

**Results of the Lund University Ceylon Expedition 1962,
Hydrophilidae, with an updated Sri Lanka check list.
(Coleoptera: *Hydrophilidae*)**

by Franz HEBAUER

ABSTRACT

An evaluation of the *Hydrophilidae* output of the Lund University Ceylon Expedition 1962 results 55 identified species of *Hydrophilidae* and enabled the description of 17 new species (partly published in separate papers), as well as the opportunity to give an updated check list of all *Hydrophilidae* species known from Sri Lanka up to now.

KEY WORDS

Insecta, Coleoptera, *Hydrophilidae*, Sri Lanka, new species, check list.

INTRODUCTION

Sri Lanka (Ceylon) was already an early target of expeditions for water beetles. It shows a striking rich spectrum of *Dytiscidae*, *Gyrinidae*, *Hydrophilidae*, *Elmidae* etc., partly colonized from the Indian subcontinent, partly even influenced from the Afrotropical region, partly also endemic.

Some papers have been published on the water beetle fauna of "Ceylon", every time with descriptions of new species. SHARP (1890) lists 30 *Dytiscidae* spp. (7 of them new) and 31 *Hydrophiloidea* spp. (17 of them new). MOTSCHULSKY (1861, 1863) described 2 new *Enochrus*, 4 new *Cercyon*, the genus *Pachysternum* with 1 new species and 1 new *Cryptopleurum*. MENDIS & FERNANDO (1962) in their "Guide to the freshwater fauna of Ceylon" indicate 43 *Dytiscidae* spp., 4 *Noteridae* spp., 2 *Haliplidae* spp., 17 *Gyrinidae* spp. and 61 *Hydrophiloidea* spp. Jäch (1984) focused his interest to the water beetle families *Psephenidae* (with discussion of 39 species) and *Dryopoidea* (41 *Elmidae* spp., 2 *Dryopidae* spp.). Some further recent papers on the Oriental water beetle fauna (BAMEUL 1991, 1992, GENTILI 1979, HEBAUER 1998, a few papers in press, SCHÖDL 1992, 1993, SCHÖNMANN 1994, 1995 etc.) include descriptions of new Ceylonese species of *Hydrophilidae*.

In 1962 the Lund University started a zoological expedition to Sri Lanka [LUCÉ] (under BRINCK, ANDERSSON, CEDERHOLM) collecting numerous *Hydrophilidae* there. I got the chance to examine the whole output (thanking here especially DR. ROY DANIELSSON) and to give an updated check list of all *Hydrophilidae* species known from Sri Lanka up to now. For nomenclatorial changes since the original descriptions see HANSEN 1999!

LOCALITIES

- 4 W. Prov., Yongammulla, 3 mls W Yakkala, 18 mls NE Colombo, 9.1.1962.
- 7 W. Prov., Stream, 10 mls NNE Colombo, 11.1.1962.
- 8 W. Prov., Lagoon, 17 mls N Colombo, 11.1.1962.
- 10 W. Prov., Yakkala, 18 mls NE Colombo, 14.-31.1.1962
- 11 W. Prov., Yakkala, 18 mls NE Colombo, 18.-28.2.1962.
- 12 W. Prov., Yakkala, 18 mls NE Colombo, 16.1.1962.
- 14:IV W. Prov., Alawala, 26 mls NE Colombo, 17.1.1962.
- 16:I W. Prov., Yakkala, 18 mls NE Colombo, 20.1.1962.
- 16:II W. Prov., Yakkala, 18 mls NE Colombo, 20.1.1962.
- 17:I W. Prov., Stream Labugama, 24 mls ESE Colombo, 21.1.1962.
- 21 S. Prov., Kosgoda, 44 mls SSE Colombo, 25.1.1962.
- 23 S. Prov., Polhunnawa, 5,5 mls ESE Ambalangoda, 26.1.1962.
- 24 S. Prov., Gilcrot, 7,5 mls SE Ambalangoda, 26.1.1962.
- 26 S. Prov., Hemmeliya, 2 mls E Baddegama, 10 mls N Galle, 27.1.1962.
- 27:II S. Prov., Udugama, 15 mls NNE Galle, 27.1.1962.
- 37 NW. Prov., Madampe, 20 mls N Negombo, 31.1.1962.
- 40 NW. Prov., Mundal, Mundal Lake, 16 mls N Chilaw, 1.2.1962.
- 41 NW. Prov., Sait Pan, 3 mls N Puttalam, 1.2.1962.
- 42 NW. Prov., 5 mls NNE Puttalam, 1.2.1962, light.
- 44 NW. Prov., Puttalam, 1.2.1962.
- 45 NW. Prov., Swamps, 10 mls E Puttalam, 2.2.1962.
- 48 N. Centr. Prov., Wilpattu N. P. Maradan, Maduwa, 23 mls W Anuradhapura, 2.2.1962.
- 50 N.Centr. Prov., Stream at Maha Balankulama, 7 mls SW Anuradhapura, 4.5.1962.
- 65 N. Centr. Prov., Kahatagasdigiliya, 20 mls ENE Anuradhapura, 10.2.1962.
- 66 N. Centr. Prov., Polonnaruwa, 10.2.1962.
- 70 N. Prov., Kudattana, 6 mls SE Point Pedro, 13.2.1962.
- 72 N. Prov., Chempiyanpattu, 18 mls SE Point Pedro, 13.2.1962.
- 76 N. Prov., Swampy tank, 7 mls E Mankulam, 14.2.1962.
- 77 N. Prov., Per Aru, 9 mls E Mankulam, 14.2.1962.
- 86 N. Prov., Nay Aru at Pallamada, 10 mls E Mannar, 15.2.1962.
- 87 N. Prov., Pali Aru, 20 mls NE Mannar, 15.2.1962.
- 89 W. Prov., Eduragalla, 5,5 mls W Horana, 17 mls WNW Ratnapura, 17.2.1962.
- 90:II:1 Sabaragamuwa Prov., Deerwood, Kuruwita, 6 mls NNW Ratnapura, 18.2.1962.
- 90:II:2 Sabaragamuwa Prov., Deerwood Kuruwita, 6 mls NNW Ratnapura, 18.-21.2.1962.
- 91:I Sabaragamuwa Prov., Bopathella Falls, 9 mls NNW Ratnapura, 19.2.1962.
- 91:II Sabaragamuwa Prov., Bopathella Falls, 9 mls NNW Ratnapura, 19.2.1962.
- 95 Sabaragamuwa Prov., Ratnapura, at light, 22.2.1962.
- 96 Sabaragamuwa Prov., Stream, 2500 ft, 5 mls NNW Balangoda, 22.2.1962.
- 98 Sabaragamuwa Prov., Maratenna, 4500 ft, 7 mls N Balangoda, 22.2.1962.
- 100 Sabaragamuwa Prov., Rakwana, 27.-28.2.1962, light.
- 105 Sabaragamuwa Prov., Allerton, 1 mile SW Rakwana, 28.23.1962, light.
- 109 Sabaragamuwa Prov., Belihul-Oya, 1800 ft, 1.-2.3.1962.
- 110 Sabaragamuwa Prov., Karagal-Oya, 1900 ft, 3 mls ENE Belihul-Oya, 2.3.1962.
- 111 Prov. of Uva, Stream, 3600 ft, 2 mls NW Haldummulla, 2.3.1962.
- 112 Prov. of Uva, Beauvais, 5 mls WNW Haputale, 4500 ft, 3.3.1962.
- 115 Centr. Prov., Kandapola, 5 mls ENE Nuwara-Eliya, 4.3.1962.
- 119:III Prov. of Uva, Westminster Abbey, 25 mls ESE Bibile, 7.3.1962.
- 122 E. Prov., Gal Oya, 300 ft, 14 mls E Bibile, 8.3.1962.
- 125 E. Prov., Rambukkan Oya, 25 mls NE Bibile, 8.3.1962.
- 126 E. Prov., Inginiyagala, 8.-8.3.1962.
- 128 Centr. Prov., Udawela near Teldeniya, 8 mls E Kandy, 1500 ft, 11.3.1962.
- 129 Centr. Propv., Foothills of Knuckle Mnts., 10 mls ENE Kandy, 11.3.1962.
- 130 Centr. Prov., Rangala, Knuckle Mnts. 12 mls ENE Kandy, 11.3.1962.
- 134 Centr. Prov., Stream 2 mls E Madugoda, 18 mls E Kandy, 12.3.1962.

Results: Lund University Ceylon Exped. 1962, *Hydrophilidae*, & updated Sri Lanka check list.

- 136 Prov. of Uva, Mahaveli Ganga at Alutnuwara, 24 mls E Kandy, 12.3.1962.
 137 Prov. of Uva, Bibile, 800 ft, 12.-13.3.1962.
 138 E. Prov., Madura Oya, 15 mls NNW Bibile, 13.3.1962.
 139 E. Prov., Stream Kokagala Mnt., 20 mls N Bibile, 13.3.1962.
 144 Prov. of Uva, Ettampitiya 6 mls SW Badulla, 14.3.62.
 145 Prov. of Uva, Gampaha Estate, 9 mls W Badulla, 14.3.1962.
 152 Sabaragamuwa Prov., Kitulgala, 21. mls N Ratnapura, 17.3.1962, light.
 159 Centr. Prov. Mahaveli Ganga, 8 mls WSW Nuwara-Eliya, light trap, 18.-19.3.1962.
 164 Centr. Prov., Katumana, 3 mls SE Nuwara-Eliya, 21.3.1962.
 167:1 Prov. of Uva, Wallawaya, 600 ft, 21.3.1962.
 169 S. Prov., Yoda Wewa at Tissamaharama, 22.3.1962.
 172 Sabaragamuwa Prov., Walawe Ganga, 34 mls SE Ratnapura, 23.3.1962.
 x S. Prov., Wirawala, 12 mls NE Nambantala, 17.12.1963, leg. Dag Biller.

A large part of the species has been captured at light.

OUTPUT	Loc.:	Ex.
<i>Berosus</i> (s. str.) <i>pulchellus</i> MACLEAY	16:l, 100, 152	7
<i>Berosus</i> (s. str.) <i>nigriceps</i> (FABRICIUS)	44	1
<i>Regimbartia attenuata</i> (FABRICIUS)	50, 66, 95, 100, 169	16
<i>Allocotocerus leachi</i> (HOPE)	76	1
<i>Thysanarthria brincki</i> HEBAUER	138	1
<i>Thysanarthria ceylonensis</i> HEBAUER	70, 77, 100, 122, 126, 136, 138, 152	9
<i>Thysanarthria madurensis</i> HEBAUER	138	2
<i>Amphiops mirabilis</i> SHARP	10, 11, 16: I, 37, 44, 100	41
<i>Amphiops mater</i> ssp. <i>pedestris</i> SHARP	7, 16:l, 21, 24, 37, 45, 76, 122, 125, 137	16
<i>Paracymus evanescens</i> (SHARP)	16:l, 95, 152	1019
<i>Paracymus vulgatus</i> WOOLDRIDGE	100	1
<i>Paracymus ?orientalis</i> ORCHYMONT, 1925	10	1
A rather small single specimen probably belonging to this species.		
<i>Anacaena minima</i> (SHARP)	11, 42, 45, 86, 95, 100, 152, 164, 169	486
<i>Anacaena</i> sp.	145	1
A single specimen not to identify at present.		
<i>Pelthydrus jaechi</i> SCHÖNMANN	100, 105, 172	604
<i>Laccobius discicollis</i> RÉGIMBART	72	4
<i>Laccobius indicus</i> GENTILI	112, 119:III, 130	16
<i>Scoliopsis spinosa</i> ORCHYMONT	110, 119:III	14
<i>Oocyclus armatus</i> HEBAUER	115, 145	6
<i>Oocyclus coxalis</i> HEBAUER	89	1
<i>Oocyclus latus</i> ORCHYMONT	96, 111, 112, 134, 145	23
<i>Agraphydrus anderssoni</i> HEBAUER	17:l	HT
<i>Agraphydrus brincki</i> HEBAUER	111	HT
<i>Agraphydrus ceylonensis</i> HEBAUER	95	1 PT

<i>Agraphydrus hybridus</i> HEBAUER	98	HT
<i>Agraphydrus oblitteratus</i> HEBAUER	139	HT+1 PT
<i>Agraphydrus anulosus</i> HEBAUER	119:III, 134	HT+6 PT
<i>Agraphydrus rugifrons</i> HEBAUER	90:II:1, 167:I	HT+2 PT
<i>Agraphydrus subseriatus</i> HEBAUER	10, 16:I, 91:II, 95, 152	HT+24 PT
<i>Megagraphydrus uvaensis</i> HEBAUER	145	HT+1 PT
<i>Helochares</i> (s. str.) <i>pallens</i> MACLEAY	10, 11, 16:I, 40, 95, 100, 126, 152, 167:I	111
<i>Helochares</i> (<i>Hydrobaticus</i>) <i>cancellatus</i> HEBAUER	129	HT+8 PT
<i>Helochares</i> (<i>Hydrobaticus</i>) <i>densus</i> SHARP	37, 152	6
<i>Enochrus</i> (<i>Methydrus</i>) <i>esuriens</i> (WALKER)	10, 11, 16:I, 40, 48, 66, 95, 100, 152	409
<i>Enochrus</i> (<i>Methydrus</i>) <i>fragilis</i> SHARP	33, 95, 100	37
<i>Sternolophus inconspicuus</i> (NIETNER)	66, 95, 169	18
<i>Sternolophus rufipes</i> (FABRICIUS)	40, 48, 65, 66, 95, 169	24
<i>Hydrobiomorpha spinicollis</i> (ESCHSCHOLTZ)	10, 48, 167:I	3
<i>Hydrophilus bilineatus</i> ssp. <i>caschmirensis</i> REDTENBACHER	16:II, 100	4
<i>Hydrophilus olivaceus</i> FABRICIUS	x	1
<i>Coelostoma horni</i> (RÉGIMBART)	26, 66, 122, 144	4
<i>Coelostoma stultum</i> (WALKER)	22, 41, 66, 169	7
<i>Coelostoma bibilense</i> sp. n.	119: III	HT+ 5PT
<i>Dactylosternum abdominale</i> (FABRICIUS)	4, 10, 11, 14:IV, 27:II, 95	43
<i>Dactylosternum lanipes</i> sp n.	90:II:1	HT+19 PT
<i>Protosternum atomarium</i> SHARP	9, 9:II:2	4
<i>Protosternum</i> sp. n. (BAMEUL, under description)	116:II	
<i>Psalitrus</i> ? <i>veddha</i> BAMEUL	10	17
<i>Psalitrus</i> sp.	66	1
<i>Armostus optatus</i> SHARP	11, 95, 96, 152, 167:I	41
<i>Morastus gracilipalpis</i> ORCHYMONT	96, 111	9
<i>Peltocercyon lunulatus</i> GEMMINGER & HAROLD	11, 12, 66, 95, 100, 152, 159	78
<i>Cercyon</i> (<i>Clinocercyon</i>) <i>lineolatus</i> MOTSCHULSKY	95, 159	10
<i>Cercyon</i> (s. str.) <i>nigriceps</i> (MARSHAM)	10, 87, 95, 100, 109, 126, 152, 159	46
<i>Cercyon</i> (<i>Acycreon</i>) <i>punctiger</i> KNISCH	95, 126, 152	11
<i>Cercyon</i> (s. str.) <i>conjiciens</i> (WALKER) (= <i>uniformis</i> SHARP)	4, 10, 95, 111, 152, 159	61

Results: Lund University Ceylon Exped. 1962, *Hydrophilidae*, & updated Sri Lanka check list.

<i>Cercyon (Paracycreon) subsolanus</i>		
BALFOUR-BROWNE	8, 10, 95, 152, 159	18
<i>Cercyon (Paracycreon) pilosellus</i> sp. n.	10, 95, 100, 159	HT+7 PT
<i>Cercyon</i> (s. str.) sp.	10	1
An immature single specimen of 2.5 mm length, with distinct femoral lines and very narrow elongate mesosternal process, broadly oval, entirely testaceous, shining. Not identified.		
<i>Paroosternum sorex</i> (SHARP)	4, 35, 90:II:1, 91:I, 95, 96, 98, 110, 147, 152	11
<i>Pachysternum nigrovittatum</i>		
MOTSCHULSKY	8, 11, 48, 65, 95, 111, 128	12
<i>Cryptopleurum ferrugineum</i>		
MOTSCHULSKY	152	47
<i>Cryptopleurum sulcatum</i> MOTSCHULSKY	152	2
Gen. sp. (pr. <i>Oocyclus</i>)	90:II:1	9
A series of specimens could not be attached to any known genus. Probably gen. n., sp. n.		

NEW SPECIES

Cercyon (Paracycreon) pilosellus sp. n.

Type locality: Sri Lanka (Yakkala).

Holotype: 1.3 x 0.8 mm.- "Ceylon, W.Prov. Yakkala 18 mls NE Colombo, 15.I.62, Loc. 10/ Cycadaeus cone/ Lund University Ceylon Expedition 1962, BRINCK-ANDERSSON-CEDERHOLM." (ZML).

Paratypes: 3 ex.: (ibidem; ZML, CHG); 2 ex.: Ceylon, Sabaragamuwa Prov., at light, Ratnapura, 22.II.62, Loc. 95 (ZML); 1 ex.: Ceylon, Centr. prov. Mahaveli Ganga 8 mls WSW Nuwara-Eliya, 18.-19.III.62. Loc. 159/ light trap/ Lund University Ceylon Expedition 1962, Brinck-Andersson-Cederholm / more of sample available (ZML); 2 ex.: Ceylon, Sabaragamuwa Prov., Rakwana, 27.-28.2.62, light, loc. 100, BRINCK-ANDERSSON-CEDERHOLM (CHG).

Diagnosis: A very small *Cercyon* species, at first glance similar to a *Cryptopleurum* because of the fine elytral pubescence in combination with the sharply impressed punctural striae as well as the castaneous surface, but easily to attach to the *Cercyon* subgenus *Paracycreon* considering the mesosternal lamina longitudinally carinate.

It is not to exclude that this species is identic with MOTSCHULSKY'S "*Cercyon? rufo-testaceus*" (1863), from which not only the genus is indicated to be dubious, but also the type specimen seems to be lost. Unfortunately the original description gives too little usable characters. Some informations agree with the species under consideration, such as the small size, the colour, the elytral series, the sculpture of the undersurface. Some other characters are not quite clear or contradictory, such as "mesosterno vix elevato" or "thorace...angulis...posticis subacutis". Nothing is stated about the ground punctation, the presence of a carinate first abdominal segment, the surface of the elytral interstices or even about the evident pubescence of the elytra. Somewhat an argument for the identity of the two taxa could finally be the common type locality of both near Nuwara-Eliya.

In any case it seems to be useful to have a name and an exact description of a species obviously wide-spread and abundant in Sri Lanka, the more as the MOTSCHULSKY problem probably will never be solved.

Description: Length: 1.3-1.6 mm; width: 0.7-0.9 mm.- Regularly oval, moderately convex; surface rather coarsely and densely punctate, without any shagreen, shi-

ning castaneous; elytra with 10 regular deeply impressed series of nearly confluent moderately coarse punctures; distinctly pubescent.

Head moderately finely and distantly punctate, without any shagreen, shining castaneous, forehead, mouthparts and antennae testaceous, antennal club dark. Pronotum transversal, sides slightly rounded, moderately narrowed anteriorly, distinctly coarser and denser punctate than head; punctures somewhat lunulate, punctural interstices shining castaneous, laterally paler; lateral border continued around hind and fore angles. Elytra broadest behind shoulders, evenly rounded and narrowed to apex, about 1.3 x as long as their combined width; colour dark castaneous-piceous, apically paler; shining, without microsculpture, with ten deeply and narrowly impressed striae of rather coarse and very densely arranged punctures in anterior half; punctures in posterior half nearly missing within the striae; interstices progressively more convex and narrow behind; coarsely and rugosely setigerous punctate. Underside and legs testaceous, entirely dull, except the pentagonal elevated middle portion of metasternum, the latter shining, finely and distantly punctate, without femoral lines. Prosternum highly laminate-carinate. Mesosternal process longitudinally carinate in the middle, anteriorly not abruptly but obliquely raised, undersurface nearly horizontal in posterior half. First abdominal segment carinate. Tarsi narrow, pale, about 2/3 as long as tibial length. Aedeagus not examined.

Etymology: Derived from Latin: pilosus = hairy.

***Coelostoma (Lachnocoelostoma) bibilense* sp. n.**

Type locality: Sri Lanka (Prov. Uva).

Holotype (male): 6.0 x 4.0 mm.- "Ceylon, Prov. of Uva, Westminster Abbey 25 mls ESE Bibile, 7.III.1962, Loc. 119:III / Lund University Ceylon expedition 1962, BRINCK-ANDERSSON-CEDERHOLM / On rocks covered by trickling water. (ZML)."

Paratypes: 3 males, 2 females (ibidem; 3 ZML, 2 CHG).

Diagnosis: Large species, at first glance resembling *C. transcaspicum* REITTER, but different from that by the presence of the first abdominal segment fully carinate and by the prosternum more bluntly dentate anteriorly. The aedeagus in the new species is distinctly sinuate at outer face, not parallel-sided like in the compared species, with subapically widened and apically acute parameres; the median lobe is shallowly bilobed at apex, not merely transversely rounded there as in *C. transcaspicum*.

Description: Length: 6.0-6.5 mm; width: 4.0-4.1 mm.- Broadly oval, moderately convex, shining black, without shagreen; surface rather finely, very densely punctate; first abdominal segment carinate at middle.

Head like the whole surface rather finely, very densely punctate, shining black; mouthparts and antennal base clear; mentum with a transversal, deep anterior impression. Pronotum transversal and flat, lateral margins indistinctly reddish. Elytra entirely black, shining; about 1.5 x as long as their combined width. Punctural interstices about as wide as their own diameter. Sutural stria sharply impressed in posterior half. Undersurface and legs piceous. Prosternum tectiform, anteriorly dentate. First abdominal segment with long carina. Ultimate segment shallowly emarginate apically. Median lobe of aedeagus wide, slightly attenuate from base to apex; the latter emarginate in the middle of the apex, shorter than the parameres; the gonopore situated at some distance from the apex; parameres sinuate at outer face, dilated subapically and having the external apical angle rounded, the internal angle produced and acute. (Fig. 1).

Etymology: Derived from the type locality.

***Dactylosternum lanipes* sp. n.**

Type locality: Sri Lanka (Sabaragamuwa).

Holotype (male): 3.3 x 2.3 mm.- "Ceylon, Sabaragamuwa Prov. Deerwood Kuruwita 6 mls NNW Ratnapura, 18.II.62, Loc. 90:II:1 / Sieved in debris/ Indigenous forest/ Lund University Ceylon Expedition, BRINCK-ANDERSSON-CEDERHOLM." (ZML).

Paratypes: 16 ex. (ibidem; ZML, CHG).

Diagnosis: This species comes next to *D. inaequale* ORCHYMONT from Sumatra in size and shape, but differs from that in having not basally abbreviated elytral series (except behind shoulders, 6th-8th series), in having all elytral interstices microscopically finely punctate, even laterally, the elytral series not coarser at apex, the antennal club pale, not dark as in the compared species.

Description: Length: 3.3 mm; width: 2.3 mm.- Broadly oval, moderately convex, piceous-black, shining, without shagreen; very finely punctate, with ten coarsely punctate elytral striae; elytra explanate.

Head with fine and rather dense punctation at intervals; shining black, forehead and maxillary palpi red; with large and shallow impressions before and between the eyes; mouthparts and antennae entirely clear, the antennal club laxly articulated. Mentum deeply impressed medially, strongly microreticulated. Pronotum distinctly finer and more distantly punctate than head; the punctures somewhat lunulate; black, transversal, strongly narrowed anteriorly, the posterior angles sharply rounded, nearly rectangular, the anterior angles widely rounded; sides and hind angles diffusely reddish; the border continued around fore angle. Elytra short oval, exactly as long as their combined width, apico-lateral edge clearly explanate; ground punctation extremely fine, even laterally, shining black, without any shagreen; ten regular series of coarse punctures from base to apex progressively more impressed behind, with more convex interstices there; the 6th-8th series abbreviated behind shoulders, the 4th and 5th series not reaching the apex; an irregular group of about ten coarse punctures at antero-lateral edge is very conspicuous. Undersurface and legs castaneous; tarsi fitted with fringes of long golden hairs. Prosternum rather flat, dull like the whole abdomen, except the shining elevated middle portion of metasternum. First abdominal segment carinate at middle. Aedeagus strongly convex at outer face, evenly narrowed both anteriorly and posteriorly; parameres with acute, somewhat prolonged tips inclining to the median lobe; the latter narrowly lance-shaped and a little shorter than the parameres, with bluntly rounded tip; the gonopore situated at some distance from the apex. (Fig. 2).

Etymology: Derived from Latin: lana = wool; pes = foot.

ANALYSIS

	n	%
Indicated species, total:	86	100
Species described from Sri Lanka:	57	66
Proved species by LUCE:	55	64
Species new to Sri Lanka:	20	23
New described species:	17	20
Endemic species:	31	36
Not identified species:	3	3.5

CHECK LIST

Abbreviations:	*	=	new to Sri Lanka;
Source:	SL	=	described from Sri Lanka, o = endemic
	LE	=	Lund University Ceylon Expedition 1962
	MF	=	Mendis & Fernando, 1962
	R	=	other references concerning Sri Lanka species

Species	SL	LE	MF	R
<i>Berosus (Enoplurus) elongatulus</i> JORDAN, 1894	-	-	-	+
<i>Berosus (Enoplurus) ineditus</i> ORCHYMONT, 1937	-	-	-	+
<i>Berosus (Berosus) nigriceps</i> (F., 1801)	-	+	+	+
<i>Berosus (Berosus) pulchellus</i> MACLEAY, 1825	-	+	+	+
(? <i>Berosus vitticollis</i> BOHEMAN, 1851)	-	-	+	-
<i>Berosus (Enoplurus) indicus</i> (MOTSCH., 1861)	-	-	+	+
<i>Regimbartia attenuata</i> (F., 1801)	-	+	+	+
<i>Allocotocerus leachii</i> (HOPE, 1838)	-	+	+	+
* <i>Thysanarthria brincki</i> HEBAUER (in press)	o	+	-	-
* <i>Thysanarthria ceylonensis</i> HEBAUER (in press)	o	+	-	-
* <i>Thysanarthria madurensis</i> HEBAUER (in press)	o	+	-	-
<i>Amphiops gibbus</i> (ILLIGER, 1801)	-	-	+	-
<i>Amphiops mirabilis</i> SHARP, 1890	+	+	+	+
<i>Amphiops mater</i> ssp. <i>pedestris</i> SHARP, 1890	+	+	+	+
<i>Amphiops simplex</i> SHARP, 1890	+	-	+	-
<i>Paracymus evanescens</i> (SHARP, 1890)	+	+	+	-
* <i>Paracymus vulgatus</i> WOOLDRIDGE, 1977	-	+	-	+
* <i>Paracymus ?orientalis</i> ORCHYMONT, 1925	-	+	-	-
<i>Anacaena advena</i> (SHARP, 1890)	+	-	+	-
<i>Anacaena minima</i> (SHARP, 1890)	o	+	+	-
<i>Anacaena</i> sp.	-	+	-	-
<i>Pelthydrus jaechi</i> SCHÖNMANN, 1994	o	+	-	-
<i>Pelthydrus suffacinatus</i> SCHÖNMANN, 1995	o	-	-	-
<i>Laccobius</i> (Cyclolacc.) <i>rectus</i> SHARP, 1890	o	-	+	-
<i>Laccobius (Hydroxenus) discicollis</i> RÉG., 1903	-	-	-	+
<i>Scoliopsis spinosa</i> ORCHYMONT, 1919	o	+	+	-
* <i>Oocyclus armatus</i> HEBAUER & WANG, 1998	o	-	-	-
<i>Oocyclus latus</i> ORCHYMONT, 1919	+	+	+	-
* <i>Agraphydrus anderssoni</i> HEBAUER (in press)	+	-	-	-
* <i>Agraphydrus anulosus</i> HEBAUER (in press)	o	+	-	-
* <i>Agraphydrus brincki</i> HEBAUER (in press)	o	+	-	-
* <i>Agraphydrus ceylonensis</i> HEBAUER (in press)	o	+	-	+
* <i>Agraphydrus hybridus</i> HEBAUER (in press)	o	+	-	-
* <i>Agraphydrus oblitteratus</i> HEBAUER (in press)	o	+	-	-
* <i>Agraphydrus rugifrons</i> HEBAUER (in press)	o	+	-	-
* <i>Agraphydrus subseriatus</i> HEBAUER (in press)	o	+	-	-
* <i>Megagrphydrus uvaensis</i> HEBAUER (in press)	o	+	-	-
<i>Helochaes</i> (s. str) <i>pallens</i> (MCLEAY, 1825)	-	+	+	+
<i>Helochaes</i> (s. str.) <i>taprobanicus</i> SHARP, 1890	+	-	+	-
<i>Helochaes (Hydrob.) anchoralis</i> SHARP, 1890	+	-	+	+
* <i>Helochaes (Hydrob.) cancellatus</i> HEB., 1998	o	+	-	-
<i>Helochaes (Hydrob.) densus</i> SHARP, 1890	+	+	+	+

<i>Helochares (Hydrob.) lentus</i> SHARP, 1890	+	-	+	+
<i>Chasmogenus abnormalis</i> (SHARP, 1890)	+	-	+	+
sub " <i>livornicus</i> (KUWERT, 1890)"				
<i>Enochrus (Meth.) esuriens</i> (WALKER, 1858)	-	+	+	+
<i>Enochrus (Meth.) fragilis</i> (SHARP, 1890)	+	+	+	+
<i>Enochrus (Meth.) fuscatus</i> (MOTSCH., 1861)	+	-	+	-
<i>Enochrus (Meth.) iteratus</i> (SHARP, 1890)	+	-	+	-
<i>Enochrus (Meth.) nigropiceus</i> (MOTSCH., 1861)	+	-	+	-
<i>Sternolophus inconspicuus</i> (NIETNER, 1856)	+	+	+	+
<i>Sternolophus rufipes</i> (F. 1892),	-	+	+	+
<i>Hydrobiomorpha rufiventris</i> (NIETNER, 1856)	+	-	+	+
<i>Hydrobiomorpha spinicollis</i> (ESCHSCH., 1822)	-	+	+	+
<i>Hydrophilus bilineat. caschmirensis</i> REDT, 1844	-	+	+	+
<i>Hydrophilus olivaceus</i> F., 1781	-	+	+	-
<i>Coelostoma (Lachnocoel.) horni</i> (RÉG., 1902)	+	+	+	+
<i>Coelostoma (Holocoel.) stultum</i> (WALKER, 1858)	+	+	+	+
* <i>Coelostoma (Lachnocoel.) bibilense</i> sp. n.	0	+	-	-
<i>Dactylosternum abdominale</i> (F., 1792)	-	+	+	-
<i>Dactylosternum dytiscoides</i> (F., 1775)	-	-	+	+
* <i>Dactylosternum lanipes</i> sp. n.	0	+	-	-
<i>Protosternum atomarium</i> SHARP, 1890	+	+	+	-
* <i>Protosternum</i> sp. n.	-	+	-	-
<i>Nannomicrus pulchellus</i> BAMEUL, 1991	0	-	-	+
<i>Psalitrus loebli</i> BAMEUL, 1992	0	-	-	+
<i>Psalitrus mahanuwara</i> BAMEUL, 1992	0	-	-	+
<i>Psalitrus nigrifulus</i> (MOTSCH., 1966)	0	-	-	+
<i>Psalitrus serendibensis</i> BAMEUL, 1992	0	-	-	+
<i>Psalitrus veddha</i> BAMEUL, 1992	0	?	-	+
<i>Omicrogiton insularis</i> ORCH., 1919	-	-	+	+
<i>Armatus optatus</i> SHARP, 1890	+	+	+	-
* <i>Morastus gracilipalpis</i> ORCH., 1926	-	+	-	-
<i>Peltocercyon lunulatus</i> (GEMM. & HAR., 1868)	+	+	+	+
<i>Cercyon avarius</i> KNISCH, 1927	0	-	+	-
<i>Cercyon (Clino-) conjiciens</i> (WALKER, 1858)	+	+	+	-
<i>Cercyon? hydrophiloides</i> MOTSCH., 1863	0	-	+	-
<i>Cercyon (Clino-) lineolatus</i> MOTSCH., 1863	+	+	+	+
<i>Cercyon nigriceps</i> (MARSHAM, 1802)	-	+	+	+
* <i>Cercyon (Paracycreon) pilosellus</i> sp. n.	0	+	-	-
<i>Cercyon (Acycreon) punctiger</i> KNISCH, 1921	+	+	+	-
<i>Cercyon? rufotestaceus</i> MOTSCH., 1863	0	?	+	-
<i>Cercyon (Paracyc.) subsolanus</i> BALF.-BR., 1939	-	+	+	+
<i>Cercyon</i> (s. str.) sp.	-	+	-	-
<i>Paroosternum sorex</i> (SHARP, 1874)	-	+	-	+
<i>Pachysternum nigrovittatum</i> MOTSCH., 1863	+	+	+	+
<i>Cryptopleurum ferrugineum</i> MOTSCH., 1863	-	+	+	+
<i>Cryptopleurum sulcatum</i> MOTSCH., 1863	+	+	+	-
<i>Sphaeridium dimidiatum</i> GORY, 1834	-	-	+	+
<i>Sphaeridium quinque maculatum</i> F., 1798	-	-	+	+
Genus n., sp. n.	+	+	-	-

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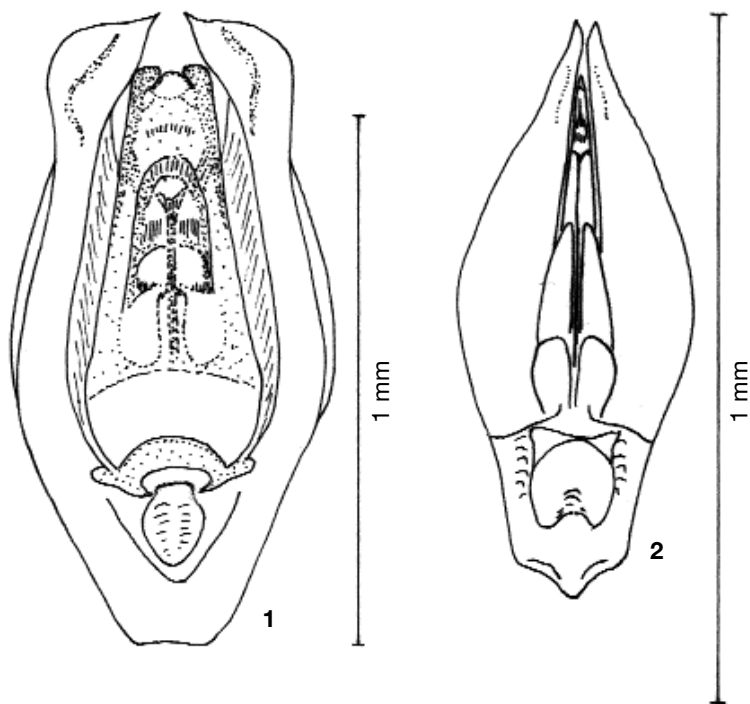
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Figures:

Fig. 1. *Coelostoma bibilense* sp. n.; aedeagus.

Fig. 2. *Dactylosternum lanipes* sp. n.; aedeagus.

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