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**The longicorn beetle tribe Cerambycini Latreille, 1802  
(Coleoptera: Cerambycidae: Cerambycinae) in the fauna of Asia.  
5. Notes on the genus *Pneumida* J. Thomson, 1864  
and some other little-known taxa from Indochina**

**Жуки-дровосеки трибы Cerambycini Latreille, 1802  
(Coleoptera: Cerambycidae: Cerambycinae) фауны Азии.  
5. Заметки о роде *Pneumida* J. Thomson, 1864  
и некоторых других малоизвестных таксонах из Индокитая**

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**Key words:** Coleoptera, Cerambycidae, Cerambycini, *Pneumida*, *Derolus*, new combinations, new synonymy, Indochina, Borneo.

**Ключевые слова:** Coleoptera, Cerambycidae, Cerambycini, *Pneumida*, *Derolus*, новые комбинации, новая синонимия, Индокитай, Борнео.

**Abstract.** A brief review of the genus *Pneumida* J. Thomson, 1864, as well as a key to its species are given. The following new combinations and new synonymy are established: *Pneumida trifulvofasciata* (Hayashi, 1975), **comb. n.**, *Derolus argenteofasciatus* (Pic, 1951), **comb. n.** = *Derolus glauciapicalis* Gressitt et Rondon, 1970, **syn. n.** *Pneumida trifulvofasciata* **comb. n.**, described from Borneo, is recorded from Western Malaysia and generally from Indochina for the first time.

**Резюме.** Дан краткий обзор рода *Pneumida* J. Thomson, 1864 и предложена таблица для определения его видов. Установлены следующие новые комбинации и новая синонимия: *Pneumida trifulvofasciata* (Hayashi, 1975), **comb. n.**, *Derolus argenteofasciatus* (Pic, 1951), **comb. n.** = *Derolus glauciapicalis* Gressitt et Rondon, 1970, **syn. n.** Впервые для Западной Малайзии, как и в целом для Индокитая, указан *Pneumida trifulvofasciata* **comb. n.**, описанный с Борнео.

## Introduction

Since the genus *Pneumida* J. Thomson, 1864 had been synonymized with the genus *Ceresium* Newm., 1842 (Callidiopini Lacordaire, 1868) shortly after its description [Lacordaire, 1868], for a very long time it remained accepted as such by various researchers [Gemming, 1872; Gahan, 1906; Aurivillius, 1912; Matsushita, 1933; McKeown, 1947; Gressitt, 1951; Gressitt, Rondon, 1970;

Kusama, Takakuwa, 1984 and others]. Only at the end of the last century that synonymy was proposed to be considered erroneous [Holzschuh, 1995], even though in some modern publications [Catalogue..., 2010; Ślipiński, Escalona, 2016] *Pneumida* is still listed as a synonym of *Ceresium*.

The present paper provides a brief review of the genus *Pneumida* and gives a key to its species. One species of that genus is transferred therein from the genus *Derolus* Gahan, 1891. At the same time, one of the species of the genus *Prothema* Pascoe, 1857 (*Prothemini* Lacordaire, 1868) is newly transferred to *Pneumida*, thereby one of the species of *Derolus* is proposed to be considered as its synonym.

The material treated in this work belongs to the following institutional and private collections:

BM – Bishop Museum (Honolulu, USA);

BMNH – Natural History Museum (London, United Kingdom);

FFPRI – Forestry and Forest Products Research Institute (Tsukuba, Japan);

LIPI – Lembaga Ilmu Pengetahuan Indonesia (Cibinong-Bogor, Indonesia);

MNHN – Muséum national d'Histoire naturelle (Paris, France);

NHMD – Natural History Museum of Denmark, University of Copenhagen (Copenhagen, Denmark);

OMNH – Osaka Museum of Natural History (Osaka, Japan);

cAM – collection of Alexandr Miroshnikov (Krasnodar, Russia);

cCH – collection of Carolus Holzschuh (Villach, Austria);

cFR – collection of Francesco Ruggiero (Viterbo, Italy);

cLD – collection of Luboš Dembický (Brno, Czech Republic);

cTT – collection of Tomáš Tichý (Opava, Czech Republic).

### Genus *Pneumida* J. Thomson, 1864

*Pneumida* J. Thomson, 1864: 191; Lacordaire, 1868: 353 (syn. pro *Ceresium* Newmarr, 1842; wrong synonymy); Gemminger, 1872: 2837 (syn. pro *Ceresium*; wrong synonymy); Gahan, 1906: 156 (syn. pro *Ceresium*; wrong synonymy); Aurivillius, 1912: 123 (syn. pro *Ceresium*; wrong synonymy); Matsushita, 1933: 299 (syn. pro *Ceresium*; wrong synonymy); McKeown, 1947: 46 (syn. pro *Ceresium*; wrong synonymy); Gressitt, 1951: 154 (syn. pro *Ceresium*; wrong synonymy); Gressitt, Rondon, 1970: 95 (syn. pro *Ceresium*; wrong synonymy); Kusama, Takakuwa, 1984: 263 (syn. pro *Ceresium*; wrong synonymy); Holzschuh, 1995: 16 (*Pneumida* J. Thomson, gen. revalid., non syn. pro *Ceresium*; in original: “*Pneumida* Thomson n. stat.”, sic); Catalogue..., 2010: 156 (syn. pro *Ceresium*; wrong synonymy); Ślipiński, Escalona, 2016: 95 (syn. pro *Ceresium*; wrong synonymy).

Type species: *Pneumida argenteofasciata* J. Thomson, 1864.

**Composition.** The genus includes four species.

**Distribution.** Oriental realm.

*Pneumida argenteofasciata* J. Thomson, 1864  
(Color plate 7: 1–4; Color plate 8: 11)

*Pneumida argenteofasciata* J. Thomson, 1864: 191. Type locality: “Malasia” (according to the original description and the label of the holotype). Holzschuh, 1995: 16 (*Pneumida argenteofasciata* comb. rest.; in original: “*Pneumida argenteofasciata* Thomson n. stat.”, sic).

*Ceresium argenteofasciatum*: Gemminger, 1872: 2837; Aurivillius, 1912: 123.

*Derolus argentesignatus* Gressitt et Rondon, 1970: 76 (type locality: Laos, Vientiane Province, Nong Tevada, 170 m (according to the original description)). Hua, 1984: 34; Holzschuh, 1995: 16 (syn. pro *Pneumida argenteofasciata*); Miroshnikov, 2018: 244.

**Material.** 1♂, holotype, by monotypy (MNHN) (Color plate 7: 1), “*Pneumida* Thoms. S.C. 191”, “*argenteofasciata* Thoms. Type Malas.”, “Th. / Type”, “Ex Musæo James Thomson”, “Muséum Paris Coll. J. Thomson 1952”, “Lectotype ♂” (sic) (Color plate 7: 2); 1♂ (MNHN), “Cambodge, Rég. de Chichreng, G. Thomas 1912”, “Muséum Paris 1952 Coll. R. Oberthur”, 1♂, holotype of *Derolus argentesignatus* Gressitt et Rondon, 1970 (BM) (photograph; Color plate 7: 3); 1♂, paratype of *D. argentesignatus* (BMNH) (photograph; Color plate 8: 11); 1♂ (cAM) (Color plate 7: 4), NW Thailand, Mae Hong Son Prov., Pai env., ~600 m, road on Mae Yen waterfall, 19°21′42″N / 98°27′46″E – 19°22′01″N / 98°30′29″E, 27.04–9.05.2013 (leg. I. Melnik); 1♂ (cTT), same locality, ~530 m, 19°21′48″N / 98°27′57″E, 2–9.05.2013 (leg. O. Mosalov); 1♀ (cAM), N Thailand, Chiang Rai Prov., Doi Chang env., 640–750 m, 19°46′01″N / 99°28′11″E – 9°47′44″N / 99°27′06″E, 11–15.05.2013 (leg. I. Melnik); 1♀ (cFR) (photograph), Vietnam, Binh Thuan Prov., Dong Tien, 05.2018 (local collector).

**Morphological notes.** Body length 13.9–16 mm, humeral width 3.5–4.1 mm, thereby the holotype is 15 mm and 4.1 mm, respectively.

**Remarks.** The first author of this paper, noting *Derolus argentesignatus* in his recent publication [Miroshnikov, 2018], considered it premature to follow the above synonymy by Holzschuh’s [1995] without any comments. The reason for this was that he himself had not seen the type of *Pneumida argenteofasciata* (Holzschuh failed to present its picture), while in many works (see above), including

modern ones [Catalogue..., 2010; Ślipiński, Escalona, 2016], *Pneumida* is accepted as a synonym of *Ceresium*.

Now, after our present revision of the holotype of *P. argenteofasciata*, Holzschuh’s [1995] conclusions prove to be correct.

**Distribution.** Western Malaysia, Thailand, Cambodia, Laos, Vietnam.

*Pneumida trifulvofasciata* (Hayashi, 1975), **comb. n.**  
(Color plate 7: 5–7; Color plate 8: 8–9)

*Derolus trifulvofasciatus* Hayashi, 1975: 178 (type locality: Borneo, Sarawak, 40 miles West of Miri, Sibuti, Kayu Kapur Camp (according to the original description and the label of the holotype). Mizuno, Shiyake, 2004: 19, pl. 6, fig. 159; Heffern, 2013: 9.

**Material.** 1♀, holotype (OMNH) (photograph; Color plate 7: 5), “Kayu Kapur Camp, Sibuti, Sarawak, Borneo, 24.III.1970, M. Hayashi leg.”, “Holotype *Derolus trifulvofasciatus* Hayashi”, “M. Hayashi Coll. OMNH [98–32]” (Color plate 7: 6); 1♂ (FFPRI) (photograph), Indonesia, East Kalimantan, Bukit Soeharto, at light, 23.11.1998 (leg. H. Makihara); 1♀ (FFPRI) (photograph; Color plate 8: 8), same locality, at light, 18.11.1998 (leg. H. Makihara); 1♂ (FFPRI) (photograph; Color plate 8: 9), Indonesia, East Kalimantan, Bukit Bangkirai, at light, 25.08.1999 (leg. H. Makihara); 1♂ (LIPI) (photograph), same locality; 1♀ (cLD) (Color plate 7: 7), W Malaysia, Johor, 20 km S of Mersing, Jemaluang, 300 m, 1–14.02.2003 (leg. P. Čechovský).

**Morphological notes.** Body length 10.9–14.5 mm, humeral width 2.6–4 mm; thereby the holotype is 14 mm and 4 mm, respectively [Hayashi, 1975], while the female from Western Malaysia is the smallest.

**Distribution.** Until now, this species has only been known from Borneo [Hayashi, 1975; Mizuno, Shiyake, 2004; Heffern, 2013].

Based on the material studied, *P. trifulvofasciata* **comb. n.** is being recorded here from Western Malaysia, as from Indochina in general, for the first time.

*Pneumida argentella* Holzschuh, 1995  
(Color plate 8: 10)

*Pneumida argentella* Holzschuh, 1995: 17 (type locality: S Thailand, Betong, 05°51′N / 101°03′E (according to the original description)). Heffern, 2013: 11 (Borneo).

**Material.** 1♂, holotype (cCH) (photograph; Color plate 8: 10); 2♂ (NHMD), E Malaysia, Sabah, Crocker Range, 03.2003 (local collector), “*Pneumida argentella* Holz., Ole Mehl det. 2004 or 2005”; 1♂, (NHMD), same geographical label, but taken on 04.2014, “*Pneumida argentella* Holz., Ole Mehl det. 2014”; 1♂, 1♀ (NHMD), 1♀ (cAM ex NHMD), E Malaysia, Sabah, Trus Madi Mt., 03.2003 (local collector), “*Pneumida argentella* Holz., Ole Mehl det. 2004”; 1♂ (cAM ex NHMD), 1♀ (NHMD), same geographical label, but taken on 04.2005, “*Pneumida argentella* Holz., Ole Mehl det. 2006”; 1♂ (cTT), same geographical label, but taken on 06.2007 (local collector).

**Morphological notes.** Body length 9.2–14.9 mm, humeral width 2.15–3.7 mm; body length of holotype 12.2 mm [Holzschuh, 1995].

**Distribution.** Thailand, Eastern Malaysia; very likely, Indonesian part of Borneo.

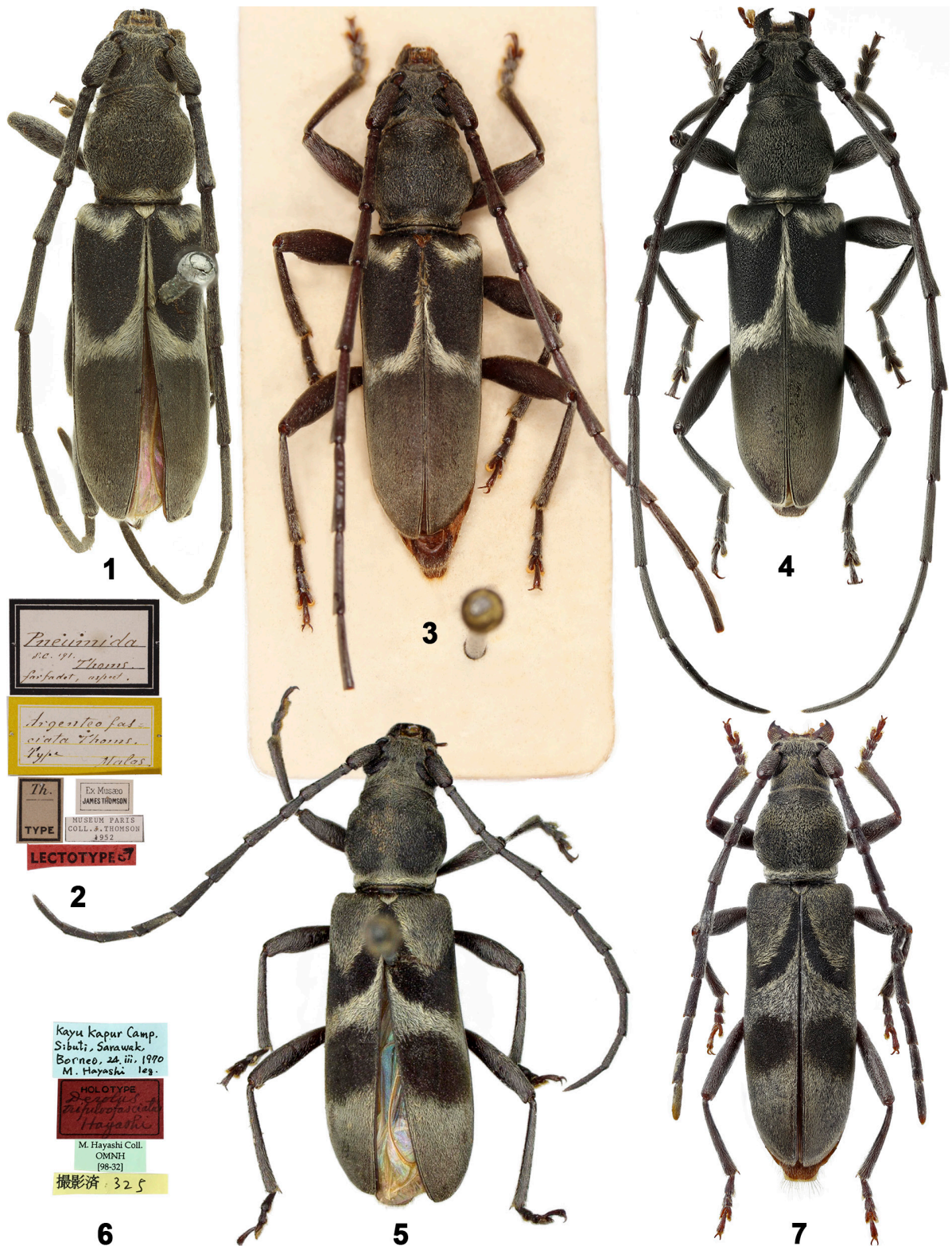
*Pneumida sagittifera* Holzschuh, 2010  
(Color plate 8: 12)

*Pneumida sagittifera* Holzschuh, 2010: 148 (type locality: Malaysia, Sabah, Trus Madi Mt. (according to the original description)). Heffern, 2013: 11.

**Material.** 1♀, holotype (cCH) (photograph; Color plate 8: 12).

**Morphological notes.** Body length 14.3–17.8 mm [Holzschuh, 2010].

**Distribution.** Eastern Malaysia; very likely, Indonesian part of Borneo.



Figs 1–7. *Pneumida* J. Thomson, 1864, habitus, dorsal view, and labels.  
 1–4 – *P. argenteofasciata* J. Thomson, 1864 (1–2 – photographs by Azadeh Taghavian; 3 – photograph by Nobuo Ohbayashi); 5–7 – *P. trifulvofasciata* (Hayashi, 1975), **comb. n.** (5–6 – photographs by Shigehiko Shiyake); 1–3, 5–6 – holotypes (3 – *Derolus argentesignatus* Gressitt et Rondon, 1970); 1, 3–4 – males; 5, 7 – females (7 – from Western Malaysia).

Рис. 1–7. *Pneumida* J. Thomson, 1864, общий вид сверху и этикетки.  
 1–4 – *P. argenteofasciata* J. Thomson, 1864 (1–2 – фотографии А. Тагвян; 3 – фотография Н. Обаяси); 5–7 – *P. trifulvofasciata* (Hayashi, 1975), **comb. n.** (5–6 – фотографии С. Шияке); 1–3, 5–6 – голотипы (3 – *Derolus argentesignatus* Gressitt et Rondon, 1970); 1, 3–4 – самцы; 5, 7 – самки (7 – из Западной Малайзии).

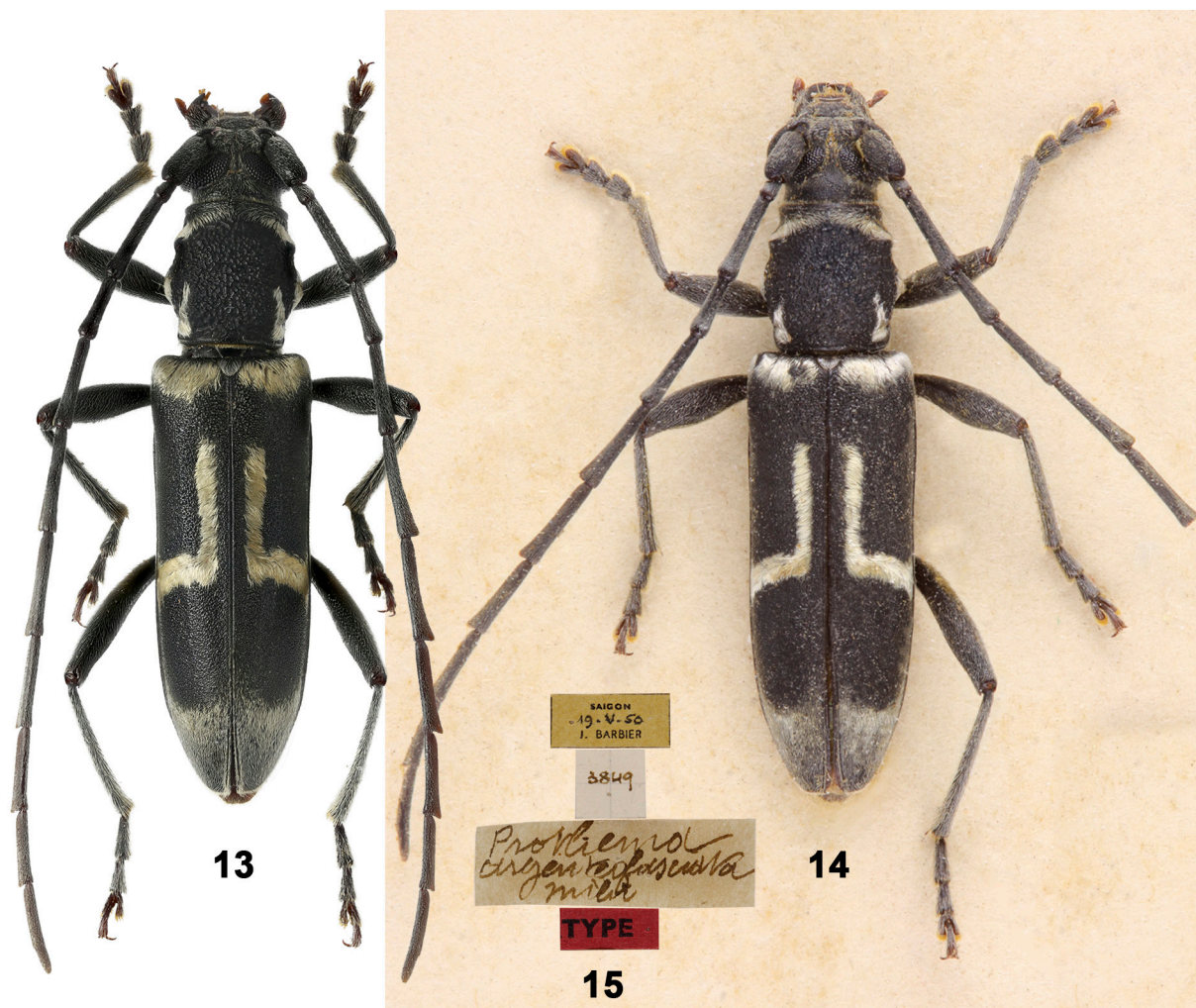


Figs 8–12. *Pneumida* J. Thomson, 1864, habitus, dorsal view.

8–9 – *P. trifulvofasciata* (Hayashi, 1975), **comb. n.** (from East Kalimantan; photographs by Hiroshi Makihara); 10 – *P. argentella* Holzschuh, 1995 (photograph by Luboš Dembičský); 11 – *P. argenteofasciata* J. Thomson, 1864 (paratype of *Derolus argentesignatus* Gressitt et Rondon, 1970; photograph by Luboš Dembičský); 12 – *P. sagittifera* Holzschuh, 2010 (photograph by Luboš Dembičský); 10, 12 – holotypes; 8, 12 – females; 9–11 – males.

Рис. 8–12. *Pneumida* J. Thomson, 1864, общий вид сверху.

8–9 – *P. trifulvofasciata* (Hayashi, 1975), **comb. n.** (из Восточного Калимантана; фотографии Х. Макихары); 10 – *P. argentella* Holzschuh, 1995 (фотография Л. Дембицкого); 11 – *P. argenteofasciata* J. Thomson, 1864 (паратип *Derolus argentesignatus* Gressitt et Rondon, 1970; фотография Л. Дембицкого); 12 – *P. sagittifera* Holzschuh, 2010 (фотография Л. Дембицкого); 10, 12 – голотипы; 8, 12 – самки; 9–11 – самцы.



Figs 13–15. *Derolus argenteofasciatus* (Pic, 1951), **comb. n.**, habitus, dorsal view, and labels.  
 13 – male from Thailand; 14 – holotype, male of *Prothema argenteofasciata* Pic, 1951. 14–15 – photographs by Azadeh Taghavian.  
 Рис. 13–15. *Derolus argenteofasciatus* (Pic, 1951), **comb. n.**, общий вид сверху и этикетки.  
 13 – самец из Таиланда; 14 – голотип, самец *Prothema argenteofasciata* Pic, 1951. 14–15 – фотографии А. Тагвян.

Key to species of *Pneumida*

- 1. Spot (fascia) of dense, recumbent, light setae at base of each elytron much less strongly developed and it not more than 3 times as long as scutellum, as in Color plate 7: 1, 3, 4; Color plate 8: 10, 11, thereby the spot behind can be connected only with a more or less narrow fragment of remaining pattern of similar setae, as in Color plate 8: 10 ..... 2
- Spot (fascia) of dense, recumbent, light setae at base of each elytron much more strongly developed almost reaching 1/3 of elytra length, as in Color plate 7: 5, 7; Color plate 8: 8, 9, 12 ..... 3
- 2. Elytra with a median comparatively narrow fascia of dense, recumbent, light setae extended along suture towards scutellum, as in Color plate 7: 1, 3, 4; Color plate 8: 11; male antennomeres 3 and 4 not inflated, as in Color plate 7: 1, 3, 4; Color plate 8: 11 ..... *P. argenteofasciata*
- Elytra without median fascia, but with a strongly developed peculiar pattern of dense, recumbent, light

- setae, as in Color plate 8: 10; male antennomeres 3 and 4 noticeably inflated, as in Color plate 8: 10 ..... *P. argentella*
- 3. Pronotum with a clearly sharper constriction at apex, as in Color plate 8: 12; median elytral fascia of dense, recumbent, light setae much more strongly developed, as in Color plate 8: 12 ..... *P. sagittifera*
- Pronotum with a clearly less sharp constriction at apex, as in Color plate 7: 5, 7; Color plate 8: 8, 9; median elytral fascia of dense, recumbent, light setae much less strongly developed, as in Color plate 7: 5, 7; Color plate 8: 8, 9 ..... *P. trifulvofasciata* **comb. n.**

Genus *Derolus* Gahan, 1891

*Derolus* Gahan, 1891: 26 (*Pachydissus* subgen.). Gahan, 1906: 135; Aurivillius, 1912: 58; Winkler, 1929: 1142; Plavilstshikov, 1931: 85; 1940: 111, 640; Gressitt, 1951: 141; Gressitt, Rondon, 1970: 72; Catalogue..., 2010: 159; Heffern, 2013: 9; Nga et al., 2014: 432; Kariyanna et al., 2017: 28; Vitali et al., 2017: 59; Miroshnikov, 2018: 242.

*Capnocerambyx* Reitter, 1894: 356 (type species: "*C. mauritanicus* Luc[as]. (sic)").

Type species: *Hammaticherus mauritanicus* Buquet, 1840, by subsequent designation [Gahan, 1906].

**Remarks.** The need for a detailed revision of this genus and the development of its clear-cut diagnosis has repeatedly been expressed in the literature, including some papers by one of the authors of the present publication [Miroshnikov, 2016, 2018]. At the same time, the systematic position of some taxa requires reconsideration and a tentative transfer to the genus *Derolus*. This seems the best option at least as regards the species quoted below, especially considering the synonymy proposed here.

*Derolus argenteofasciatus* (Pic, 1951), **comb. n.**  
(Figs 13–15)

*Prothema argenteofasciata* Pic, 1951: 11 (type locality: Vietnam, Saigon [now Ho Chi Minh] (according to the original description and the label of the holotype)). Hua, 1984: 35 (as *Derolus glauciapicalis*); Miroshnikov, 2018: 242 (as *Derolus glauciapicalis*).

*Derolus glauciapicalis* Gressitt et Rondon, 1970: 75, **syn. n.** (type locality: Laos, Sayaboury, 170 m (according to the original description)).

**Material.** 1♂, holotype, by monotypy (MNHN) (Fig. 14), "Saigon, 19.V.[19]50, J. Barbier", "3849", "*Prothema argenteofasciata* mihi", "Type" (Fig. 15); 1♂, holotype of *Derolus glauciapicalis* (BM) (photograph); 1♂ (cAM) (Fig. 13), NW Thailand, Lamphun, Mae Tha, 20.04.2011 (local collector); 1♀ (cTT), same label; 1♀ (cFR) (photograph), Vietnam, Binh Thuan Prov., Dong Tien, 05.2018 (local collector).

**Distribution.** Vietnam, Laos, Thailand.

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