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Agathidium from Nepal collected by Dr. A. Smetana, with description of a new species (Coleoptera, Leiodidae, Anisotomini)

by

Fernando ANGELINI * et Luigi DE MARZO **

With 7 figures

ABSTRACT

Field data are presented on 230 specimens, 17 species, of *Agathidium*, recently collected by Dr. A. Smetana in Nepal. *Agathidium querceum* n. sp. is described.

INTRODUCTION

This further contribution to the knowledge of the Nepalese fauna of Anisotomini deals with 230 specimens of the genus *Agathidium*, which have been collected by Dr. Ales Smetana (Ottawa) in April and May 1985. They belong to 17 species, including a new one, *Agathidium querceum* n. sp., which is described here.

The specimens are deposited in the Museum of Natural History of Geneva (MHNG) and in Angelini's collection (AC).

***Agathidium* (s. str.) subopacum** Ang. & Dmz.

Agathidium (s. str.) *subopacum* Angelini & De Marzo, 1981: 227; 1983a: 161; 1983b: 156; 1985: 44.

MATERIAL: Nepal, Bagmati prov., Kathmandu distr., Siwapuri Dara, 2300-2500 m, 29.IV-3.V.1985, leg. A. Smetana, 10 exx. in MHNG, 3 exx. in AC.

* Via Imperiali 203, I-72021 Francavilla Fontana, Brindisi, Italy.

** Istituto di Entomologia Agraria e Forestale dell'Università di Basilicata, via N. Sauro 85, I-85100 Potenza, Italy.

Collecting methods: Sifting mosses, plant debris, barks, dead leaves and soil under tree trunks in forests of oak-trees and rhododendrons.

Distribution: Nepal, India (Uttar Pradesh and Darjeeling), Bhutan.

***Agathidium (s. str.) nivale* Ang. & Dmz.**

Agathidium (s. str.) nivale Angelini & De Marzo, 1981: 223; 1983a: 159; 1983b: 156; 1985: 45.

MATERIAL: Nepal, Bagmati prov. Rasuwa distr., north slope above Syabru, 3600-3800 m, 19.IV.1985, leg. A. Smetana, 4 exx. in MHNG, 1 ex. in AC; Bagmati prov., Kathmandu distr., Siwapuri Dara, 2300-2500 m, 29.IV-3.V.1985, leg. A. Smetana, 25 exx. in MHNG, 6 exx. in AC.

Collecting methods: Sifting mosses and plant debris under a fallen tree, soil at the base of bushes, litter and barks of fallen trees in forest of oak-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) smetanai* Ang. & Dmz.**

Agathidium (s. str.) smetanai Angelini & De Marzo, 1985: 47; 1987: 457.

MATERIAL: Nepal, Bagmati prov., Nuwakot distr., between Ghopte and Thare Pati, 3150-3250 m, 23-25.IV.1985, leg. A. Smetana, 17 exx. in MHNG, 5 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forest of fir-trees, maples and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) apterum* Ang. & Dmz.**

Agathidium (s. str.) apterum Angelini & De Marzo, 1981: 232; 1985: 49; 1986: 848.

MATERIAL: Nepal, Bagmati prov., Nuwarot distr., between Ghopte and Thare Pati, 3200 m, 23-24.IV.1985, leg. A. Smetana, 2 exx. in MHNG, 2 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forest of fir-trees and rhododendrons.

Distribution: Nepal, India (Darjeeling).

***Agathidium (s. str.) bagmaticum* Ang. & Dmz.**

Agathidium (s. str.) bagmaticum Angelini & De Marzo, 1985: 52.

MATERIAL: Nepal, Bagmati prov., Nuwakot distr., between Ghopte and Thare Pati, 3200 m, 24-26.IV.1985, leg. A. Smetana, 5 exx. in MHNG, 2 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forest of fir-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) fulungense* Ang. & Dmz.**

Agathidium (s. str.) fulungense Angelini & De Marzo, 1981: 236; 1983a: 166; 1987: 458.

MATERIAL: Nepal, Bagmati prov., Rasuwa distr., north slope above Syabru, 3600-3800 m, 18-19.IV.1985, leg. A. Smetana, 9 exx. in MHNG, 4 exx. in AC; Bagmati prov., Nuwakot distr., between Ghopte and Thare Pati, 3200 m, 23.IV.1985, leg. A. Smetana, 3 exx. in MHNG, 1 ex. in AC.

Collecting methods: Sifting mosses and plant debris under a fallen tree, decaying wood, plant debris and litter in forest of fir-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) visnu* Ang. & Dmz.**

Agathidium (s. str.) visnu Angelini & De Marzo, 1985: 54.

MATERIAL: Nepal, Bagmati prov., Kathmandu distr., Siwapuri Dara, 2300-2500 m, 29.IV-3.V.1985, leg. A. Smetana, 30 exx. in MHNG, 10 exx. in AC.

Collecting methods: Sifting mosses, plant debris, barks, leaves and soil under fallen trees in forest of fir-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) kathmanduense* Ang. & Dmz.**

Agathidium (s. str.) kathmanduense Angelini & De Marzo, 1981: 255; 1985: 57; 1986: 851; 1987: 458.

MATERIAL: Nepal, Bagmati prov., Kathmandu distr., 2300-2450 m, 29.IV-3.V.1985, leg. A. Smetana, 2 exx. in MHNG, 2 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forest of oak-trees and rhododendrons.

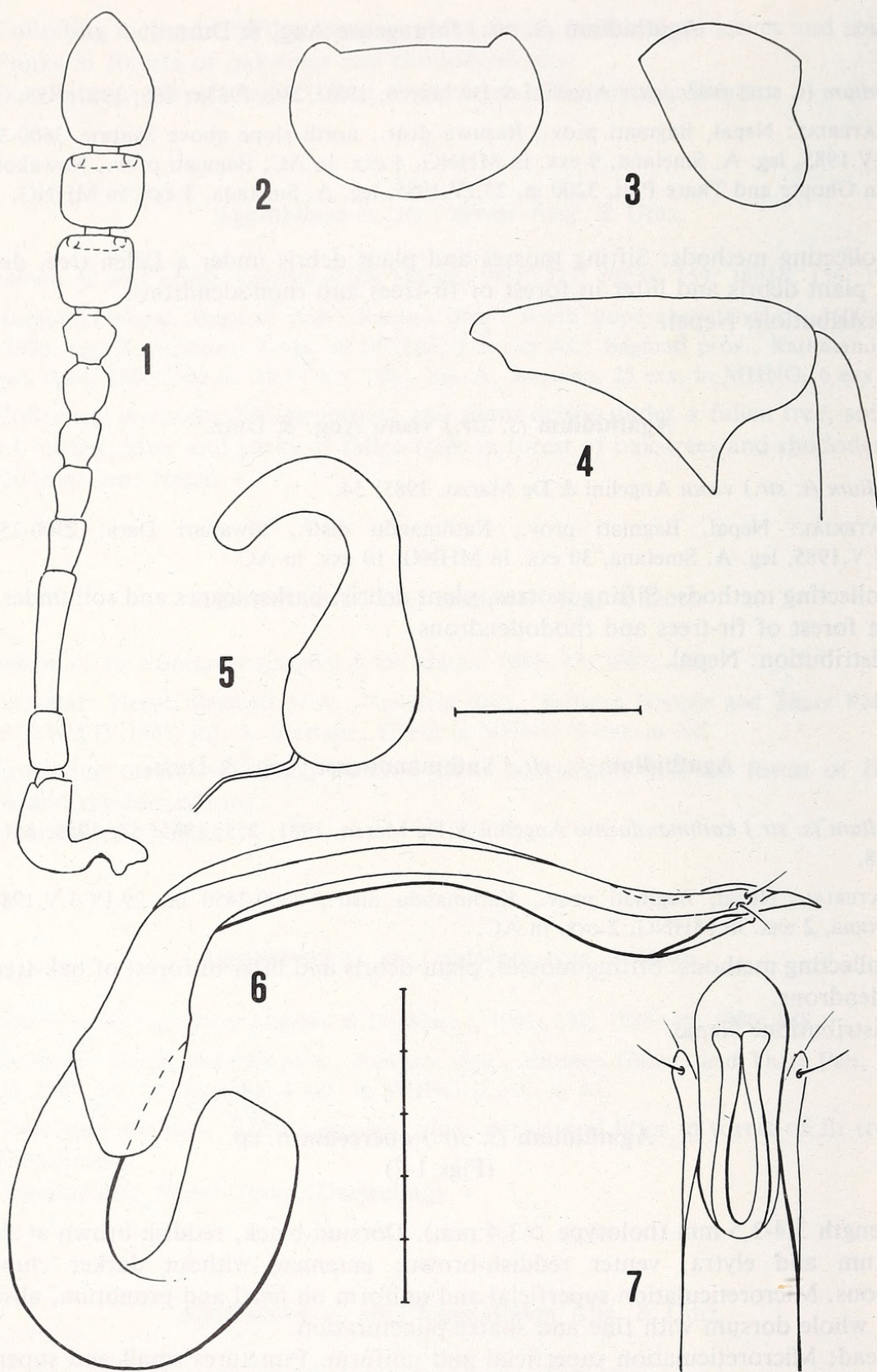
Distribution: Nepal.

***Agathidium (s. str.) querceum* n. sp.
(Figs 1-7)**

Length 3,4-3,5 mm (holotype ♂ 3,4 mm). Dorsum black, reddish-brown at sides of pronotum and elytra; venter reddish-brown; antennae without darker club; legs testaceous. Microreticulation superficial and uniform on head and pronotum, absent on elytra; whole dorsum with fine and sparse puncturation.

Head: Microreticulation superficial and uniform. Punctures small and superficial, spaced from each other by 1-5 times their own diameter. Clypeal line absent. 3rd antennal segment 2,3 times as long as the 2nd and longer than 4th + 5th (Fig. 1); Hamann's organ: gutter without vesicles in both 9th and 10th antennal segments.

Pronotum: Microreticulate as head. Punctures as those of head. 1,4 times as broad as head, moderately transverse (W/L = 1,6) and very convex (W/H = 1,44). Dorsal and lateral outlines: figg. 2 and 3. Holotype: length 1,08 mm, width 1,73 mm, height 1,20 mm.



FIGS 1-7.

Agathidium querceum n. sp.: 1, antenna; 2-3, dorsal and lateral view of pronotum; 4, male hind femur; 5, spermatheca; 6-7, male copulatory organ, lateral view and ventral view of apex. Scales: 1 division = 0,1 mm.

Elytra: Microreticulation absent. Punctures a bit larger than those of pronotum, spaced from each other by 1-5 times their own diameter; some larger punctures are interposed. A little narrower than pronotum, as long as broad and moderately convex ($W/H=1,71$). Lateral outline with very slight humeral angle. Sutural striae absent. Holotype: length 1,52 mm, width 1,65 mm, height 0,96 mm.

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

Legs: Male hind femora with a large thoot (Fig. 4). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Male copulatory organ (Figs 6 and 7): Aedeagus slender, with hook-like proximal part, lateral margins sinuate, rounded apex; ventral piece with arms thin and distally enlarged. Parameres thin, not expanded towards their apex.

Spermatheca (Fig. 5): Basal part pear-shaped; apical part slender, truncate at apex.

Discussion: *A. querceum* n. sp. is closely related to *A. fulungense* Ang. & Dmz. owing to habitus and microreticulation characters; it differs from the latter in ratio 3rd/2nd of antennal segments, shape of hind femora, apex and ventral piece of aedeagus.

Collecting methods: Sifting mosses, plant debris and litter in forest of oak-trees and rhododendrons.

Types: Nepal, Bagmati prov., Kathmandu distr., Siwapuri Dara, 2300-2500 m, 29-30.IV and 3.V.1985, leg. A. Smetana, 1♂ holotype N.6130, 1♂ paratype N.6132 and 1♀ paratype N.6134 in MHNG, 1♂ paratype N.6131 and 1♀ paratype N.6133 in AC.

Distribution: Nepal.

***Agathidium* (s. str.) *fulgens* Ang. & Dmz.**

Agathidium (s. str.) *fulgens* Angelini & De Marzo, 1985: 57; 1986: 852.

MATERIAL: Nepal, Bagmati prov., Rasuwa distr., Langtang Khola valley, 2,5 Km east from Syabru, 1720 m, 14.IV.1985, leg. A. Smetana, 1 ex. in MHNG.

Collecting methods: Sifting plant debris and fallen branches at the base of rocks.

Distribution: Nepal.

***Agathidium* (s. str.) *siva* Ang. & Dmz.**

Agathidium (s. str.) *siva* Angelini & De Marzo, 1985: 57.

MATERIAL: Nepal, Bagmati prov., Nuwakot distr., 3200 m, 23-24.IV.1985, leg. A. Smetana, 12 exx. in MHNG, 5 exx. in AC; Bagmati prov., Kathmandu distr., Siwapuri Dara, 2400-2500 m, 29.IV-2.V.1985, leg. A. Smetana, 26 exx. in MHNG, 7 exx. in AC.

Collecting methods: Sifting mosses, plant debris, barks of fallen trees and soil under the latter, in forests of fir-trees, oak-trees and rhododendrons.

Discussion: This is the second report of this species, of which only the three types were known so far.

Distribution: Nepal.

***Agathidium (s. str.) circumflexum* Ang. & Dmz.**

Agathidium (s. str.) circumflexum Angelini & De Marzo, 1981: 259; 1983a: 172.

MATERIAL: Nepal, Bagmati prov., Nuwakot distr., between Ghopte and Thare Pati, 3200 m, 23.IV.1985, leg. A. Smetana, 2 exx. in MHNG, 1 ex. in AC; Bagmati prov., Kathmandu distr., Siwapuri Dara, 2300-2450 m, 29.IV-3.V.1985, leg. A. Smetana, 5 exx. in MHNG, 2 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forests of fir-trees, oak-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) franzi* Ang. & Dmz.**

Agathidium (s. str.) franzi Angelini & De Marzo, 1981: 260; 1983a: 172; 1986: 854; 1987: 458.

MATERIAL: Nepal, Bagmati prov., Rasuwa distr., Langtang Khola valley, Forest Camp, 1950 m, 13.IV.1985, leg. A. Smetana, 1 ex. in MHNG; Langtang Khola valley, 2,5 Km east from Syabru, 1700 m, 14.IV.1985, leg. A. Smetana, 1 ex. in AC.

Collecting methods: Sifting soil and plant debris at the base of rocks.

Distribution: Nepal.

***Agathidium (s. str.) paria* Ang. & Dmz.**

Agathidium (s. str.) paria Angelini & De Marzo, 1981: 287; 1985: 66.

MATERIAL: Nepal, Bagmati prov., Nuwakot distr., between Ghopte and Thare Pati, 3200 m, 23-26.IV.1985, leg. A. Smetana, 11 exx. in MHNG, 3 exx. in AC.

Collecting methods: Sifting mosses, plant debris and litter in forest of fir-trees and rhododendrons.

Distribution: Nepal.

***Agathidium (s. str.) pusillum* Ang. & Dmz.**

Agathidium (s. str.) pusillum Angelini & De Marzo, 1981: 217; 1984: 551; 1985: 69; 1986: 865.

MATERIAL: Nepal, Bagmati prov., Siwapuri distr., Siwapuri Dara, 2500 m, 1.V.1985, leg. A. Smetana, 1 ex. in MHNG.

Collecting methods: Sifting plant debris in forest.

Distribution: Nepal, India (Darjeeling).

***Agathidium (s. str.) alatum* Ang. & Dmz.**

Agathidium (s. str.) alatum Angelini & De Marzo, 1981: 209; 1986: 839.

Agathidium (s. str.) alatum: ANGELINI & COOTER 1986: 37.

MATERIAL: Nepal, Bagmati prov., Kathmandu distr., Siwapuri Dara, 2400 m, 29.IV.1985, leg. A. Smetana, 1 ex. in MHNG.

Collecting methods: Sifting mosses and barks under a fallen tree.

Distribution: Nepal, India (Garhwal).

***Agathidium (s. str.) caelebs* Ang. & Dmz.**

Agathidium (s. str.) caelebs Angelini & De Marzo, 1981: 268; 1985: 42; 1987: 457.

MATERIAL: Nepal, Bagmati prov., Kathmandu distr., Siwapuri Dara, 2400 m, 30.IV.1985, leg. A. Smetana, 1 ex. in MHNG, 1 ex. in AC.

Collecting methods: Sifting damp plant debris in forest.

Distribution: Nepal.

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