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# New Records for Amphibian and Reptile Trematodes

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### *Research Note*

## **New Records for Amphibian and Reptile Trematodes**

From 1975 to 1978, 200 amphibians and reptiles from localities in Nebraska, Arkansas, Oklahoma, Louisiana, Mississippi, Florida, North Carolina, and West Virginia were examined for trematode parasites. This report provides additional information concerning the geographical distribution of North American amphibian and reptile trematodes. Some results have already been published (Brooks and Fusco, 1978, J. Miss. Acad. Sci. 23:95-99). Worms, removed from their hosts, were examined alive when possible, and fixed with AFA after flattening with slight coverslip pressure. Specimens were stored in 70% ethanol, then stained with Mayer's hematoxylin and mounted in Histoclad or Canada balsam for study as whole mounts. Voucher specimens for all species have been deposited in the Harold W. Manter Laboratory, Division of Parasitology, University of Nebraska State Museum. Numbers in parentheses represent numbers of hosts infected per hosts examined at each locality. The notation NH refers to new host, NL to new locality, L to lungs, SI to small intestine, M to mouth, UB to urinary bladder, R to rectum, H to heart, MB to mesenteric blood vessels, and SM to submucosa of esophagus. (\*) refers to specimens donated by colleagues.

*Glypthelmins quieta* (Stafford, 1900) Stafford, 1905 SI

*Rana catesbeiana* Shaw—Pea Vine Creek, Oklahoma (1/1) NL\*; Ocean Springs, Mississippi (2/4) NL

- Rana clamitans* Latreille—Blind Choctaw Bayou, vicinity of Baton Rouge, Louisiana (4/15)
- Rana utricularia* Harlan—Ocean Springs, Mississippi (1/9); Blind Choctaw Bayou, Louisiana (14/32)
- Rana pipiens* Schreber—10 miles South of Berkeley Springs, West Virginia (1/2) NL
- Brachycoelium salamandrae* (Froehlich, 1789) Lüche, 1909 SI
- Rana utricularia*—Ocean Springs, Mississippi (1/9) NL
- Rana pipiens*—10 miles South of Berkeley Springs, West Virginia (1/2) NL
- Plethodon glutinosus* (Green)—Ocean Springs, Mississippi (1/1) NL; 10 miles Northeast of Oxford, Mississippi (3/3) NL
- Haematoloechus complexus* (Seely, 1906) Krull, 1933 L
- Rana utricularia*—Ocean Springs, Mississippi (2/9) NL
- Haematoloechus breviplexus* Stafford, 1902 L
- Rana catesbeiana*—Ocean Springs, Mississippi (1/4) NL
- Haematoloechus longiplexus* Stafford, 1902 L
- Rana catesbeiana*—Lake Texoma, Oklahoma (1/1)
- Megalodiscus temperatus* (Stafford, 1905) Harwood, 1932 R
- Rana clamitans*—Blind Choctaw Bayou, Louisiana (5/15)
- Rana utricularia*—Blind Choctaw Bayou, Louisiana (15/32); Ocean Springs, Mississippi (1/9) NL
- Gorgoderina minima* Cort, 1912 UB
- Rana catesbeiana*—Ocean Springs, Mississippi (2/4) NL
- Rana clamitans*—Blind Choctaw Bayou, Louisiana (2/15)
- Rana utricularia*—Blind Choctaw Bayou, Louisiana (1/32)
- Gorgoderina attenuata* (Stafford, 1902) Stafford, 1905 UB
- Rana catesbeiana*—Ocean Springs, Mississippi (2/4) NL
- Gorgoderina bilobata* Rankin, 1937 UB
- Rana utricularia*—Ocean Springs, Mississippi (2/9) NL
- Polystoma nearcticum* (Paul, 1935) Price, 1939 UB
- Hyla cinerea* (Schneider)—Ocean Springs, Mississippi (1/4) NL
- Hyla* cf. *versicolor*—Pea Vine Creek, Oklahoma (1/1) NH, NL\*
- Ochetosoma magna* (Byrd and Denton, 1938) Caballero and Vogelsang, 1947 L
- Coluber constrictor* L.—Wake Co., North Carolina (1/1) NH, NL\*
- Elaphe obsoleta obsoleta* (Say)—Vanderburgh Co., Indiana (1/1) NH, NL\*
- Ochetosoma aniarum* (Leidy, 1891) Skrjabin and Antipin, 1957 M
- Coluber constrictor*—Fremont, Nebraska (1/1) NH, NL
- Ochetosoma kansensis* (Crow, 1913) Skrjabin and Antipin, 1957 M
- Agkistrodon piscivorus* (Lacépède)—Lincoln Parish, Louisiana (1/3) NL
- Ochetosoma wardi* (Byrd, 1936) Skrjabin and Antipin, 1957 M
- Nerodia c. cyclopion* (Dumeril and Bibron)—Jennings, Louisiana (1/3) NH, NL
- Nerodia erythrogaster flavigaster* (Forster)—Jennings, Louisiana (1/2) NH
- Nerodia fasciata confluens* Blanchard—Jennings, Louisiana (1/3) NH
- Auritelorchis auridistomi* (Byrd, 1937) Stunkard, 1979 SI
- Farancia abacura* (Holbrook)—Payne's Prairie, Alachua County, Florida (1/1) NL\*

*Allassostoma magna* Stunkard, 1916 R

*Chrysemys concinna* (LeConte)—Stuttgart, Arkansas (1/1) NL

*Heronimus mollis* (Leidy, 1856) Stunkard, 1964 L

*Chrysemys scripta* (Schoepf)—Posey County, Indiana (1/1) NL\*

*Cotylaspis* sp. SI

*Chrysemys scripta*—Lincoln Parish, Louisiana (1/2) NL

*Telorchis corti* Stunkard, 1915 SI

*Chrysemys scripta*—Shreveport, Louisiana (1/1)

*Telorchis robustus* Goldberg, 1911 SI

*Sternotherus carinatus* (Gray)—Richland Parish, Louisiana (3/5) NH, NL

*Macravestibulum obtusicaudum* Mackin, 1930 SI

*Sternotherus carinatus*—Richland Parish, Louisiana (1/5) NH, NL

*Pleurogonius malaclemys* Hunter, 1961 SI

*Malaclemys terrapin centrata* (Latr.)—Savannah Beach, Georgia (1/1) NL\*

*Polystomoidella* sp. UB

*Chrysemys scripta*—Lincoln Parish, Louisiana (2/2)

*Polystomoides* sp. UB

*Sternotherus carinatus*—Richland Parish, Louisiana (2/5)

*Spirorchis artericola* (Ward, 1921) Stunkard, 1925 H

*Chrysemys scripta*—Richland Parish, Louisiana (1/1) NL

*Spirorchis elegans* Stunkard, 1923 SM

*Chrysemys scripta*—10 miles NE of Oxford, Mississippi (2/2) NL

*Spirorchis haematobium* Stunkard, 1922 H

*Chelydra serpentina* (L.)—Ocean Springs, Mississippi (1/1) NL

*Spirorchis parvus* (Stunkard, 1923) Yamaguti, 1958 H

*Chrysemys scripta*—Stuttgart, Arkansas (1/1) NL

*Unicaecum dissimilis* Byrd, 1939 MB

*Graptemys geographica* (LeSueur)—10 miles N Yazoo City, Mississippi (1/1)

NH, NL

*Unicaecum ruszowskii* Stunkard, 1925 MB

*Chrysemys scripta*—10 miles NE Oxford, Mississippi (2/2) NL

Previous reports of digeneans infecting leopard frogs in the southeastern United States listed either *Rana sphenoccephala* (Brandt, 1936, Ecol. Monogr. 6:491–532; Bennett, 1938, Proc. La. Acad. Sci. 4:178–181), *R. pipiens* (Parker, 1941, J. Tenn. Acad. Sci. 16:27–45), or *R. pipiens sphenoccephala* (Sacks, 1952, Trans. Am. Microsc. Soc. 71:267–269) as host. Pace (1974, Misc. Publ. Mus. Zool. Univ. Mich. 148:1–140) ascribed all such frogs to *Rana utricularia*. Including the above and the present report, *Rana utricularia* is known to host the following digeneans: *Brachycoelium salamandrae*, *Cephalogonimus americanus* Stafford, 1902, *Gorgoderina minima*, *Gorgoderina attenuata*, *G. bilobata*, *Glypthelmins quieta*, *Haematoloechus complexus*, *Langeronia parva* Sacks, 1952, *Loxogenoides bicolor* (Krull, 1933) Kaw, 1945, and *Megalodiscus temperatus*.

Dronen and Guidry (1977, Proc. Helminthol. Soc. Wash. 44:223–225) presented data suggesting that relative size of gonads and absolute sizes of various body parts do not provide adequate means for distinguishing species of *Ochetosoma*. My identifications are based on examination of the posterior extent of the cirrus sac, amount of glandulation inside the cirrus sac, vitelline configuration, sucker

ratio and genital pore location. I have deposited 64 specimens of *Ochetosoma* spp. in hopes they will aid a much-needed revision of the group.

This paper presents only the third report of the spirorchiid genus *Unicaecum* Stunkard, 1925. Stunkard (1925, Ann. Parasitol. Hum. Comp. 5:117–126) erected the genus for *U. ruszowskii* Stunkard, 1925 from *Chrysemys scripta* in North Carolina and Byrd (1939, J. Tenn. Acad. Sci. 14:116–161) described *U. dissimilis* from *Chrysemys troostii* in Reelfoot Lake, Tennessee. Spirorchiids have occasionally been reported from sites other than the circulatory system. I found one specimen of *U. ruszowskii* in the small intestine of a *Chrysemys scripta*, but all other specimens occurred in the mesenteric blood vessels. *Spirorchis elegans* collected from near Oxford, Mississippi all occurred in the esophageal submucosa, a finding consistent with results published by Schroeder and Ulmer (1959, Proc. Iowa Acad. Sci. 66:443–454).

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