

Four new *Agapanthia* (*Epoetes*) Gistel, 1857
(Coleoptera, Cerambycidae) from the West Siberia, Kazakhstan,
Azerbaijan and Iran

Четыре новых *Agapanthia* (*Epoetes*) Gistel, 1857
(Coleoptera, Cerambycidae) из Западной Сибири, Казахстана,
Азербайджана и Ирана

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Key words: new subspecies, taxonomy, Cerambycidae, Lamiinae, *Agapanthia* (*Epoetes*), Azerbaijan, Kazakhstan, Iran, Russia.

Ключевые слова: новые подвиды, таксономия, Cerambycidae, Lamiinae, *Agapanthia* (*Epoetes*), Азербайджан, Казахстан, Иран, Россия.

Abstract. *Agapanthia* (*Epoetes*) *dahli* (Richter, 1820) now includes 15 subspecies [Lazarev, 2013a, b; Lazarev et al., 2016]. Three new subspecies are described: *A. (E.) d. kuleshovi* **ssp. n.** (Russia, Tomsk environs), *A. (E.) d. lepsyensis* **ssp. n.** (Kazakhstan, Lepsy river valley), *A. (E.) d. iliensis* **ssp. n.** (Kazakhstan, Ili river basin), as well as one new subspecies of *A. (E.) lederi* Ganglbauer, 1884: *A. (E.) l. hodeki* **ssp. n.** (Iran, Gilan, Elburs Mts. and Azerbaijan, Talysh).

Резюме. *Agapanthia* (*Epoetes*) *dahli* (Richter, 1820) сейчас включает 15 подвидов [Lazarev, 2013a; 2013b; Lazarev et al., 2016]. Описаны три новых подвида: *A. (E.) d. kuleshovi* **ssp.n.** (Россия, окрестности Томска), *A. (E.) d. lepsyensis* **ssp.n.** (Казахстан, долина реки Лепсы), *A. (E.) d. iliensis* **ssp.n.** (Казахстан, бассейн реки Или), как и новый подвид *A. (E.) lederi* Ganglbauer, 1884: *A. (E.) l. hodeki* **ssp.n.** (Иран, Гилян, горы Эльбурс и Азербайджан, Талыш).

The subspecies structure of many *Agapanthia* Audinet-Serville, 1835 species is very complicated. New collecting efforts in poorly studied regions show the existence of new subspecies. Four of them are described below.

Abbreviations of collections: **DK** — collection of D. Kuleshov (Tomsk, Russia), **KH** — collection of K. Hodek (Brno, Czech Republic), **LS** — collection of L. Skořepa — (Peč, Czech Republic), **MD** — collection of M.L. Danilevsky (Moscow), **MM** — collection of M. Mařík (Prague, Czech Republic).

Agapanthia (*Epoetes*) *dahli kuleshovi* **ssp. n.**

Figs 1–2.

Material. *Holotype* — ♂, Russia, Tomskaya Obl., Belousovo env., 56°18'13" N, 85°11'53" E, 14.7.2013, D. Kuleshov leg. (MD). *Paratypes* — 94♂♂, 61♀♀, same locality, 1.07.2003, 1.07.2005, 30.06–24.07.2008, 2.07.2009, 10.08.2010, 4–18.06.2011, 9–18.06.2012, 26.06–4.08.2013, D. Kuleshov leg. (DK and MD); 1♂, 3♀♀ — Tomskaya Obl.,

Kozhevnikovo Distr., Osinovka (55°57'23" N, 83°29'18" E) env., 25.06.1993, 25.07.1993, V. Tyagelsky (DK).

Description. The new subspecies is geographically close to *A. (E.) calculensis* Lazarev, 2013 from north-east Kazakhstan, but morphologically strongly different: body much bigger; antennae very long, reaching elytral apices in males by 6th or 7th antennal joints, in female — by 8th or 9th antennal joints, but very rare about as long as elytra — surpassing elytral apices by 11th joint only; 3rd antennal joints with dense setae tufts, though short; 4th antennal joint without tufts; dorsal elytral pubescence very dense, orange-yellow, often nearly totally hiding elytral surface, often nearly uniform, with poorly arranged setae patches; black erect elytral setae near elytral bases relatively short, disappearing near elytral middle; grey humeral elytral stripe absent; the nominative subspecies has usually long setae tufts of 3rd antennal joints, strongly spotted elytra with numerous distinct setae patches and glabrous areas in between; erect elytral setae longer and wider distributed along elytral surface; body length in males: 13.0–21.4 mm, width: 3.3–6.0 mm, body length in females: 17.7–22.5 mm, width: 4.6–6.5 mm.

Distribution. Two populations are known in the south of Tomskaya Oblast of Russia in the environs of Belousovo (56°18'13"N, 85°11'53"E) and in the environs of Osinovka (55°57'23"N, 83°29'18"E).

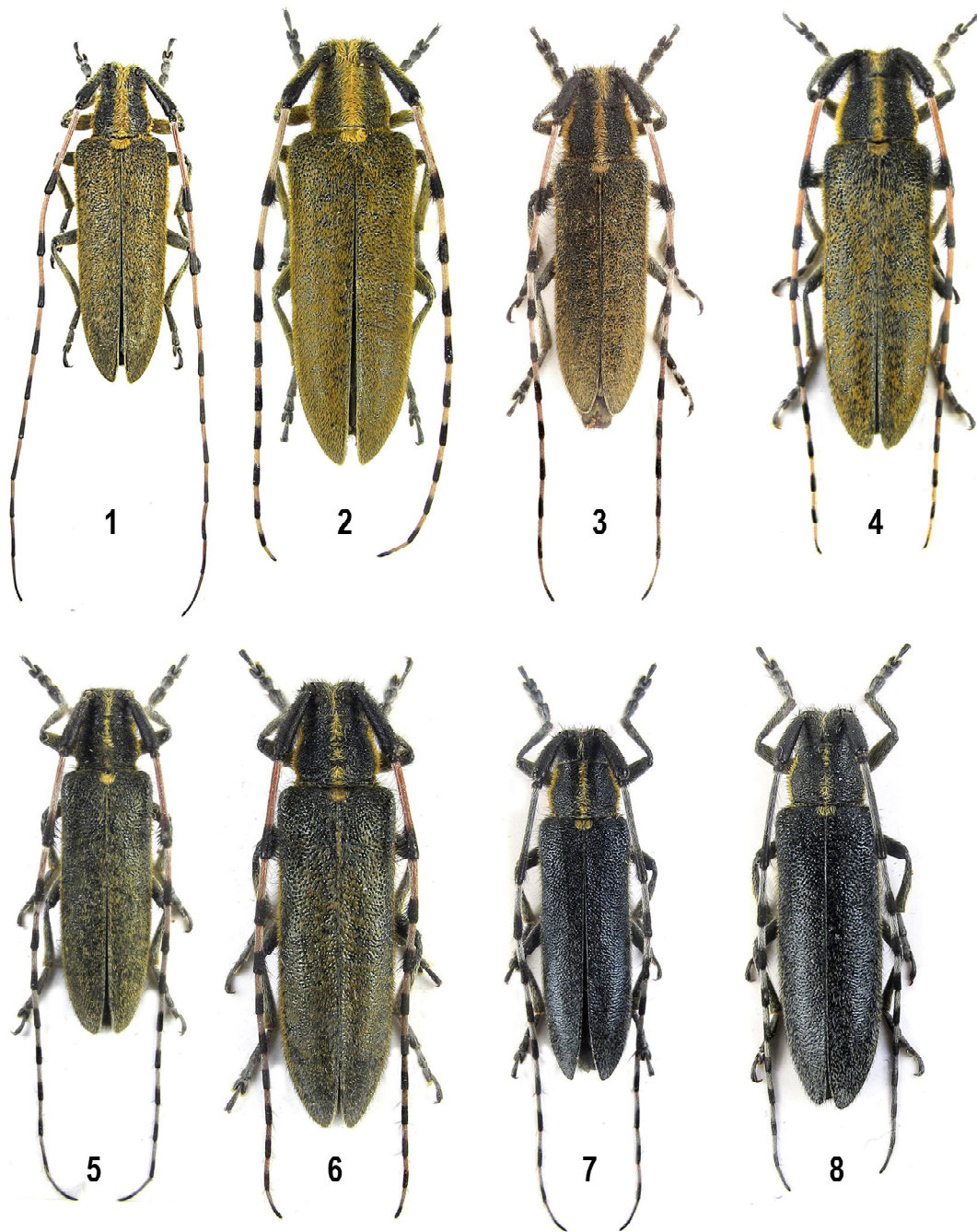
Biology. Imagoes are active from the beginning of June to the beginning of August. All beetles were observed on *Hera-cleum*.

Agapanthia (*Epoetes*) *dahli lepsyensis* **ssp. n.**

Figs 3–4.

Material. *Holotype* — ♂, Kazakhstan, Lepsy river, 7 km NE Koilyk, 45°41'36.22" N, 80°17'58.94" E, 3.6.2016, K. Hodek leg. (MD). *Paratypes* — 3♀♀ with same label (KH and MD); 1♀ — Kazakhstan, Lepsinsk environs, 10.06.2001, O. Gorbunov leg. (MD).

Description. The new subspecies is close to *A. (E.) dahli alexandris* Pic, 1901 (described from Kirgizsky mountain ridge and known eastwards to the slopes of Zailiysky Alatau) because of long and dense setae tufts of 3rd antennal joints,



Figs 1–8. *Agapanthia* spp.: 1 — *A. (Epopetes) dabli kuleshovi* ssp.n., male, holotype; 2 — *A. (E.) dabli kuleshovi* ssp.n., female, paratype; 2 — *A. (E.) dabli lepsyensis* ssp.n., male, holotype (photo by K. Hodek); 3 — *A. (E.) dabli lepsyensis* ssp.n., female, paratype; 5 — *A. (E.) dabli iliensis* ssp.n., male, holotype, 6 — *A. (E.) dabli iliensis* ssp.n., female, paratype; 7 — *A. (E.) lederi hodeki* ssp.n., male, holotype (photo by K. Hodek); 8 — *A. (E.) lederi hodeki* ssp.n., female, paratype.

Рис. 1–8. *Agapanthia* spp.: 1 — *A. (Epopetes) dabli kuleshovi* ssp.n., самец, голотип; 2 — *A. (E.) dabli kuleshovi* ssp.n., самка, паратип; 2 — *A. (E.) dabli lepsyensis* ssp.n., самец, голотип (фотография сделана К. Ходеком); 3 — *A. (E.) dabli lepsyensis* ssp.n., самка, паратип; 5 — *A. (E.) dabli iliensis* ssp.n., самец, голотип; 6 — *A. (E.) dabli iliensis* ssp.n., самка, паратип; 7 — *A. (E.) lederi hodeki* ssp.n., самец, голотип (фотография сделана К. Ходеком); 8 — *A. (E.) lederi hodeki* ssp.n., самка, паратип.

bright and dense yellow-orange elytral pubescence, but grey humeral stripes absent; elytra pubescence distinctly denser, more even, with less pronounced setae patches, setae tufts of 4th antennal joints poorly developed (usually distinct in *A. d. alexandris*); black erect elytral setae very long near elytral bases, disappearing near elytral middle; body length in male: 16.5 mm, width: 4.4 mm, body length in females: 15.3–17.6 mm, width: 3.8–4.7 mm.

Distribution. Kazakhstan, Lepsy river valley: 7 km NE Koilyk, 45°41'36.22" N, 80°17'58.94" E and near Lepsinsk.

Biology. Imagoes are active at the beginning of June. Beetles were observed on *Malva*.

Agapanthia (Epopetes) dahli iliensis ssp. n.

Figs 5–6.

Material. *Holotype* — ♂, Kazakhstan, Almatinskaya Oblast, at the road south of Lake Sorbulak (43°33'57.65" N, 76°36'24.93" E), 670 m, 7.06.2016, K. Hodek leg. (MD). *Paratypes* — 7♂♂, 7♀♀, with same label, (KH and MD); 1♂ — from same locality, 7.06.2016, M. Mařik leg. (MM).

Description. The taxon is geographically close to *A. (E.) dahli alexandris* Pic, 1901 from neighbor mountains of Zailiysky Alatau, but easily differs because of poorly developed elytral pubescence; elytra looks relatively dark; small sparse setae patches separated with strongly shining cuticula areas; antennae also darker, than usually in *A. dahli* — red-brown; antennal setae tufts strongly developed, long and dense, usually distinct up to 5th joint; black erect elytral setae very long near elytral bases, disappearing near elytral middle; grey humeral elytral stripe absent; body length in males: 14.0–19.7 mm, width: 3.5–4.7 mm, body length in females: 15.1–19.7 mm, width: 3.7–5.0 mm.

Distribution. Kazakhstan, Almatinskaya Oblast, plane northwards Zailiysky Alatau; one population known near the road southwards Sorbulak lake (43°33'57.65" N, 76°36'24.93" E).

Biology. Imagoes are active at the beginning of June. Beetles were observed on *Malva*.

Agapanthia (Epopetes) lederi hodeki ssp. n.

Figs 7–8.

Material. *Holotype* — ♂, «Iran, p. Gilan, Rostamabad, 12 km W, 1550 m, 6.06.2017, 36°55', 49°23', K. Hodek leg.» (MD). *Paratypes* — 20♂♂, 6♀♀ with same label (KH and MD); 1♂, 2♀♀ — «Iran, NW, prov. Gilan, Salaneh Sar, 20 km W Rostamabad, 4.06.2015, Lgt. Skořepa» (LS); 1♂ — «Kasp. Meer-Geb. / Talysch / 1897 Korb» (MD); 1♂ — Talysch, 10.05.1988, Voronin (MD); 1♂, 2♀♀ — Talysch, 17.07.1981, S.Nikireev (MD); 1♀ — Lerik, 7.05.1983, S. Nikireev (MD); 1♀ — Talysch, Avrora, 28.05.1979, M. Danilevsky leg. (MD).

Description. The taxon is close to different Caucasian mountain populations, which were identified as *A. subchalybaea* Reitter, 1898 (from Black Sea slopes to many localities in Central Caucasus) or *A. subnigra* Pic, 1890 (from Georgia), but probably better must be classified as subspecies of *A. lederi* Ganglbauer, 1884.

Body black with metallic luster; eyes big, but lower eye lobes a little shorter than genae; antennae black, certain antennal joints can be narrowly reddish basally; white antennal rings poorly pronounced occupying about a half or more of each joint; 1st and 2nd antennal joints combined about as long as 4th joint; 3rd joint much longer; in males 7th antennal joint far surpassing elytral apices, in females 9th joint hardly reaching elytral apices; prothorax about 1.2 times wider than long in males or 1.3 times in females; angulated laterally behind middle; much narrower anteriorly than posteriorly; pronotum without pale recumbent pubescence, but with narrow central longitudinal line; erect sparse black pronotal setae moderately long; elytrae in males about 4.3 times longer than basal width, in females — about 3.9 times; with more or less narrow rounded apices; elytral punctuation very small and dense; sparse recumbent pubescence very short, indistinct; grayish pale humeral stripe usually indistinct, but in population from lowland (Avrora environs) pale elytral pubescence denser and grey humeral stripe visible; erect black elytral setae moderately long in anterior elytral half; male pygidium deeply emarginated, last male sternite feebly emarginated, nearly truncated; last abdominal tergite in females nearly truncated, sternite — emarginated; body length in males: 13.3–16.8 mm; width: 3.4–4.2 mm; body length in females: 12.2–16.9 mm; width: 3.0–4.3 mm.

Distribution. Elburs mountain ridge and Talysh mountains with foothills; Iran, Gilan, about 12 km north-westwards Rostamabad (36°55' N, 49°23' E); Azerbaijan, Talysh (several localities including Lerik and Aurora).

Biology. Imago active from May to June. The beetles were observed on local *Sambucus* similar to Central European *S. ebulus*. It is interesting to note, I collected many specimens of typical *A. lederi* Gang., on about same food plant in North Caucasus near Krasnodar.

Etymology. The taxon is dedicated to Karel Hodek, who collected the holotype and most part of the type series.

Acknowledgements

I am very grateful to Dmitry Kuleshov (Tomsk) and Karel Hodek (Brno) for loan of the specimens for study. My sincere thanks to Karel Hodek for 2 photos of specimens.

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