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**The genus *Adelognathus* HOLMGREN  
(Hymenoptera, Ichneumonidae: Adelognathinae) in Sweden  
Second contribution to the Swedish Malaise trap project<sup>1</sup>**

**Matthias RIEDEL & Pelle MAGNUSSON**

**Abstract**

For this study, we analyzed the material of the genus *Adelognathus* HOLMGREN collected for the Swedish Malaise trap Project (SMTP). 26 different taxa from Sweden were found, nine species are new for the Swedish fauna: *Adelognathus acantholydae* KASPARYAN, 1986, *Adelognathus brevis* KASPARYAN, 1986, *Adelognathus britannicus* PERKINS, 1943, *Adelognathus ctenonyx* KASPARYAN, 1986, *Adelognathus elongator* KASPARYAN, 1990, *Adelognathus nigriceps* THOMSON, 1888, *Adelognathus rufithorax* KASPARYAN, 1990, *Adelognathus stelfoxi* FITTON, GAULD & SHAW, 1982, and *Adelognathus tenthredinarum* (GIRAUD, 1872). *Adelognathus elongator* KASPARYAN, 1990 is reported from the Western Palaearctic region for the first time. Four species (*Adelognathus acantholydae* KASPARYAN, 1986, *Adelognathus brevis* KASPARYAN, 1986, *Adelognathus britannicus* PERKINS, 1943, and *Adelognathus ctenonyx* KASPARYAN, 1986) are new for the Scandinavian fauna.

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<sup>1</sup> First contribution: RIEDEL M. & P. MAGNUSSON (2014) A contribution to the Swedish fauna of Ichneumoninae (Hymenoptera, Ichneumonidae), with descriptions of the female of *Cratichneumon armillatops* RASNITSYN, 1981 and the male of *Aoplus biannulatorius* (THUNBERG, 1824). – Entomofauna 35: 433-448.

## Zusammenfassung

Wir haben das Material der Gattung *Adelognathus* HOLMGREN untersucht, welches im Rahmen des Swedish Malaise Trap Project (SMTP) gesammelt wurde. Insgesamt konnten 26 Taxa der Gattung für Schweden nachgewiesen werden, neun Arten sind neu für die schwedische Fauna: *Adelognathus acantholydae* KASPARYAN, 1986, *Adelognathus brevis* KASPARYAN, 1986, *Adelognathus britannicus* PERKINS, 1943, *Adelognathus ctenonyx* KASPARYAN, 1986, *Adelognathus elongator* KASPARYAN, 1990, *Adelognathus nigriceps* THOMSON, 1888, *Adelognathus rufithorax* KASPARYAN, 1990, *Adelognathus stelfoxi* FITTON, GAULD & SHAW, 1982, und *Adelognathus tenthredinarum* (GIRAUD, 1872). *Adelognathus elongator* KASPARYAN, 1990 ist erstmals in der westlichen Paläarktis gefunden worden. Vier Arten (*Adelognathus acantholydae* KASPARYAN, 1986, *Adelognathus brevis* KASPARYAN, 1986, *Adelognathus britannicus* PERKINS, 1943, und *Adelognathus ctenonyx* KASPARYAN, 1986) sind neu für Skandinavien.

## Introduction

The subfamily Adelognathinae with its only genus *Adelognathus* HOLMGREN, 1857 is a small Holarctic group of the Ichneumonidae (Hymenoptera). YU et al. (2012) counted 42 species for the Palaearctic region. Recently, a further *Adelognathus* taxon was described by SHAW & WAHL (2014) increasing the number to 43 Palaearctic taxa.

Adelognathines are gregarious or solitary ectoparasitoids of symphytan larvae (GAULD & BOLTON 1988) and mainly distributed in the northern and central parts of the Holarctic region. They are small (<5mm) and inconspicuous wasps and usually quite rare in insect collections.

The Swedish fauna of *Adelognathus* had been studied by several Swedish entomologists such as HOLMGREN (1857), THOMSON (1883, 1888), and ROMAN (1918, 1931) in the past. A definite monograph and revision of all but one Palaearctic species was recently published by KASPARYAN (1990).

## Material and Methods

For this study, 599 *Adelognathus* specimens (439 ♀♀ and 160 ♂♂) collected in the Malaise traps of the Swedish Malaise trap Project (SMTP) in the years 2003-2006 were determined. The material had been sorted to subfamily by the second author (P. MAGNUSSON), the determinations were made by the first author (M. RIEDEL). The distributional records below were taken from the recent catalogue of YU et al. (2012).

The main part of the material is actually housed in the Station Linné on Öland and will later be stored in the Swedish Natural History Museum in Stockholm, some voucher specimen are kept in the personal collection of the first author.

## Species list

### *Adelognathus acantholydae* KASPARYAN, 1986

**M a t e r i a l :** 4♀ ♀ from Gotland, Södermanland, and Småland (traps 3, 29, 41).

**C o l l e c t i o n d a t e s :** 15 June to 26 August.

**D i s t r i b u t i o n :** Palaearctic region, known from Central and Southern Europe (KASPARYAN 1990), new for Scandinavia.

### *Adelognathus brevicornis* HOLMGREN, 1857

syn. *Adelognathus limbatus* THOMSON, 1888 and *Adelognathus montivagator* AUBERT, 1976.

**M a t e r i a l :** 37♀ ♀ and 1♂ from Gotland, Hälsingland, Lule lappmark, Lycksele lappmark, Norbotten, Skåne, Södermanland, Småland, Uppland, Torne lappmark, and Värmland (traps 3, 4, 6, 7, 17, 24, 26, 27, 28, 30, 39, 43, 44, 46, 48, 49, 50, 1001, 1003, 1008).

**C o l l e c t i o n d a t e s :** 15 April to 5 September.

**D i s t r i b u t i o n :** Holarctic region, known from Sweden (KASPARYAN 1990).

### *Adelognathus brevis* KASPARYAN, 1986

**M a t e r i a l :** 1♀ ♀ from Smaland, Nybro kommun, Alsterbro/Alsterån, mixed forest, N 63°12.220' E 15°00.6997', 10-16 July 2006 (Trap 1008, Coll ID 1742).

**D i s t r i b u t i o n :** Palaearctic region, known from Central and Southern Europe (KASPARYAN 1990), new for Scandinavia.

### *Adelognathus britannicus* PERKINS, 1943

**M a t e r i a l :** 1♂ from Södermanland, Tyresö kommun, Åva, Spirudden, mixed coastal oak forest, N 59°10.313' E 18°22.197', 28 May - 16 June 2004 (Trap 1, Coll ID 316)

**D i s t r i b u t i o n :** Known from Germany, Poland and United Kingdom (KASPARYAN 1990), new for Scandinavia.

### *Adelognathus chrysopygus* (GRAVENHORST, 1829)

syn. *Adelognathus granulatus* PERKINS, 1943.

**M a t e r i a l :** 77♀ ♀ and 38♂ ♂ from Angermanland, Blekinge, Dalarna, Gotland, Öland, Östergötland, Skåne, Småland, Södermanland, Uppland, Västmanland, and Värmland (traps 1, 2, 4, 5, 7, 8, 9, 10, 11, 13, 15, 17, 18, 22, 23, 24, 25, 27, 28, 30, 31, 37, 39, 44, 1000, 1001, 1002, 1003, 1008, 2046).

**C o l l e c t i o n d a t e s :** 22 May to 10 October.

**D i s t r i b u t i o n :** Widespread in the Palaearctic region, known from Sweden (ROMAN 1918, 1931, PERKINS 1943).

### *Adelognathus ctenonyx* KASPARYAN, 1986

**M a t e r i a l :** 1♀ ♀ from Småland, Torsås kommun, Söderåkra, Påboda, garden, N62°5636 E15°1637, 1-15 June 2008 (Trap 2046, Coll ID 2052)

**Distribution:** Known from Germany and Poland (KASPARYAN 1990), new for Scandinavia.

***Adelognathus cubiceps* ROMAN, 1925**

**Material:** 2♀♀ from Lycksele Lappmark and Uppland (traps 9 and 46).

**Collection dates:** 2 August to 5 September.

**Distribution:** Palaearctic region, known from Sweden (ROMAN 1931, FULMEK 1968, KASPARYAN 1990, KASPARYAN & KOPELKE 2009).

***Adelognathus difformis* HOLMGREN, 1857**

**Material:** 3♀♀ from Uppland and Södermanland (traps 2 and 9).

**Collection dates:** 28 May to 2 July.

**Distribution:** Holarctic region, known from Sweden (HOLMGREN 1857, ROMAN 1918, KASPARYAN 1990).

***Adelognathus dorsalis* (GRAVENHORST, 1829)**

syn. *Stilpnus dryadum* CURTIS, 1832 and *Adelognathus dorsalis* var. *melanius* ROMAN, 1918.

**Material:** 91♀♀ and 80♂♂ from Dalarna, Gotland, Halland, Härjedalen, Hälsingland, Lule lappmark, Norrbotten, Östergötland, Skåne, Småland, Södermanland, Uppland, Värmland, Västerbotten, and Västmanland (traps 2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 15, 17, 24, 25, 26, 27, 28, 30, 35, 37, 42, 43, 47, 49, 60, 1000, 1001, 1002, 1003, 1008).

**Collection dates:** 1 April to 19 September.

**Distribution:** Widespread in the Holarctic region, known from Sweden (KASPARYAN 1990).

***Adelognathus elongator* KASPARYAN, 1990**

**Material:** 1♀ Västmanland, Sala kommun, Västerfärnebo, Nötmyran (Östermyran), birches at Islingby, hay meadow, N 59°56.517' E 16°18.567', 4-18 August 2003 (Trap 11, Coll ID 412).

**Distribution:** Only known from the Eastern Palearctic region so far (KASPARYAN 1990).

***Adelognathus facialis* THOMSON, 1883**

No material has been found in SMTP so far.

**Distribution:** Palaearctic region (KASPARYAN 1990), known from Sweden/Norrland (THOMSON 1883).

***Adelognathus frigidus* HOLMGREN, 1883**

No material has been found in SMTP so far.

**Distribution:** Holarctic region, known from Sweden (ROMAN 1918, KASPARYAN 1986, KASPARYAN 1990).

***Adelognathus laevicollis* THOMSON, 1883**

**M a t e r i a l :** 1♀ from Skåne (trap 39).

**C o l l e c t i o n d a t e :** 26 May to 10 June.

**D i s t r i b u t i o n :** Western Palaearctic region (KASPARYAN 1990), known from Sweden (THOMSON 1883).

***Adelognathus longithorax* KASPARYAN, 1990**

**M a t e r i a l :** 2♀ ♀ from Torne lappmark (trap 50).

**C o l l e c t i o n d a t e :** 8 July to 5 August.

**D i s t r i b u t i o n :** Palaearctic region, known from Sweden (KASPARYAN 1990).

***Adelognathus marginellus* HOLMGREN, 1857**

**M a t e r i a l :** 2♀ ♀ and 1♂ from Dalarna, Södermanland, and Uppland (traps 8, 10, 30).

**C o l l e c t i o n d a t e s :** 20 May to 19 August.

**D i s t r i b u t i o n :** Western Palaearctic region, known from Sweden (HOLMGREN 1857, ROMAN 1918, KASPARYAN 1990).

***Adelognathus nigriceps* THOMSON, 1888**

**M a t e r i a l :** 10♀ ♀ and 1♂ from Öland, Småland, and Södermanland (traps, 1, 24, 1006, 1008).

**C o l l e c t i o n d a t e s :** 19 May to 27 June.

**D i s t r i b u t i o n :** Western Palaearctic region (KASPARYAN 1990), new for Sweden.

***Adelognathus nigrifrons* HOLMGREN, 1857**

**M a t e r i a l :** 21♀ ♀ and 2♂ ♂ from Lule lappmark, Öland, Skåne, Småland, Uppland, Värmland and Västerbotten (traps 17, 22, 24, 27, 37, 48, 55, 1000, 1001, 1003, 1008).

**C o l l e c t i o n d a t e s :** 31 May to 1 September.

**D i s t r i b u t i o n :** Holarctic region, known from Sweden (HOLMGREN 1857, KASPARYAN 1990).

***Adelognathus obscurus* KASPARYAN, 1986**

**M a t e r i a l :** 29♀ ♀ from Gotland, Hälsingland, Småland, Södermanland, and Uppland (traps 2, 5, 6, 7, 24, 27, 28, 43, 1001, 1008).

**C o l l e c t i o n d a t e s :** 17 May to 11 August.

**D i s t r i b u t i o n :** Western Palaearctic region, known from Sweden (KASPARYAN 1990).

***Adelognathus pallipes pallipes* (GRAVENHORST, 1829)**

syn. *Adelognathus ruthi* HOLMGREN, 1857.

**Material:** 18♀♀ and 3♂♂ from Blekinge, Öland, Skåne, Småland, Södermanland, and Uppland (traps 1, 8, 17, 22, 23, 37, 39, 1000, 1001, 1008).

**Collection dates:** 26 May to 12 September.

**Distribution:** Holarctic and Oriental regions, known from Sweden (HOLMGREN 1857, ROMAN 1918, KASPARYAN 1986, KASPARYAN 1990)

***Adelognathus pilosus* THOMSON, 1888**

**Material:** 18♀♀ and 4♂♂ from Gotland, Öland, Östergötland, Småland, Södermanland, and Uppland (traps 6, 12, 13, 18, 22, 27, 28, 2003, 2046).

**Collection dates:** 17 May to 8 September.

**Distribution:** Palaearctic region, known from Sweden (ROMAN 1918, KASPARYAN 1990).

***Adelognathus pumilio* HOLMGREN, 1857**

No material has been found in SMTP so far.

**Distribution:** Northern Europe, known from Sweden (HOLMGREN 1857, ROMAN 1918, KASPARYAN 1990).

***Adelognathus puncticollis* THOMSON, 1883**

**Material:** 1♀ from Norrbotten (trap 49).

**Collection date:** 21 July to 5 August.

**Distribution:** Western Palaearctic region, known from Sweden (THOMSON 1883, ROMAN 1918, KASPARYAN 1990).

***Adelognathus punctulatus* THOMSON, 1883**

syn. *Adelognathus pallipes* HOLMGREN, 1855 praeocc., syn. *Adelognathus dimidiatus* THOMSON, 1888.

**Material:** 63♀♀ and 16♂♂ from Angermanland, Blekinge, Dalarna, Norrbotten, Öland, Östergötland, Småland, Gotland, Halland, Skåne, Södermanland, Uppland, Värmland, and Västerbotten (traps 1, 3, 5, 7, 9, 10, 13, 15, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 37, 39, 44, 49, 59, 1000, 1001, 1002, 1003, 1008).

**Collection dates:** 28 April to 21 September.

**Distribution:** Holarctic region, known from Sweden (THOMSON 1883, ROMAN 1918, KASPARYAN 1990).

***Adelognathus pusillus* HOLMGREN, 1857**

**Material:** 6♀♀ from Lule lappmark, Lycksele lappmark, Norrbotten, and Småland (traps 46, 47, 49, 1000, 1001).

**Collection dates:** 27 June to 14 September.

**Distribution:** Holarctic region, known from Sweden (HOLMGREN 1857, ROMAN 1918, 1931, KASPARYAN 1990, KASPARYAN & KOPELKE 2009).

***Adelognathus rufithorax* KASPARYAN, 1990**

**M a t e r i a l :** 16♀ and 3♂ from Småland, Södermanland, Värmland, and Västerbotten (traps 1, 2, 3, 30, 51, 1001, 1003, and 2003).

**C o l l e c t i o n d a t e s :** 18 May-19 August.

**D i s t r i b u t i o n :** Palearctic region (KASPARYAN 1990), new for Sweden.

***Adelognathus stelfoxi* FITTON, GAULD & SHAW, 1982**

**M a t e r i a l :** 1♀ from Härjedalen, Härjedalens kommun, Sänfjället, Nyvallens fåbod, alpine birch and spruce wood, N62°19.001' E13°34.113' and 1♂ from Småland, Nybro kommun, Bäckebo, Grytsjöns naturreservat, old moisty haymaking meadow in forest edge (N 62° 11.678' E 15° 17.066').

**C o l l e c t i o n d a t e s :** 18 May to 4 August.

**D i s t r i b u t i o n :** Palearctic region (KASPARYAN 1990), new for Sweden.

***Adelognathus tenthredinarum* (GIRAUD, 1872)**

syn. *Adelognathus nigricornis* THOMSON, 1888.

**M a t e r i a l :** 8♀ and 3♂ from Angermanland, Hälsingland, Lule lappmark, Norbotten, Småland, and Södermanland (traps 30, 43, 44, 47, 49, 1000, 1001).

**C o l l e c t i o n d a t e s :** 18 May to 1 December.

**D i s t r i b u t i o n :** Palearctic region (KASPARYAN 1990), new for Sweden.

***Adelognathus tetratinctorius* (THUNBERG, 1824)**

syn. *Adelognathus scabriculus* THOMSON, 1883 and *Adelognathus fasciatus* THOMSON, 1883.

**M a t e r i a l :** 8♀ from Torne lappmark, Uppland, and Västerbotten (traps, 8, 50, 60).

**C o l l e c t i o n d a t e s :** 21 July to 7 September.

**D i s t r i b u t i o n :** Holarctic region, known from Sweden (THOMSON 1883, ROMAN 1918, 1931, FORSSLUND 1958, KASPARYAN 1990).

***Adelognathus thomsoni* SCHMIEDEKNECHT, 1911**

syn. *Adelognathus thuringiacus* SCHMIEDEKNECHT, 1911.

**M a t e r i a l :** 19♀ and 2♂ from Öland, Östergötland, Småland, Södermanland, Uppland, and Västerbotten (Traps 8, 9, 12, 13, 21, 22, 26, 27, 55, 1008).

**C o l l e c t i o n d a t e s :** 27 May to 7 September.

**D i s t r i b u t i o n :** Western Palearctic region, known from Sweden (THOMSON 1883 as *A. difformis*, SCHMIEDEKNECHT 1911, KASPARYAN 1990).

## Discussion

In the SMTP material, 26 (60%) of the 43 known Palaearctic taxa of *Adelognathus* HOLMGREN have been identified. For three species which had been recorded from Sweden in past surveys, no material was found in the SMTP so far.

The number of *Adelognathus* species found in the SMTP is quite variable for the different Swedish counties. The highest diversity was reported for the Southern and Southeastern parts of Sweden, for the Northern areas we documented lesser numbers of *Adelognathus* taxa (table 1). But as it had been shown by GASTON & GAULD (1993) and confirmed in this study, the number of different Ichneumonid species correlates quite strongly with the number of used traps ( $r=0.71$  in this study).

Therefore, we suggest that the diversity of *Adelognathus* could be much higher in the Swedish counties that have been less well studied yet. Since the Adelognathinae are parasitoids of sawflies, one can expect a close correlation to the diversity and abundance of their hosts.

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Authors' addresses:

Dr. Matthias RIEDEL  
Bärenbadstr. 11  
D-82487 Oberammergau, Germany  
E-Mail: [mamaflo.riedel@t-online.de](mailto:mamaflo.riedel@t-online.de)

Pelle MAGNUSSON  
Station Linné  
Ölands Skogsby 161  
SE-386 93 Färjestaden, Sweden

## Appendix: Locations of the SMTP traps

- Trap 1: Sö, Tyresö kommun, Åva, Spirudden, mixed coastal oak forest, N 59°10.313' E 18°22.197'.
- Trap 2: Sö, Haninge kommun, Tyresta, Ungfars mosse/bog, N 59°10.698' E 18°13.766'.
- Trap 3: Sö, Haninge kommun, Tyresta, Urskogesslingan, flat-rock and pine forest, N 59°10.608' E 18°14.816'.
- Trap 4: Sö, Haninge kommun, Tyresta, Urskogesslingan, Norway spruce wood w. blueberry, N 59°10.554' E 18°14.855'.
- Trap 5: Sö, Huddinge kommun, Sofielunds återvinningsanläggning, pine forest with garbage, N 59°10.592' E 17°59.631'.
- Trap 6: Up, Älvkarleby kommun, Marma skjutfält, dry meadow w. birch, N 60°31.456' E 17°27.089'.
- Trap 7: Up, Älvkarleby kommun, Båfors. pine forest w. blueberry, N 60°27.639' E 17°19.069'.
- Trap 8: Up, Håbo kommun, Biskops-Arnö. northern beach, elm grove, N 59°40.328' E 17°30.051'.
- Trap 9: Up, Knivsta kommun, Rickebasta alsumpskog, alder swamp wood, N 59° 44.061' E 17° 43.225'.
- Trap 10: Sr, Sätters kommun, Säterdalen, Näsåkerspussen, alder wood ravine, N 60°22'E 17°43'.
- Trap 11: Vs, Sala kommun, Västerfärnebo, Nötmyran (Östermyran), birches at Islingby, hay meadow, N 59°56.517' E 16°18.567'.
- Trap 12: Sö, Trosa kommun, Hungar Södergård nr 1, tall grass close to pile of manure behind stable, N 58°55.244' E 17°31.274'.
- Trap 13: Ög, Ödeshögs kommun, Omberg, Stocklycke äng. lime meadow, N 58°18.452' E 14°37.859'.
- Trap 15: Ög, Ödeshögs, Omberg, Storpissan, old Norway spruce wood, N 58°20.095' E 14°39.300'.
- Trap 16: Ög, Ödeshögs kommun, Omberg, Bokskogsreservatet. Beech forest N 58°17.831'E 14°38.089'.
- Trap 17: Sm, Gränna kommun, Lönneålen, next to old cellar in Norway spruce forest w. big harvested ashes, N 58°02.935' E 14°34.382'.
- Trap 18: Sm, Högsby kommun, Hornsö kronopark, birch fen, N 57°00.393' E 16°06.561'.
- Trap 20: Öl, Mörbylånga kommun, Södra lunden (Ottenby), military radar station, nemoral grove, N56°13.161' E16°25.341'.
- Trap 21: Öl, Mörbylånga kommun, Södra lunden (Ottenby), military radar station, nemoral groove, N 56°13.161' E 16°25.341'.

- Trap 22: Öl, Mörbylånga, Gamla Skogsby (Kakstad), "diversitetsängen", meadow with bushes, N 56°37.002' E 16°30.457'.
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**Table 1:** No of *Adelognathus* species found in different Swedish counties in the SMTP-Project

<b>County</b>	<b>No of traps</b>	<b>No of <i>Adelognathus</i> species</b>
Angermanland	1	3
Blekinge	1	3
Bohnslän	1	0
Dalarna	1	4
Gotland	2	7
Halland	3	2
Härjedalen	1	2
Häslingland	1	4
Lule lappmark	3	5
Lycksele lappmark	1	3
Norbotten	2	6
Öland	4	8
Östergötland	4	5
Skane	8	7
Södermannland	8	15
Smaland	7	18
Uppland	7	14
Torne lappmark	2	3
Västerbotten	10	6
Västergötland	1	0
Västmanland	1	3

## Buchbesprechung

ŚLIPIŃSKI A. & H.E. ESCALERA: **Australian Longhorn Beetles** (Coleoptera: Cerambycidae). Vol. 2, Subfamily Cerambycinae. – Commonwealth of Australia, CSIRO Publishing, Clayton South, VIC, Australia, 2016. 613 S.

Drei Jahre nach Erscheinen des 1. Bandes (2013) über die Unterfamilie Lamiinae, liegt nun mit den Cerambycinae Teil 2 der Australischen Bockkäfer vor. Die australischen Cerambycinae übertreffen die Lamiinae in der Artenzahl und in der Anzahl der Gattungen: 1250 Cerambycinae-Arten in 142 Gattungen stehen 536 Arten und 74 Gattungen der Lamiinae gegenüber. In diesem 2. Band werden 13 neue Gattungen beschrieben, 18 Gattungen neu synonymisiert und eine Reihe neuer Gattungskombinationen vorgeschlagen. Vom Aufbau her entspricht dieser 2. Band exakt dem ersten, er ist eben nur deutlich umfangreicher. Nach Abstract, Danksagung, Material & Methoden folgen 15 Bildtafeln mit Lebendfotos (in ihrem natürlichen Habitat) diverser Vertreter der Cerambycinae. Daran schließt sich ein kurzes Kapitel über Biologie und ökonomische Bedeutung an, eine Diagnose der Unterfamilie (adult, Larve) sowie 8 Bildtafeln über Morphologie und morphologische Details (inkl. Genitalstrukturen und REM-Aufnahmen des Kopfes) der Adulten und Larven. Auch der folgende, 11-seitige Bestimmungsschlüssel wird mit gegenübergestellten Merkmals-Tafeln illustriert. Die Auflistung und Beschreibung der Gattungen erfolgt alphabetisch und beinhaltet Diagnose, Beschreibung, Bemerkungen, biologische Daten (sofern vorhanden), Verbreitung und eine Liste der bekannten Arten, mit Vermerk zum Typenverbleib (die nicht erklärte Abkürzung "TL" könnte "Type Locality" bedeuten). Neu beschriebene Gattungen sind dabei farblich (hell grünlich) hinterlegt. Dieser taxonomische Teil umfasst etwa 300 Seiten, der sich anschließende Bildteil mit Vertretern der australischen Cerambycinae-Fauna zeigt Habitusfotos (z.T. Ober- und Unterseite) und morphologische Details auf ca. 240 Seiten. Literaturverzeichnis und Index schließen den Band ab.

Eine beachtliche Arbeit mit hervorragender Illustration, die in idealer Weise dazu beiträgt, die australische Entomofauna zu erschließen.

R. Gerstmeier

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Maximilian SCHWARZ, Konsulent f. Wissenschaft der Oberösterreichischen Landesregierung, Eibenweg 6, A-4052 Ansfelden, Austria; maximilian.schwarz@liwest.at.

Redaktion: Fritz GUSENLEITNER, Biologiezentrum Linz, f.gusenleitner@landesmuseum.at  
Roland GERSTMEIER, Lehrstuhl f. Zoologie, TU München, gerstmei@wzw.tum.de  
Thomas WITT, Tengstraße 33, D-80796 München, thomas@witt-thomas.com  
Berthold CLEWING, Akademischer Verlag München, avm@druckmedien.de  
Harald SULAK, Museum Witt München, h.sulak@atelier-sulak.de.

Mitarbeiter: Karin TRAXLER, Biologiezentrum Linz, bio.redaktion@landesmuseum.at  
Heike REICHERT, Museum Witt München, heike\_reichert66@web.de  
Erich DILLER, Zool. Staatssammlung München, erich.diller@zsm.mwn.de.

Adresse: Entomofauna, Redaktion und Schriftentausch Thomas WITT, c/o Museum Witt München,  
Tengstr. 33, 80796 München, Deutschland, thomas@witt-thomas.com;  
Entomofauna, Redaktion c/o Fritz GUSENLEITNER, Lungitzstr. 51, 4222 St. Georgen/Gusen,  
Austria, f.gusenleitner@landesmuseum.at.