Elytra, *Tokyo*, New Series, **6** (2): 333–337
December 25, 2016

The Exact Type Localities of the *Pteroloma* Species (Coleoptera, Agyrtidae) from Japan Described by J. Hlisnikovský

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Abstract On the basis of the direct examination of type specimens, the type localities of *Pteroloma magnificum* Hlisnikovský and *P. mirandum* Hlisnikovský are herein emended and that of *P. koebelei japonicum* Hlisnikovský is briefly confirmed on its reality. The habitus of several types and all labels attached to the examined types are shown in color photos.

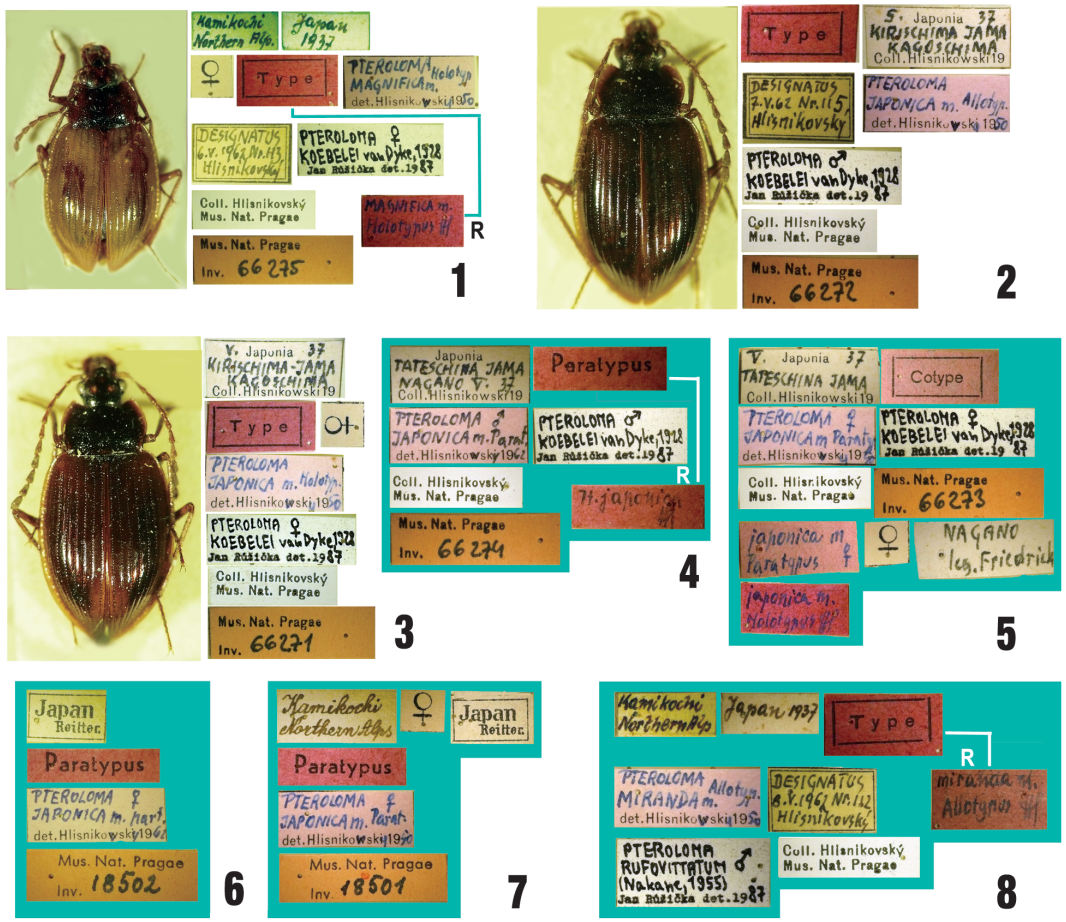
Hlisnikovský (1963) described three taxa belonging to the agyrtid genus *Pteroloma* each from a dubious locality in Japan. They are *Pteroloma magnificum* Hlisnikovský, 1963 (type locality: "Kami-Koschiki-schima Insel, Japan, Nördliche Berge"), *P. mirandum* Hlisnikovský, 1963 (type locality: "Kami-Koschiki-schima Insel, Japan; Nördliche Berge") and *P. koebelei japonicum* Hlisnikovský, 1963 (type locality: "Japan, Kagoschima, Kirischima-jama"). Subsequently, Schawaller (1985) synonymized *P. magnificum* and *P. koebelei japonicum* with *P. koebelei* Van Dyke, 1928, and also synonymized *P. mirandum* with *P. rufovittatum* (Nakane, 1955). Although the specific and subspecific epithets proposed by Hlisnikovský (1963) did not agree in terms of gender with the combined generic name (Kurosawa, 1986), these have been corrected by Růžička (2015) as used in this article.

Kurosawa (1986) agreed with the synonymic treatments of these three taxa by Schawaller (1985), but raised a doubt about their type localities based on their environmental difference from previously known habitats of *Pteroloma* species. In brief, he surmised that the type localities of Kami-Koschiki-schima Insel [= Kamikoshiki-jima Is.] and of Kirischima-jama [= Kirishima-yama Volcanos] are a misreading of label inscriptions for Kamikôchi and Kirifuri (near Nikkô), respectively.

The treatments by Schawaller (1985), they have naturally been obtained a consensus, and were adopted in the Catalogue of Palaearctic Coleoptera (Růžička & Schneider, 2004; Růžička, 2015), although, the exact type localities of the three taxa remain to be clarified. I directly examined the type specimens together with the labels in question at the Department of Entomology, National Museum (Natural History), Prague, Czech Republic (= NMPC), in June 2013, and here I summarize the results of that examination.

In the following label data citation of the type specimen(s) examined, separate lines on labels are indicated by "/", and separate labels by "//". Remarks and comments of mine are enclosed in square brackets.

Before going further, I wish to thank Drs. Jiri Hájek (NMPC) and Jan Růžička (Department of Ecology, Faculty of Environmental Sciences, Czech University of Life Sciences Prague) who helped make my direct examination of agyrtid type specimens possible at the NMPC.



Figs. 1–8. Habitus and labels of type specimens of *Pteroloma* spp. —— 1, *P. magnificum* HLISNIKOVSKÝ, 1963 (syn. of *P. koebelei* VAN DYKE, 1928), ♀, holotype, from Kamikôchi; 2, *P. koebelei japonicum* HLISNIKOVSKÝ, 1963 (syn. of *P. koebelei* VAN DYKE, 1928), ♂, holotype, from Kirishima-yama Volcanos; 3, same, ♀, allotype, from Kirishima-yama Volcanos; 4, same, labels of paratype [1]; 5, same, paratype [2]; 6, same, paratype [3]; 7, same, paratype [4]; 8, labels of *P. mirandum* HLISNIKOVSKÝ, 1963 (syn. of *P. rufovittatum* NAKANE, 1955), holotype. R: Showing reverse side.

Results and Discussion

Pteroloma koebelei VAN DYKE, 1928

(Figs. 1–7)

Pteroloma koebelei VAN DYKE, 1928: 25; type locality: Yumoto [probably Yumoto in Nikkô, Tochigi Pref., Honshu], Japan.

Pteroloma magnificum HLISNIKOVSKÝ, 1963: 80; type locality: Kamikôchi, Northern Alps, Nagano Pref., Honshu, Japan. (Not Kami-koshikijima Is.)

Pteroloma koebelei japonicum HLISNIKOVSKÝ, 1963: 80; type locality: Kirishima-yama Volcanos, Kagoshima Pref., Kyushu, Japan.

Other synonymy is omitted.

Type specimens examined. Holotype ♀ of *Pteroloma magnificum* (NMPC), labelled (Fig. 1): Kamikochi [= Kamikôchi: ca. 36°14′N 137°37′E] / Northern Alp. [= Hida Mts.] // Japan / 1937 // ♀ // Type [MAGNIFICA m. / Holotypus JH (in reverse side)] // PTEROLOMA / MAGNIFICA m. / Holotyp / det. Hlisnikovsky 1950 // DESIGNATUS / 6.V.1962 Nr. 113 / Hlisnikovsky // PTEROLOMA / KOEBELEI van Dyke, 1928 / ♀ / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 66275.

Holotype ♂ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 2): Type // 5. Japonia 37 / KIRISCHIMA JAMA [= Kirishima-yama Volcanos: ca. 31°53′N 130°50′E] / KAGOSCHIMA / Coll. Hlisnikowski 19 // DESIGNATUS / 7.V.62 Nr. 115 / Hlisnikovský // PTEROLOMA / JAPONICA m. / Allotyp. / det Hlisnikovsky 1950 // PTEROLOMA / KOEBELEI van Dyke, 1928 / ♂ / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 66272.

Allotype ♀ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 3): V. Japonia 37 / KIRISCHIMA-JAMA / KAGOSCHIMA / Coll. Hlisnikowski 19 // Type // ♀ // PTEROLOMA / JAPONICA m. / Holotyp. / det. Hlisnikovsky 1950 // PTEROLOMA / KOEBELEI van Dyke, 1928 / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 66271.

Paratype [1] ♂ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 4): Japonia / TATESCHINA JAMA [= Mt. Tateshina-yama: ca. 36°03′N 138°16′E] / NAGANO V. 37 / Coll. Hlisnikowski 19 // Paratypus [Pt. japonica / JH (in reverse side)] // PTEROLOMA / JAPONICA m. / ♂ / Parat. / det. Hlisnikovsky 1962 // PTEROLOMA / KOEBELEI van Dyke, 1928 / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 66274.

Paratype [2] ♀ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 5): V. Japonia 37 / TATESCHINA JAMA / Coll. Hlisnikowski 19 // Cotype // PTEROLOMA / JAPONICA m / ♀ / Paraty / det. Hlisnikovsky 1950 // PTEROLOMA / KOEBELEI van Dyke, 1928 / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 66273 // Japonica m / Paratypus ♀ // ♀ // NAGANO / leg. Friedrich // japonica m. / Holotypus JH.

Paratype [3] ♀ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 6): Japan / Reitter // Paratypus // PTEROLOMA / JAPONICA m. / ♀ / part / det. Hlisnikovsky 1962 // Mus. Nat. Pragae / Inv. 18502.

Paratype [4] ♀ of *Pteroloma koebelei japonicum* (NMPC), labelled (Fig. 7): Kamikochi / Northern Alps // ♀ // Japan / Reitter // Paratypus // PTEROLOMA / JAPONICA m. / ♀ / Parat / det. Hlisnikovsky 1950 // Mus. Nat. Pragae // Mus. Nat. Pragae / Inv. 18501.

Pteroloma rufovittatum (NAKANE, 1955)

(Fig. 8)

Apteroloma rufovittatum NAKANE, 1955: 30; type locality: Kamikôchi, Shinano [= Nagano Pref.], Honshu, Japan.

Pteroloma mirandum HLISNIKOVSKÝ, 1963: 78; type locality: Kamikôchi, Northern Alps, Nagano Pref., Honshu, Japan. (Not Kamikoshiki-jima Is.)

Type specimen examined. Holotype ♂ of *Pteroloma mirandum* (NMPC), labelled (Fig. 8): Kamikochi [= Kamikôchi: ca. 36°14′N 137°37′E] / Northern Alp. [= Hida Mts.] // Japan / 1937 // Type [miranda m. / Allotypus JH (in reverse side)] // PTEROLOMA MIRANDA m. / Allotyp. / det. Hlisnikovsky 1950 // DESIGNATUS / 8.V.1962 / Hlisnikovský // PTEROLOMA / RUFOVITTATUM / (Nakane, 1955) / ♂ / Jan Růžička det. 1987 // Coll. Hlisnikovský / Mus. Nat. Pragae.

The validity of the synonymic treatments of *P. magnificum*, *P. koebelei japonicum* and *P. mirandum* by SCHAWALLER (1985) is supported according to my examination.

As a result of examining the labels attached to the type specimens of these taxa, I found that, surprisingly, the inscriptions of the labels are quite legible, without room for misreading. Some discrepancies were found among the inscriptions and the type data given in their original descriptions, though I do not mention all of them. I show all the labels in Figs. 1–8.

The type localities of *P. magnificum* and *P. mirandum* should be emended to Kamikôchi from Kami-Koschiki-schima Insel on the basis of the inscriptions on the labels in each holotype (Figs. 1 & 8) in compliance with recommendation 76A.2 of the Code (ICZN, 2000).

Judging from such inscriptions (Fig. 2), the type locality of *P. koebelei japonicum* is correct; however, the Kirishima-yama Volcanos may be questionable unless this species is rediscovered from there. I therefore made an effort to obtain any information related to the locality, but so far without success. For example, regarding FRIEDRICH, who is the only specified collector, I only have uncertain information that he (W. ... FRIEDRICH?) was an insect collector who dealt specimens partly via Em[merich]. REITTER in Chongqing, China (HORN *et al*., 1990). Accordingly, it is rather difficult to confirm the type locality of this species in this way.

On the other hand, the type series of *P. koebelei japonicum* is incomplete, because the allotype and five paratypes were designated in the original description; the female paratype from Mt. Tateshina-yama could not be find at the NMPC. It was also revealed that the label indicating the status of the type specimen was confused between the holotype and allotype (Figs. 2–3), because HLISNIKOVSKÝ (1963) designated the male specimen as the former. Two paratypes (paratypes [3] and [4]) that probably came from Emmerich REITTER (BEZDĚK & HÁJEK, 2009, 2010) are both female, and the locality of one of the two partially transcribed simply as Japan in the original description, but it is considered to have been collected from Kamikôchi according to the label (Fig. 7).

Actually, the type locality of *P. koebelei*, Yumoto, is insufficient to show its location, because Yumoto is common as a place name in hot-spring areas of Japan. The single female holotype was obtained by Albert KOEBELE (VAN DYKE, 1928) who visited mainland Japan twice (ESAKI, 1935) and collected insects at least in Atami, Hakone and Nikkô (ASHMEAD, 1906). Judging from the known collecting sites of this species and their elevations, it is highly probable that Yumoto in Nikkô is its correct type locality.

要　　約

西川正明：HLISNIKOVSKÝ により日本から記載された *Pteroloma* 属ツヤシデ ムシ (鞘翅目ツヤシデムシ科) の正しいタイプ産地．———— HLISNIKOVSKÝ (1963) によって日本から記載されたツヤシデムシのタイプ標本に関する所見を報告した．すでにクロツヤシデムシとアカスジツヤシデムシの新参異名となっている *Pteroloma magnificum* HLISNIKOVSKÝ と *P. mirandum* HLISNIKOVSKÝ のタイプ産地をホロタイプに付されたラベルの記述に基づいて，上甑島から上高地に訂正した．一方，同様にクロツヤシデムシの新参異名である *P. koebelei japonicum* HLISNIKOVSKÝ については，ホロタイプのラベルの記述 (霧島山) は原記載におけるタイプ産地と一致するが，クロツヤシデムシが同地域から再発見されていないため真の産地か否かという問題を残している．

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Manuscript received 17 May 2016;
revised and accepted 14 October 2016.