

NUMBER 40, continued

THE PARASITES OF AMPHIBIA

by

A. C. Walton
Knox College, Galesburg, Illinois

HOST LIST OF ACANTHOCEPHALA PARASITES

- AMBYSTOMA OPACUM -- U.S.A.
Acanthocephalus acutulus.
- AMPHIUMA TRIDACTYLUM -- U.S.A.
*Acanthocephalus sp? of Bennett & Humes,
1938; Leptorhynchoides thecatus.
- BOMBINA BOMBINA -- Europe.
Acanthocephalus ranae.
- BOMBINATOR IGNEUS -- Europe.
Acanthocephalus ranae.
- BUFO ARENARUM -- South America.
Acanthocephalus lutzii.
- BUFO ASPER -- Celebes Islands.
Acanthocephalus bufonis.
- BUFO BUFO -- Europe.
Acanthocephalus bufonicola, A. ranae.
- BUFO BUFO FORMOSUS -- China.
Acanthocephalus bufonis, A. elongatus.
- BUFO BUFO JAPONICUS -- Japan.
Acanthocephalus lucidus.
- BUFO CRUCIFER -- Brazil.
*Centrorhynchus tumidulus, *Lueheia luehei.
- BUFO FOWLERI -- U.S.A.
*Centrorhynchus sp? of Brandt, 1936.
- BUFO MARINUS -- Central America.
*Moniliformis sp? of Chandler, 1941.
- BUFO MARINUS -- South America.
Acanthocephalus lutzii.
- BUFO MARINUS -- Mexico (Yucatan).
*Acanthocephalus sp? cysts of Pearse,
1936.
- BUFO MAURITANICUS -- Africa (Morocco).
*Moniliformis moniliformis.
- BUFO MELANOSTICTUS -- Formosa.
Acanthocephalus bufonis.
- BUFO MELANOSTICTUS -- India.
*Centrorhynchus aluconis, *Echinopardalis
bangalorensis.
- BUFO PENANGENSIS -- South East Asia.
Acanthocephalus bufonis
- BUFO REGULARIS -- South Africa.
*Echinorhynchus sp? of Warren, 1923.

* Indicate a larval stage.

- BUFO VIRIDIS -- Europe.
Acanthocephalus caucasicus, A. ranae.
- BUFO VIRIDIS -- Asia.
Acanthocephalus bufonis.
- BUFO VULGARIS -- Europe. (= B. bufo)
Acanthocephalus ranae.
- DESMOGNATHUS FUSCUS -- U.S.A.
Acanthocephalus acutulius, *Acanthocephalus
sp? of Rankin, 1937. (also cysts).
- DESMOGNATHUS QUADRAMACULATUS --
U.S.A. *Acanthocephalus sp? of Rankin,
1937. (also cysts).
- EURYCEA MULTIPLICATA -- U.S.A.
Acanthocephalus vancleavei.
- EURYCEA TYNERENSIS -- U.S.A.
Acanthocephalus vancleavei.
- HYLA ARBOREA (= H. viridis) -- Europe.
Acanthocephalus ranae, *Centrorhynchus
aluconis.
- HYLA AUREA -- Australia.
(*Acanthocephalus hylae) = *Gordiorhynchus
hylae.
- HYLA CAERULEA -- Australia.
*Gordiorhynchus hylae.
- HYLA CRUCIFER -- U.S.A.
*Centrorhynchus sp? of Brandt, 1936.
- HYLA FABER -- Brazil.
*Lueheia luehei.
- HYLA MESOPHAEA -- Brazil.
*Centrorhynchus tumidulus.
- HYLA PARDALIS -- Brazil.
*Lueheia luehei.
- HYLA RADDIANA -- South America.
Acanthocephalus lutzii.
- HYLA REGILLI -- U.S.A.
*Centrorhynchus californicus.
- KALOULA PULCHRA -- French Indo-China.
*Echinorhynchus sp? of Shipley, 1903.
- LEPTODACTYLUS OCELLATUS -- Brazil.
*Centrorhynchus giganteus, *C. tumidulus,
*Lueheia luehei.
- LEPTODACTYLUS PENTADACTYLUS
LABYRINTHICUS -- Brazil. *Centrorhynchus
tumidulus.
- LIMNODYNASTES DORSALIS -- Australia.
*Gordiorhynchus hylae.
- MEGALOBATRACHUS JAPONICUS -- Japan.
Acanthocephalus lucidus, A. nanus.
- NECTURUS MACULOSUS -- U.S.A.
Leptorhynchoides thecatus.
- NOTOPHTHALMUS VIRIDESCENS VIRIDESCENS
-- U.S.A. Acanthocephalus acutulius,
(?) A. rana, Pomphorhynchus bulbocolli.
- PLETHODON GLUTINOSUS -- U.S.A.
Acanthocephalus acutulius.
- PLEURODEMA (= Paludicola) DARWINI --
South America. Acanthocephalus lutzii.
- POLYPEDATES BUERGERI -- Japan.
Acanthocephalus lucidus.
- PSEUDACRIS BRIMLEYI -- U.S.A.
*Centrorhynchus sp? of Brandt, 1936.
- RANA AGILIS -- Europe.
Acanthocephalus ranae.

- RANA ARVALIS -- Europe.
Acanthocephalus ranae.
- RANA CATESBIANA -- U.S.A.
*Centrorhynchus sp? of Brandt, 1936.
- RANA CLAMITANS -- U.S.A.
*Acanthocephalan larvae of Odlaug, 1954.
- RANA CYANOPHLYCTIS -- India.
Neoechinorhynchus cyanophlyctis,
*Pomphorhynchus dubius.
- RANA ESCULENTA -- Europe.
Acanthocephalus ranae, *Acanthocephalan
of Bailenger & Chanseau, 1954,
*Centrorhynchus aluconis, Corynosoma
semerme, *Echinorhynchus sp? of Cini,
1877, Neoechinorhynchus rutili.
- RANA ESCULENTA JAPONICA -- China.
Acanthocephalus bufonis
- RANA ESCULENTA JAPONICA -- Japan.
Acanthorhynchus lucidus, *Arhythmorhynchus
hispidus, *Centrorhynchus sp? of Van
Cleave, 1925.
- RANA MACROCNEMIS -- Europe.
Acanthocephalus caucasicus, *Acanthocephalus
sp? of Dinnik, 1926.
- RANA (?) MUTA -- Europe.
Acanthocephalus ranae.
- RANA NIGROMACULATA -- China.
Acanthocephalus bufonis.
- RANA NIGROMACULATA -- Japan.
Acanthocephalus lucidus, *Arhythmorhynchus
hispidus.
- RANA RUGOSA -- Japan.
Acanthocephalus nanus, *Centrorhynchus
sp? of Van Cleave, 1925.
- RANA SPHENOCEPHALA -- U.S.A.
*Centrorhynchus sp? of Brandt, 1936.
- RANA SYLVATICA -- U.S.A.
*Acanthocephalan larvae of Odlaug, 1954.
- RANA TAGOI -- Japan.
Acanthocephalus lucidus.
- RANA TEMPORARIA -- Europe.
Acanthocephalus ranae.
- RANA TEMPROARIA ORNATIVENTRIS --
Japan. Acanthocephalus lucidus,
*Porrorchis oti.
- RANA TIGRINA -- Celebes Islands.
Acanthocephalus bufonis.
- RANA TIGRINA -- French Indo-China.
Acanthocephalus lucidus, A. tigerinae,
*Echinorhynchus sp? of Houdemer, 1927.
- RANA TIGRINA -- India.
*Arhythmorhynchus tigrinus, *Centrorhynchus
aluconis, *C. amphibius, *C. batrachus.
- RANA TIGRINA -- Japan.
Acanthocephalus lucidus.
- RANA TIGRINA -- Java.
*Centrorhynchus sp? of Baylis, 1923.
- RANA sp? of Datta & Soota, 1954-56 --
Afghanistan. Acanthocephalus kabulensis.
- SALAMANDRA ATRA -- Europe.
Acanthocephalus ranae.
- SALAMANDRA SALAMANDRA (= S. maculosa)
Europe. Acanthocephalus ranae.
- TRITURUS ALPESTRIS -- Europe.
Acanthocephalus ranae.

TRITURUS CRISTATUS -- Europe.

Acanthocephalus anthuris, A. ranae.

TRITURUS HELVETICUS (= T. palmatus; =

T. punctatus) -- Europe. Acanthocephalus anthuris, A. ranae.

TRITURUS PYRRHOGASTER -- Japan.

Acanthocephalus nanus, *A. sp? of
Pearse, 1932.

TRITURUS VULGARIS (= T. lobatus; = T.

taeniatus) -- Europe. Acanthocephalus anthuris, A. ranae.

NUMBER 40, continued

THE PARASITES OF AMPHIBIA

by

A. C. Walton
Knox College, Galesburg, Illinois

ACANTHOCEPHALA: List of Parasites

- ACANTHOCEPHALUS ACUTULUS Van Cleave, 1931. Adults from Ambystoma opacum, Desmognathus fuscus, Notophthalmus viridescens, Plethodon glutinosus -- U.S.A.
- ACANTHOCEPHALUS ANTHURIS (Dujardin, 1845) Lühe, 1911. Adults from Triturus cristatus, T. helveticus, T. vulgaris, turtles -- Europe.
- ACANTHOCEPHALUS ARTATUS Van Cleave, 1925. (see: Acanthocephalus lucidus).
- ACANTHOCEPHALUS BUFONICOLA Kostylew, 1924. Adults from Bufo bufo -- Europe (USSR).
- ACANTHOCEPHALUS BUFONIS (Shiple, 1903) Southwell & Macfie, 1925. Adults from Bufo asper, Rana tigrina -- Celebes; Bufo melanostictus, B. penangensis -- S. E. Asia; Bufo bufo formosus, Rana esc. japonica, R. nigromaculata -- China; Bufo viridis -- Asia (USSR).
- ACANTHOCEPHALUS BUFONIS of Joyeux & Baer, 1935. (see: Acanthocephalus bufonis).
- ACANTHOCEPHALUS CAUCASICUS Petrochenko, 1953. Adults from Bufo viridis, Rana macrocnemis -- Europe (USSR).
- ACANTHOCEPHALUS ELONGATUS Van Cleave, 1937. Adult from Bufo bufo formosus -- China.
- ACANTHOCEPHALUS FALCATUS (Froelich, 1789) Lühe, 1911. (see: Acanthocephalus ranae).
- ACANTHOCEPHALUS HYLAE (Johnston, 1914) Meyer, 1932. (see: Gordiorhynchus hylae).
- ACANTHOCEPHALUS KABULENSIS Datta & Soota, 1954-56. Adult from Rana sp? -- Afghanistan.
- ACANTHOCEPHALUS LUCIDUS Van Cleave, 1925. Adults from Bufo bufo japonicus, Megalobatrachus japonicus, Polypedates buergeri, Rana esculenta japonica, R. nigromaculata, R. tagoi, R. temporaria ornativentris, R. tigrina -- Japan, Rana tigrina -- French Indo-China.

ACANTHOCEPHALUS LUTZII (v. Linstow of Hamann, 1891) Meyer, 1932.

Adults from Bufo arenarum, B. marinus, Hyla raddiana, Pleurodema darwini -- S. America.

ACANTHOCEPHALUS NANUS Van Cleave, 1925. Adults from Megalobatrachus japonicus, Rana rugosa, Triturus pyrrhogaster -- Japan. Intermediate host: Asellus aquaticus -- Japan.

ACANTHOCEPHALUS RANAE (Schrank, 1788) Luhe, 1911. Adults from Bombina bombina, Bombinator igneus, Bufo bufo, B. viridis, B. vulgaris, Hyla arborea, Rana agilis, R. arvalis, R. esculenta, R. esc. ridibunda, R. muta (?), R. temporaria, Salamandra atra, S. salamandra, Triturus alpestris, T. cristatus, T. helveticus, T. vulgaris, and various snakes and birds -- Europe; (?) Notophthalmus viridescens -- U.S.A. Intermediate host: Asellus aquaticus -- Europe.

ACANTHOCEPHALUS SINENSIS Van Cleave, 1937. (see: Acanthocephalus bufonis).

ACANTHOCEPHALUS TIGRINAE (Shiple, 1903) Walton, 1942. Adults from Rana tigrina -- French Indo-China.

ACANTHOCEPHALUS VANCLEAVEI Hughes & Moore, 1943. Adults from Eurycea multiplicata, E. tynerensis -- U.S.A.

"Acanthocephalan" of Bailenger & Chanseau, 1954. Adult from Rana esculenta -- Europe (France).

Acanthocephalan larva of Bennett & Humes, 1938. From Amphiuma tridactylum -- U.S.A.

Acanthocephalan larva of Dinnik, 1926.

From Rana macrocnemis -- S. E. Europe.

Acanthocephalan larva of Pearse, 1932.

From Triturus pyrrhogaster -- Japan.

Acanthocephalan larva of Pearse, 1936.

From Bufo marinus -- Mexico (Yucatan).

Acanthocephalan larvae of Rankin, 1937.

Larvae and cysts from Desmognathus fuscus, D. quadramaculatus -- U.S.A.

Acanthocephalan larvae of Odlaug, 1954.

From Rana clamitans, R. sylvatica -- U.S.A.

ACONTOCEPHALUS LUTZI of Cordero, 1927. (see: Acanthocephalus lutzii).

ARHYTHMORHYNCHUS FUSCUS Harada, 1929. (see: Arhythmorhynchus hispidus).

ARHYTHMORHYNCHUS HISPIDUS Van Cleave, 1925. Adults from Herons -- Galapagos Islands; Japan. Intermediate hosts are Rana nigromaculata, fish, snakes -- Japan.

ARHYTHMORHYNCHUS TIGRINUS Moghe & Das, 1953. Larvae from Rana tigrina -- India.

ARHYTHMORHYNCHUS sp? of Das, 1953. (see: Arhythrorhynchus tigrinus).

CENTRORHYNCHUS ALUCONIS (Müller, 1780) Lühe, 1911. Adults from birds of prey -- Armenia, India, Europe (Italy). Intermediate hosts are Bufo melanostictus, Rana tigrina -- India, Hyla arborea, Rana esculenta -- Europe. (normally in lizards and snakes -- Asia; Europe).

- CENTRORHYNCHUS AMPHIBIUS Das, 1950.
Larvae encysted in Rana tigrina -- India.
- CENTRORHYNCHUS BATRACHUS Das, 1952.
Larvae in Rana tigrina -- India.
- CENTRORHYNCHUS BUTEONIS (Schrank, 1788) of Meyer, 1932. (see: Centrorhynchus aluconis).
- CENTRORHYNCHUS CALIFORNICUS Millzner, 1924. Larvae in Hyla regilla -- U.S.A.
- CENTRORHYNCHUS GIGANTEUS Travassos, 1920. Adults from the Falconidae -- S. America. Intermediate host: Leptodactylus ocellatus -- Brazil.
- CENTRORHYNCHUS LESINIFORMIS (Molin, 1859) of Meyer, 1932. (see: Centrorhynchus aluconis).
- CENTRORHYNCHUS TUMIDULUS (Rudolphi, 1819) Neiva, Cunha & Travassos, 1914. Adults from birds -- S. America. Intermediate hosts are: Bufo crucifer, Hyla mesophaea, Leptodactylus ocellatus, L. pentadactylus labyrinthicus -- S. America (mainly Brazil). (Larvae also in snakes).
- CENTRORHYNCHUS sp? of Baylis, 1933. Larvae from Rana tigrina -- Java.
- CENTRORHYNCHUS sp? of Brandt, 1936. Larvae from Bufo fowleri, Hyla crucifer, Pseudacris brimleyi, Rana catesbiana, R. sphenoccephala -- U.S.A.
- CENTRORHYNCHUS sp? of Travassos, 1926. (see: Centrorhynchus tumidulus).
- CENTRORHYNCHUS sp? of Van Cleave, 1925. Larvae from Rana esculenta japonica, R. rugosa -- Japan.
- CHENTRORHYNCHUS TUMIDULUS of Neiva, Cunha & Travassos, 1914. (see: Centrorhynchus tumidulus).
- CHENTROSOMA ALUCONIS (Müller, 1780) Porta, 1908. (see: Centrorhynchus aluconis).
- CHENTROSOMA LESINIFORMIS (Molin, 1859) Porta, 1908. (see: Centrorhynchus aluconis).
- CHENTROSOMA MIRABILUS (Polonio, 1859) Porta, 1908. (see: Centrorhynchus aluconis).
- CORYNOSOMA HYSTRIX (Bremser, 1824) Lütke, 1911, e.p. (see: Corynosoma semerme).
- CORYNOSOMA SEMERME (Forssell, 1904) Lütke, 1911. Adults from Rana esculenta -- Europe. (normally in sea mammals and fish-eating birds). Intermediate hosts: Amphipods and fish. -- Europe.
- ECHINOPARDALIS BANGALORENSIS Pujatti, 1951. Acanthella in Bufo melanostictus -- India. Larvae from Francolinus pondicerianus -- India.
- ECHINORHYNCHUS AEQUALIS Zeder, 1803, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS AFFINIS of Gmelin, 1791. (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS ALUCONIS Müller, 1780. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS ANTHURIS Dujardin, 1845. (see: Acanthocephalus anthuris).

- ECHINORHYNCHUS BACILLARIS Zeder,
1803, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS BUFONIS Shipley, 1903.
(see: Acanthocephalus bufonis).
- ECHINORHYNCHUS BUTEONIS Schnak,
1788, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS CARASSI of Rudolphi,
1819. (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS CAUDATUS of Diesing,
1851. (see: Centrorhynchus gigateus).
- ECHINORHYNCHUS CAUDATUS of Rudolphi,
1819. (see: Centrorhynchus tumidulus).
- ECHINORHYNCHUS CAUDATUS of Zeder,
1803, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS CLAVAECEPS Zeder,
1803, (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS COBITIDIS Gmelin,
1791. (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS COBITINIS of Schrank,
1792. (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS CONTORTUS Molin,
1861. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS CROATICUS Stossich,
1890. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS FALCATUS Froelich,
1789. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS GIBBER Olsson, 1893,
e.p. (see: Corynosoma semerme).
- ECHINORHYNCHUS HAERUCA (Pallas,
1760) Rudolphi, 1802. (see:
Acanthocephalus ranae).
- ECHINORHYNCHUS HYLAE Johnston,
1914. (see: Gordiorhynchus hylae).
- ECHINORHYNCHUS HYSTRIX Bremser,
1824, e.p. (see: Corynosoma semerme).
- ECHINORHYNCHUS INAEQUALIS Rudolphi,
1808. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS LESINIFORMIS Molin,
1859. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS LOTZII of Hamann,
1891. (? see: Acanthocephalus lutzii).
- ECHINORHYNCHUS LUTZI v. Linstow, of
Hamann, 1891. (see: Acanthocephalus
lutzii).
- ECHINORHYNCHUS MEGACEPHALUS
Westrumb, 1821. (see: Centrorhynchus
tumidulus).
- ECHINORHYNCHUS MERGI Bloch, 1782,
of Schrank, 1788 (see: Centrorhynchus
aluconis).
- ECHINORHYNCHUS MIRABILIS Polonio,
1859. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS MONILIFORMIS
Bremser in Rudolphi, 1819. (see:
Moniliformis moniliformis).
- ECHINORHYNCHUS NYCTEAE Schrank,
1788, e.p. (see: Centrorhynchus
aluconis).
- ECHINORHYNCHUS OBOVATUS Olsson,
1893, e.p. (see: Corynosoma semerme).
- ECHINORHYNCHUS ORICOLA v. Linstow,
1901. (see: Leptorhynchoides thecatus).
- ECHINORHYNCHUS OTIDIS Schrank,
1788. (see: Centrorhynchus aluconis).

- ECHINORHYNCHUS POLYACANTHOIDES
Creplin, 1825, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS POLYCANTHUS Creplin,
1825, e.p. (see: Centrorhynchus tumidulus).
- ECHINORHYNCHUS PRAETEXTUS Molin,
1858. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS PROTEUS Westrumb,
1821, of auctt. (see: Pomphorhynchus bulbocolli).
- ECHINORHYNCHUS RANAE Schrank, 1788.
(see: Acanthocephalus ranae).
- ECHINORHYNCHUS RANAE-BOMBINAE
(Westrumb, 1821) Diesing, 1851. (see:
Acanthocephalus ranae).
- ECHINORHYNCHUS RANAE-BOMBYNAE
Westrumb, 1821. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS RANAE-TEMPORARIAE
Viborg, 1795. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS RUTILI Müller, 1780.
(see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS SCOPIS Gmelin, 1791,
e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS SEMERMIS Forssell,
1904. (see: Corynosoma semerme).
- ECHINORHYNCHUS STRIDULAE Goeze,
1782, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS STRIGIS Goeze, 1782,
of Gmelin, 1790. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS STRIGIS AURICULARIS
Goeze, 1782, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS STRIGIS STRIDULAE
Goeze, 1782, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS STRUMOSUS Rudolphi,
1802, e.p. (see: Corynosoma semerme).
- ECHINORHYNCHUS TIGRINAE Shipley,
1903. (see Acanthocephalus tigrinae).
- ECHINORHYNCHUS THECATUS Linton,
1891. (see: Leptorhynchoides thecatus).
- ECHINORHYNCHUS TRITONIS Westrumb,
1821. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS TUBA Rudolphi,
1802, e.p. (see: Centrorhynchus aluconis).
- ECHINORHYNCHUS TUBEROSUS Zeder,
1803. (see: Neoechinorhynchus rutili).
- ECHINORHYNCHUS TUMIDULUS Rudolphi,
1819. (see: Centrorhynchus tumidulus).
- ECHINORHYNCHUS sp? in Rana, of Goeze,
1782, e.p. (see: Acanthocephalus ranae).
- ECHINORHYNCHUS sp? of Bennett & Re,
1936. (see Acanthocephalus ranae).
- ECHINORHYNCHUS sp? of Cini, 1877.
Larvae from Rana esculenta -- Europe.
- ECHINORHYNCHUS sp? of Hassall, 1894.
(see: Acanthocephalus ranae).
- ECHINORHYNCHUS sp? of Houdemer, 1927.
Larvae from Rana tigrina -- French Indo-
China.

- ECHINORHYNCHUS sp? of Johnston, 1912.
(see: Gordiorhynchus hylae).
- ECHINORHYNCHUS sp? of Shipley, 1903.
Larvae from Kaloula pulchra -- French Indo-China.
- ECHINORHYNCHUS sp? of Warren, 1923.
Larvae from Bufo regularis -- S. Africa.
- GORDIORHYNCHUS HYLAE (Johnston, 1914)
Johnston & Edmunds, 1948. Adults from Podargus strigoides -- S. Australia. Larvae from mesenteries of Hyla aurea, H. caerulea, Limnodynastes dorsalis -- S. Australia.
- HAERUCULA of Pallas, 1760, e.p. (see: Acanthocephalus ranae).
- LEPTORHYNCHOIDES THECATUS (Linton, 1891) Kostylev, 1924. Adults from Amphiuma tridactylum, Necturus maculosus -- U.S.A. (normally in freshwater fish). Acanthor in Hyaella azteca -- U.S.A.
- LUEHEIA LUEHEI Travassos, 1920.
Adults from birds -- S. America.
Intermediate hosts are: Bufo crucifer, Hyla faber, H. pardalis, Leptodactylus ocellatus, and various snakes -- Brazil.
- MONILIFORMIS MONILIFORMIS (Bremser, 1819) Travassos, 1915. Larvae encysted in Bufo mauritanicus -- Africa (Morocco). (see: Dollfus, 1954)
- MONILIFORMIS MONILIFORMIS (Bremser, 1819) of Van Cleave, 1924 and of Sandground, 1926. (see: Moniliformis sp? of Chandler, 1941).
- MONILIFORMIS MONILIFORMIS (Bremser, 1819) auct. 2nd stage larvae in Bufo mauritanicus -- Africa. (usually in insects). (see: Dollfus, 1953).
- MONILIFORMIS sp? of Chandler, 1921.
(see: Moniliformis sp? of Chandler, 1941).
- MONILIFORMIS sp? of Chandler, 1941.
Adult unknown; probably a mammal.
Larvae from frogs and toads, esp. Bufo marinus, and lizards -- Cent. & N. America.
- NEOECHINORHYNCHUS CYANOPHLYCTIS
Kaw, 1951. Adult from Rana cyanophlyctis -- India.
- NEOECHINORHYNCHUS RUTILI (Müller, 1780) Meyer, 1932. Adults from Rana esculenta -- Europe. (also fish and (?) turtles). Intermediate hosts: Ostracods, Sialis spp?, Nepheli spp?, Lymnaea sp? -- Europe.
- NEORHYNCHUS RUTILI (Müller, 1780)
Lühe, 1911. (see: Neoechinorhynchus rutili).
- POMPHORHYNCHUS BULBOCOLLI Linkins, in Van Cleave, 1919. Adults from Notophthalmus viridescens viridescens -- U.S.A. (normally in fish and snakes).
- POMPHORHYNCHUS DUBIOUS Kaw, 1941.
Juvenile from subperitoneal region of Rana cyanophlyctis -- India.
- PORRORCHIS OTI Yamaguti, 1939. Adults from birds (Otus sp?) -- Japan.
Juvenile in bladder wall of Rana temporaria ornativentris -- Japan.

SOUTHWELLINA HISPIDA (Van Cleave,
1925) Witenberg, 1932. (see:
Arhythmorhynchus hispidus).

TAENIA HAERUCA Pallas, 1760, e.p.
(see: Acanthocephalus ranae).

TAENIOLA of Pallas, 1760, e.p. (see:
Acanthocephalus ranae).

NUMBER 40, continued

THE PARASITES OF AMPHIBIA

by

A. C. Walton
Knox College, Galesburg, Illinois

BIBLIOGRAPHY FOR ACANTHOCEPHALA

1. ANDRÉ, E. 1912, 1913.
Recherches parasitologiques sur les Amphibiens de la Suisse. Rev. Suisse Zool. 20(7): 471-485. 21(6): 179-200. Illus.
2. ANDRÉ, E. 1917.
Contribution à l'étude de la faune helminthologique de la Suisse. Rev. Suisse Zool. 25(10): 169-177.
3. BAILENGER, J. & J. CHANSEAU. 1954. Étude des vers parasites des amphibiens anoues de la région de Bordeaux. Ann. Parasitol., Hum. et Comp. 29(5/6): 546-559. Illus.
4. BAYLIS, H. A. 1933.
On some parasitic worms from Java, with remarks on the Acanthocephalan genus Pallisentis. Ann. & Mag. Nat. Hist. 10 s. (70). 12: 443-449.
5. BENNETT, H. J. & A. G. HUMES. 1938. Helminth parasites of Amphiuma tridactylum and Siren lacertina from Louisiana. Proc. La. Acad. Sci. 4(1): 243-245.
6. BENNETT, H. J. & J. D. RE. 1936.
Parasites of Amphiuma tridactylum. Jour. Parasitol. 22(6): 526-544.
7. BLOCH, M. E. 1782.
Abhandlung von der Erzeugung der Eingeweidewürmer und den Mitteln wieder dieselben. 55 pp. Illus. Berlin.
8. BRANDT, B. B. 1936.
Parasites of certain North Carolina Salientia. Ecol. Monogr. 6(4): 491-532.
9. BREMER, J. G. 1819.
(in: Rudolphi, C. A. 1819).
10. BREMSER, J. G. 1824.
icones helminthum systema Rudolphi entozoologicum illustrantes. 12 pp. Illus. Viennae.
11. CHANDLER, A. C. 1921.
Notes on Moniliformis sp? in rats in Texas. Jour. Parasitol. 7(4):179-183. Illus.

12. CHANDLER, A. C. 1941.
The specific status of Moniliformis
(Acanthocephala) of Texas rats and a
review of the species of this genus in
the Western Hemisphere. Jour.
Parasitol. 27(3): 241-244.
13. CINI, G. 1877.
Catalogo descrittivo del Museo di
anatomie patologica della r. Scuole
superiore de medicina veterinaria do
Torino. Med. Vet., Torino. 4 s.
6: 107-125; 201-211; 257-292;
347-360.
14. CORDERO, E. H. 1927.
Cepedea metcalfi y Acanthocephalus
lutzi. (an abstract). Physio.
Rev. Soc. Argent. Cienc. Nat. (31).
8: 658-659.
15. CORDERO, E. H. 1933.
Sur quelques acanthocéphales de l'Amérique
méridionale. I. Ann. Parasitol.,
Hum. et Comp. 11(4): 271-279.
16. CREPLIN, F. C. H. 1825.
Observationes de entozois. 86 pp.
Illus. Gryphiswaldiae.
17. DAS, E. N. 1950.
On some juvenile forms of Acanthocephala
of the genus Centrorhynchus from India.
Indian Jour. Helminthol., Lucknow.
2(1): 49-56.
18. DAS, E. N. 1952 (1953).
On some interesting larval stages of an
acanthocephalan, Centrorhynchus
batrachus sp. nov., from the frog,
Rana tigrina (Daud.) from India. Rec.
Indian Museum. 50(2): 147-156. Illus.
19. DAS, E. N. 1953 (1954).
On some interesting larval stages in the
life-history of a new species of the
acanthocephalan genus Arythmorhynchus,
from the frog, Rana tigrina (Daud.)
from India. Rec. Indian Museum.
51(1): 39-50. Illus.
20. DATTA, M. N. & T. D. SOOTA.
1954-56. On a new species of the
genus Acanthocephalus from Rana sp.
and a new host record of Centrorhynchus
cinctus (Rudolphi). Rec. Indian
Museum. 52(2/4): 185-188. Illus.
21. DIESING, K. M. 1851.
Systema helminthum, etc. Vol. 2. pp.
vi + 588. Vindobonae.
22. DINNIK, I. A. 1926.
[Les Helminthes parasites de Rana
macrocnemis Blgr. des environs de
Gwileti (Route Georgienne)].
(Russian text, French summary).
Rabot. Severo-kavkaz. Hidrobiol.
Stantaii Gorskom. Sel' sko- Khoz
Inst. 1(2): 46-53.
23. DOLLFUS, R. Ph. 1954.
Miscellanea Helminthologica Maroccana.
XI. Arch. Inst. Pasteur. Maroc.
4(8): 550-554. Illus.
24. DUJARDIN, F. 1845.
Histoire naturelle des helminthes ou
vers intestinaux. xvi + 654 + 15 pp.
Illus. Paris.
25. FORSELL, A. L. 1904.
Echinorhynchus semermis n. sp. Medd.
Soc. pro Fauna et Flora Fennica.
(30). pp. 175-179. Illus.

26. FROELICH, J. A. v. 1789.
Beschreibungen einiger neurn
Eingeweidewürmer. Naturforcher, Halle.
24: 101-162. Illus.
27. GIARD, A. 1904.
L'Echinorhynchus haeruca Rudolphi,
parasite de Rainette. La Feuille
Natural. 34(4. s.): 108.
28. GMELIN, J. F. 1790.
Caroli à Linné -- Systema naturae,
etc. Editio decima tertia. Vol. 1, Pt.
6. Vermes. pp. 3021-3910. Lipsiae.
29. GMELIN, J. F. 1791.
Caroli à Linné -- Systema naturae, etc.
Vol. 2, 2 pts. xl + 1661 pp. Lipsiae.
30. GOEZE, J. A. E. 1782.
Versuch einer Naturgeschichte der
Eingeweidewürmer thierischer
Körper. xi + 471 pp. Illus. Blankinburg.
31. GOLVAN, Y. J. 1960.
Le phylum de Acanthcephala.
Troisième note. La class des Palaeacanthocephala. Ann. Parasitol., Hum. et Comp. 35(4): 575-593. Illus.
32. GOTO, H. E. & H. R. HEWER. 1949.
Occurence of Acanthocephalus ranae
Schrank in Great Britain. Nature (London).
163(4146): 610-611.
33. GROSSMAN, T. & H. SANDNER. 1953.
[Helminthofauna of Amphibia in the
Bialowieza National Park]. (Polish text,
English summary). Acta Parasitol.
Polonica. 1(1/18): 346-352.
34. HAMANN, O. 1891.
Die Nematelminthen, etc. Erstes
Heft: Monographie der Acanthocephalen
(Echinorhynchen). i. Theil. v + 119 pp.
Illus. Jena.
35. HAMANN, O. 1892.
Das System der Acanthocephalen.
Zool. Anz. (392). 15: 195-197.
36. HARADA, I. 1929.
Ueber eine neue species der Acanthocephalen.
Japan. Jour. Zool. 2(2): 195-198.
Illus.
37. HARADA, I. 1935.
Zur Acanthocephalenfauna von Japan.
Mem. Fac. Sci. & Agric., Taihoku
Imp. Univ. 14(2): 7-23. Illus,
38. HASSALL, A. 1894.
(in: Stiles & Hassall, 1894).
39. HOUEMER, F. E. 1927.
Observations et recherches sur l'Hygiène
et la pathologie animales du Tonkin.
Thèse. 312 pp. Illus. Paris.
40. HUGHES, R. C. & G. A. MOORE. 1943.
Acanthocephalus vancleavei, a new
Echinorhynchid worm, from a salamander
Amer. Mild. Nat. 29: 724-729. Illus.
41. IHRING, H. v. 1902.
Die Helminthen als Hilfsmittel der
zoogeographischen Forschung. Zool.
Anz. (686). 26: 42-51.
42. JOHNSTON, T. H. 1912a.
Notes on some Entozoa. Proc. Roy.
Acad., Queensland. 24(1): 63-91.
Illus.

43. JOHNSTON, T. H. 1912b.
Cestoda and Acanthocephala. Rept.
Austral. Inst. Trop. Med. (1911).
pp. 75-96. Illus,
44. JOHNSTON, T. H. 1914.
Some new Queensland Endoparasites.
Proc. Roy. Soc., Queensland. 26(1):
76-84. Illus.
45. JOHNSTON, T. H. & S. J. EDMUNDS.
1948. Australian Acanthocephala.
No. 7. Trans. Roy. Soc. S.
Australia. 72(1): 69-78. Illus.
46. JOYEUX, C. & J. G. BAER. 1935.
Etude de quelques acanthocéphales
d'Indochine. Ann. Mus. Hist. Nat.,
Marseille. 27(Mem. 2): 1-15. Illus.
47. KAW, B. L. 1941.
Studies on the helminth parasites of
Kashmir. Part I. Description of some
new species of the genus Pomphorhynchus
Monticelli (1905). Proc. Indian Acad.
Sci. 13 B: 369-378. Illus.
48. KAW, B. L. 1951.
Studies in Helminthology: Helminth
parasites of Kashmir. Part II.
Acanthocephala. Indian Jour.
Helminthol. 3: 117-132. Illus.
49. KOLENDO, A. 1959.
[Helminth fauna of the green toad -
Bufo viridis Laur. - from the Lublin
Palitinate]. (Polish text). Acta
Parasitol., Polonica. 7(13/22):
431-439.
50. KOSTYLEW, N. N. 1924.
[Ueber die Acanthocephalenfauna der
Wolga und ihrer Nebenflüsse].
(Russian text, German summary).
Rabot. Volzhsk. Biol. Stantsli.
7(4/5): 142-148.
51. LINCICOME, D. R. & H. J. VAN CLEAVE.
1949. Distribution of Leptorhynchoides
thecatus, a common Acanthocephalan
parasitic in fishes. Amer. Midl. Nat.
41(2): 421-431.
52. LINSTOW, O. v. 1901.
Entozoa des zoologischen Museums der
kaiserlichen Akademie der Wissenschaften
zu St. Petersburg. Bull. Acad. Imper.
Sci., St. Petersburg. 15(3): 271-292.
53. LINTON, E. 1891.
Notes on the entozoa of marine fishes,
with descriptions of new species. Part
III. Acanthocephala. Rept. U. S.
Comm. Fisheries. 1888. pp. 523-
542.
54. LÜHE, M. 1911.
Acanthocephalen. Register der
Acanthocephalen und parasitischen
Plattwürmer, geordnet nach ihren Wirten.
Süßwasserfauna Deutschlands.
Hft. 16. pp. 1-116. Illus.
55. MALEWITZ, T. D. 1956.
Intestinal Parasites of som Mid-Western
Salamanders. Amer. Midl. Nat. 55(2):
434-436.

56. MARVAL, L. de. 1905.
Monographie des acanthocéphales d'oiseaux.
Rev. Suisse. Zool. 13(1): 195-387.
Illus.
57. MEYER, A. 1932-33.
Acanthocephala. Bronn's Klass. u.
Ordnung Tier-Reichs. (1932).
4(Abt. 2, Buch 2, Lief 1): 1-332.
Illus. (1933). 4(Abt. 2, Buch 2, Lief
2): 333-582. Illus.
58. MILLZNER, R. J. 1924.
A larval acanthocephalid, Centrorhynchus
californicus sp. nov., from the mesentery
of Hyla regilla. Univ. Calif. Publ.
Zool. 26(17): 225-227. Illus.
59. MOGHE, M. A. & E. N. DAS. 1953.
On a new species of Acanthocephala
of the genus Arythmorhynchus (Lilje,
1911), from India. G. S. Thapar
Commem. Vol., Lucknow. pp. 211-
216. Illus.
60. MOLIN, R. 1858.
Prospectus helminthum, etc. Sitzungsbr.
Akad. Wissensch., Wien. Math.
-naturw. Cl. 30(14): 127-158.
61. MOLIN, R. 1859a.
Prospectus helminthum, etc. Sitzungsbr.
Akad. Wissensch., Wien, Math.
-naturw. Cl. 33(26): 287-302.
(1858).
62. MOLIN, R. 1859b.
Cephalocotylea e nematoidea. Sitzungsbr.
Akad. Wissensch., Wien. Math.
-naturw. Cl. 38(23): 7-38. Illus.
63. MOLIN, R. 1861.
Prodromus faunae helminthologicae, etc.
Denkschr. Akad. Wissensch., Wien,
Math. -naturw. Cl. 19(2. Abt.):
189-338. Illus.
64. MÜHLING, P. 1898a.
Die Helminthenfauna der Wirbeltiere
Ostpreussens. Arch. Naturg. 64(1):
1-118. Illus.
65. MÜHLING, P. 1898b.
Studien aus Ostpreussens Helminthenfauna.
Zool. Anz. 21(1): 16-24.
66. MÜLLER, O. 1780.
Zoologiae Danicae seu animalium Daniae
et Norvegiae rariorum ac minus notorum
icones. Fasc. 2. 170 pp. Illus.
Havniae.
67. NEIVA, A., A. da CUNHA & L. TRAVASSOS.
1914. Contribuições parasitológicas.
Mem. Inst. Osw. Cruz. 6(3): 180-
191. Illus.
68. ODLAUG, T. O. 1954.
Parasites of some Ohio Amphibia.
Ohio Jour. Sci. 54(2): 126-128.
69. OLSSON, P. 1893.
Bidrag till skandinavien helminthfauna.
2. K. Svenska Vetensk. -Akad.
Handl., Stokholm. n.f. 25(2), Art.
12. 41 pp. Illus.
70. PALLAS, P. S. 1760.
Dissertatio medica inauguralis de
infestis viventibus intra viventia. 50 pp.
Lugduni Batavorum.

71. PAUL, D. 1934.
Beobachtungen über die Darmparasiten schlesischer Anuren. Ztschr. Parasitenk. 7(2): 172-197.
72. PEARSE, A. S. 1932.
Parasites of Japanese Salamanders. Ecology. 13(2): 135-152.
73. PEARSE, A. S. 1936.
Parasites from Yucatan. Carnegie Inst., Washington. Publ. 457. pp. 45-59. Illus.
74. PERRIER, E. 1897.
Traité de zoologie (2me. partie) Fasc. 4. Vers. (suite) - mollusques - tuniciers. pp. 1345-2140. Illus.
75. PETROCHENKO, V. I. 1953.
[Acanthocephala of amphibia in USSR]. (Russian text). K. I. Skrjabin Anniv. Vol. pp. 507-517. Illus.
76. POLONIO, A. F. 1859.
Prospectus helminthum qui in reptilibus et amphibiiis faunae itaricae continentur. 20 pp. Padova.
77. PORTA, A. 1904.
Nota sugli echinorhynchi dei pesci del Museo Zoologico di Napoli. Ann. Mus. Zool., Univ. Napoli. n.s. I(2): 1-4. Illus.
78. PORTA, A. 1905.
Gli echinorhynchi dei pesci. Arch. Zool., Napoli. 2(2): 149-214. Illus.
79. PORTA, A. 1908.
Gli Acanthocephali degli Anfibia e dei Rettili. Arch. Zool., Napoli. 3(3): 225-259. Illus.
80. PORTA, A. 1911.
Nuova Botricephale (B. andresi) e appunti Elmintologici. Zool. Anz. 38: 373-378. Illus.
81. PUTJATTI, D. 1951a.
Una nuova species del genere Echinopardalis Travassos, 1918, rinvenuta in India. Riv. Parasitol., Roma. 12:119-128. Illus.
82. PUJATTI, D. 1951b.
Probabili Acanthellae di Echinopardalis bangalorensis Pujatti nel Bufo melanostictus Schneider. Riv. Parasitol., Roma. 12: 251-255. Illus.
83. PUJATTI, D. 1953.
Sopra due nematodi della famiglia Camallanidae Railliet & Henry, 1915. Riv. Biol. Colon. 12: 71-75. Illus.
84. RANKIN, J. S. 1937.
New Helminths from North Carolina Salamanders. Jour. Parasitol. 23(1): 29-42. Illus.
85. RANKIN, J. S. 1945.
An ecological survey of the helminth parasites of amphibians and reptiles of western Massachusetts and vicinity. Jour. Parasitol. 31(2): 142-150.
86. RITCHIE, J. 1915.
A contribution to the parasitic fauna of the west of Scotland. Glasgow Naturalist. 7(2): 32-42.
87. RUDOLPHI, C. A. 1802.
Fortsetzung der Beobachtungen über die Eingeweidewürmer. Arch. Zool., Zoot. 2(2): 1-67. Illus.

88. RUDOLPHI, C. A. 1808.
Entozoorum . . . historia naturalis.
Vol. 1. xxvi + 527 + xxvi pp. Illus.
Amstelaedami.
89. RUDOLPHI, C. A. 1819.
Entozoorum synopsis, etc. x + 811
pp. Illus. Berolini.
90. SAINT-LOUP, R. 1895.
Vers. (Histoire naturelle de la France,
16^e. partie). 238 pp. Illus. Paris.
91. SANDGROUND, J. H. 1926.
On an unusual occurrence of
Moniliformis moniliformis (Acanthocephala)
as a parasite of toads and lizards in
Central America. Trans. Amer. Micro.
Soc. 45(4): 289-297. Illus.
92. SCHRANK, F. v. P. 1788.
Verzeichniss der bisher hinlänglich
bekanntesten Eingeweidewürmer, etc.
116 pp. Illus. München.
93. SCHRANK, F. v. P. 1792.
Verzeichniss einiger noch unbeschriebener
Eingeweidewürmer. K. Schwed. Akad.
Wissensch. N. Abhandl. 11: 111-
118. Leipzig
94. SCIACCHITANO, I. 1933.
Nuova contributo alla conoscenza
dell'elmintologia modenese. Atti
Soc. Nat. e. Mat., Modena. 64
(6. s.). 12: 96-100.
95. SHIPLEY, A. E. 1903.
On the ento-parasites collected by the
"Skeat Expedition" to Lower Siam
and the Malay Peninsula in the years
1899-1900. Proc. Zool. Soc.
London. 2(1): 145-156. Illus.
96. SOUTHWELL, T. & J. W. S. MACFIE.
1925. On a collection of Acanthocephala
in the Liverpool School of Tropical
Medicine. Ann. Trop. Med. &
Parasitol. 19(2): 141-184.
97. STILES, C. W. & A. HASSALL. 1894.
A preliminary catalogue of the parasites,
etc. Vet. Mag. 1(4): 245-253; 331-
354.
98. STOSSICH, M. 1890.
Elminti della Croazia. Glasnik. brv.
nar. društva, Zagreb. 5(1/4):
129-136. Illus.
99. STYCZYNSKA, E. 1958.
Acanthocephala of the biocenosis of
Druzno Lake. (English text, Polish
summary). Acta Parasitol.,
Polonica. 6(6): 195-211.
100. SUBRAMANIAN, K. 1927.
Notes on the larval Centrorhynchus
aluconis (Müller, 1780).
Acanthocephala found in Rangoon toads.
Jour. Burma Res. Soc., Rangoon.
16(3): 211-212. Illus.
101. TRAVASSOS, L. 1915.
Revisão dos Acantocephalos brasileiros.
I. Fam. Gigantorhynchidae Hamann,
1892. Brasil. Medico. 29(18): 137.
102. TRAVASSOS, L. 1917.
Contribuições para o conhecimento da
fauna helmintológica brasileira. 6.
Revisão dos acantocefalos brasileiros.
Parte I. Fam. Gigantorhynchidae
Hamann, 1892. Mem. Inst. Osw.
Cruz. 9(1): 5-62. Illus.

103. TRAVASSOS, L. 1919-20.
Acanthocephalos dos animais
domesticos. Rev. Vet. e Zootech.
10(1): 3-23. Illus.
104. TRAVASSOS, L. 1921.
Contribuição para o conhecimento dos
acantocefalos da sub-familia
Centrorhynchinae. (Read 12-8-'19).
Folha Med. 2(6): 42-43.
105. TRAVASSOS, L. 1923a.
Gigantorhynchidios novos. Folha
Med. 4(2): 12.
106. TRAVASSOS, L. 1923b.
Informações sobre a fauna helminthologica
de Matto Grosso (II nota). Folha Med.
4(2): 12-13.
107. TRAVASSOS, L. 1926.
Contribuições para o conhecimento da
fauna helminthologica brasileira. XX.
Revisão dos Acanthocephalos brasileiros.
Parte II. Familia Echinorhynchidae
Hamann, 1892, sub-fam.
Centrorhynchinae Travassos, 1919.
Mem. Inst. Osw. Cruz. 19(1):
31-125. Illus.
108. TROWBRIDGE, A. H. & H. M. HEFLEY.
1934. Preliminary studies on the
parasite fauna of Oklahoma anurans.
Proc. Okla. Acad. Sci. (1933).
14: 16-19.
109. VAN CLEAVE, H. J. 1915.
Acanthocephala in North American
Amphibia. Jour. Parasitol. 1(4):
175-178. Illus.
110. VAN CLEAVE, H. J. 1919.
Acanthocephala from the Illinois
River, with descriptions of species
and a synopsis of the family
Neoechinorhynchidae. Bull. Ill.
Nat. Hist. Serv. 13(8): iii-iv +
225-257. Illus.
111. VAN CLEAVE, H. J. 1924.
A critical study of the Acanthocephala
described and identified by Joseph
Leidy. Proc. Acad. Nat. Sci.,
Philadelphia. 76: 279-334. Illus.
112. VAN CLEAVE, H. J. 1925.
Acanthocephala from Japan.
Parasitol. 17(2): 149-156. Illus.
113. VAN CLEAVE, H. J. 1931.
Acanthocephala in North American
Amphibia. II. A new species of the
genus Acanthocephalus. Trans.
Amer. Micro. Soc. 50(1): 46-47.
Illus.
114. VAN CLEAVE, H. J. 1937.
Acanthocephala from China. II. Two
new species of the genus
Acanthocephalus from Amphibia.
Parasitol. 29(3): 395-398. Illus.
115. VAN CLEAVE, H. J. 1940.
The Acanthocephala collected by the
Allen Hancock Pacific Expedition,
1934. Allen Hancock Expedition
Publ. 2(15): 501-527. Illus.

116. VAN CLEAVE, H. J. 1945.
The status of the Acanthocephalan
genus Arhythmorhynchus, with
particular reference to the validity of
A. brevis. Trans. Amer. Micro. Soc.
64(2): 133-137. Illus.
117. VIBORG, E. N. 1795.
[Sammlung von Abhandlungen für
Thierärzte und Oekonomen] (Danish
text). 1. Bändchen. 324 + 2 pp.
Copenhagen.
118. WALTON, A. C. 1942.
The Acanthocephala as parasites of
Amphibia. Miineotype. 16 pp.
Contrib. # 79. Knox College,
Galesburg, Illinois.
119. WALTON, A. C. 1950.
Parasites of the Ranidae. XXI.
Anat. Rec. 108(3): 625.
120. WALTON, A. C. 1961.
The Amphibia as hosts of cestodes
and acanthocephala. Amer. Zool.
1(4): 475.
121. WARREN, E. 1923.
New Formations in the duodenal
mesentery and stomach-wall of Bufo
reguiaris Reuss. S. Afr. Jour.
Sci., Johannesburg. 20(2): 396-
405. Illus.
122. WESTRUMB, A. N. L. 1821.
De helminthibus acanthocephalis, etc.
85 pp. Illus. Hanoverae.
123. WITENBERG, G. 1932.
Akanthocephalen-Studien. II.
Ueber das System der Akanthocephalen.
Boll. Zool., Napoli. 3(5): 253-266.
Illus.
124. YAMAGUTI, S. 1935.
Studies on the Helminth Fauna of Japan,
Pt. 2. Acanthocephala. I. Japan.
Jour. Zool. 6(2): 247-278. Illus.
125. YAMAGUTI, S. 1939.
Studies on the Helminth Fauna of
Japan. Pt. 29. Acanthocephala. II.
Japan. Jour. Zool. 13(3): 317-351.
Illus.
126. YAMAGUTI, S. 1954.
Parasitic Worms from Celebes.
8. Acanthocephala. Acta Med.
Okayama. 8(4): 406-413. Illus.
127. YAMAGUTI, S. & Y. MITUNAGA.
1943. Intestinal helminths from
Bufo melanostictus of Formosa.
Trans. Nat. Hist. Soc. Formosa.
33(236): 142-154. Illus.
128. ZEDER, J. G. H. 1803.
Anleitung zur Naturgeschichte der
Eingeweidewürmer. xvi + 432 pp.
Illus. Bamberg.

NUMBER 40, continued

THE PARASITES OF AMPHIBIA

by

A. C. Walton
Knox College, Galesburg, Illinois

ANNELIDS: List of Parasites

Part I. Hirudinea.

BATRACHOBDELLA ALGIRA (Moquin-Tandon, 1846) Johansson, 1926 = Glossiphonia algira Moquin-Tandon, 1846; = Clepsine algira of Diesing, 1850; = C. alirica of Dies., 1850; = Batrachobdella latastii Viguier, 1879; = Helobdella algira of R. Blanchard, 1896; = Glossosiphonia algira of Wolterstorff, 1900; = Placobdella (Batrachobdella) algira of Johansson, 1926). From Discoglossus pictus, Hydromantes genei genei, Rana esculenta -- Africa; Sardinia; Europe.

BATRACHOBDELLA PALUDICOLA (Carena, 1824) Johansson, 1929 (= Hirudo paludosa Carena, 1824; = Clepsine paludosa of Moquin-Tandon, 1827; = Glossobdella paludosa of Blainville, 1828; = Clepsine succinea Fillippi, 1837; = Glossiphonia paludosa of Moquin-Tandon, 1846; = G. succubea (sic) of Moquin-Tandon, 1846; = Glossosiphonia paludosa of R. Blanchard, 1894; = Glossiphonia smaragdina Oka,

1910; = Clepsinides paludosa of Augener, 1926; = Hemiclepsis geei Oka, 1926; = H. smaragdina of Oka, 1926). From Pelobates fuscus -- Europe.

BATRACHOBDELLA PICTA (Verrill, 1874) Moore, 1912 (= Hemiclepsis picta Verrill, 1874). From Rana catesbiana -- U.S.A. (in lymph spaces. see: Richardson, 1949).

BATRACHOBDELLA SINGULARIS (Oka, 1931) Autrum, 1936 (= Hemiclepsis singularis Oka, 1931). From "Frogs" -- China.

ERPOBDELLA sp? of Lehmann, 1958. From Taricha granulosa -- U.S.A.

GLOSSIPHONIA SWAMPINA (Bosc, 1802) Moquin-Tandon, 1846 (= Hirudo swampina Bosc, 1802; = Sanguisuga swampina of Moquin-Tandon, 1827; = Hirudo (Erpobdella) swampina of Moquin-Tandon, 1827; = Glossobdella swampina of Blainville, 1828;

= Clepsine swampina of Diesing, 1850).
From Rana spp. -- Europe.

GLOSSIPHONIA sp? of Budde-Lund, 1874.
From Rana tigrina -- India.

HAEMENTARIA (Parobdella) CEYLANICA
(Harding, 1909) Autrum, 1936.
(= Clepsine (Glossiphonia) ceylanica ..
Harding, 1909; = Glossiphonia ceylanica
of Kaburaki, 1921; = Placobdella
ceylanica of Moore, 1924). From
Rana cyanophlyctis -- Ceylon.

HAEMENTERIA COSTATA (F. Müller, 1844)
Autrum, 1932 (= Clepsine costata F.
Müller, 1844). From Pelobates
fuscus, Rana esculenta -- Europe.

HAEMENTERIA (Placobdella) MONTIFERA
(Moore, 1906) Autrum, 1936 (= Clepsine
papillifera carinata Diesing, of
Verrill, 1874; = Placobdella carinata
of Verrill, 1874; = Hemiclepsis
carinata of Moore, 1901; = Placobdella
montifera Moore, 1906). From
tadpoles and adults of "Frogs" and
"Toads" -- U. S. A.

HAEMENTERIA (Placobdella) OKADAI
(Oka, 1925) Autrum, 1936 (= Hemiclepsis
okadai Oka, 1925). From Rana
holsti, R. namieyi -- Japan.

HEMICLEPSIS MARGINATA (O. F. Müller,
1774) R. Blanchard, 1894 (= Hirudo
marginata Muller, 1774; = H. variegata
Braun, 1805; = H. cephalata Carena,
1821; = Haemocharis cephalata Carena,
1821; = Hirudo oscillatoria Saint-Amans,
1825; = Piscicola tassellata Moquin-
Tandon, 1827; = P. marginata of
Moquin-Tandon, 1827; = Glossobdella
cephalata of Blainville, 1827;

= Ichthyobdella marginata of
Blainville, 1828; = Haemocharis
marginata of Fillippi, 1837; =
Clepsine marginata of F. Müller,
1844; = Glossiphonia marginata of
Moquin-Tandon, 1846; =
Haemocharis flava Dalyell, 1853; =
Glossiphonia flava of Johnston,
1865; = Clepsine viridissima
Picaglia, 1877). From larval
amphibians, especially Pelobates
and Rana spp -- Europe.

HEMICLEPSIS VIRIDIS Chelladurai,
1934. From Rana hexadactyla, R.
tigrina -- India.

HYGROBDELLA PELAEZI Caballero,
1940 (? = Diestecostoma mexicana
Baird -- see: Moore, 1946). From
Rhyacosiredon altimirani, Oedipus
spp? -- Mexico.

"Leech" of Loveridge, 1932.
From Bufo regularis -- Africa.

LIMNATIS NILOTICA (Savigny, 1820)
Moquin-Tandon, 1827 (= Bdella
nilotica Savigny, 1820; = Aulastomum
gula Moquin-Tandon, 1827; =
Haemopsis vorax Moquin-Tandon, 1827;
= H. sanguisuga of Moquin-Tandon,
1846). From Rana esculenta
ridibunda -- Africa. (see: Leigh-
Sharpe, 1933).

MACROBDELLA DECORA (Say, 1824)
Verrill, 1874 (= Hirudo decora Say,
1824). From "Frogs" -- U. S. A.

MACROBDELLA DITETRA Moore, 1901
(? = the M. ditetra of Moore, 1953).
From Rana catesbiana -- U. S. A.

MARSUPIOBDELLA AFRICANA Goddard & Malan, in Moore, 1958. From Rana umbriculata -- South Africa.

Gen et sp. inquirendi of Lutz, 1928 (probably Schmardaella lutzi). From urinogenital systems of Hyla appendiculata, H. goughi -- Venezuela.

OLIGOBDELLA BIANNULATA (Moore, 1900) Moore, 1920 (= Microbdella biannulata Moore, 1900). From Desmognathus sp? -- U.S.A. (see: Moore, 1900).

OLIGOBDELLA ORIENTALIS Oka, 1925. From Polypedates buergeri, Rana temporaria ornativentris -- Japan.

OLIGOBDELLA TAGOI Oka, 1925. From Rana temporaria ornativentris -- Japan.

PROTOCLEPSIS OCCIDENTALIS (Verrill, 1874) Moore, 1912 (= Hemiclepsis occidentalis Verrill, 1874). From "Frogs" -- Europe.

Part 2. Oligochaeta.

NAIS BAUCHIENSIS Stephenson, 1930. From Phrynomerus microps -- Africa (Nigeria).

SCHMARDAELLA HYLAE Goodchild, 1951 (probably juveniles of Dero sp?). From ureters of Hyla squirella -- U.S.A.

SCHMARDAELLA LUTZi Michaelson, 1909 (probably juveniles of Dero sp? see: Stephenson, 1930). From urinogenital systems of Hyla albomarginata, H. bilineata, H. faber, H. misera, H. rubra, H. venulosa -- Brazil & Venezuela; Hyla septentrionalis -- Cuba. (see: Lutz, 1927; Michaelson, 1926).