatic
Serpentes	Colubridae	<i>Macropisthodon flaviceps</i>	Semiaquatic
Serpentes	Colubridae	<i>Macropisthodon rhodomelas</i>	Semiaquatic
Serpentes	Colubridae	<i>Natriciteres bipostocularis</i>	Semiaquatic
Serpentes	Colubridae	<i>Natriciteres fuliginoides</i>	Semiaquatic
Serpentes	Colubridae	<i>Natriciteres olivacea</i>	Semiaquatic
Serpentes	Colubridae	<i>Natriciteres sylvatica</i>	Semiaquatic
Serpentes	Colubridae	<i>Natriciteres variegata</i>	Semiaquatic
Serpentes	Colubridae	<i>Natrix maura</i>	Semiaquatic
Serpentes	Colubridae	<i>Natrix megalcephala</i>	Semiaquatic
Serpentes	Colubridae	<i>Natrix tessellata</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia cyclopion</i>	Semiaquatic

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Serpentes	Colubridae	<i>Nerodia erythrogaster</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia fasciata</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia floridana</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia harteri</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia paucimaculata</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia rhombifer</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia sipedon</i>	Semiaquatic
Serpentes	Colubridae	<i>Nerodia taxispilota</i>	Semiaquatic
Serpentes	Colubridae	<i>Oocatochus rufodorsatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis alcalai</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis andersonii</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis atra</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis balteata</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis boonsongi</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis cheni</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis cucae</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis daovantieni</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis durandi</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis guangxiensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis jacobi</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis kikuzatoi</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis kuatunensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis lateralis</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis latouchii</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis laui</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis maculosa</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis maxwelli</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis rugosa</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis spenceri</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis tamdaoensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Opisthotropis typica</i>	Semiaquatic
Serpentes	Colubridae	<i>Parahelicops annamensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Paratapinophis praemaxillaris</i>	Semiaquatic
Serpentes	Colubridae	<i>Pseudoeryx plicatilis</i>	Semiaquatic
Serpentes	Colubridae	<i>Pseudoeryx relictualis</i>	Semiaquatic
Serpentes	Colubridae	<i>Ptychophis flavovirgatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Rhabdops olivaceus</i>	Semiaquatic
Serpentes	Colubridae	<i>Sinonatrix aequifasciata</i>	Semiaquatic
Serpentes	Colubridae	<i>Sinonatrix annularis</i>	Semiaquatic
Serpentes	Colubridae	<i>Sinonatrix percarinata</i>	Semiaquatic
Serpentes	Colubridae	<i>Sinonatrix yunnanensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Sordellina punctata</i>	Semiaquatic
Serpentes	Colubridae	<i>Stegonotus cucullatus</i>	Semiaquatic

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Serpentes	Colubridae	<i>Thamnodynastes hypoconia</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis angustirostris</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis atratus</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis butleri</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis couchii</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis cyrtopsis</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis eques</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis gigas</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis hammondi</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis marcianus</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis melanogaster</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis rossmani</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis rufipunctatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis sauritus</i>	Semiaquatic
Serpentes	Colubridae	<i>Thamnophis valida</i>	Semiaquatic
Serpentes	Colubridae	<i>Thermophis baileyi</i>	Semiaquatic
Serpentes	Colubridae	<i>Thermophis zhaoermii</i>	Semiaquatic
Serpentes	Colubridae	<i>Tretanorhinus mocquardi</i>	Semiaquatic
Serpentes	Colubridae	<i>Tretanorhinus nigroluteus</i>	Semiaquatic
Serpentes	Colubridae	<i>Tretanorhinus taeniatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Tretanorhinus variabilis</i>	Semiaquatic
Serpentes	Colubridae	<i>Tropidonophis mairii</i>	Semiaquatic
Serpentes	Colubridae	<i>Tropidonophis negrosensis</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis asperrimus</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis bellula</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis cerasogaster</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis flavipunctatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis maculatus</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis melanzostus</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis piscator</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis sanctijohannis</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis schnurrenbergeri</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis trianguligerus</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis tytleri</i>	Semiaquatic
Serpentes	Colubridae	<i>Xenochrophis vittatus</i>	Semiaquatic
Serpentes	Cylindrophidae	<i>Cylindrophis ruffus</i>	Semiaquatic
Serpentes	Elapidae	<i>Boulengerina annulata</i>	Semiaquatic
Serpentes	Elapidae	<i>Boulengerina christyi</i>	Semiaquatic
Serpentes	Elapidae	<i>Hemiaspis signata</i>	Semiaquatic
Serpentes	Elapidae	<i>Hydrophis brookii</i>	Semiaquatic
Serpentes	Elapidae	<i>Hydrophis melanosoma</i>	Semiaquatic
Serpentes	Elapidae	<i>Hydrophis semperi</i>	Semiaquatic
Serpentes	Elapidae	<i>Hydrophis sibauensis</i>	Semiaquatic

Table S1 Global list of Freshwater Reptile Species

Suborder	Family	Scientific name	How aquatic?
Serpentes	Elapidae	<i>Hydrophis torquatus</i>	Semiaquatic
Serpentes	Elapidae	<i>Kolpophis annandalei</i>	Semiaquatic
Serpentes	Elapidae	<i>Laticauda crockeri</i>	Semiaquatic
Serpentes	Elapidae	<i>Micrurus nattereri</i>	Semiaquatic
Serpentes	Elapidae	<i>Micrurus surinamensis</i>	Semiaquatic
Serpentes	Elapidae	<i>Naja melanoleuca</i>	Semiaquatic
Serpentes	Elapidae	<i>Naja nigricollis</i>	Semiaquatic
Serpentes	Elapidae	<i>Notechis scutatus</i>	Semiaquatic
Serpentes	Elapidae	<i>Pseudechis porphyriacus</i>	Semiaquatic
Serpentes	Elapidae	<i>Pseudohaje goldii</i>	Semiaquatic
Serpentes	Elapidae	<i>Pseudohaje nigra</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Erpeton tentaculatum</i>	Fully aquatic
Serpentes	Homalopsidae	<i>Brachyorrhos albus</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Brachyorrhos gastrotaenius</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Brachyorrhos raffrayi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Brachyorrhos wallacei</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Calamophis jobiensis</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Calamophis katesandersae</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Calamophis ruuddelangi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Calamophis sharonbrooksae</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Cantoria violacea</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Dieurostus dussumieri</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Djokoiskandarus annulata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris albomaculata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris alternans</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris bocourti</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris chanardi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris doriae</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris enhydris</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris gyii</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris indica</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris innominata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris jagorii</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris longicauda</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris maculosa</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris matannensis</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris pahangensis</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris pakistanica</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris plumbea</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris punctata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris subtaeniata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Enhydris vorisi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Ferania sieboldi</i>	Semiaquatic

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Suborder	Family	Scientific name	How aquatic?
Serpentes	Homalopsidae	<i>Gerarda prevostiana</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Heurnia ventromaculata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Homalopsis buccata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Homalopsis hardwickii</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Homalopsis mereljcoxi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Homalopsis nigroventralis</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Homalopsis semizonata</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Karnsophis siantaris</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Myron karnsi</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Myron resetari</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Myron richardsonii</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Myrrophis bennettii</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Myrrophis chinensis</i>	Semiaquatic
Serpentes	Homalopsidae	<i>Pseudoferania polylepis</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus bicolor</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus laevis</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus leleupi</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus rufulus</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus subtaeniatus</i>	Semiaquatic
Serpentes	Lamprophiidae	<i>Lycodonomorphus whytii</i>	Semiaquatic
Serpentes	Pythonidae	<i>Liasis fuscus</i>	Semiaquatic
Serpentes	Pythonidae	<i>Python sebae</i>	Semiaquatic
Serpentes	Viperidae	<i>Agkistrodon piscivorus</i>	Semiaquatic
Serpentes	Xenopeltidae	<i>Xenopeltis unicolor</i>	Semiaquatic
Cryptodira	Carettochelyidae	<i>Carettochelys insculpta</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Acanthochelys macrocephala</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Acanthochelys pallidipectoris</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Acanthochelys radiolata</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Acanthochelys spixii</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina burrungandjii</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina canni</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina expansa</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina gunaleni</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina longicollis</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina mccordi</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina novaeguineae</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina oblonga</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina parkeri</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina pritchardi</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina reimanni</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina rugosa</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina steindachneri</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelodina timorensis</i>	Aquatic or semiaquatic

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Suborder	Family	Scientific name	How aquatic?
Pleurodira	Chelidae	<i>Chelodina walloyarrina</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Chelus fimbriata</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya albagula</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya branderhorsti</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya dentata</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya irwini</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya lavarackorum</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elseya novaeguineae</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Elusor macrurus</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Emydura macquarii</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Emydura subglobosa</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Emydura tanybaraga</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Emydura victoriae</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Emydura worrelli</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Hydromedusa maximiliani</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Hydromedusa tectifera</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys dahli</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys gibba</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys heliostemma</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys hogei</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys nasuta</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys perplexa</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys raniceps</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys tuberculata</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys vanderhaegei</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Mesoclemmys zuliae</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Myuchelys bellii</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Myuchelys georgesi</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Myuchelys latisternum</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Myuchelys purvisi</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Phrynops Geoffroanus</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Phrynops hilarii</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Phrynops tuberosus</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Phrynops williamsi</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Platemys platycephala</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Pseudemydura umbrina</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Rheodytes leukops</i>	Aquatic or semiaquatic
Pleurodira	Chelidae	<i>Rhinemys rufipes</i>	Aquatic or semiaquatic
Cryptodira	Chelydridae	<i>Chelydra acutirostris</i>	Aquatic or semiaquatic
Cryptodira	Chelydridae	<i>Chelydra rossignonii</i>	Aquatic or semiaquatic
Cryptodira	Chelydridae	<i>Chelydra serpentina</i>	Aquatic or semiaquatic
Cryptodira	Chelydridae	<i>Macrochelys temminckii</i>	Aquatic or semiaquatic
Cryptodira	Dermatemydidae	<i>Dermatemys mawii</i>	Aquatic or semiaquatic

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Suborder	Family	Scientific name	How aquatic?
Cryptodira	Emydidae	<i>Actinemys marmorata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Chrysemys dorsalis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Chrysemys picta</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Clemmys guttata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Deirochelys reticularia</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Emydoidea blandingii</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Emys orbicularis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Emys trinacris</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Glyptemys insculpta</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Glyptemys muhlenbergii</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys barbouri</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys caglei</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys ernsti</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys flavimaculata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys geographica</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys gibbonsi</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys nigrinoda</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys oculifera</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys ouachitensis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys pearlensis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys pseudogeographica</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys pulchra</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys sabinensis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Graptemys versa</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Malaclemys terrapin</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys alabamensis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys concinna</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys floridana</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys gorzugi</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys nelsoni</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys peninsularis</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys rubriventris</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Pseudemys texana</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene carolina</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene coahuila</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene mexicana</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene nelsoni</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene ornata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Terrapene yucatana</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys adiutrix</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys callirostris</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys decorata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys decussata</i>	Aquatic or semiaquatic

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Suborder	Family	Scientific name	How aquatic?
Cryptodira	Emydidae	<i>Trachemys dorbignii</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys emolli</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys gaigeae</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys nebulosa</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys ornata</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys scripta</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys stejnegeri</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys taylori</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys terrapen</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys venusta</i>	Aquatic or semiaquatic
Cryptodira	Emydidae	<i>Trachemys yaquia</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur affinis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur baska</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur borneoensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur dhongoka</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur kachuga</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Batagur trivittata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora amboinensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora aurocapitata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora bourreti</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora flavomarginata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora galbinifrons</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora mccordi</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora mouhotii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora pani</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora picturata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora trifasciata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora yunnanensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cuora zhoui</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys atripons</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys dentata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys enigmatica</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys fusca</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys gemeli</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys oldhamii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Cyclemys pulchriata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Geoclemys hamiltonii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Geoemyda japonica</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Geoemyda spengleri</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Hardella thurjii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Heosemys annandalii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Heosemys depressa</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Heosemys grandis</i>	Aquatic or semiaquatic

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Suborder	Family	Scientific name	How aquatic?
Cryptodira	Geoemydidae	<i>Heosemys spinosa</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Leucocephalon yuwonoi</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Malayemys macrocephala</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Malayemys subtrijuga</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys annamensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys caspica</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys japonica</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys leprosa</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys mutica</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys nigricans</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys reevesii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys rivulata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Mauremys sinensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Melanochelys tricarinata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Melanochelys trijuga</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Morenia ocellata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Morenia petersi</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Notochelys platynota</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Orlitia borneensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Pangshura smithii</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Pangshura sylhetensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Pangshura tecta</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Pangshura tentoria</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys annulata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys areolata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys diademata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys funerea</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys melanosterna</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys nasuta</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys pulcherrima</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys punctularia</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Rhinoclemmys rubida</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Sacalia bealei</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Sacalia quadriocellata</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Siebenrockiella crassicollis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Siebenrockiella leytensis</i>	Aquatic or semiaquatic
Cryptodira	Geoemydidae	<i>Vijayachelys silvatica</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Claudius angustatus</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon acutum</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon alamosae</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon angustipons</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon arizonense</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon baurii</i>	Aquatic or semiaquatic

Table S1 Global list of Freshwater Reptile Species

Suborder	Family	Scientific name	How aquatic?
Cryptodira	Kinosternidae	<i>Kinosternon chimalhuaca</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon creaseri</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon dunni</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon durangoense</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon flavescens</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon herrerae</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon hirtipes</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon integrum</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon leucostomum</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon oaxacae</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon scorioides</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon sonoriense</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Kinosternon subrubrum</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Staurotypus salvinii</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Staurotypus triporcatus</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Sternotherus carinatus</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Sternotherus depressus</i>	Aquatic or semiaquatic
Cryptodira	Kinosternidae	<i>Sternotherus minor</i>	Aquatic or semiaquatic
Pleurodira	Kinosternidae	<i>Sternotherus odoratus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelomedusa subrufa</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios adansonii</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios bechuanicus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios broadleyi</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios carinatus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios castaneus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios castanoides</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios chapini</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios cupulatta</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios gabonensis</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios marani</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios nanus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios niger</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios rhodesianus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios seychellensis</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios sinuatus</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios subniger</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios upembae</i>	Aquatic or semiaquatic
Pleurodira	Pelomedusidae	<i>Pelusios williamsi</i>	Aquatic or semiaquatic
Cryptodira	Platysternidae	<i>Platysternon megacephalum</i>	Aquatic or semiaquatic
Pleurodira	Podocnemididae	<i>Erymnochelys madagascariensis</i>	Aquatic or semiaquatic
Pleurodira	Podocnemididae	<i>Peltocephalus dumerilianus</i>	Aquatic or semiaquatic
Pleurodira	Podocnemididae	<i>Podocnemis erythrocephala</i>	Aquatic or semiaquatic
Pleurodira	Podocnemididae	<i>Podocnemis expansa</i>	Aquatic or semiaquatic

Table S1 Global list of Freshwater Reptile Species

Suborder	Family	Scientific name	How aquatic?
Pleurodira	Podecnimidae	<i>Podocnemis lewyana</i>	Aquatic or semiaquatic
Pleurodira	Podecnimidae	<i>Podocnemis sextuberculata</i>	Aquatic or semiaquatic
Pleurodira	Podecnimidae	<i>Podocnemis unifilis</i>	Aquatic or semiaquatic
Pleurodira	Podecnimidae	<i>Podocnemis vogli</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Amyda cartilaginea</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Apalone atra</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Apalone ferox</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Apalone mutica</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Apalone spinifera</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Chitra chitra</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Chitra indica</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Chitra vandijki</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Cyclanorbis elegans</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Cyclanorbis senegalensis</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Cycloderma aubryi</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Cycloderma frenatum</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Dogania subplana</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Lissemys ceylonensis</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Lissemys punctata</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Lissemys scutata</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Nilssonia formosa</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Nilssonia gangetica</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Nilssonia hurum</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Nilssonia leithii</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Nilssonia nigricans</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Palea steindachneri</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelochelys bibroni</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelochelys cantorii</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelochelys signifera</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelodiscus axenaria</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelodiscus maackii</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelodiscus parviformis</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Pelodiscus sinensis</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Rafetus euphraticus</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Rafetus swinhoei</i>	Aquatic or semiaquatic
Cryptodira	Trionychidae	<i>Trionyx triunguis</i>	Aquatic or semiaquatic