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New records of mites (Acari: Prostigmata: Erythraeidae, Trombidiidae, Microtrombidiidae, Calyptostomatidae) from Slovenia, with a description of *Campylothrombium nadbori* spec. nov.

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ABSTRACT

Hauptmannia brevicollis, *H. kazimierae*, *H. wratislaviensis*, *H. silesiacus*, *H. pseudolongicollis*, *Erythraeus monikae*, *E. gertrudae*, *Leptus beroni*, *L. echinopus*, *Trombidium holosericeum*, *Podothrombium kordulae*, *P. protii*, *P. tersonderi*, *P. tymoni*, *P. karlovaicus*, *Camerothrombium adamidae* are new to the fauna of Slovenia. *Campylothrombium nadbori* spec. nov. is described. Additional measurements for *E. monikae*, *P. tersonderi* and *C. adamidae* are given.

Key words: Acari, Erythraeidae, Trombidiidae, Microtrombidiidae, Calyptostomatidae, new species, faunistics, Slovenia

IZVLEČEK

Nove najdbe pršic (Acari: Prostigmata: Erythraeidae, Trombidiidae, Microtrombidiidae, Calyptostomatidae) v Sloveniji, z opisom *Campylothrombium nadbori* spec. nov. - Za favno Slovenije so nove naslednje vrste: *Hauptmannia brevicollis*, *H. kazimierae*, *H. wratislaviensis*, *H. silesiacus*, *H. pseudolongicollis*, *Erythraeus monikae*, *E. gertrudae*, *Leptus beroni*, *L. echinopus*, *Trombidium holosericeum*, *Podothrombium kordulae*, *P. protii*, *P. tersonderi*, *P. tymoni*, *P. karlovaicus* in *Camerothrombium adamidae*. Opisana je *Campylothrombium nadbori* spec. nov. Podane so dodatne meritve za vrste *E. monikae*, *P. tersonderi* in *C. adamidae*.

Ključne besede: pršice, Erythraeidae, Trombidiidae, Microtrombidiidae, Calyptostomatidae, nove vrste, favna, Slovenija

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Introduction

In Slovenia, mites belonging to the families Erythraeidae, Trombidiidae, Microtrombidiidae and Calyptostomatidae are unknown besides *Leptus mariae* HAITLINGER, *Erythraeus styriacus* TURK, 1981 and *Calyptostoma velutinus* (O. F. MÜLLER)(TURK, 1981, SOUTHCOTT, 1992). In this paper, 16 species new to the fauna of Slovenia are listed and *Campylothrombium nadbori* spec. nov. is described. Most of the species were recorded for the first time above the altitude of 1200 m.

From 22 to 26 June, 2002, 112 larvae belonging to 19 species were collected. All measurements are given in μm . The terminology of structure and setal notation for erythraeids, trombidiids and microtrombidiids are adapted from SOUTHCOTT (1992, 1994) and HAITLINGER (1998). Holotype and paratype of *Campylothrombium nadbori* are deposited in the Museum of Natural History, Wrocław University (MNHWU).

Results

Family **E r y t h r a e i d a e** ROBINEAU-DESVOIDY, 1828

Hauptmannia brevicollis OUDEMANS, 1910

Material: Trstenik n. Kranj, 27 June, 2002, 5 larvae; Lovrenc n. Maribor, 23 June, 2002, 1 l; Rogla, 1400 m asl, 23 June, 2002, 7 l (1 larva from undetermined Thysanoptera); Padeški vrh n. Rogla, 23 June, 2002.

Distribution: Species widely distributed in Europe (HAITLINGER 2002). Localities from Slovenia are the southernmost in Europe. In Europe, Rogla and Padeški vrh are the highest localities for *H. brevicollis*. First record from Slovenia.

Hauptmannia kazimierae HAITLINGER, 1986

Material: Rogla, 1400 m asl, 23 June, 2002, 32 l; Log n. Bohinjska Bistrica, 26 June, 2002, 3 l; Padeški Vrh n. Rogla, 23 June 2002, 3 l.

Distribution: Poland, Slovakia, Slovenia. To date, this species was known from few localities in Europe; mainly from wet meadows was recorded (HAITLINGER 1986, 1987, 2002). Rogla and Padeški vrh are the highest localities for *H. kazimierae* in Europe. First record from Slovenia.

Hauptmannia wratislaviensis HAITLINGER, 1986

Material: Rogla, 1400 m asl, 23 June 2002, 7 l; Padeški vrh n. Rogla, 23 June, 2002, 1 l; Ljutomer, 22 June, 2002, 1 l.

Distribution: Iceland, Scotland, Norway, Russia, Lithuania, Poland, Switzerland, Slovenia. Up to date, this species has been known only from Northern and Central Europe (HAITLINGER 1986, 1994a, 1998, 2000, SOUTHCOTT 1989). First record from Slovenia.

Hauptmannia silesiacus* HAITLINGER, 1986*Material:** Križ n. Sežana, 28 June, 2002, 1 l.**Distribution:** Poland, Slovakia, Slovenia. To date, this rare species has been known from four sites in Poland and one locality in Slovakia (HAITLINGER 1986, 1987c, 2000, 2002). First record from Slovenia.***Hauptmannia pseudolongicollis* HAITLINGER, 1987****Material:** Trstenik n. Kranj, 27 June, 2002, 1 l.**Distribution:** Poland, Italy, Slovenia. Rare species, known only from single localities in three countries (HAITLINGER 1987a, 1996). First record from Slovenia.***Erythraeus monikae* HAITLINGER, 1987****Material:** Trstenik n. Kranj, 27 June, 2002, 1 l.**Distribution:** Finland, Germany, Poland, Slovakia, Slovenia. Rare species. Hitherto, only eight specimens have been recorded (HAITLINGER 1987b, 1995, 2000a, 2002). As its measurements have been published only for Polish holotype and paratype, dimensions for other specimens (from Slovenia, Finland and Slovakia), now in Table 1, are given. First record from Slovenia.**Table 1.** Metric data for *Erythraeus monikae* HAITLINGER; P – from Poland, holotype and paratype, F – Finland, SL – Slovakia, SN – Slovenia

	P	F	SL	SN		P	F	SL	SN
IL		489	476	638	TrI	70-82	94	78	86
IW	432-568	381	336	317	CxI	92-94	94	100	100
L	136-148	120	144	136	TaII	180-184	186		196
W		204	194	192	TiII	316-336	300		324
AW	64-66	72	76	54	GeII	194-206	180		190
PW	124	124	132	130	TfII	144-146	132		136
ISD	84-90	80	90	80	BfII	152-162	154		162
SBa	16-18	20	20	16	TrII	84-90	72		74
SBp	24-26	30	20	24	CxII	124-128	122		110
LX		12	24	32	TaIII	204	208	218	220
AAS		30	24	20	TiIII	474-496	440	472	478
AL	146-150	130		130	GeIII	238-248	226	250	240
PL	124-132	118	114	120	TfIII	174-186	162	182	180
AM	84-92	82	78	82	BfIII	192	200	184	188
S		104	100	100	TrIII	76	80	78	76
DS	120-136	80-122	104-120	90-130	CxIII	130-134	110		110
GL		196	200	176	E*		60	60	68
sc1		42	52	52	e1		12	16	18
PsGd		84	84	96	e2		8	12	12
TaI	196-204	200	204	218	1a	70-74	72	80	90
TiI	302-334	314	330	336	3a		50	48	48
GeI	238-240	224	234	234	1b	132-150	140	130	140
TfI	142-154	140	154	150	2b	60		64	60
BfI	164-176	180	172	156	3b	78	68	74	70
AP	74	68	84	74					

E* – length of ocular plate, e1 – diameter of anterior lens, e2 – diameter of posterior lens

Erythraeus gertrudae HAITLINGER, 1987

Material: Rogla, 1400 m asl, 23 June, 2002, 6 l (one specimen from undetermined larva of Homoptera); Padeški vrh n. Rogla, 23 June, 2002, 1 l.

Distribution: Norway, Poland, Slovakia, Slovenia. To date, this species has been registered only in lowland areas (HAITLINGER 1987b, 2000, 2002). Rogla and Padeški vrh are the highest-lying localities for *E. gertrudae* in Europe. First record from Slovenia.

Leptus beroni FAIN, 1992

Material: Rogla, 1400 m asl, 23 June, 2002, 5 l.

Distribution: Belgium, Bulgaria, Germany, Poland.

The highest-lying locality for *L. beroni* in Europe First record from Slovenia.

Leptus echinopus BERON, 1975

Material: Ljubljana, 25 June, 2002, 1 l; Padeški vrh n. Rogla, 23 June, 2002, 1 l.

Distribution: Species common in Europe. Padeški vrh is the highest-lying locality for *L. echinopus* in Europe. First record from Slovenia.

Family **T r o m b i d i i d a e** LEACH, 1815

Podothrombium kordulae HAITLINGER, 1995

Material: Trstenik n. Kranj, 27 June, 2002, 1 l; vicinity of Vršič, 1517 m asl, Alps, 23 June, 2002, 6 l.

Distribution: Germany, Poland, Russia (Sankt Petersburg), Slovakia, Slovenia. A rarely recorded species (HAITLINGER 1995c, 2000, MAKOL 1998). In Europe, the vicinity of Vršič is the highest-lying locality for *P. kordulae*. First record from Slovenia.

Podothrombium protii HAITLINGER, 1994

Material: Vicinity of Vršič, 1517 m asl, 23 June 2002, 6 l.

Distribution: Italy, Poland, Slovenia, Turkey.

Rare species, probably closely associated with mountainous and piedmont places (HAITLINGER 1994b, 1995b, 1999). In Europe, vicinity of Vršič is the highest-lying locality for *P. protii*. First record from Slovenia.

Podothrombium tersonderi HAITLINGER, 1995

Material: Rogla, 1400 m asl, 23 June 2002, 1 l.

Distribution: Poland, Slovakia, Slovenia. This species has been known only for its two specimens from Poland and Slovakia (HAITLINGER 1995c, 2002). Therefore, standard measurements for the third specimen from Slovenia are given in Table 2. Rogla is the highest-lying locality for *P. tersonderi* in Europe. First record from Slovenia.

Table 2. Metric data for *Podothrombium tersonderi* HAITLINGER; P Poland, SL Slovakia, SN Slovenia.

	P	SL	SN		P	SL	SN
IL	592	762	857	2b	80		66
IW	392	489	508	3b	50		
AW	82	80	88	Tal(L)	144	144	136
PW	112	110	124	Tal(H)	56	48	46
AA	22	24	26	Til	90	88	100
LN	28	36	32	GeI	66	70	68
MA	90	82	82	FeI	130	120	128
SA			34	TrI	62	62	60
SP			34	CxI	104	104	100
ASB	134	42	138	TalI(L)	128	136	116
PSB	42	38	26	TalI(H)			38
AP	34	26	40	TiII	76	74	84
AL	70	66	68	GeII	52	52	54
PL	80	70	66	FeII	110	96	98
AM	72	64	66	TrII	54	54	64
SB	50	44	52	CxII	96	100	104
S	106		126	TaIII(L)	134	144	130
L	174	180	164	TaIII(H)			28
W	130	140	134	TjIII	96	92	102
GL	108	90	102	GeIII	60	54	60
DS	64-76	60-72	64-66	FeIII	116	110	116
1b*	64		62	TrIII	60	66	64
1b**	76		64	CxIII	106	96	108

1b* – proximal seta, 1b** – distal seta

Podothrombium tymoni HAITLINGER, 1994

Material: Log n. Bohinjska Bistrica, 26 June, 2002, 1 l; vicinity of Vršič, 1517 m asl, 23 June, 2002, 5 l.

Distribution. Austria, Poland, Slovenia.

Rarely recorded species, probably associated only with mountainous and piedmont places and meadows in forests or their immediate vicinity (HAITLINGER 1994, 1995b). Vicinity of Vršič is the highest-lying locality for *P. tymoni* in Europe. First record from Slovenia.

Podothrombium karlovaicus HAITLINGER, 2003

Material: Vicinity of Vršič. 1517 m asl, 23 June, 2002, 3 l.

Distribution: Czech Republic, Slovenia.

Rarely recorded species, probably associated only with mountainous places (HAITLINGER, 2003).

Allothrombium fuliginosum (HERMANN, 1804)

Material: Celje, 24 June, 2002, 1 l; Log n. Bohinjska Bistrica, 26 June, 2002, 2 l; Bled, 26 June, 2002, 2 l; Ormož, 22 June, 2002, 1 l.

Distribution: common species throughout Europe.

Trombidium holosericeum (LINNAEUS, 1758)

Material: Celje, 24 June, 2002, 1 l; Ljutomer, 22 June, 2002, 1 l; vicinity of Vršič, 1517 m asl, 23 June, 2002, 1 l.

Distribution: common species throughout Europe. First record from Slovenia.

Family **Microtrombidiidae** THOR, 1935***Camerotrombium adamidae*** HAITLINGER, 1998

Material: Trstenik n. Kranj, 27 June, 2002, 1 l; Ljutomer, 22 June, 2002, 1 l; Ormož, 22 June 2002, 1 l.

Distribution: Poland, Slovenia.

This species has been known only for its single specimen from Poland; measurements given for this species have been incomplete (HAITLINGER 1998). Therefore, standard measurements for the second specimen from Slovenia are given in Table 3. First record from Slovenia.

Table 3. Metric data for *Camerotrombidium adamidae* HAITLINGER; P Poland, S Slovenia.

	P	S		P	S
IL	1032	933-1549	1b*		24-28
IW	~896	533-1270	1b**		22
AW	116	96-120	2b		24-32
PW	120	118-130	3b		24-34
AA		62-74	TaI(L)	84	80-88
LN		18-32	TaI(H)		16-18
MA		52-62	TiI	52	48-52
SA	32	26-30	GeI	22	22
SP	28	28	FeI	44	50-60
ASB		104-118	TrI	42	38-40
PSB	34	28-32	CxI	64	56-62
AP	52	46-50	TaII(L)	64	66-72
AL	34	40-46	TaII(H)		14-18
PL	42	48-52	TiII	42	36-44
AM	40	32-38	GeII		16
SB	86	80-94	FeII		50-54
S	64	60-70	TrII		30-34
L		134-150	CxII		50-58
W		122-136	TaIII(L)		52-62
LSS	142	132-142	TaIII(H)		20-22
SS	62	60-72	TiIII		42-46
HS	52	42-50	GeIII		18-22
SL	46	52-58	TrIII		34-44
GL		100-120	CxIII		52-62
DS	40-54	38-54			

1b* – proximal seta, 1b** – distal seta

***Campylothrombium nadbori* spec. nov.**

Diagnosis. Anterior scutum partly covered by longitudinal striae, posterior scutum without striae. Hypostomalae broad with about 7 blunted digitations. Pygidial setae 110 µm long. Claws I-III trifurcate. TaI 90-100 µm long.

Type. Holotype larva from Slovenia, vicinity of Vršič, 1517 m asl, 23 June, 2002; paratype 1 I, the same data as for holotype. Leg. R. Haitlinger; deposited in MNHWU.

Description

Dorsum with 20 barbed setae not placed on platelets. Each lateral pair of eyes on ocular shield, 36 µm long; anterior cornea the larger, 8 µm across, posterior cornea 6 µm across. Anterior dorsal scutum with laterally placed delicate longitudinal striae. Posterior border of scutum slightly convex, its posterolateral borders distinctly concave. Scutalae PL longer than AL, slightly barbed. AL, AM and S all are nude (Fig. 3).

Posterior dorsal scutum with almost straight anterior border and rounded posterior border. It bears two slightly barbed setae 60 µm long.

Ventral surface of idiosoma with 8 setae, all setulose; the longest posterior pair 110 µm long. Between coxae III a pair of very short and weakly barbed seta. Coxae I with medials setae bearing 3 setules; basal setae are nude. Seta on coxa II and coxa III, both with small setules (Fig. 2). Gnathosoma with short hypostomalae with digitations and two nude galealae. Palpal formula: 0-0-0-2N-6N. Palptarsus has two relatively long setae (Fig. 4).

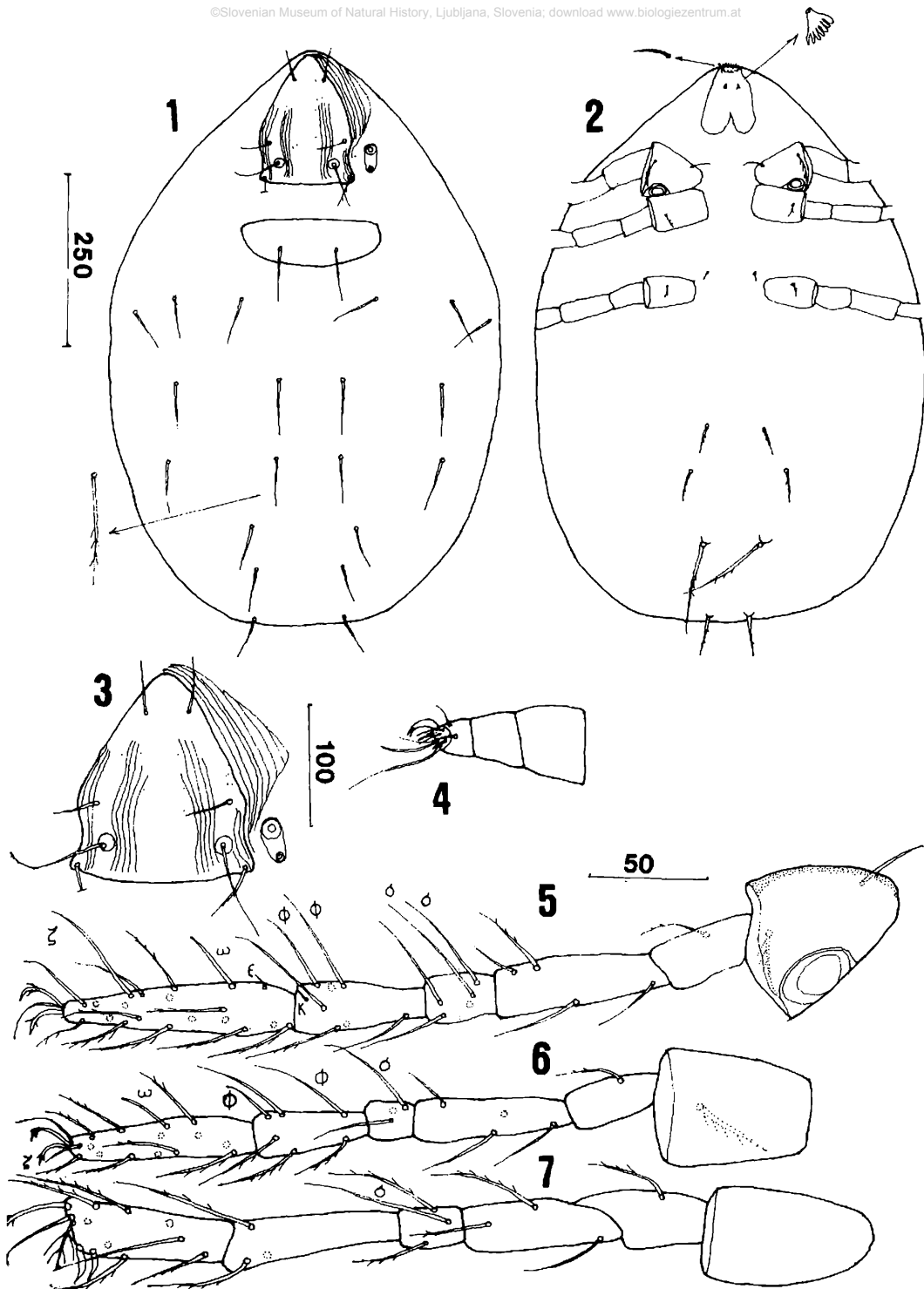
Leg lengths (including coxae, excluding claws):

Leg I. The setal formula: Ta 1 ω , 1 ϵ , 1 ζ , 18B; Ti 2 ϕ , 1 κ , 1B, 5N; Ge 2 σ , 4N; Fe 1B, 4N, Tr 1B. Solenidia ϕ and σ are relatively very long (Fig. 5).

Table 4. Metric data for *Campylothrombium nadbori* spec. nov.; H holotype, P paratype.

	H	P		H	P
IL	793	-	1b*	24	28
IW	527	-	1b**	30	32
AW	110	104	2b	34	32
PW	146	144	3b	22	24
AA	68	-	TaI(L)	100	90
LN	32	26	TaI(H)	22	24
MA	84	78	TiI	66	58
SA	30	30	GeI	30	28
SP	32	32	FeI	72	70
ASB	140	138	TrI	50	40
PSB	34	32	CxI	70	72
AP	52	54	TaII(L)	78	70
AL	4	32	TaII(H)	22	20
PL	54	52	TiII	48	48
AM	54	40	GeII	18	20
SB	104	100	FeII	64	64
S	92	?60	TrII	36	42
L	174	170	CxII	68	62
W	154	152	TaIII(L)	72	64
LSS	196	204	TaIII(H)	18	20
SS	78	78	TiIII	64	66
HS	64	60	GeIII	26	26
SL	60	54	FeIII	66	72
GL	126	124	TrIII	54	52

1b* – proximal seta, 1b** – distal seta



Figures

Campylothrombium nadbori spec. nov.

Figs. 1-7

1. Idiosoma, dorsal view, 2. Idiosoma, ventral view, 3. Scutum, 4. Palp, 5. Leg I, tarsus-coxa, 6. Leg II, tarsus-coxa, 7. Leg III, tarsus-coxa

Leg II. Ta 1 ω , 1 ζ , 13B; Ti 2 ϕ , 1N, 3B; Ge 1 σ , 2N, Fe 5N; Tr 1B. Solenidia on Ti and Ge are relatively long (Fig. 6).

Leg III. Ta 10B, 1N; Ti 5B; Ge 1 σ , 2B; Fe 2B, 2N; Tr 1B. Solenidion δ is relatively long (Fig. 7). Measurements are given in Table 4.

Etymology. The name of the species derived from the name Nadbor.

Remarks

Using key by SOUTHCOTT's (1994) for Microtrombididae is difficult to establish generic status of *C. nadbori*. It has features typical of the genus *Campylothrombium*, such as: setae behind posterior dorsal scutum not on platelets, formula coxae BN, B, B, anterior and posterior claws of tarsi I and II, and posterior claw of tarsus III, trifid with small terminal spurs and hypostomatae short with several blunted digitations. The following untypical features were also noted: not striate posterior scutum and longitudinal striations of anterior dorsal scutum not occupying its whole area. These features were also noted in *C. schwangauensis* HAITLINGER, provisionally included in this genus (HAITLINGER 1995).

SOUTHCOTT (1994) included in this genus *Campylothrombium barbarum* (LUCAS) (sensu ROBAUX, 1974) and *C. striaticeps* (OUDEMANS). Later, further three species, i.e. *C. schwangauensis* HAITLINGER, *C. lamberti* HAITLINGER and *C. tomiri* HAITLINGER were described (HAITLINGER 1995, 1998). *C. nadbori* nov. sp. differs from *C. schwangauensis* in 20 dorsal setae vs 16 in *C. schwangauensis*, more longitudinal striae on scutum and setae placed behind posterior scutum each without platelet; *C. schwangauensis* has four setae with platelets; shorter AW (104-110 vs 134), PW (144-146 vs 162) and TiIII (64-66 vs 74-80). From *C. barbarus* it differs in the number of dorsal setae (20 vs 26), not striate posterior scutum, shorter AW (104-110 vs 120-129), longer AL (32-40 vs 27-30), PL (52-54 vs 47-51) and MA (78-84 vs 71-77), from *C. lamberti* in not striate posterior scutum, shorter AW (104-110 vs 134), PW (144-146 vs 160), ASB (138-140 vs 170), longer SP (32 vs 22) and AP (52-54 vs 44); from *C. tomiri* by not striate posterior scutum, shorter AW 104-110 vs 132), PW (144-146 vs 166), MA (78-84 vs 92), ASB (138-140 vs 164) and from *C. striaticeps* in not striate posterior scutum.

Lamily Calyptostomatidae OUDEMANS, 1923

Calyptostoma velutinus (O. F. MÜLLER, 1776)

Material: Trstenik n. Kranj, 27 June, 2002, 11.

Distribution: Species widely distributed in Europe.

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