

A Checklist of the Aquatic Coleoptera of Indiana

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The only readily available listing of the aquatic Coleoptera of Indiana is that of Blatchley in his *Coleoptera of Indiana* (1910). A number of species and genera have been added and changes in nomenclature have occurred. The late Charles E. White initiated the present list some years ago, but it has remained unpublished. The families of Coleoptera considered to be truly aquatic are as follows: Gyrinidae, Dytiscidae, Haliplidae, Noteridae, Helophoridae, Hydrochidae, Hydraenidae, Hydrophilidae (except for subfamily Sphaeridinae), Psephenidae, Dryopidae, and Elmidae. However, others such as the Heteroceridae, Limnichidae, and some groups of Chrysomelidae and Curculionidae are associated with aquatic situations. The Helodidae and Ptilodactylidae have aquatic larvae, but have not been included.

It is now going on 75 years since W.S. Blatchley's "An Illustrated Descriptive Catalogue of the Coleoptera or Beetles (Exclusive of the Rhynchophora) Known to Occur in Indiana; With Bibliography and Descriptions of New Species" appeared as Bulletin No. 1 of the Indiana Department of Geology and Natural Resources in 1910. This 1,386-page book with 590 figures and one map is still one of the two comprehensive works on the Coleoptera, or beetles covering North America, the other being the five volume series of M.H. Hatch, the *Beetles of the Pacific Northwest*.

In the aquatic families, Blatchley in 1910 listed the following: Haliplidae, 2 genera, 11 species; Dytiscidae (including Noteridae) 25 genera, 96 species; Gyrinidae, 3 genera, 14 species; Hydrophilidae (including Helophoridae, Hydrochidae, and Hydraenidae), 26 genera, 69 species; Parnidae (including Psephenidae, Dryopidae-Parnidae, and Elmidae), 7 genera, 12 species. Some of the genera and species were presumptive and not represented by actual Indiana specimens. The following list enlarges Blatchley's list and attempts to bring the nomenclature up to date.

The voucher material for the following list is largely in the Purdue University Laboratory of Insect Diversity collection or in the collections of the authors. The collection of the late Charles E. White is in the Florida State Collection of Arthropods in Gainesville, Florida.

HALIPLIDAE

- Haliplus borealis* LeC.
- Haliplus cribrarius* LeC.
- Haliplus fasciatus* Aubé
- Haliplus immaculicollis* Harris
(= *ruficollis*/Blatchley)
- Haliplus longulus* LeC.
- Haliplus ohioensis* Wallis
(probably = *lewisii*/Blatchley)
- Haliplus subguttatus* LeC.
- Haliplus pantherinus* Aubé

DYTISCIDAE

- Laccophilus maculosus maculosus* Say

Laccophilus proximum proximum Say
Laccophilus undatus Aubé
Laccophilus fasciatus rufus (Melsh.)

Hydrovatus pustulatus pustulatus (Melsh.)
Hydrovatus indianensis Blatchley

Demopachria convexa (Aubé)

Uvarus granarius (Aubé)
Uvarus lacustris (Say)
Uvarus suburbanus (Fall)
Liodessus affinis affinis (Say)
Liodessus fuscatus (Crotch)
Liodessus flaviocollis (LeC.)

Bidessonotus inconspicuus (LeC.)
(= *Bidessus pulicarius*/Blatchley)

Celina bubbelli Young
Celina imitatrix Young

Peltodytes 12-punctatus (Say)
Peltodytes edentulus (LeC.)
Peltodytes lengi Roberts
Peltodytes muticus (LeC.)
Peltodytes sexmaculatus Roberts
Peltodytes litoralis Matheson
Peltodytes pedunculatus (Blatchley)
Peltodytes dunavani Young

Celina bubbelli Young
(= *angustus*/Blatchley)
Celina imitatrix Young

Hygrotus sayi J. B-Browne
(= *punctatus*//Say)
Hygrotus turbidus (LeC.)
Hygrotus dispar (LeC.)
Hygrotus impressopunctatus Schall.
Hygrotus acaroides (LeC.)
Hygrotus laccophilinus (LeC.)
Hygrotus dissimilis (Harris)
Hygrotus nubilus (LeC.)
Deronectus rotandatus (LeC.)
(= *depressus* Fabr. of authors)
Deronectes griseostriatus (DeG.)

Falloporus triangularis (Fall) (Monroe Co.)

Hydroporus (*Heterosternuta*)
Hydroporus laetus Leech

Hydroporus ohionis Fall
Hydroporus pulcher LeC.
Hydroporus wickhami Zaitzev
 (= *concinus*/Zaitzev Lec.)
Hydroporus (*Neoporus*)
Hydroporus spurius LeC.
Hydroporus venustus LeC.
Hydroporus undulatus Say
Hydroporus consimilis LeC.
Hydroporus mixtus LeC.
Hydroporus dimidiatus G. & H.
Hydroporus mellitus LeC.
Hydroporus vittatipennis G. & H.
Hydroporus striatopunctatus Melsh.
Hydroporus shermani Fall
Hydroporus sericeus LeC.
Hydroporus hybridus Aubé
Hydroporus clypealis Sharp
Hydroporus semiflavus Fall (Monroe Co.)
Hydroporus solitarius Sharp
Hydroporus vitiosus LeC.
Hydroporus blanchardi Sherman
Hydroporus psammodytes Young
Hydroporus aequus Fall
Hydroporus filiulus Fall
Hydroporus pagus Fall
Hydroporus oblitus Aubé (sensu H.C. Fall)
Hydroporus despectus Fall (Monroe Co.)
Hydroporus pseudovilis Young
 (= *Hydroporus vilis*/Blatchley)
Hydroporus (*Hydroporus* s. str.)
Hydroporus dichrous Melsh.
Hydroporus brevicornis Fall
Hydroporus americanus Aubé
Hydroporus melsheimeri Fall
Hydroporus dentellus Fall
Hydroporus notabilis LeC.
Hydroporus rufilabris Sharp
Hydroporus tenebrosus LeC.
Hydroporus tristis Payk.
Hydroporus signatus youngi Gordon
Hydroporus niger Say
Hydroporus despectus rusticus Sharp
Hydroporus striola Gyll.

Laccornis

(= *Agaporus*)

Laccornis conodeus LeC.

Laccornis difformis LeC.

Laccornis deltoids Fall

Agabus (*Gaurodytes*)

- Agabus seriatus seriatus* (Say)
Agabus semivittatus (LeC.)
Agabus aeruginosus Aube
Agabus falli Guignot
 (= *sharpi* Fall)
Agabus disintegratus (Crotch)
 (= *taeniolatus*//Blatchley)
Agabus scapularis Mann.
 (= *anthracinus* Mann.)
Agabus gagetes Aube
Agabus stagninus (Say)
Agabus punctatus Melsh.
Agabus punctulatus Aube
 (= *aeneolus* Crotch)
Agabus semipunctatus (Kirby)
Agabus congener Thunb.
Agabus ambiguus (Say)
 (= *reticulatus* Aube)
Agabus phaeopterus (Kirby)
Agabus erichsoni G. & H.
Agabus obtusatus (Say)
Agabus confusus (Blatchley) (S. Indiana)
 (= *Rhantus confusus* Blatchley)
Agabus leptapsis (LeC.)
Agabus erythropterus (Say)
Agabus (Eriglenus)
Agabus bifarius (Kirby)
- Ilybius biguttulus* (Germ.)
Ilybius ignarus LeC.
Ilybius fraterculus LeC.
Ilybius oblitus Sharp
Ilybius angustior (Gyll.)
Ilybius confusus Aubé?
- Agabetes acunductus* (Harris)
- Matus bicarinatus* (Say)
Matus ovatus ovatus Leech
- Copelatus glyphicus* (Say)
Copelatus chevrolati renovatus Guignot
- Coptotomus* (Fabr.)
Coptotomus longulus LeC.
Coptotomus liticus Hilsenhoff
Coptotomus lenticus Hilsenhoff
- Neoscutopterus angustus* (LeC.).
- Rhantus sinuatus* LeC.
Rhantus tostus LeC.

Rhantus zimmermanni Wallis
(= *bistriatus*//Blatchley)

Colymbetes sculptilis (Harris)

Dytiscus fasciventris Say
Dytiscus verticalis Say
Dytiscus hyridus Aubé
Dytiscus harrisii Kirby

Hydaticus modestus Sharp
(= *stagnalis*//Blatchley)
Hydaticus piceus LeC.

Acilius semisulcatus Aubé
Acilius mediatus (Say)
Acilius fraternus (Harris)
Acilius sylvanus Hilsenhof

Thermonectus nigricollis ornaticollis (Aubé)
Thermonectus basillaris basillaris (Harris)

Graphoderes liberus (Say)
Graphoderes fasciatocollis (Harris)
Graphoderes modestus Sharp

Cybister fimbriolatus fimbriolatus (Say)

NOTERIDAE

Suphisellus puncticollis Crotch
Suphisellus bicolor bicolor (Say)
Suphisellus bicolor punctipennis (Sharp)
Hydrocanthus atricolor (Say)
(= *texanus* Sharp)

GYRINIDAE

Dineutus ciliatus (Forsb.) (Owen Co.)
(= *vittatus*//Blatchley)
Dineutus nigrior Roberts
Dineutus discolor Aubé
Dineutus emarginatus Say
Dineutus horni Roberts
Dineutus assimilis Kirby
(= *americana* Say)

Gyrinus minutus (Fabr.)
Gyrinus ventralis Kirby
Gyrinus aeneolus LeC.
Gyrinus affinis Aubé
Gyrinus analis Say
Gyrinus lugens LeC.

Gyrinus plicifer LeC.
 Gyrinus fraternus Coup.
 Gyrinus aquiris Lec.
 Gyrinus dichrous LeC.
 Gyrinus piceolus Blatchley
 Gyrinus borealis Aubé
 Gyrinus pectoralis LeC.

Gyretes compressus LeC. (Owen & Greene Co.)

HELOPHORIDAE

Helophorus oblongus LeC.
 Helophorus nitidulus LeC.
 Helophorus linearis LeC.
 Helophorus lacustris LeC.
 Helophorus lineatus Say
 Helophorus tuberculatus Gyll.
 Helophorus ventralis Mots.
 (= obsoletesulcatus Mots.)

HYDROCHIDAE

Hydrochus scabratus (Mulsant)
 Hydrochus inaequalis Lec.
 Hydrochus subcupreus Randall
 Hydrochus rufipes Melsh.
 Hydrochus setosus Leech
 Hydrochus ouelleti Leech
 Hydrochus squamifer LeC.
 Hydrochus excavatus LeC.
 Hydrochus granulatus Blatchley
 Hydrochus currani Brown
 Hydrochus brevitarsis Knisch
 Hydrochus undulatus Hellman
 Hydrochus neosquamifer Hellman

LIMNEBIIDAE

(= HYDRAENIDAE)

Ochthebius foveicollis LeC.
 Ochthebius putamensis Blatchley
 Ochthebius cribricollis LeC.

Gymnocthebius nitidus (LeC.)

Hydraena pennsylvanica Kies.
 Hydraena punctata LeC.
 Hydraena angulicollis Notm.
 Hydraena quadricurvipes Perkins (Brown Co.)
 Hydraena ancylis Perkins (Monroe Co.)

Limnebius discolor (Casey) (Monroe Co.)

*HYDROPHILIDAE**Hydrophilus triangularis* Say*Dibolocelus ovatus* (G. & H.)*Tropisternus lateralis nimbatus* (Say)*Tropisternus glaber* (Herbst)*Tropisternus blatchleyi modestus* D'Orch.*Tropisternus collaris striolatus* (LeC.)*Tropisternus mixtus* (LeC.)*Tropisternus natator* D'Orch.*Tropisternus sublaevis* LeC.?*Hydrochara obtusata* (Say) (n. Indiana)*Hydrochara soror* Smetana*Hydrochara spangleri* Smetana (Monroe Co.)*Hydrochara leechi* Smetana*Chaetarthria pallida* (LeC.)*Chaetarthria atra* (LeC.) (Monroe)*Berosus pugnax* LeC.*Berosus pantherinus* LeC.*Berosus aculeatus* LeC.*Berosus infuscatus* LeC. (Posey, Monroe, Crawford Cos.)*Berosus ordinatus* LeC.(= *pennsylvanica* Knisch)*Berosus exiguus* Say (Monroe Co.)*Berosus peregrinus* Herbst.*Berosus fraternus* LeC. (Posey, Monroe, Crawford Cos.)*Berosus striatus* (Say)*Derallus altus* LeC. (Posey Co.)*Laccobius agilis* Rand.*Laccobius punctatus* Melsh.*Hydrobius fuscipes* (Linn.)*Hydrobius globosus* (Say)*Hydrobius tumidus* LeC.*Hydrobius melaneum* Ger.*Scherchopsis tessellatus* (Ziegler) (Tippecanoe, Porter Cos.)(= *Hydrobius tessellatus*//Blatchley)*Paracymus* (*Creniphilus*)*Paracymus despectus* (LeC.)*Paracymus subcupreus* (Say)*Paracymus confusus* Wooldridge (Posey Co.)*Paracymus digestus* (LeC.)*Crenitulus* (*Creniphilus*)

Crenitulus suturalis (LeC.) (Monroe Co.)
 (= *Creniphilus suturalis*//Blatchley)

Ancaena limbata (Fabr.)
 (= *infuscatus*//Blatchley)

Crenitis longulus (Fall) (Monroe Co.)

Enochrus
 (= *Philhydrus*//Blatchley)
Enochrus pygmaeus nebulosus (Say)
Enochrus diffusus (LeC.) (Crawford Co.)
Enochrus ochraceus (Melsh.)
Enochrus consortus Green (Posey Co.)
Enochrus horni (Leech)
 (= *hamiltoni*//Blatchley)
Enochrus cinctus (Say)
Enochrus perplexus (LeC.)

Helochares maculicollis Mulsant

Helocombus bifidus (LeC.)

Cymbiodyta lasustris LeC.
Cymbiodyta vindicata Fall
Cymbiodyta blanchardi Horn
Cymbiodyta chamberlaini Smetana
Cymbiodyta semistriatus (Zimm.)
 (= *fimbriata* Melsh.)

Sphaeridium scarabaoides (Linn.)
Sphaeridium bipustulatum (Fabr.)
Sphaeridium lunutatum (Fabr.)

Phaenonotus exstriatum (Say)
 (= *estriatum*//Blatchley)

Genyon navicularis (Zimm.)

Cercyon analis (Payk.)
Cercyon pubescens LeC.
Cercyon pygmaeus (Illiger)
Cercyon nigriceps (Marsh.)
Cercyon quisquilius (Linn.)
Cercyon maculatus (Melsh.)
Cercyon convexiusculus Steph.
 (= *lugubris*//Blatchley)
Cercyon tristis (Illiger)
Cercyon haemorrhoidalis (Fabr.)
Cercyon terminatus (Marsh.)
 (= *melanocephala*//Blatchley)
Cercyon unipunctatus (Linn.)

Cercyon praetextatus (Say)
Cercyon indistinctus Horn
Cercyon navicularis Zimm.
Cercyon atricapillus (Marsh.)
Cercyon minusculus Melsh.
Cercyon roseni Knish
Cercyon pygmaeus (Ill.)
Cercyon connivens Fall
Cercyon herceus Smetana
Cercyon erraticus Smetana
Cercyon mendax Smetana
Cercyon assecla Smetana
Cercyon occallatus (Say)
Cercyon lateralis (Marsh.)

Cryptopleurum minutum (Fabr.)
Cryptopleurum subtile Sharp
Cryptopleurum americanum Horn?

Pemelus costatus (LeC.)?

DRYOPIDAE

Helichus basalis LeC. (Parke County)
Helichus fastigiatus (Say)
Helichus lithophilus (Germ.)
Helichus striatus LeC. (Parke and Tippecanoe Co.)

ELMIDAE

Stenelmis crenata (Say)
Stenelmis decorata Sanderson
Stenelmis maerkelii Motsch.
 (= *sulcatus* Blatchley)
Stenelmis musgravei Sanderson
Stenelmis quadrimaculatus Horn
Stenelmis sandersoni Musgrave
Stenelmis sexlineata Sanderson
Stenelmis vittipennis Zimmerman

Macronychus glabrata Say

HETEROCERIDAE

Centuriatus
 (= *Heterocerus* // Blatchley)
Centuriatus auromicans (Kies.)

Lanternarius
 (= *Heterocerus* Blatchley)
Lanternarius brunneus (Melsh.)
Lanternarius mollinus (Kies.)
Lanternarius parrotus Pacheo

Neoheterocerus
 (= Heterocerus//Blatchley)
 Neoheterocerus angustatus (Chev.)
 Neoheterocerus pallidus (Say)
 (= ventralis Melsh.)
 Neoheterocerus sandersoni Pacheco

Dampfius
 (= Heterocerus//Blatchley)
 Dampfius collaris (Kies).
 Dampfius undatus (Melsh.)

Tropicus
 (= Heterocerus//Blatchley)
 Tropicus pusillus (Say)

LIMNICHIDAE (= Byrrihidae//Blatchley, ex parte)

Limnichus obscurus (LeC.)
 Limnichus ovatus (LeC.)
 Limnichus nitidulus (LeC.)
 Limnichus punctatus (LeC.)

Latrochus laticeps Csy.

CHRYSOMELIDAE

Macrolea nigricornis (Kby.)

Donacia aequalis Say
 Donacia biimprensa Melsh
 Donacia cincticornis Newm.
 Donacia distincta LeC.
 Donacia fulgens Lec.
 Donacia hirticollis Kby.
 Donacia hypoleuca Lac.
 Donacia megacornis Blatch.
 Donacia palmata Oliv.
 Donacia parvidens Schffr.
 Donacia piscatrix Lac.
 Donacia porosicollis Lac.
 Donacia proxima Kby.
 Donacia pubescens LeC.
 Donacia pubicollis Suffr.
 Donacia quadricollis Say
 (= curticollis Knab)
 Donacia rufescens Lac.
 Donacia rugosa LeC.
 Donacia subtilis Kunze
 Donacia tuberculifrons Schffr.

Plateumaris
 (= Donacia//Blatchley)

Plateumaris diversa (Schffr.)
Plateumaris emarginata (Kby.)
Plateumaris falvipes (Kby.)
Plateumaris metallica (Ahr.)
Plateumaris sulciocollis (Lac.)

Sominella
 (= *Donacia*//Blatchley)
Sominella harrisi (LeC.)

CURCULIONIDAE (in part, aquatic weevils)
Tanysphyrus lemnae (Fab.)

Bagous americanus LeC.
Bagous atratus Blatch.
Bagous bituberosa LeC.
Bagous lengi Tanner
Bagous magister LeC.
Bagous nebulosus LeC.
Bagous obliquus LeC.
Bagous planatus LeC.
Bagous pusillus LeC.
Bagous restrictus LeC.
Bagous tanneri O'Brien
Bagous transversus LeC.

Lissorhoptrus oryzophilus Kusch.
Lissorhoptrus simplex (Say)

Brachybamus electus Germ.

Notiodes (Endalus//Blatchley)
Notiodes limatulus (Gyll.)
Notiodes ovalis (LeC.)

Onychylis nigrirostris (Boh.)

Stenopelmus rufinasus Gyll.

Lixellus lutulentus (Boh.)
 (= *ASnchodemus angustus*//Blatchley)

Listronotus (In part = *Hyperodes* of Blatchley)
Listronotus appendiculatus (Boh.)
Listronotus callosus LeC.
Listronotus caudatus (Say)
Listronotus debilis (Blatch.)
Listronotus delumbis (Gyll.)
Listronotus dietzi O'Brien
Listronotus dorsalis (Dietz)
Listronotus echinatus (Dietz)

Listronotus frontalis LeC.
 Listronotus grypidoides (Dietz)
 Listronotus humilis (Gyll.)
 Listronotus maculicollis (Kby.)
 Listronotus montanus (Dietz)
 Listronotus nebulosus LeC.
 Listronotus porcellus (Say)
 Listronotus poseyensis (Blatch.)
 Listronotus sordidus (Gyll.)
 Listronotus sparsus (Say)
 Listronotus squamiger (Say)
 Listronotus tuberosus LeC.

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since Blatchley (1910) useful in classification**

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