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New taxonomic and faunistic data on  
*Agathidium* from South East Asia  
(Coleoptera: Leiodidae: Agathidiini)

By Fernando Angelini, Francavilla Fontana

With 32 figures

Summary

Descriptive and/or collecting data are presented for 28 species (138 specimens) of *Agathidium* found in South-East Asia and preserved in the Staatliches Museum für Naturkunde in Stuttgart. – New species: *Agathidium* (s. str.) *riedeli* n. sp. and *A.* (s. str.) *proximum* n. sp. from India (Uttar Pradesh), *A.* (*Euryceble*) *acridulum* n. sp. and *A.* (*Euryceble*) *leytense* n. sp. from the Philippines. – New records: *Agathidium barabbisense* Ang. & Dmz. from Himachal Pradesh; *A. garhwalense* Ang. & Dmz. from Tamil Nadu – doubtful provenance; *A. luctuosum* Ang. & Dmz. – doubtful determination – and *A. carinense* Ang. from Sumatra; *A. indefinitum* Ang. & Dmz., *A. quadrimaculatum* Ang. & Dmz. and *A. argutum* Ang. & Dmz. from Sarawak; *A. crockerense* Ang. & Dmz. and *A. hammondi* Ang. & Coot. from the Philippines.

Zusammenfassung

Von 28 Arten (138 Exemplare) der Gattung *Agathidium* aus Südost-Asien werden neue taxonomische und faunistische Daten geliefert. Hinsichtlich der neu beschriebenen Arten und der neuen faunistischen Nachweise siehe „Summary“.

1. Introduction, material and acknowledgments

I present here further distributional and taxonomic data on *Agathidium* from South-East Asia. They arise from the study of 138 specimens, representing 28 species, collected by A. RIEDEL (Munich), J. TRAUTNER, K. GEIGENMÜLLER (both Filderstadt) and Dr. W. SCHAWALLER in:

- 5 localities in India, Uttar Pradesh: 23 specimens, 5 species, leg. RIEDEL;
- 1 locality in India, Himachal Pradesh: 10 specimens, 1 species, leg. RIEDEL;
- 3 localities in India, Tamil Nadu and Kerala: 26 specimens, 3 species, leg. RIEDEL;
- 3 localities in Malaysia, Malaya: 10 specimens, 4 species, leg. RIEDEL;
- 1 locality in Thailand; 8 specimens, 3 species, leg. TRAUTNER & GEIGENMÜLLER;
- 1 locality in Viet Nam: 1 specimen, 1 species, leg. MEDVEDEV & GOLOVATICH;



- 7 localities in Indonesia (Sumatra, Sarawak): 22 specimens, 9 species, leg. RIEDEL;  
 – 2 localities in the Philippines (Leyte Island): 36 specimens, 5 species, leg. SCHAWALLER & TRAUTNER.

### Material

This material includes:

- a) 4 new species: *Agathidium* (s. str.) *riedeli* n. sp. and *A.* (s. str.) *proximum* n. sp. from India (Uttar Pradesh), *A.* (*Euryceble*) *acridulum* n. sp. and *A.* (*Euryceble*) *leytense* n. sp. from the Philippines.  
 b) 9 species newly recorded for: India, Himachal Pradesh: *Agathidium barabbisense* Ang. & Dmz.; – India, Tamil Nadu: *A. garhwalense* Ang. & Dmz. (doubtful provenance); – Sumatra: *A. luctuosum* Ang. & Dmz. (doubtful determination) and *A. carinense* Ang.; – Sarawak: *A. indefinitum* Ang. & Dmz., *A. quadrimaculatum* Ang. & Dmz. and *A. argutum* Ang. & Dmz.; – Philippines: *A. crockerense* Ang. & Dmz. and *A. hammondi* Ang. & Coot.

The treated material is deposited in the Staatliches Museum für Naturkunde in Stuttgart (SMNS) and ANGELINI's collection (AC).

### Acknowledgments

I thank Dr. WOLFGANG SCHAWALLER (Stuttgart) allowing me to study the material and my friend JONATHAN COOTER (Hereford, England) for reading the manuscript.

## 2. Species list

### 2.1. *Agathidium* (s. str.) sp. prope *luctuosum* Ang. & Dmz.

*Agathidium* (s. str.) *luctuosum* Angelini & De Marzo, 1993: 430.

**Material:** Indonesia, W Sumatra, Bukittinggi, Lembah Anai, 800 m, 16. X. 1991, leg. RIEDEL, 1 ♀ (SMNS).

**Discussion:** These new specimens differ from the type series in having a more superficial microreticulation on head and pronotum and in the colour of the antennae, with segments 1–8 testaceous; the spermathecae are very similar. The attribution of this specimen to *A. luctuosum* Ang. & Dmz. is for these reasons doubtful.

**Distribution:** Malaysia (Sabah), ? Indonesia (Sumatra). New record from Indonesia (Sumatra).

### 2.2. *Agathidium* (s. str.) *wheeleri* Ang.

*Agathidium* (s. str.) *wheeleri* Angelini, 1990: 244; ANGELINI & DE MARZO, 1993: 434.

**Material:** Indonesia, W Sumatra, Bukittinggi, Panti, 700 m, 25.–26. X. 1991, leg. RIEDEL, 1 ♀ (SMNS); – Bukittinggi, Batang, Palupuh, 1000–1500 m, 19. X. 1991, leg. RIEDEL, 1 ♀ (AC).

**Discussion:** The new specimens agree in all characters to the types.

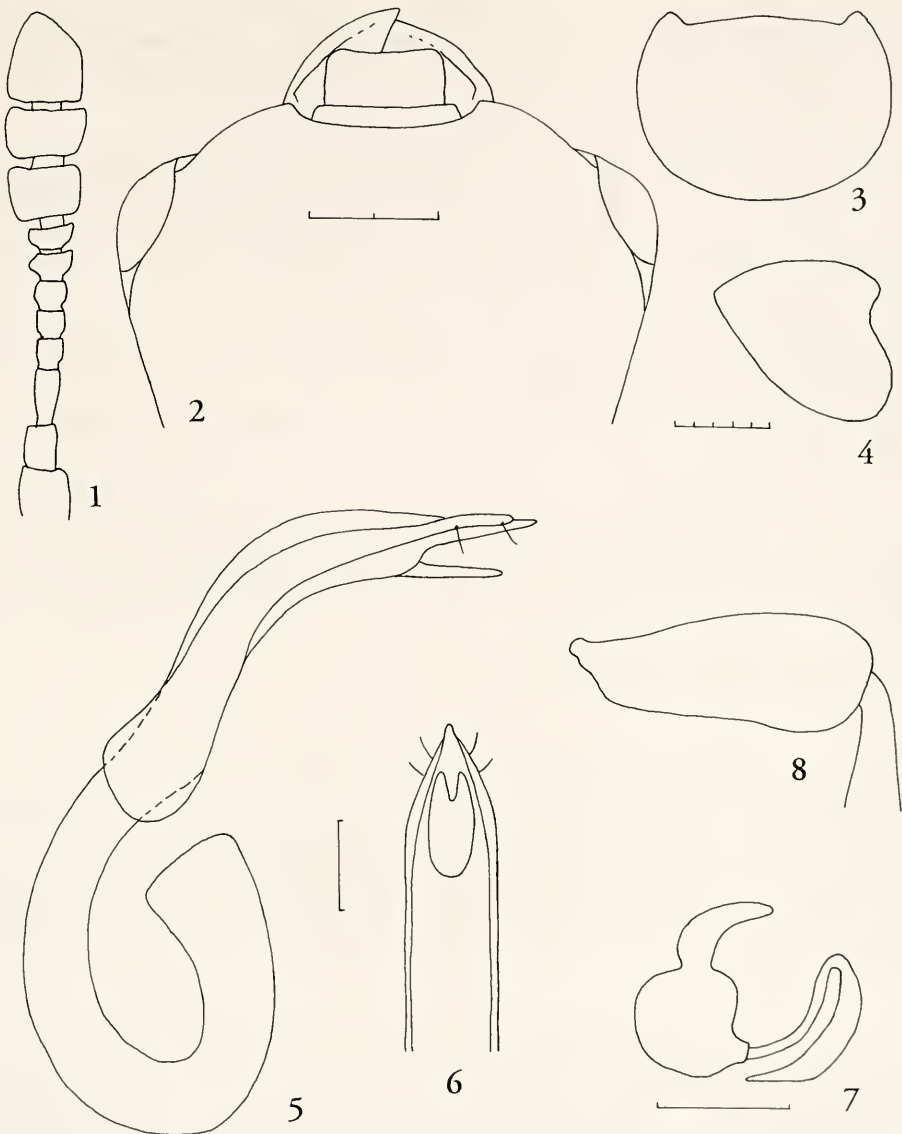
**Distribution:** Indonesia (Sumatra), Malaysia (Malaya).

### 2.3. *Agathidium* (s. str.) *riedeli* n. sp. (Figs. 1–8)

**Holotype** ♂: India, Uttar Pradesh, Rishikesh, Laxman Bridge, 3.–4. VII. 1989, leg. RIEDEL (SMNS).

**Paratypes:** Same data as holotype, 2 ♀♀ (SMNS), 1 ♂ and 1 ♀ (AC).

**Description:** Length 2.85–2.90 mm (holotype ♂: 2.90 mm). Dorsum dark reddish-brown, or black with lighter sides, venter dark reddish-brown, mesosternum



Figs. 1-8. *Agathidium* (s. str.) *riedeli* n. sp. - 1. Antenna; - 2. head; - 3-4. pronotum in dorsal and lateral view; - 5-6. apex of aedeagus in lateral and ventral view; - 7. spermatheca; - 8. male hind femora. - Scale in Figs. 1, 2, 8 = 0.2 mm, in 3, 4 = 0.5 mm, in 5, 6, 7 = 0.1 mm.

lighter; antennae uniformly testaceous; legs reddish-brown, microsculpture absent, or only vague traces on elytra; puncturation fine and sparse on whole dorsum.

Head: Punctures small, superficial, spaced from each other by 3-6 times their own diameter. Widest at eyes; antero-lateral margins raised; eyes suboblong; clypeal margin moderately excavate (fig. 2); clypeal line absent. 3rd antennal segment 1.35 times as long as the 2nd and as long as 4th+5th together (fig. 1).

Pronotum: Punctures a little smaller and more superficial than those of the head, spaced from each other by 5–10 times their own diameter. 1.51 times as broad as head, moderately broader than long ( $W/L = 1.54$ ) and moderately convex ( $W/H = 1.60$ ); anterior margin slightly curved (fig. 3); lateral outline broadly curved (fig. 4). Holotype: length 0.88 mm, width 1.36 mm, height 0.85 mm.

Elytra: Microreticulation absent, or only vague traces; punctures small and superficial as on pronotum, but spaced from each other by 1–10 times their own diameter, a few larger punctures are interspersed. Nearly as broad as pronotum, moderately longer than broad ( $W/L = 0.92$ ) and moderately convex ( $W/H = 1.73$ ); lateral outline with very weak humeral angle; sutural striae absent. Holotype: length 1.40 mm, width 1.30 mm, height 0.75 mm.

Metathoracic wings: present. Meso- and metasternum: median carina clear, lateral lines absent, femoral lines incomplete.

Legs: Male hind femora untoothed (fig. 8). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figs. 5–6.

Spermatheca as in fig. 7.

Discussion: *A. riedeli* n. sp. (*madurensis* group) is very similar to *A. brahmano* Ang. & Dmz. (1986: 430, Assam) and *A. separatum* Ang. (1991: 167, Burma) in antenna colour, body length, ratio 3rd/2nd of antennal segments; the characters displayed by the aedeagus are markedly different from those of *brahmano* and *separatum*.

Distribution: India (Uttar Pradesh).

#### 2.4. *Agathidium* (s. str.) *barabbisense* Ang. & Dmz.

*Agathidium* (s. str.) *barabbisense* Angelini & De Marzo, 1985: 51.

Material: India, Himachal Pradesh, Simla, Kufri, 16. IV. 1989, leg. RIEDEL, 2 ♂♂ and 1 ♀ (SMNS); – same locality, 16. VII. 1989, 3 ♂♂ and 2 ♀♀ (SMNS), 1 ♂ and 1 ♀ (AC).

Discussion: These new specimens agree fully with the description of the types.

Distribution: India (Himachal Pradesh), Nepal. New record for India (Himachal Pradesh).

#### 2.5. *Agathidium* (s. str.) *kashmirensis* Ang. & Dmz.

*Agathidium* (s. str.) *kashmirensis* Angelini & De Marzo, 1981: 238; 1983: 9; 1985: 54; ANGELINI & STEPHENSON, 1990: 121.

Material: India, Uttar Pradesh, Mussorie, Dhanolti, 2250 m, 11. VII. 1989, leg. RIEDEL, 1 ♂ and 3 ♀♀ (SMNS), 1 ♂ (AC); – same locality, 2500 m, 12. VII. 1989, leg. RIEDEL, 1 ♀ (SMNS); – same locality, 2250 m, 11.–13. VII. 1989, leg. RIEDEL, 1 ♂ (SMNS).

Discussion: These new specimens agree fully with the description of the types, except in the colour of the dorsum, which is dark reddish-brown or black.

Distribution: India (Kashmir, Himachal Pradesh, Uttar Pradesh, Kumaon, Garhwal).

#### 2.6. *Agathidium* (s. str.) *garhwalense* Ang. & Dmz.

*Agathidium* (s. str.) *garhwalense* Angelini & De Marzo, 1983: 158.

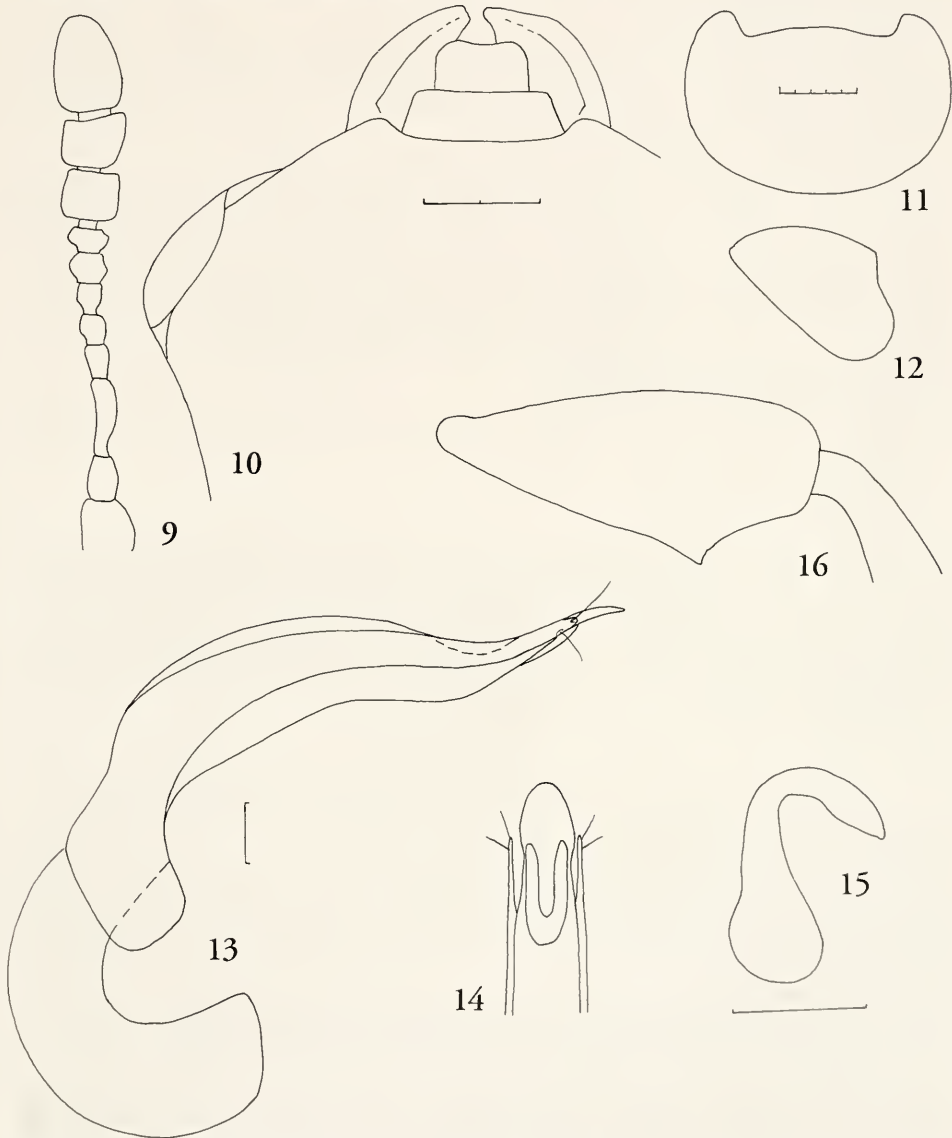
Material: India, Tamil Nadu, Mysore, Pykara, Octakamund, 2100 m, 20.–21. VIII. 1989, leg. RIEDEL, 4 ♂♂ and 6 ♀♀ (SMNS), 1 ♂ and 1 ♀ (AC).

**Discussion:** These new specimens agree fully with the description of the types.  
**Distribution:** India (Uttar Pradesh, Garhwal, Tamil Nadu). Possible new record from Tamil Nadu (decentralized locality, could be a labelling error).

2.7. *Agathidium* (s. str.) *proximum* n. sp. (Figs. 9–16)

**Holotype** ♂: India, Uttar Pradesh, Joshimat, Ghangaria, 2700 m, 4. VIII. 1989, leg. RIEDEL (SMNS).

**Paratypes:** Same data as holotype, 1 ♀ (SMNS), 1 ♀ (AC).



Figs. 9–16. *Agathidium* (s. str.) *proximum* n. sp. – 9. Antenna; – 10. head; – 11–12. pronotum in dorsal and lateral view; – 13–14. apex of aedeagus in lateral and ventral view; – 15. spermatheca; – 16. male hind femora. – Scale in Figs. 9, 10, 16 = 0.2 mm, in 11, 12 = 0.5 mm, in 13, 14, 15 = 0.1 mm.

**Description:** Length 3.2–3.4 mm (holotype ♂: 3.4 mm). Whole dorsum dark reddish-brown; venter reddish-brown, mesosternum testaceous; antennae uniformly testaceous; legs reddish-brown. Microreticulation superficial but uniform only on elytra; punctures small and superficial on head and pronotum, nearly absent on elytra.

**Head:** Punctures small, well impressed, spaced from each other by 1–5 times their own diameter. Widest at eyes (fig. 10); eyes suboblong; clypeus sharply excavated; clypeal line absent. 3rd antennal segment 1.75 times as long as the 2nd and longer than 4th+5th together (fig. 9).

**Pronotum:** Punctuation as that of head. 1.37 times as broad as head, moderately broader than long ( $W/L = 1.70$ ) and a little convex ( $W/H = 1.88$ ). Anterior margin slightly curved (fig. 11); lateral outline broadly curved (fig. 12). Holotype: length 1.00 mm, width 1.70 mm, height 0.90 mm.

**Elytra:** Microreticulation superficial but uniform on whole surface, long and irregular furrow interposed; punctures smaller and more superficial than on head, hardly visible, spaced from each other by 5–15 times their own diameter. Just a little broader than pronotum, slightly broader than long ( $W/L = 1.10$ ) and slightly convex ( $W/H = 1.87$ ); lateral outline with broadly rounded humeral angle; sutural striae absent. Holotype: length 1.50 mm, width 1.65 mm, height 0.88 mm.

**Metathoracic wings present.** Meso- and metasternum: median carina clear, lateral lines absent, femoral lines incomplete.

**Legs:** Male hind femora with a large tooth at posterior margin (fig. 16). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figs. 13–14.

Spermatheca as in fig. 15.

**Discussion:** *Agathidium proximum* n. sp. (*laevigatum* group) is very similar to *A. rufifrons* Ang. & Dmz. (1985: 60, Nepal) in possessing superficial microreticulation on elytra and in length ratio 3rd/2nd antennal segments; it differs in body length, lighter colour of dorsum, lower width ratio of pronotum/head and presence of metathoracic wings.

**Distribution:** India (Uttar Pradesh).

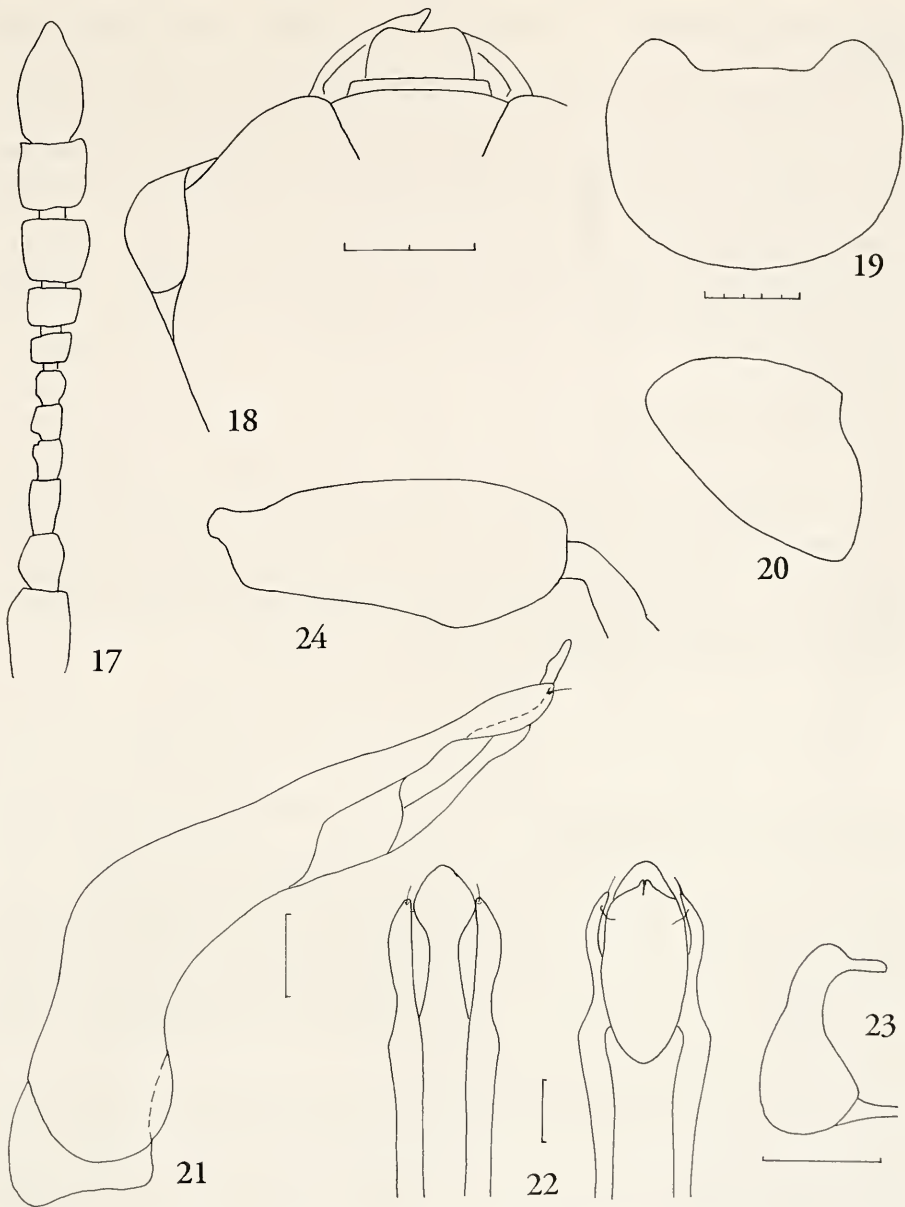
### 2.8. *Agathidium (Euryceble) acridulum* n. sp. (Figs. 17–24)

**Holotype** ♂: Philippines, Leyte, Lake Danao, forest edge, 500 m, 19. II.–8. III. 1991, leg. SCHAWALLER & TRAUTNER (SMNS).

**Paratypes:** Same data as holotype, 1 ♂ (SMNS), 1 ♂ and 1 ♀ (AC); – Leyte, Visca N Baybay, primary forest, 200–500 m, 22. II.–10. III. 1991, leg. SCHAWALLER & TRAUTNER, 1 ♂ (SMNS); – Leyte, Visca N Baybay, cultivated land, 22. II.–10. III. 1991, leg. SCHAWALLER & TRAUTNER, 1 ♂ (SMNS).

**Description:** Length 3.0–3.2 mm (holotype ♂: 3.1 mm). Dorsum dark reddish-brown, elytra in some paratypes with black veining, venter reddish-brown, mesosternum lighter; antennae with segments 7–10 darker; legs reddish-brown. Head distinctly wrinkled, pronotum with superficial microreticulation, elytra with traces of microreticulation; punctuation fine and sparse on whole dorsum.

**Head:** Wrinkles clear but superficial on whole dorsum; punctures small, superficial, spaced from each other by 1–20 times their own diameter. Widest at eyes (fig. 18); eyes protuberant; antero-lateral margins distinctly raised; clypeal margin weak-



Figs. 17-24. *Agathidium (Euryceble) acridulum* n. sp. - 17. Antenna; - 18. head; - 19-20. pronotum in dorsal and lateral view; - 21-22. apex of aedeagus in lateral view and dorsal/ventral view; - 23. spermatheca; - 24. male hind femora. - Scale in Figs. 17, 18, 24 = 0.2 mm, in 19, 20 = 0.5 mm, in 21, 22, 23 = 0.1 mm.

ly excavate; one large fovea and a short groove at each side of clypeus. 3rd antennal segment as long as the 2nd and shorter than 4th+5th together (fig. 17).

Pronotum: Microreticulation superficial and uniform; punctures small, superficial, as on head. 1.6 times as broad as head, moderately broader than long ( $W/L = 1.40$ ) and very convex ( $W/H = 1.40$ ); anterior margin weakly curved (fig. 19); lateral

outline broadly curved (fig. 20). Holotype: length 1.10 mm, width 1.54 mm, height 1.10 mm.

Elytra: Microreticulation absent, or only vague traces; punctures just a little larger than those of head, superficial, spaced from each other by 1–20 times their own diameter. As broad as pronotum, moderately broader than long ( $W/L = 1.10$ ) and very convex ( $W/H = 1.47$ ); lateral outline with weak humeral angle; sutural striae absent. Holotype: length 1.40 mm, width 1.55 mm, height 1.05 mm.

Metathoracic wings present, short, longer than elytra. Meso- and metasternum: median carina clear, lateral lines absent, femoral lines incomplete, short; a small tubercle between the metacoxae.

Legs: Male hind femora widened at posterior margin (fig. 24). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figs. 21–22.

Spermatheca as in fig. 23.

**Discussion:** *A. acridulum* n. sp. is very similar to *A. montuosum* Ang. & Dmz. (1993: 438, Sumatra) and *A. leytense* n. sp. in possessing a short groove at each side of clypeus; it differs from *A. montuosum* by the lesser length ratio of 3rd/2nd antennal segments, by the head entirely wrinkled and pronotum with microreticulation; from *leytense* n. sp. it differs by the lesser length ratio of 3rd/2nd antennal segments, colour of the antennae and antennal club of the three segments.

**Distribution:** Philippines (Leyte Island).

### 2.9. *Agathidium (Euryceble) leytense* n. sp. (Figs. 25–32)

Holotype ♂: Philippines, Leyte, Lake Danao, forest edge, 500 m, 19. II.–8. III. 1991, leg. SCHAWALLER & TRAUTNER (SMNS).

Paratypes: Same data as holotype, 1 ♂ and 4 ♀♀ (SMNS), 2 ♂♂ and 1 ♀ (AC).

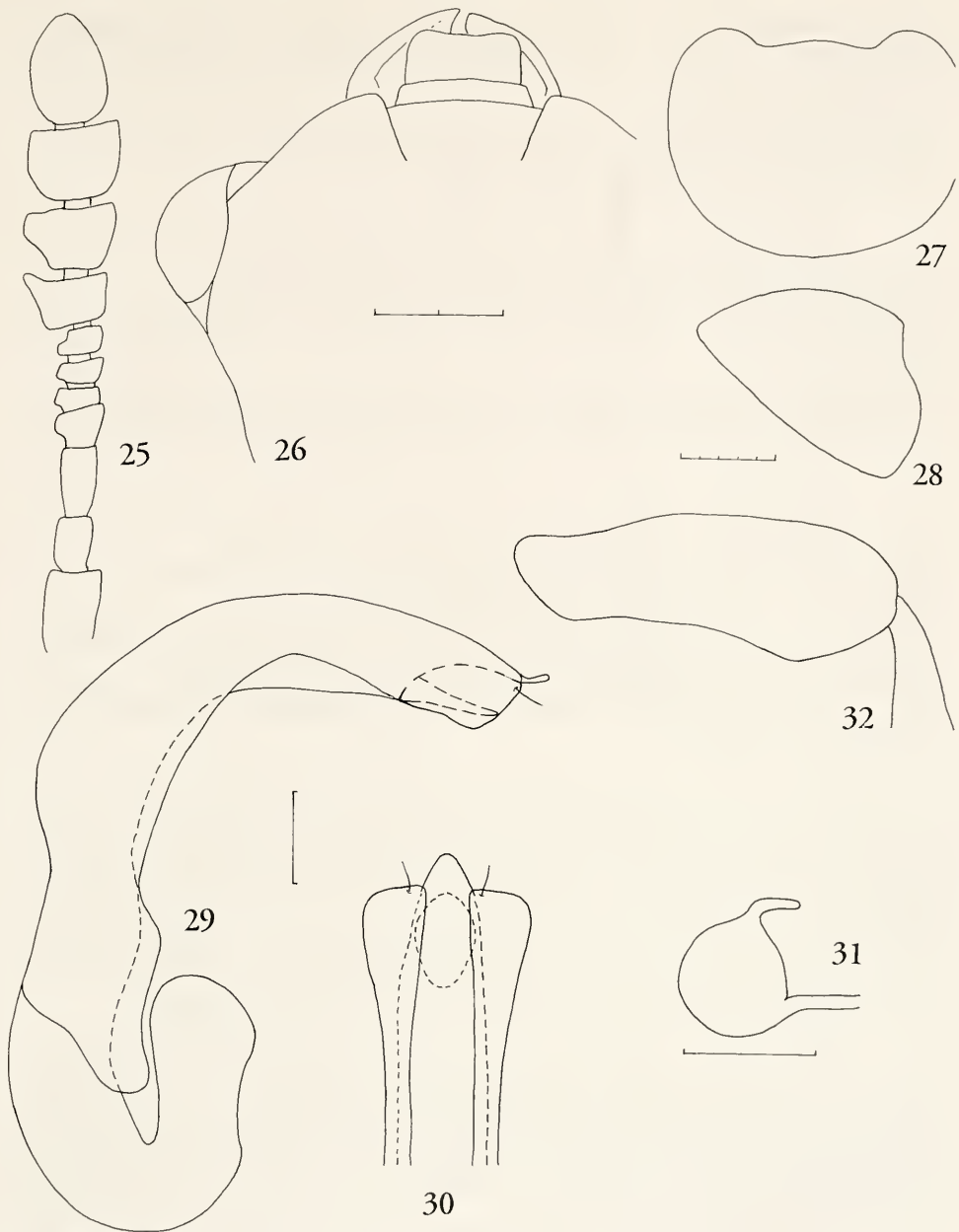
**Description:** Length 3.10–3.35 mm (holotype ♂: 3.30 mm). Dorsum dark reddish-brown, elytra in some paratypes with black veining or black and with sides lighter, venter reddish-brown, mesosternum lighter; antennal club of 4 segments; antennal segments 4–7 or 4–9 darker; legs reddish-brown. Head distinctly wrinkled, pronotum with superficial microreticulation, elytra with traces of microreticulation; puncturation fine and sparse on whole dorsum.

Head: Wrinkles clear but superficial, more impressed on clypeus; punctures small, superficial, spaced from each other by 2–6 times their own diameter. Widest at eyes; eyes protuberant (fig. 26); antero-lateral margins distinctly raised; clypeal margin weakly excavate; one large fovea and a short groove at each side of clypeus. 3rd antennal segment 1.4 times as long as the 2nd and longer than 4th+5th together (fig. 25).

Pronotum: Microreticulation superficial and uniform; punctures small and superficial as on head but spaced from each other by 4–6 times their own diameter. 1.48 times as broad as head, moderately broader than long ( $W/L = 1.40$ ) and very convex ( $W/H = 1.49$ ), anterior margin weakly curved (fig. 27); lateral outline broadly curved (fig. 28). Holotype: length 1.12 mm, width 1.57 mm, height 1.05 mm.

Elytra: Microreticulation absent or only vague traces; punctures very small, superficial, spaced from each other by 6–10 times their own diameter. Slightly broader than pronotum, moderately broader than long ( $W/L = 1.06$ ) and moderately convex





Figs. 25–32. *Agathidium (Euryceble) leytense* n. sp. – 25. Antenna; – 26. head; – 27–28. pronotum in dorsal and lateral view; – 29–30. apex of aedeagus in lateral and dorsal view; – 31. spermatheca; – 32. male hind femora. – Scale in Figs. 25, 26, 32 = 0.2 mm, in 27, 28 = 0.5 mm, in 29, 30, 31 = 0.1 mm.

(W/H = 1.77); lateral outline with weak humeral angle; sutural striae absent. Holotype: length 1.50 mm, width 1.60 mm, height 0.90 mm.

Metathoracic wings present. Meso- and metasternum: median carina weak, lateral lines absent, femoral lines incomplete, short; a small tubercle between the metacoxae.

Legs: Male hind femora widened at posterior margin (fig. 32). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figs. 29-30.

Spermatheca as in fig. 31.

Discussion: See discussion of *A. acridulum* n. sp.

Distribution: Philippines (Leyte Island).

#### 2.10. *Agathidium (Microceble) indefinitum* Ang. & Dmz.

*Agathidium (Microceble) indefinitum* Angelini & De Marzo, 1993: 452.

Material: Malaysia, Sarawak, Kuching, Santubong, 26. III. 1990, leg. RIEDEL, 1 ♂ (SMNS).

Discussion: This new specimen agrees fully with the description of the types.

Distribution: Malaysia (Sabah, Sarawak). New record for Sarawak.

#### 2.11. *Agathidium (Microceble) crockerense* Ang. & Dmz.

*Agathidium (Microceble) crockerense* Angelini & De Marzo, 1993: 458.

Material: Philippines, Leyte, Visca, N Baybay, primary forest, 200-300 m, 2.-10. III. 1991, leg. SCHAWALLER & TRAUTNER, 2 ♂♂ (SMNS), 1 ♀ (AC).

Discussion: These new specimens agree fully with the description of the types, except in colour of dorsum which is uniformly dark reddish-brown.

Distribution: Malaysia (Sabah), Indonesia (Sumatra, Java), Philippines. New record for the Philippines.

#### 2.12. *Agathidium (Microceble) quadrimaculatum* Ang. & Dmz.

*Agathidium (Microceble) quadrimaculatum* Angelini & De Marzo, 1993: 460.

Material: Malaysia, Sarawak, Kuching, Santubong, 26. III. 1990, leg. RIEDEL, 1 ♂ (SMNS).

Discussion: This new specimen differs from the types in colour of dorsum, which is uniformly black, without reddish-brown spots.

Distribution: Malaysia (Sabah, Sarawak). New record for Sarawak.

#### 2.13. *Agathidium (Microceble) abiectum* Ang. & Dmz.

*Agathidium (Microceble) abiectum* Angelini & De Marzo, 1993: 464.

Material: Indonesia, W Sumatra, Bukittinggi, Batang, Palupuh, 1000-1500 m, 19. X. 1991, leg. RIEDEL, 3 ♂♂ and 1 ♀ (SMNS), 1 ♂ and 1 ♀ (AC); - Bukittinggi, Gunong Singgalang, 2100-2600 m, 16. X. 1990, leg. RIEDEL, 1 ♀ (SMNS).

Discussion: These new specimens differ from the types in possessing a superficial microreticulation on head and pronotum (only traces in types); length 2.20-2.50 mm.

Distribution: Indonesia (Sumatra).

#### 2.14. *Agathidium (Microceble) darbyi darbyi* Ang. & Coot.

*Agathidium* (s. str.) *darbyi* Angelini & Cooter, 1985: 132.

*Agathidium (Microceble) darbyi*: ANGELINI & DE MARZO, 1986: 453.

*Agathidium (Microceble) darbyi darbyi*: ANGELINI & DE MARZO, 1993: 470.

**Material:** Indonesia, W Sumatra, Bukittinggi, Panti, 700 m, 25.–26. X. 1991, leg. RIEDEL, 1 ♂ and 1 ♀ (SMNS); – Philippines, Leyte, Lake Danao, forest edge, 500 m, 19. II.–8. III. 1991, leg. SCHAWALLER & TRAUTNER, 2 ♂♂ and 7 ♀♀ (SMNS), 1 ♂ and 1 ♀ (AC).

**Discussion:** These new specimens agree fully with the description of the types.

**Distribution:** Indonesia (Sumatra), Malaysia (Sarawak, Sabah), Philippines.

### 2.15. *Agathidium (Microceble) carinense* Ang.

*Agathidium (Microceble) carinense* Angelini, 1992b: 205.

**Material:** Indonesia, W Sumatra, Bukittinggi, Batang, Palupuh, 1400–1500 m, 19. X. 1991, leg. RIEDEL, 1 ♀ (SMNS); – Bukittinggi, Panti, 700 m, 25.–26. X. 1991, leg. RIEDEL, 1 ♀ (SMNS), 2 ♀♀ (AC).

**Discussion:** *A. carinense* Ang. was described on the basis of a single ♀; the new specimens agree fully with the description of the type; length 3.30–3.55 mm, elytra with traces of microreticulation.

**Distribution:** Burma, Indonesia (Sumatra). New record for Indonesia (Sumatra).

### 2.16. *Agathidium (Microceble) argutum* Ang. & Dmz.

*Agathidium (Microceble) argutum* Angelini & De Marzo, 1993: 470.

**Material:** Malaysia, Sarawak, Belaga Distr., Long Lihau, 17.–21. III. 1990, leg. RIEDEL, 1 ♀ (SMNS).

**Discussion:** This new specimen agrees fully with the description of the types.

**Distribution:** Malaysia (Sabah, Sarawak). New record for Sarawak.

### 2.17. *Agathidium (Microceble) fumosum* Ang. & Dmz.

*Agathidium (Microceble) fumosum* Angelini & De Marzo, 1993: 479.

**Material:** Indonesia, W Sumatra, Medan, Kabanjahe, Gunong Sinabung, 2000 m, 7.–8. X. 1990, leg. RIEDEL, 2 ♀♀ (SMNS), 1 ♂ and 1 ♀ (AC).

**Discussion:** These new specimens agree fully with the description of the types.

**Distribution:** Indonesia (Sumatra).

### 2.18. *Agathidium (Microceble) maculicolle* Champ.

*Agathidium maculicolle* Champion, 1924: 161; HATCH, 1929: 81.

*Agathidium* (s. str.) *maculicolle*: ANGELINI & DE MARZO, 1985: 69.

*Agathidium (Microceble) maculicolle*: ANGELINI & DE MARZO, 1986: 454.

**Material:** India, Uttar Pradesh, Mussorie, Rabbit Farm, 1300 m, 10. VII. 1989, leg. RIEDEL, 3 ♂♂ (SMNS), 1 ♂ and 1 ♀ (AC); – Mussorie, 1300 m, 9.–10. VII. 1989, leg. RIEDEL 1 ♂ (SMNS).

**Discussion:** These new specimens agree fully with the redescription of the types (ANGELINI & DE MARZO, 1985: 69).

**Distribution:** India (Uttar Pradesh, Kumaon).

### 2.19. *Agathidium (Microceble)* sp. prope *laticorne* Port.

*Agathidium (Cyphocele) laticorne* Portevin, 1922: 58.

*Agathidium* (s. str.) *laticorne*: HATCH, 1929: 66; HLISNIKOVSKY, 1964: 200; ANGELINI & DE MARZO, 1983: 162.

*Agathidium (Microceble) laticorne*: ANGELINI & DE MARZO, 1986: 442.

**Material:** India, Uttar Pradesh, Rishikesh, Laxman Bridge, 3.–4. VII. 1989, leg. RIEDEL, 1 ♀ (SMNS), 1 ♂ (AC); – Thailand, Amphoe Chiang Dao, Doi Chiang Dao, 1700 m, 9. I. 1989, leg., TRAUTNER & GEIGENMÜLLER, 3 ♂♂ and 1 ♀ (SMNS), 1 ♂ and 1 ♀ (AC).

**Discussion:** The specimens from Thailand are similar to the types in external characters and aedeagus but they differ in shape of the spermatheca (see ANGELINI & DE MARZO, 1989: 471, fig. 34); the ♂ of Uttar Pradesh differs in having the aedeagus narrower at the middle, the spermatheca and external characters are similar to the type.

**Distribution:** Pakistan, India (Assam, Meghalaya, Darjeeling, Orissa, Uttar Pradesh, Garhwal, Kumaon, Kerala, Tamil Nadu), Sri Lanka, Nepal, Bhutan, Thailand, Viet Nam, Malaysia (Malaya, Singapore, Sarawak, Sabah), Indonesia (Java, Sumatra).

#### 2.20. *Agathidium (Microceble) saundersi* Ang. & Cooter

*Agathidium* (s. str.) *saundersi* Angelini & Cooter, 1986: 37.

*Agathidium (Microceble) saundersi*: ANGELINI & DE MARZO, 1986: 454.

**Material:** Viet Nam, Vinh-Phu Prov., Tamdao, 800–1200 m, 12.–22. IV. 1986, leg. MEDVEDEV & GOLOVATCH, 1 ♀ (AC); – Malaysia, Malaya, Taiping, Maxwell Hill, 10. IV. 1990, leg. RIEDEL, 1 ♀ (SMNS).

**Discussion:** These new specimens agree fully with the description of the types.

**Distribution:** Malaysia (Malaya, Singapore), Viet Nam.

#### 2.21. *Agathidium (Microceble) manasicum* Ang. & Dmz.

*Agathidium (Microceble) manasicum* Angelini & De Marzo, 1986: 445; 1989: 477; ANGELINI 1992a: 209.

**Material:** Thailand, Amphoe Chiang Dao, 1700 m, 9. I. 1989, leg. TRAUTNER & GEIGENMÜLLER, 1 ♂ (SMNS).

**Discussion:** This new specimen agrees fully with the description of the types.

**Distribution:** India (Assam), Thailand.

#### 2.22. *Agathidium (Microceble) infuscatum* Ang. & Dmz.

*Agathidium (Microceble) infuscatum* Angelini & De Marzo, 1989: 473; ANGELINI 1992a: 209.

**Material:** Thailand, Amphoe Chiang Dao, Doi Chiang Dao, 1700 m, 9. I. 1989, leg. TRAUTNER & GEIGENMÜLLER, 1 ♂ (SMNS).

**Discussion:** This new specimen agrees fully with the description of the types.

**Distribution:** Thailand.

#### 2.23. *Agathidium (Microceble) hammondi* Ang. & Cooter

*Agathidium* (s. str.) *hammondi* Angelini & Cooter, 1985: 130.

*Agathidium (Microceble) hammondi*: ANGELINI & DE MARZO, 1986: 454; 1993: 487; ANGELINI 1992b: 212.

**Material:** Philippines, Leyte, Lake Danao, forest edge, 500 m, 19. II.–8. III. 1991, leg. SCHAWALLER & TRAUTNER, 1 ♂ and 1 ♀ (SMNS), 1 ♂ (AC).

**Discussion:** These new specimens agree fully with the description of the types.

**Distribution:** Malaysia (Singapore, Sarawak, Sabah), Indonesia (Sumatra), Philippines. New record for Philippines.

2.24. *Agathidium (Microceble) mussardi* Ang. & Dmz.

*Agathidium (Microceble) mussardi* Angelini & De Marzo, 1986: 449.

Material: Kerala, Thekkady, Peryar V. L. S., 2. IX. 1989, leg. RIEDEL, 6 ♂♂ and 4 ♀♀ (SMNS), 2 ♂♂ and 1 ♀ (AC).

Discussion: These new specimens agree fully with the description of the types.  
Distribution: India (Kerala and Tamil Nadu).

2.25. *Agathidium (Microceble) andrewesi* Port.

*Agathidium (Cyphoceble) andrewesi* Portevin, 1907: 254; 1926: 81; 1928: 32.

*Agathidium (s. str.) andrewesi*: HATCH, 1929: 66; HLISNIKOVSKY, 1964: 202.

*Agathidium (Microceble) andrewesi*: ANGELINI & DE MARZO, 1986: 451.

Material: India, Tamil Nadu, Kodaikanal, Munnar, 28. VIII. 1989, leg. RIEDEL, 1 ♂ (SMNS).

Discussion: This new specimen agrees fully with the redescription of the types.

Distribution: India (Kerala, Tamil Nadu).

2.26. *Agathidium (Macroceble) malayanum* Ang. & Dmz.

*Agathidium (s. str.) malayanum* Angelini & De Marzo, 1986: 429.

Material: Malaysia, Malaya, Cameron Highland, Gunong Jasar, 4. IV. 1990, leg. RIEDEL, 1 ♂ (SMNS).

Discussion: This new specimen agrees fully with the description of the types.

Distribution: Malaysia (Malaya).

2.27. *Agathidium (Macroceble) rougemonti* Ang.

*Agathidium (s. str.) rougemonti* Angelini, 1990: 250.

Material: Malaysia, Malaya, Cameron Highland, Gunong Jasar, 4. IV. 1990, leg. RIEDEL, 4 ♂♂ and 1 ♀ (SMNS), 1 ♂ and 1 ♀ (AC).

Discussion: These new specimens agree fully with the description of the types.

Distribution: Malaysia (Malaya).

2.28. *Agathidium (Macroceble) jaccoudi* Ang. & Dmz.

*Agathidium (s. str.) jaccoudi* Angelini & De Marzo, 1986: 429; ANGELINI, 1990: 242.

Material: Malaysia, Malaya, Fraser's Hill, 17. IV. 1989, leg. RIEDEL, 1 ♀ (SMNS).

Discussion: This new specimen agrees fully with the description of the types.

Distribution: Malaysia (Malaya).

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