

Linzer biol. Beitr.	31/2	713-718	31.12.1999
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A new species of *Agyrtes* from China, and new faunistic data on Palaeartic Agyrtidae (Coleoptera)

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A b s t r a c t : *Agyrtes sichuanensis* spec. nova from China (Sichuan) is described, and new faunistic data on Palaeartic Agyrtidae (18 species) are given.

K e y w o r d s : Coleoptera, Agyrtidae, *Agyrtes*, taxonomy, faunistics, Palaeartic.

Introduction

The classification of the family Agyrtidae has been reviewed and partly revised by NEWTON (1997). After the revision of the Agyrtidae from the Himalayas and adjacent regions (SCHAWALLER 1991) new Palaeartic material of this rarely collected family came to my hands. The new faunistic data are summarized in this paper (18 species) together with the description of a new *Agyrtes*-species from China. Other new data on Palaeartic Agyrtidae including the description of a new *Pteroloma*-species from the Russian Far East have been recently published by RUZICKA & SCHNEIDER (1995), a further species of *Apteroloma* from China is under description by ROUGEMONT (in press). The genus *Lyrosoma* MANNERHEIM has been revised separately (SCHAWALLER 1998), it contains now 2 valid species living in littoral habitats at the coast of the northwestern Pacific.

Abbreviations

- CCWH Collection Claus Wurst, Heilbronn
CJSP Collection Jan Schneider, Praha
DEI Deutsches Entomologisches Institut, Eberswalde
NHMB Naturhistorisches Museum, Basel
HNHM Hungarian Natural History Museum, Budapest
NKME Naturkundemuseum, Erfurt
SMNS Staatliches Museum für Naturkunde, Stuttgart
SMTD Staatliches Museum für Tierkunde, Dresden.

Treated species

Agyrtes castaneus (FABRICIUS 1792)

Material: S Turkey, Karaman, 1000 m, 4.IV.1978, leg. W. Heinz, 1 ex. SMNS. E Jordania, Amman, 800 m, 5.IV.1958, leg. J. Klapperich, 1 ex. SMNS. Iran, Golhak near Teheran, 1.-5.III.1961, leg. J. Klapperich, 1 ex. SMNS.

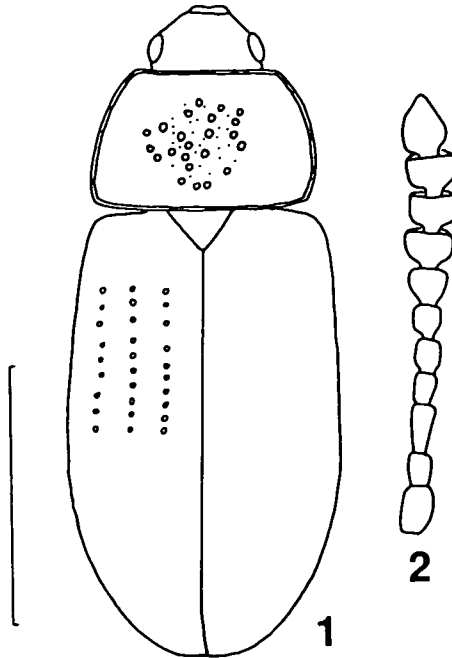
Remarks: This species obviously occurs not only in central and eastern Europe and Turkey but also more southeastward up to Jordania and Iran.

Agyrtes sichuanensis spec. nova (Figs 1-2)

Holotype ♀: China, W Sichuan, Gonggashan, Hailuogou, 29.35N/102.00E, 2900-3200 m, 3.-6.VII.1994, leg. J. Farkac & D. Kral (NHMB) (lacking right posterior leg).

Paratype: China, W Sichuan, Gonggashan, Hailuogou, 29.35N/102.00E, 3000 m, 6.VII.1996, leg. J. Farkac, P. Kabátek & A. Smetana, 1 ♀ (SMNS) (lacking right elytron).

Description: Body flattened, shiny, dark castaneous, length 4.5-4.7 mm (females). Head with punctuation as on pronotum, distance of punctures as 1-4 diameters; clypeus distinctly separated by a deep furrow, shiny and only with 2-3 punctures; mandibles without inner tooth; shape of antennomeres see Fig. 2, antennomere 3 distinctly longer than surrounding ones, antenna without distinctly separated club, antennomeres 8-10 apically with dense insertion of sensilla. Pronotum (Fig. 1) 1.6 × wider



Figs 1-2: *Agyrtes sichuanensis* spec. nova. 1 – Dorsal view (scale line 2.0 mm) with selected punctuation (Scale line 1.0 mm) on pronotum and elytra. 2 – Antenna with prolonged antennomere 3 and without distinct club (scale line 1.0 mm).

than long, widest shortly before base, all margins bordered. Elytra (Fig. 1) long and parallel, 1.63 × longer than wide; stria 3 with about 48 punctures, striae not deeper apically; intervals slightly convex, without distinct punctation but with very feeble leather-like structure on shiny ground; elytra shiny with a few punctures basally. Wings developed. Ventral side without specific peculiarities, with distinct adpressed setation; last abdominal sternite bordered. Legs without specific peculiarities, tibiae with rows of spines and setation as usual in the genus. Aedeagus unknown, only females available.

Discussion: *Agyrtes sichuanensis* spec. nova belongs to the subgenus *Agyrtecanus* REITTER 1901 because of the longer antennomere 3, the antenna without distinct club and the elytral striae not impressed apically (SCHAWALLER 1979). From both Palaearctic species of that subgenus, *A. bicolor* LAPORTE 1840 and *A. kashmirensis* SCHAWALLER 1979, it can easily be separated by the small and flattened body, by the wide pronotum with the widest part shortly before the base and by the long and parallel elytra.

Distribution: The genus *Agyrtes* FRÖLICH 1799 shows a holarctic distributional pattern. In the western Palaearctic occurs *A. alutaceus* REITTER 1901 (? validity), *A. bicolor* LAPORTE 1840 and *A. castaneus* (FABRICIUS 1792), in central and eastern Asia live *A. ferrugineus* SOLSKY 1874 (Samarkand), *A. kashmirensis* SCHAWALLER 1979 (Kashmir) and *A. sichuanensis* spec. nova (Sichuan).

***Necrophilus rupinensis* SCHAWALLER 1986**

Material: Nepal, Annapurna Mts, S Lamjun Himal, E Taunja Danda, 3900 m, 11.VIII.1995, leg. Fabrici, Jäger & Schmidt, 1 ex. SMNS. Nepal, Annapurna Mts, Lamjun Himal, S Namun La, N Miyardi Kholā, 4200 m, 18.VIII.1995, leg. Fabrici, Jäger & Schmidt, 1 ex. SMNS. Nepal, Annapurna Mts, S Lamjun Himal, upper Sundar Danda, 4000-4200 m, 16.VIII.1995, leg. Fabrizi, Jäger & Schmidt, 1 ex. SMNS. Nepal, SW Ganesh Himal, Abuthum Lekh, upper Keronja, 3600-4000 m, 19.-20.V.1996, leg. Ahrens, Kulbe & Rulik, 1 ex. SMTD.

Remarks: Described from the Manaslu area in Nepal but obviously with a wider distribution in the central Himalayas.

***Ipelates indicus* (HLISNIKOVSky 1963)**

Material: Nepal, Kathmandu valley, Phulchoki, 1800-2000 m, 25.IV.1995, leg. W. Schawaller, 1 ex. SMNS. China, Sichuan, Emei Shan, 1000 m, 4.-20.V.1989, leg. V. Kuban, 1 ex. NHMB.

Remarks: New record for China.

***Ipelates latissimus* (REITTER 1884)**

Material: Greece, Peloponnese, Mt. Parnon, Kosmos, 1400 m, 27.V.1979, leg. Hladilovi, 2 ex. SMNS. Greece, Peloponnese, Kalavryta, 4.V.1979, leg. Hladilovi, 4 ex. SMNS. Greece, Peloponnese, Kalavryta, 1000 m, 10.X.1996, leg. Büche, 1 ex. CCWH.

Remarks: The formerly synonymized *Ipelates ruficollis* from Turkey is revalidated by NEWTON (1997) because of a differently structured mesosternal carina.

***Ipelates sikkimensis* (PORTEVIN 1905)**

Material: China, Yunnan, Ruili, 4.II.1993, leg. G. de Rougemont, 1 ex. SMNS.

***Pteroloma altaicum* NIKOLAJEV 1989**

M a t e r i a l: Siberia, Kemerovo area, Kuznetsky Alatau Reserve, mouth of Malaya Bezmyianka river, 500 m, *Abies-Pinus*-forest, 27.-31.VIII.1993, leg. S. Golovatch & V. Gratshev, 1 ex. SMNS. Siberia, E Sajon, Tunkinskije Goltzy, W Kyngarga river, 1700-2000 m, 3.VII.1993, leg. Krause & Jäger, 1 ex. SMNS. Siberia, E Sajon, Tunkinskije Goltzy, E Kyngarga river, 1800-1900 m, 5.VII.1993, leg. Krause & Jäger, 1 ex. SMNS. Siberia, Altai Mts., Aktasch, 12.-15.VI.1992, 2 ex. CJSP.

***Pteroloma forsstroemii* (GYLLENHAL 1810)**

M a t e r i a l: Siberia, Primorskiy Kray, Sikhote-Alin, 30 km SE Chuguyevka, 44.05 N, 134.12 E, 650 m, 1.VI.1993, leg. L. Zerche, 1 ex. DEL. S Sakhalin, Yuzhno-Sakhalinsk, R. Rogatka, 13.-14.VIII.1990, leg. S. Kasantsev, 1 ex. NHMB.

R e m a r k s: The distribution of the species of *Pteroloma* in Siberia and Japan is still unclear. Whereas *P. altaicum* seems to be restricted in the mountains of middle Siberia (Altai, Sajon), both *P. forsstroemii* and *P. sibiricum* occur in eastern Siberia and adjacent islands as well as in Japan. NISHIKAWA (1996) reports *P. sibiricum* from Hokkaido.

***Pteroloma sibiricum* SZÉKESY 1935**

M a t e r i a l: Siberia, Sakhalin, Aniva distr., Kamiyshovlye Mts., Bryanka river 30 km W Aniva, 200 m, 14.VII.1993, leg. A. Pütz & D. Wrase, 2 ex. CJSP. Siberia, Prim. Partyzansk distr., Alexeyevsky Mts., 20 km E Sergejevka, forests near Andreyevka river, 400 m, 26.-29.VII.1993, leg. A. Pütz & D. Wrase, 1 ex. CJSP

***Apteroloma davidis* (FAIRMAIRE 1891)**

R e m a r k s: The localization of the type locality is now clear. The "province" or "independent Miao principality" of Muping or "Moupin", where Père Armand David based himself during his second journey of exploration in 1869, occupied the area of present day Baoxing County, at an average altitude of 2000 m, about 120 km west of Chengdu, at 30.24 N/102.50 E (ROUGEMONT in litt.).

***Apteroloma dolpoense* (SCHAWALLER 1978)**

M a t e r i a l: Nepal, Jumla Distr., Gothichaur, 2900-3050 m, 10.VI.1997, leg. J. Weipert, 1 ex. NKME. Nepal, Jumla Distr., 10 km SE Churta, Bavaria Lagna Pass, 3800 m, 6.VI.1997, leg. A. Weigel, 1 ex. NKME. Nepal, Jumla Distr., 12 km NE Talphi, 3700 m, 16.VI.1997, leg. A. Weigel, 1 ex. NKME. Nepal, Jumla Distr., 15 km NE Talphi, 3700-4200 m, 17.VI.1997, leg. A. Weigel, 1 ex. NKME. Nepal, Jumla Distr., NE Talphi, Maharigaun, 3300 m, 20.VI.1997, leg. A. Weigel, 2 ex. NKME, 1 ex. SMNS.

***Apteroloma gibbum* (CHAMPION 1923)**

M a t e r i a l: India, Uttar Pradesh, Nainital, Sleepy Hollow, 2080 m, 4.XII.1989, leg. L. Papp, 1 ex. HNHM. Nepal, Jumla Distr., Churta-Gothichaur, 3300-2900 m, 7.VI.1997, leg. M. Hartmann, 1 ex. NKME. Nepal, Jumla Distr., Gothichaur Khola, 2800 m, 13.VI.1997, leg. A. Weigel, 1 ex. NKME. Nepal, Jumla Distr., Gothichaur, 3000 m, 13.VI.1997, leg. E. Grill, 1 ex. NKME. Nepal, Jumla Distr., Ghurchi-Lagna Pass, 3500 m, 14.VI.1998, leg. W. Schawaller, 1 ex. SMNS.

***Apteroloma harmandi* (PORTEVIN 1903)**

M a t e r i a l : Nepal, SW Ganesh Himal, Abuthum Lekh, upper Keronja, 3600-4000 m, 19.-20.V.1996, leg. Ahrens, Kulbe & Rulik, 1 ex. SMTD. Nepal, Annapurna Mts., S Lamjun Himal, spring of Khudi Khola, 4000 m, 25.V.1993, leg. J. Schmidt, 2 ex. SMNS.

***Apteroloma heinzi* SCHAWALLER 1991**

M a t e r i a l : Pakistan, Nanga Parbat, Rama, 3000-3500 m, 27.-30.VI.1997, leg. W. Heinz, 13 ex. SMNS. Pakistan, Azad Jammu & Kashmir, Muzaffarabad Distr., Leepa-Top, 3200-3300 m, 14.VI.1997, leg. W. Heinz, 8 ex. SMNS. Pakistan, Dir, Luwarai Pass, Gujar Levy Post, 2800-3100 m, 5.-7.VII.1997, leg. W. Heinz, 1 ex. SMNS.

***Apteroloma longulum* (SCHAWALLER 1979)**

M a t e r i a l : Pakistan, Khagan valley, Naran, 2400-2700 m, 22.-26.VII.1981, leg. W. Heinz, 5 ex. SMNS.

***Apteroloma neelumense* SCHAWALLER 1991**

M a t e r i a l : Pakistan, Azad Jammu & Kashmir, Muzaffarabad Distr., Leepa-Top, 3200-3300 m, 14.VI.1997, leg. W. Heinz, 3 ex. SMNS.

***Apteroloma potanini* (SEMENOV 1893)**

M a t e r i a l : China, Beijing, Panshan, 8.V.1993, leg. G. de Rougemont, 1 ex. SMNS. China, Shanxi, Wutaishan, 4.-5.VI.1993, leg. G. de Rougemont, 3 ex. SMNS. China, Shaanxi, Mt. Hua, 500 m, 12.V.1994, leg. Kurbatov, 1 ex. SMNS. China, Gansu, Dalijia Shan, 46 km W Linxia, 2980 m, 10.VII.1994, leg. A. Smetana, 1 ex. SMNS.

R e m a r k s : Widely distributed in the continental eastern Palaearctic from the Russian Far east to China (Quinghai, Shanxi, Shaanxi, Gansu, Sichuan) and Korea (NOMURA & LEE 1993, RUZICKA & SCHNEIDER 1995).

***Apteroloma rosti* (PORTEVIN 1907)**

M a t e r i a l : Pakistan, Azad Jammu & Kashmir, Muzaffarabad Distr., forest between Reshian and Leepa-Top, 2450-2650 m, 12.-15.VI.1997, leg. W. Heinz, 1 ex. SMNS. Pakistan, Azad Jammu & Kashmir, Muzaffarabad Distr., Daokhan near Reshian, 2600 m, 12.-15.VI.1997, leg. W. Heinz, 2 ex. SMNS.

***Apteroloma turkestanicum* (SEMENOV 1893)**

M a t e r i a l : Tadshikistan, Hissar Mts., Malcura/Warsob, 19.VII.1989, leg. G. Müller-Motzfeld, 1 ex. SMNS.

Acknowledgments

I thank all colleagues and friends for the loan of material under their care, namely L. Behne (Eberswalde), Dr. M. Brancucci (Basel), M. Hartmann (Erfurt), O. Jäger (Dresden), Dr. O. Merkl (Budapest), J. Ruzicka and J. Schneider (both Praha).

Zusammenfassung

Agyrtes sichuanensis spec. nova aus China (Sichuan) wird beschrieben, und neue faunistische Daten zur Käferfamilie Agyrtidae in der Palaearktis werden zusammengefasst (18 Arten).

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Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 1999

Band/Volume: [0031_2](#)

Autor(en)/Author(s): Schawaller Wolfgang

Artikel/Article: [A new species of Agyrtes from China, and new faunistic data on Palaearctic Agyrtidae \(Coleoptera\). 713-718](#)