



Bibliography of Virginia Herpetology

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Introduction

The English literature that includes observations on the amphibians and reptiles that occur in Virginia has a deep history. Indeed, the initial observations and mention of a species in Virginia was in the first books published about this part of the New World.

The sources of this literature are as varied as one can imagine. Books, magazine articles, history books, and the scientific literature in many fields (e.g., archaeology, geology, herpetology, ichthyology, mammalogy, ornithology, paleontology, parasitology, wildlife biology) all contain herpetofaunal observations made in Virginia. I started keeping 4x6 inch file cards on the literature I encountered in 1973. I have left no stone unturned in the 45 years I have focused on this project. Prior to the use of internet search engines, I searched the herpetological literature I accumulated through journals acquired in society memberships, searching the stacks in libraries, and using interlibrary loan. I searched the literature cited sections at the end of scientific papers and some books for possible references to follow up. I came upon many of the sources while looking for or reading about something else.

My criteria for including a source in this bibliography was (1) the species had to occur in Virginia and (2) the observation had to have been made in Virginia, on populations that occur in the state, or specimens that had been collected here. Every species included in the books and articles that met these criteria were listed on file cards. All of them are included as key words at the end of each citation in this bibliography.

This searchable PDF allows one to use the scientific name of a species of interest to find all the titles that contain that species. The best way to search is to use the species name only. Full species names with genus and species are used for each keyword, but only the species part is needed. I included several other words of general interest in citations that did not mention specific names as is often the case with archeological articles. These words are biography, bones, dinosaur, fossil, frog, history, lizard, salamander, snake, and turtle.

The scientific names for most of the species that occur in Virginia have changed over time as we better understand phylogenetic relationships and taxonomic details. Common English names have also changed, but seem more stable these days than the scientific names. The checklist in Table 1 includes the spellings used by the Society for the Study of Amphibians and Reptiles in Crother (2012) and subsequent changes on their website to the start of 2017. I include a checklist of current names because some of them will change again later. The species names in this checklist are the ones you need to use for accurate searches. I did not include subspecies names in the keywords, because the specific name is the one best used for searching. However, *P. c. floridana* and *V. v. pulchra* are considered by some to be full species so searching on these names may yield references on their own. I included subspecies in the checklist if both, in one case 3, occur in the state.

All of the species known to occur naturally in Virginia are in the checklist, of course, but names of introduced species and names of a few species that occur in the literature, but do not actually reside in the state, are also included. The American Alligator is one example. Introduced species are indicated with an asterisk and literature names only with a dollar sign. The Gray Ratsnake (*P. spiloides*[#]) may be shown through later research to occur in far southwestern Virginia as alluded to in Mitchell (1994).

This bibliography is not absolutely complete because there are undoubtedly some I missed. I was able to search only a few years of the Virginia archaeological literature. The last *Virginia Wildlife* I looked at was 2008. Thus, additional citations should be added as they become available. A useful project would be a bibliography of the amphibian and reptile (or all vertebrate) names in archeological journals and books.

Building a bibliography such as this requires the help of a lot of people. I apologize for not remembering someone who should be on this list. They include C. Blem, K. Dodd, E. Hilton, R.L. Hoffman, R. Jung Brown, K. Buhlmann, C. Haas, J. Keinath, M. Klemens, J. Kleopfer, J. Moriarty, W. Palmer, T. Pauley, A. Price, S. Roble, B. Truitt, A. Savitzky, B. Savitzky, S. Walls, B. Watts, and G. Zug. I am especially grateful to Melanie Hillner and Betty Tobias, science librarians at the University of Richmond, for their support over many years. Betty was especially good at finding obscure titles and obtaining copies through Interlibrary Loan. I think I stumped her only three times in the 20 years we worked together. I am also grateful to George Zug, senior curator, for letting me rummage through the herpetology library at the Smithsonian Institution on many occasions. Special thanks go to the Virginia Herpetological Society for providing the funds that allowed me to finish this bibliography.

Table 1. Checklist of the amphibians and reptiles of Virginia. * = introduced species, \$ = species in the Virginia literature, but do not occur in the state, and # = possible in far southwestern Virginia. Ernst *et al.* (2014) believed *Chrysemys p. marginatus* and its intergrades with *C. p. picta* occur in western Virginia (&).

Amphibians

Frogs

Bufonidae

Toads

Anaxyrus americanus

American Toad

Anaxyrus fowleri

Fowler's Toad

Anaxyrus quercicus

Oak Toad

Anaxyrus terrestris

Southern Toad

Hylidae

Acris crepitans

Holarctic Treefrogs

Acris gryllus

Eastern Cricket Frog

Hyla chrysoscelis

Southern Cricket Frog

Hyla cinerea

Cope's Gray Treefrog

Hyla femoralis

Green Treefrog

Hyla gratiosa

Pine Woods Treefrog

Hyla squirella

Barking Treefrog

Hyla versicolor

Squirrel Treefrog

Osteopilus septentrionalis

Gray Treefrog

Pseudacris brachyphona

Cuban Treefrog*

Pseudacris brimleyi

Mountain Chorus Frog

Pseudacris crucifer

Brimley's Chorus Frog

Pseudacris feriarum

Spring Peeper

Pseudacris kalmi

Upland Chorus Frog

Pseudacris nigrita

New Jersey Chorus Frog

Pseudacris ocularis

Southern Chorus frog

Pelobatidae

Scaphiopus holbrookii

Little Grass Frog

Ranidae

Lithobates catesbeianus

Spadefoot Toads

Lithobates clamitans

Eastern Spadefoot

Lithobates kauffledi

True Frogs

Lithobates palustris

American Bullfrog

Lithobates pipiens

Green Frog

Lithobates sphenoccephalus

Atlantic Coast Leopard Frog

Lithobates sylvaticus

Pickerel Frog

Lithobates virgatipes

Northern Leopard Frog^{\$}

Microhylidae

Gastrophryne carolinensis

Southern Leopard Frog

Wood Frog

Carpenter Frog

Microhylid Frogs

Eastern Narrow-mouthed Toad

Salamanders

Ambystomatidae

Ambystoma jeffersonianum

Ambystoma mabeei

Ambystoma maculatum

Ambystoma opacum

Ambystoma talpoideum

Ambystoma tigrinum

Plethodontidae

Aneides aeneus

Desmognathus auriculatus

Desmognathus fuscus

Desmognathus marmoratus

Desmognathus monticola

Desmognathus ochrophaeus

Desmognathus orestes

Desmognathus organi

Desmognathus planiceps

Desmognathus quadramaculatus

Desmognathus welteri

Eurycea bislineata

Eurycea cirrigera

Eurycea guttolineata

Eurycea longicauda

Eurycea lucifuga

Eurycea quadridigitata

Eurycea wilderae

Gyrinophilus porphyriticus

Gyrinophilus porphyriticus duryi

Gyrinophilus porphyriticus danielsi

Hemidactylium scutatum

Plethodon chlorobryonis

Plethodon cinereus

Plethodon cylindraceus

Plethodon glutinosus

Plethodon hoffmani

Plethodon hubrichti

Plethodon kentucki

Plethodon montanus

Plethodon punctatus

Plethodon richmondi

Plethodon shenandoah

Plethodon sherando

Plethodon ventralis

Plethodon virginia

Mole Salamanders

Jefferson Salamander

Mabee's Salamander

Spotted Salamander

Marbled Salamander

Mole Salamander

Eastern Tiger Salamander

Lungless Salamanders

Green Salamander

Southern Dusky Salamander

Northern Dusky Salamander

Shovel-nosed Salamander

Seal Salamander

Allegheny Mt. Dusky Salamander

Blue Ridge Dusky Salamander

Northern Pygmy Salamander

Flat-headed Salamander

Black-bellied Salamander

Black Mountain Salamander

Northern Two-lined Salamander

Southern Two-lined Salamander

Three-lined Salamander

Long-tailed salamander

Cave Salamander

Dwarf Salamander^s

Blue Ridge 2-lined Salamander

Spring Salamander

Blue Ridge Spring Salamander

Kentucky Spring Salamander

Four-toed Salamander

Atlantic Coast Slimy Salamander

Eastern Red-backed Salamander

White-spotted Slimy Salamander

Northern Slimy Salamander

Valley and Ridge Salamander

Peaks of Otter Salamander

Cumberland Plateau Salamander

N. Gray-cheeked Salamander

Cow Knob Salamander

Southern Ravine Salamander

Shenandoah Salamander

Big Levels Salamander

Southern Zigzag Salamander

Shenandoah Mtn. Salamander

<i>Plethodon wehrlei</i>	Wehrle's Salamander
<i>Plethodon welleri</i>	Weller's Salamander
<i>Plethodon yonahlossee</i>	Yonahlossee Salamander
<i>Pseudotriton montanus</i>	Mud Salamander
<i>Pseudotriton montanus montanus</i>	Eastern Mud Salamander
<i>Pseudotriton montanus diastictus</i>	Midland Mud Salamander
<i>Pseudotriton ruber</i>	Red Salamander
<i>Pseudotriton ruber ruber</i>	Northern Red Salamander
<i>Pseudotriton ruber nitidus</i>	Blue Ridge Red Salamander
<i>Stereochilus marginatus</i>	Many-lined Salamander
<u>Cryptobranchidae</u>	Giant Salamanders
<i>Cryptobranchus alleganiensis</i>	Hellbender
<u>Sirenidae</u>	Sirens
<i>Siren intermedia</i>	Lesser Siren
<i>Siren lacertina</i>	Greater Siren
<u>Amphiumidae</u>	Congo Eels
<i>Amphiuma means</i>	Two-toed Amphiuma
<u>Proteidae</u>	Waterdogs
<i>Necturus maculosus</i>	Mudpuppy
<i>Necturus punctatus</i>	Dwarf Waterdog
<u>Salamandridae</u>	True Salamanders
<i>Notophthalmus viridescens</i>	Eastern Newt

Reptiles

Turtles

<u>Cheloniidae</u>	Sea Turtles
<i>Caretta caretta</i>	Loggerhead Sea Turtle
<i>Chelonia mydas</i>	Green Sea Turtle
<i>Eretmochelys imbricata</i>	Hawksbill Sea Turtle
<i>Lepidochelys kempii</i>	Kemp's Ridley Sea Turtle
<u>Dermochelyidae</u>	Leatherback Sea Turtles
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle
<u>Chelydridae</u>	Snapping Turtles
<i>Chelydra serpentina</i>	Snapping Turtle
<u>Emydidae</u>	Pond Turtles
<i>Chrysemys picta</i>	Painted Turtle
<i>Chrysemys picta picta</i>	Eastern Painted Turtle
<i>Chrysemys picta marginata</i>	Midland Painted Turtle ^{&}
<i>Clemmys guttata</i>	Spotted Turtle
<i>Deirochelys reticularia</i>	Chicken Turtle
<i>Glyptemys insculpta</i>	Wood Turtle
<i>Glyptemys muhlenbergii</i>	Bog Turtle
<i>Graptemys geographica</i>	Northern Map Turtle
<i>Graptemys ouachitensis</i>	Southern Map Turtle ^s

<i>Graptemys pseudogeographica kohnii</i>	Mississippi Map Turtle*
<i>Malaclemys terrapin</i>	Diamond-backed Terrapin
<i>Pseudemys concinna</i>	River Cooter
<i>Pseudemys concinna concinna</i>	Eastern River Cooter
<i>Pseudemys concinna floridana</i>	Coastal Plain Cooter
<i>Pseudemys rubriventris</i>	Northern Red-bellied Cooter
<i>Terrapene carolina</i>	Eastern Box Turtle
<i>Trachemys scripta</i>	Pond Slider
<i>Trachemys scripta scripta</i>	Yellow-bellied Slider
<i>Trachemys scripta elegans</i>	Red-eared Slider
<i>Trachemys scripta troostii</i>	Cumberland Slider
<u>Kinosternidae</u>	Mud and Musk Turtles
<i>Kinosternon subrubrum</i>	Eastern Mud Turtle
<i>Kinosternon baurii</i>	Striped Mud Turtle
<i>Sternotherus minor peltifer</i>	Stripe-necked Musk Turtle
<i>Sternotherus odoratus</i>	Eastern Musk Turtle
<u>Trionichidae</u>	Softshell Turtles
<i>Apalone spinifera</i>	Spiny Softshell
<i>Pelodiscus sinensis</i>	Chinese Softshell*

Lizards

<u>Anguidae</u>	Anguid Lizards
<i>Ophisaurus attenuatus</i>	Slender Glass Lizard
<i>Ophisaurus ventralis</i>	Eastern Glass Lizard
<u>Gekkonidae</u>	Geckos
<i>Hemidactylus turcicus</i>	Mediterranean Gecko*
<u>Phrynosomatidae</u>	Sceloporine Lizards
<i>Anolis carolinensis</i>	Green Anole ^{\$}
<i>Sceloporus undulatus</i>	Eastern Fence Lizard
<u>Scincidae</u>	Skinks
<i>Plestiodon anthracinus</i>	Coal Skink
<i>Plestiodon fasciatus</i>	Common Five-lined Skink
<i>Plestiodon inexpectatus</i>	Southeastern Five-lined Skink
<i>Plestiodon laticeps</i>	Broad-headed Skink
<i>Scincella lateralis</i>	Little Brown Skink
<u>Teiidae</u>	Whiptails
<i>Aspidoscelis sexlineata</i>	Six-lined Racerunner

Snakes

<u>Colubridae</u>	Colubrid Snakes
<i>Carphophis amoenus</i>	Common Wormsnake
<i>Cemophora coccinea</i>	Scarletsnake
<i>Coluber constrictor</i>	North American Racer

<i>Diadophis punctatus</i>	Ring-necked Snake
<i>Diadophis punctatus edwardsii</i>	Northern Ring-necked Snake
<i>Diadophis punctatus punctatus</i>	Southern Ring-necked Snake
<i>Farancia abacura</i>	Red-bellied Mudsnake
<i>Farancia erythrogramma</i>	Rainbow Snake
<i>Haldea striatula</i>	Rough Earth Snake
<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake
<i>Lampropeltis rhombomaculata</i>	Mole Kingsnake
<i>Lampropeltis getula</i>	Eastern Kingsnake
<i>Lampropeltis nigra</i>	Eastern Black Kingsnake
<i>Lampropeltis triangulum</i>	Milksnake
<i>Nerodia erythrogaster</i>	Plain-bellied Watersnake
<i>Nerodia sipedon</i>	Common Watersnake
<i>Nerodia taxispilota</i>	Brown Watersnake
<i>Opheodrys aestivus</i>	Rough Greensnake
<i>Opheodrys vernalis</i>	Smooth Greensnake
<i>Pantherophis alleghaniensis</i>	Eastern Ratsnake
<i>Pantherophis guttatus</i>	Red Cornsnake
<i>Pantherophis spiloides</i>	Gray Ratsnake [#]
<i>Pituophis melanoleucus</i>	Northern Pinesnake
<i>Liodytes rigida</i>	Glossy Swampsnake
<i>Regina septemvittata</i>	Queensnake
<i>Storeria dekayi</i>	Dekay's Brownsnake
<i>Storeria occipitomaculata</i>	Red-bellied Snake
<i>Tantilla coronata</i>	Southeastern Crowned Snake
<i>Thamnophis sauritus</i>	Eastern Ribbonsnake
<i>Thamnophis sirtalis</i>	Common Gartersnake
<i>Virginia valeriae</i>	Smooth Earthsnake
<i>Virginia valeriae pulchra</i>	Mountain Earthsnake
<i>Virginia valeriae valeriae</i>	Eastern Smooth Earthsnake
<u>Typhlopidae</u>	Blindsnakes
<i>Indotyphlops braminus</i>	Brahminy Blind Snake*
<u>Viperidae</u>	Pitvipers
<i>Agkistrodon contortrix</i>	Copperhead
<i>Agkistrodon piscivorus</i>	Cottonmouth
<i>Crotalus adamanteus</i>	E. Diamond-backed Rattlesnake [§]
<i>Crotalus horridus</i>	Timber Rattlesnake
<i>Sistrurus miliarius</i>	Pygmy Rattlesnake [§]

Alligators

Alligatoridae

American Alligator[§]

Alligators

Alligator mississippiensis

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marginatus, *Acris crepitans*, *Acris gryllus*, *Anaxyrus americanus*, *Anaxyrus fowleri*, *Anaxyrus quercicus*, *Anaxyrus terrestris*, *Gastrophryne carolinensis*, *Hyla cinerea*, *Hyla femoralis*, *Hyla chrysoscelis*, *Hyla gratiosa*, *Hyla squirella*, *Hyla versicolor*, *Lithobates catesbeianus*, *Lithobates clamitans*, *Lithobates palustris*, *Lithobates sphenoccephalus*, *Lithobates sylvaticus*, *Lithobates virgatipes*, *Pseudacris brachyphona*, *Pseudacris brimleyi*, *Pseudacris crucifer*, *Pseudacris feriarum*, *Pseudacris kalmi*, *Pseudacris nigrita*, *Pseudacris ocularis*, *Scaphiopus holbrookii*, *Caretta caretta*, *Chelonia mydas*, *Eretmochelys imbricata*, *Lepidochelys kempii*, *Dermochelys coriacea*, *Apalone spinifera*, *Chelydra serpentina*, *Chrysemys picta*, *Clemmys guttata*, *Dierochelys reticularia*, *Eretmochelys imbricata*, *Glyptemys insculpta*, *Glyptemys muhlenbergii*, *Graptemys geographica*, *Kinosternon subrubrum*, *Malaclemys terrapin*, *Pseudemys concinna*, *Pseudemys floridana*, *Pseudemys rubriventris*, *Sternotherus minor*, *Sternotherus odoratus*, *Terrapene carolina*, *Trachemys scripta*, *Aspidoscelis sexlineata*, *Plestiodon anthracinus*, *Plestiodon fasciatus*, *Plestiodon inexpectatus*, *Plestiodon laticeps*, *Ophisaurus attenuatus*, *Ophisaurus ventralis*, *Sceloporus undulatus*, *Scincella lateralis*, *Agkistrodon contortrix*, *Agkistrodon piscivorus*, *Carphophis amoenus*, *Cemophora coccinea*, *Coluber constrictor*, *Crotalus horridus*, *Diadophis punctatus*, *Farancia abacura*, *Farancia erythrogramma*, *Heterodon platirhinos*, *Lampropeltis calligaster*, *Lampropeltis elapsoides*, *Lampropeltis getula*, *Lampropeltis nigra*, *Lampropeltis triangulum*, *Nerodia erythrogaster*, *Nerodia sipedon*, *Nerodia taxispilota*, *Opheodrys aestivus*, *Opheodrys vernalis*, *Pantherophis alleghaniensis*, *Pantherophis guttata*, *Pantherophis spiloides*, *Pituophis melanoleucus*, *Liodytes rigida*, *Regina septemvittata*, *Storeria dekayi*, *Storeria occipitomaculata*, *Tantilla coronata*, *Thamnophis sauritus*, *Thamnophis sirtalus*, *Virginia valeriae*, *Virginia striatula*

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