

Distributional notes on *Lacon nadaii* and *L. unicolor* (Coleoptera: Elateridae)

Poznámky k rozšíření *Lacon nadaii* and *L. unicolor* (Coleoptera: Elateridae)

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Abstract. Records of *Lacon nadaii* Platia & Németh, 2011 and *Lacon unicolor* (Candéze, 1874) are listed. Published records of *L. unicolor* from Turkey were revised and the specimens proved to belong to *L. nadaii*. Additional specimens of *L. nadaii* were found in Turkey, Iran and Iraq. Habitus and habitat photographs of both species and distributional map are also given.

Key words: Coleoptera, Elateridae, *Lacon nadaii*, *L. unicolor*, distribution, Asia, Iran, Iraq, Turkey

Collections

The material studied is deposited in the Hungarian Natural History Museum, Budapest (HNHM), (Hungary), National Museum, Praha (NMP) (Czech Republic), private collections of Václav Dušánek, Zábřeh (Czech Republic), Dirk Frenzel, Sonneberg (Germany), Sándor Illiczky, Budapest (Hungary), Vítězslav Kubáň, Šlapanice (Czech Republic), Josef Mertlik, Opatovice nad Labem (Czech Republic), László Nádaï, Budapest (Hungary), Giuseppe Platia, Gatteo (Italy) and Béla Szelenczey, Győr (Hungary).

Distribution of *Lacon nadaii* Platia & Németh, 2011

Described from Iran: prov. Kordestan, Askaran (35°05.095'N, 46°54.239'E), 25 km S from Sanandag, Kuhhâ-ye-Zagros, Kuh-e-Shâhn, 1350 m, 8.vi.2007, 1 ♂ (holotype), at light, L. Nádaï leg., HNHM coll.; dtto, 1 ♂ (paratype), G. Platia coll.

Published data:

Turkey, prov. Mardin, Haberli, 33 km SE Midyat (37°17'N, 41°35'E), 17.v.2001, 1 ♂, S. Kadlec leg., J. Mertlik det. et coll. (Mertlik & Platia 2008 as *Lacon unicolor*), J. Mertlik revid. 2014.

New data:

Iran, prov. Kordestan, Mts. Zagros, Askaran (35°05.0881'N, 46°54.237'E), 1365 m, 8.v.2008, 1 ex., singling and sweep netting, T. Háczy, K. Székely & K. Vig leg., J. Mertlik det. 2010 as *Lacon unicolor*, T. Németh revid. 2014, HNHM coll.

Turkey, prov. Siirt, Baykan dint., 18.v.2012, 1 ♂, A. Kozlov leg., G. Platia det. et coll.

Iraq, prov. Kurdistan, Khurmal, 700 m, 15.vi.1976, 2 ♂♂, J. Macek leg., V. Kubáň et J. Mertlik coll., J. Mertlik det. 2014.

Iraq, prov. Kurdistan, Penjwin, 1300 m, 11.v.1976, 1 ♂, J. Macek leg., V. Kubáň coll., J. Mertlik det. 2014.

New species for Iraq and Turkey.

Distribution of *Lacon unicolor* (Candèze, 1874)

Described from Iran [Perse. (Coll. Jans.)].

Published data:

- Iran: Pusht-i Kuh, 2000 m [Poucht-é-Kouh: Halazard] (Buysson 1906).
 Iran, Pusht-i Kuh, Shirvan, 900 m [Poucht-é-Kouh: Chirvan] (Buysson 1906).
 Iran, without exact locality and data, 2 ex., F. Brandt leg. (Platia & Gudenzi 1999).
 Iran, prov. Mazandaran, valley of Haraz Chay river, 22 km S Amol, C Elburz Mts, 23.-24.vii.1970, 1 ex., loc. no. 69, Exp. Nat. Mus. Praha (Cate, Platia & Schimmel 2002).
 Iran, prov. Khuzestan, Pol-e Tang, 60 km NW Andimeshk, 490 m, 10.-11.iv.1977, 3 ex., loc. no. 284, Exp. Nat. Mus. Praha (Cate, Platia & Schimmel 2002) – 1 ♂, 1 ♀, in NMP coll., J. Mertlik revid. 2014.
 Iran, prov. Fars, vic. Qualat (29°48'13"N, 52°19'11"E), 2000-2150 m, 28.iv.2010, 1 ♂, D. Frenzel leg. et coll., G. Platia det. (Platia 2013).
 Iran, prov. Fars, 30 km E Kazerun, 8.-10.vi.1973, 4 ex., loc. no. 229, Exp. Nat. Mus. Praha (Cate, Platia & Schimmel 2002) – 1 ex. in G. Platia coll., 3 ♂♂, in NMP coll., J. Mertlik revid. 2014.
 Iran, prov. Kerman, Posht-e Kuh, 50 km NW Dowlatabad, 1700 m, 21.-22.v.1977, 1 ex., loc. no. 343, Exp. Nat. Mus. Praha (Cate, Platia & Schimmel 2002).

New data:

- Iran, prov. East Azerbaijan, Sarqi, 15km E of Ahar, village Tazekandi, 14.vi.2004, 1 ex., at light, K. Gaskó & Gy. Rozner leg., T. Németh det. 2011, HNHM coll.
 Iran, prov. Alborz, Keredj, Elbursgebirge [Teheran, Keredj, 1 ex., Brandt], 1936, 1 ex., W. Brandt leg., G. Platia det. et coll.
 Iran, prov. Markazi, Tagarak, 2.iv.2004, 2 ex., Benedek et Háciz leg., Platia det. 2010, HNHM coll.
 Iran, prov. Ilam, 30 km NW Ilam (33°43'N, 46°25'E), 1786 m, 7.vii.2004, 5 ♂♂, 1 ♀, at light, Stanislav Kadlec leg., J. Mertlik det. et coll.; dtto, 1 ♂, Petr Kabátek leg., J. Mertlik det. et coll.
 Iran, prov. Lorestan, 10 km SW Dorud (33°26'N, 49°00'E), 1431 m, 9.vii.2004, 5 ♂♂, 1 ♀, at light, Stanislav Kadlec leg., J. Mertlik det. et coll.
 Iran, prov. Lorestan, 25 km NWW Dorud (33°33'N, 48°53'E), 1874 m, 8.vii.2004, 2 ♂♂, at light, Stanislav Kadlec leg., J. Mertlik det. et coll.
 Iran, prov. Lorestan, Kūhha-ye Zagros Mts, 25 Km S of Dorud Seppidast, 20.-21.vi.2000, 2 ex., Gy. Rozner leg., T. Németh det. 2011, HNHM coll.
 Iran, prov. Kohgiluyeh Va Boyer Ahmad, Kuh-e Dinar Mts, 2700 m, valley E of Sisaht vill. (30°50.08'N, 51°33.08'E), 6.vii.2001, 1 ♂, Miroslav Kalabza leg., J. Mertlik det. et coll.
 Iran, prov. Kohgiluyeh Va Boyer Ahmad, Kuhha-ye-Zagros, Pataveh, 1567 m, 12.vi.2012, 2 ex., at light, Sándor Ilnczky leg., T. Németh det 2012, HNHM coll.; 13.vi.2012, 1 ex., Sándor Ilnczky leg. et coll., T. Németh det. 2014. Iran, prov. Fars, Shiraz [Schiras, Matthiesen, *unicolor*], 1 ex., Reitter coll. in coll. HNHM.
 Iran, prov. Fars, Yasug NW Shiraz, vil. Kakan (30°40'N, 51°43'E), 13.vi.1999, 1 ♂, E. & P. Hajdaj leg., J. Mertlik det. et coll.
 Iran, prov. Fars, (Mt) Kūhha-ye Zagros, 50 Km W of Siraaz Sangar, 22.-23.vi.2000, 1 ex., Gy. Rozner leg., T. Németh det. 2011, HNHM coll.
 Iran, prov. Fars, Saadat-Shah 1900 m , 20.iv.1999, 1 ex., Nikola Rahmé leg., Béla Szelenczey coll.
 Iran, prov. Fars, Zagros Mts, 1450 m, 10 km N Firuz Abad (28°55'N, 52°31'E), 20.-21.iv.2000, 2 ♂♂, at light, Iran 2000 Czech Biological Expedition, J. Hájek & M. Mikát leg., NMP coll., J. Mertlik det. 2005; dtto, 1 ♂, J. Mertlik coll.; dtto, 1 ♂, M. Mikát leg., J. Mertlik coll.; dtto, 1 ♂, V. Dušánek coll., J. Mertlik det. 2014.
 Iran, prov. Fars, Zagros Mts, Kuh-e Dinar, Yasuj env., Vasag, 7.vi.2006, 1 ex., at light, Sándor Ilnczky leg. et coll., T. Németh det. 2014.
 Iran, prov. Fars, Zagros Mts, Kuh-e-Dinar, 15 km N from Vasag (30°30.140' N, 51°42.376' E), 2350 m, 12.vi.2007, 1 ex., László Náday leg. et coll.



Fig. 1. *Lacon nadaii*, ♂
Body length 12.0-14.5 mm



Fig. 2. *Lacon nadaii*, ♀
Body length 14.0 mm



Fig. 3. *Lacon unicolor*, ♂
Body length 13.0-17.5 mm



Fig. 4. *Lacon unicolor*, ♀
Body length 15.5-17.5 mm

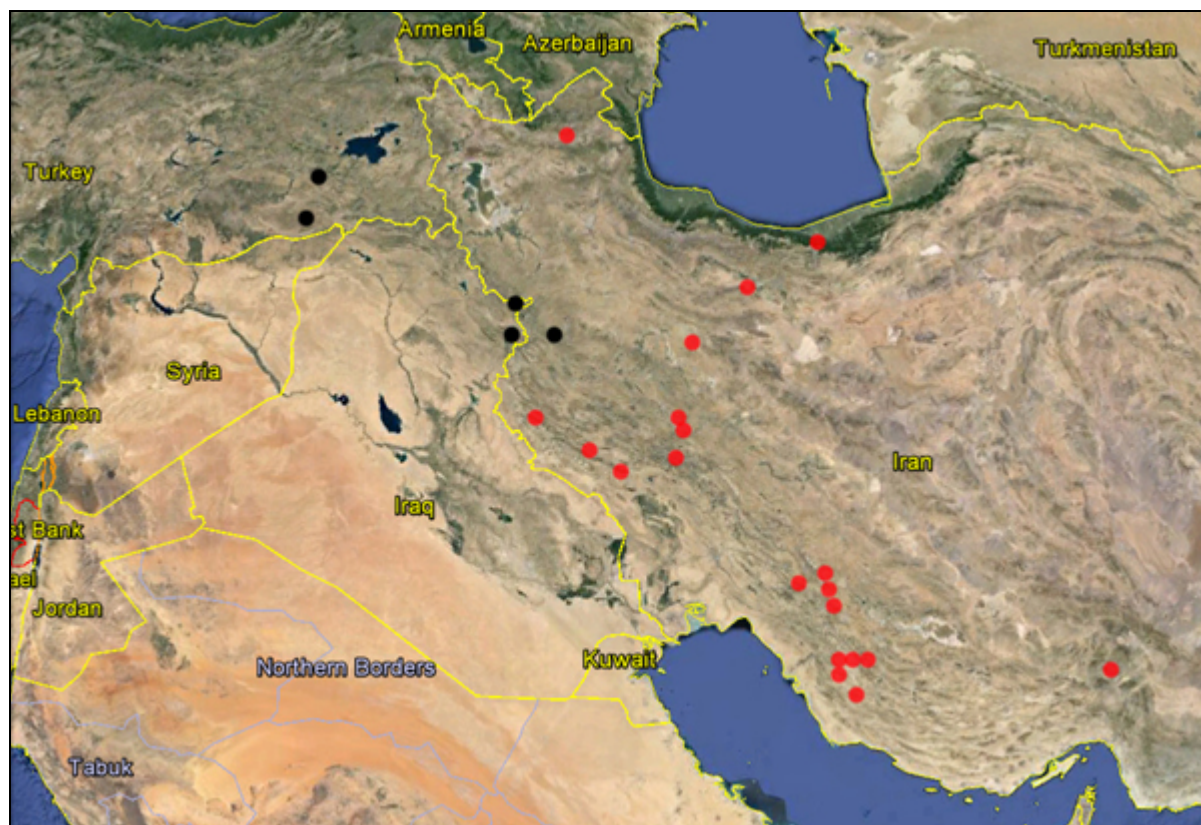


Fig. 5. Distributional map of *Lacon nadaii* (black dots) and *Lacon unicolor* (red dots).



Fig. 6. Turkey, prov. Mardin, Haberli, 17.-19.v.2001. Biotope of *Lacon nadaii* – foto Martin Rejzek.
Trip-report of expedition is online at <http://www.cerambyx.uochb.cz/>



Fig. 7. Iran, prov. Fars, Zagros Mts, 1450 m, 10 km N Firuz Abad (28°55'N, 52°31'E), 20.-21.iv.2000
Biotope of *Lacon unicolor* – foto Jiří Hájek



Fig. 8. Iran at night, July 2004. Light trap and colleagues Petr Kabátek (right) and † Stanislav Kadlec
Photo by Martin Rejzek. Trip report of expedition is online at <http://www.cerambyx.uochb.cz/>

DISCUSSION

Lacon nadaii is compared by original description to *Lacon unicolor* for the general shape and size. *Lacon nadaii* can be easily separated from *L. unicolor* by black piceous colour, shagreened dorsal surface giving this species a dull appearance, and shorter third antennomere.

We had at our disposal 8 specimens of *L. nadaii* and 40 specimens of *L. unicolor*. The characters used in the differential diagnoses are mostly stable, only one specimen of *L. nadaii* from Haberli (Turkey) has the third antennomere similar to that of *L. unicolor*, and one specimen from Khurmal (Iraq) has the coloration of basal part of elytra and hind pronotal angles the same as *L. unicolor*. Except these two cases, both species can be easily separated by the original descriptions.

The above mentioned list of records for *L. nadaii* and *L. unicolor* enable us to delimit the borders of distributional areas of these species (Fig. 5). Both species are distributed in Armenian-Iranian province in Iraq-Turanian area of Holarctis. *Lacon nadaii* occurs in the northwestern part of that province, whilst *L. unicolor* is distributed in the central part.

The bionomics of both species is unknown. Several specimens were collected by beating oak branches, however, the majority of specimens were collected at light.

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