

New distribution of palaeartic Alleculinae (Coleoptera: Tenebrionidae)

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Abstract. A new distributional data on the twenty-two palaeartic species of comb clawed beetles (Alleculinae) are presented as follows: *Allecula* (*A.*) *rhenana* Bach, 1856 (Iran - the first record from Asia), *Allecula* (*A.*) *vietnamica* Novák, 2017 (China: Yunnan Province - the first record from the Palaearctic Region), *Bobina jendeki* Novák, 2015 (China: Yunnan Province), *Mycetocharina* (*M.*) *braaschi* Muehe, 1982 (Oman), *Mycetocharina* (*M.*) *vanharteni* Novák, 2008 (Oman), *Mycetocharina* (*M.*) *wittmeri* Muehe, 1982 (Oman), *Prionychus ater* (Fabricius, 1775) (Montenegro), *Prionychus cisteloides* Seidlitz, 1896 (Jordan), *Isomira* (*I.*) *umbellatarum* (Kiesenwetter, 1863) (Albania), *Gonodera corynthia* Fairmaire, 1884 (Lebanon), *Gonodera macrophthalma* Reitter, 1884 (Georgia), *Microcistela rosinae* Pic, 1904 (South Korea), *Cteniopinus* (*C.*) *hypocrita* (Marseul, 1876) (China: Quinghai Province), *Cteniopus* (*Ctenioposomus*) *preisneri preisneri* Wittmer, 1936 (Israel), *Cteniopus* (*Rhinobarus*) *sveci* Novák, 2017 (Greece, Macedonia), *Gastrhaema gharbensis* Théry, 1932 (Spain), *Heliotaurus* (*H.*) *coralinus* Reitter, 1890 (Morocco), *Heliotaurus* (*H.*) *sanguinicollis sanguinicollis* Reitter, 1906 (Morocco, Portugal), *Omophlus* (*Od.*) *atticus* Reitter, 1906 (Albania), *Omophlus* (*Od.*) *flavipennis* Küster, 1849 (Albania), *Omophlus* (*Od.*) *syriacus* Mulsant, 1856 (Iran) and *Podonta ambigua* Kiesenwetter, 1873 (Bulgaria).

INTRODUCTION

Current information on the distribution of comb clawed beetles (Alleculinae) in the Palaearctic Region is given in new Catalogue of Palaearctic Coleoptera - Volume V - Tenebrionidea (Novák 2020). Based on determination species in collections of Alleculinae (list below) after 2020 new distributional data of the twenty two species in genera *Allecula* Fabricius, 1801, *Bobina* Novák, 2015, *Mycetocharina* Seidlitz, 1890, *Prionychus* Solier, 1835, *Isomira* Mulsant, 1856, *Gonodera* Mulsant, 1856, *Microcistela* Pic, 1904, *Cteniopinus* Seidlitz, 1896, *Cteniopus* Solier, 1835, *Gastrhaema* Jacquelin du Val, 1863, *Heliotaurus* Mulsant, 1856, *Omophlus* Dejean, 1834 and *Podonta* Solier, 1835 are presented.

The species *Allecula vietnamica* Novák, 2017 is newly recorded from the Palaearctic Region (China: Yunnan Province). The species *Allecula rhenana* Bach, 1856 is recorded from Asia (Iran) in the first time.

MATERIAL AND METHODS

The following collection codes is used:

- DFPC private collection of David Frank, Praha, Czech Republic;
FPHC private collection of Filip Pavel, Hradec Králové, Czech Republic;

- HNHM collection of Hungarian Natural History Museum, Budapest, Hungary;
 KOFC private collection of Kamil Orszulik, Frýdek Místek, Czech Republic;
 LENC private collection of Ladislav Ernest, Nymburk, Czech Republic;
 MKVC private collection of Miloš Krejčíř, Vlašim, Czech Republic;
 MLNG private collection of Michael Langer, Niederwiesau, Germany;
 MMHC private collection of Miroslav Mikát, Hradec Králové, Czech Republic;
 NMBS collection of Naturhistorisches Museum, Basel, Switzerland;
 NMEG collection of Naturkundemuseum, Erfurt, Germany;
 NMPC collection of National Museum, Praha, Czech Republic;
 OKZC private collection of Ondřej Konvička, Zlín, Czech Republic;
 PVLC private collection of Pavel Vonička, Liberec, Czech Republic;
 TKHC private collection of Tomáš Kopecký, Hradec Králové, Czech Republic;
 VNPC private collection of Vladimír Novák, Praha, Czech Republic;
 VZPC private collection of Vladimír Zieris, Pardubice, Czech Republic;
 WZRG private collection of Wolfgang Ziegler, Rondeshagen, Germany.
- Other abbreviations used in the text: hb= handwritten black, pb= printed black.

FAUNISTICS

Subfamily *Alleculinae* Laporte, 1840

Tribe *Alleculini* Laporte, 1840

Subtribe *Alleculina* Laporte, 1840

Genus *Allecula* Fabricius, 1801

Type species: *Cistela morio* Fabricius, 1787.

Subgenus *Allecula* Fabricius, 1801

Type species: *Cistela morio* Fabricius, 1787.

Allecula (Allecula) rhenana Bach, 1856

Material examined: (1 ♂): IRAN north, Asalem, 25.viii.2018, J. Mueller lgt. (VNPC).

Distribution. Austria, Belgium, Bosnia Herzegovina, Croatia, Czech Republic, Denmark, France, Germany, Georgia, Greece, Hungary, Italy, The Netherlands, Norway, Poland, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, South European Territory of Russia, Sweden, Switzerland, Turkey, Ukraine. **New for Iran, the first record for Asia.**

Allecula (Allecula) vietnamica Novák, 2017

Material examined: (1 ♂ and 1 unsexed specimen): CHINA, Yunnan/Honghe / Gulinqin, 520m, 22°43'31''N / 103°59'57'' E, 10.VI.2018, / leg. A. Weigel, UWP-KL, (NMEG, VNPC).

Distribution. Vietnam (north). **New species for fauna of the Palaearctic Region and China (Yunnan Province).**

Genus Bobina Novák, 2015

Type species: *Bobina jendeki* Novák, 2015.

Bobina jendeki Novák, 2015

Material examined: (1 ♂): CHINA: Yunnan/Honghe / Qibaofeng, 1350 m, / 23°4'4.2''N, 103°23' / 46.9'' E, 17.VI.2018 / leg. A. Weigel KL/KF, (VNPC). (1 ♂): CHINA, Yunnan/Honghe / Gulinqin, 520m, 22°43'31''N / 103°59'57'' E, 10.VI.2018, / leg. A. Weigel, UWP-KL, (NMEG).

Distribution. China (Hunan, Jiangxi and Sichuan Provinces), Oriental Region. **New for China (Yunnan Province).**

Genus Mycetocharina Seidlitz, 1890

Type species: *Allecula orientalis* Faust, 1877.

Subgenus Mycetocharina Seidlitz, 1890

Type species: *Allecula orientalis* Faust, 1877.

Mycetocharina braaschi Muche, 1982

Material examined: (2 ♂♂): OMAN: AL BATINAH S Gov., / Wadi Bani Awf, 1.XI.2019, / pools, at light, / 23°14.2'N, 57°25.9'E, 640 m, / J. Hájek & T. Reitter lgt., (NMPC, VNPC).

Distribution. Arab Emirates, Saudi Arabia. **New for Oman.**

Mycetocharina vanharteni Novák, 2008

Material examined: (4 ♂♂, 4 ♀♀): N OMAN Al Batinah North / prov. Zaymi, 520m / 24°27'12''N 56°17'11''E / 31 I – 1 2 2020 / leg. P Kabátek, (VNPC). (1 ♀): Qarhat Mu'ammur / 21°38'N/59°18'E / Camp 130m 23.III. (hb) // Oman Eastern / Sands Project // Oman 1986 / W. Buttiker, (NHMB).

Distribution. Arab Emirates. **New for Oman.**

Mycetocharina wittmeri Muche, 1982

Material examined: (1 ♂): SULTANATE OF OMAN / DHOFAR prov. / WADI AL MUGHSAYL / 21.-30.8.2007 / J. Horák leg., (VNPC); (1 ♂): SULTANATE OF OMAN / DHOFAR prov. / WADI AL MUGHSAYL / 6.-8.9.2007 / J. Horák leg., (VNPC); (1 ♂): Sultanate of Oman / 8 km S of Shiva / 25.03.2018 / Pavel & Kazdová leg. // N 22°29'53.0'' / E 059°36'11.8'', (FPHC); (2 ♂♂): OMAN: DHOFAR Gov., 23.x.2019, / 17 km NW of Raysut, / Wadi Shaith; pools, at light, / 17°00.0'N, 55°50.5'E, 160 m, / J.Hájek & T.Reitter lgt., (NMPC, VNPC); (1 ♂): OMAN: DHOFAR Gov., 24.x.2019, / Ain Ayun; pools, at light, / 17°14.8'N, 55°53.3'E, 675 m, / J.Hájek & T.Reitter lgt., (NMPC, VNPC); (1 ♂, 1 ♀): Oman mer. 9.3.2019 / Rakhvut / 16 44'54'' . 53 13'26'' / lgt. K. Orszulik, (KOFK).

Distribution. Saudi Arabia. New for Oman.

Genus *Prionychus* Solier, 1835

Type species: *Helops ater* Fabricius, 1775.

Prionychus ater (Fabricius, 1775)

Material examined: (1 unsexed specimen): Monte Negro 29.6.2015 / Doni Štoj, Safari Beach env. / 41.904401 N, 19.263831 E / Lgt. T. Kopecký, (TKHC).

Distribution. Albania, Austria, Bulgaria, Belarus, Croatia, Central European Territory of Russia, Czech Republic, Denmark, Estonia, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Moldova, The Netherlands, Norway, North European Territory of Russia, Poland, Portugal, Romania, Russia, Slovakia, Spain, South European Territory of Russia, Sweden, Switzerland, Ukraine, West Siberia. **New for Montenegro.**

Prionychus cisteloides Seidlitz, 1896

Material examined: (1 unsexed specimen): N. Jordan. / J. Klapperich // Jenin. 600 m / 26.6.1957 (pb) // von ambruche / Feigenbaum (hb), (HNHM).

Distribution. Greece (Island Rhodes), Cyprus, Israel, Iran, Lebanon, Syria, Turkey. **New for Jordan.**

Subtribe *Gonoderina* Seidlitz, 1896

Genus *Gonodera* Mulsant, 1856

Type species: *Cistela fulvipes* Fabricius, 1792 (= *Cistela luperus* Herbst, 1783).

Gonodera corynthia Fairmaire, 1884

Material examined: (1 ♂): LEBANON, Northern gov., / Tannourine env., 2 km N / Harissa, Tannourine Cedars / Nat. Reserve, swept & singled. // 34°12'34''N, 35°55'45''E, / 1750 m, 16.VI.2016, leg. / A. Kotán, P. Nemes & T.

Németh (No. 1.), (VNPC); (1 ♂): same data, but 19.VI.2016 and (No. 10), (HNHM); (1 ♂): LEBANON, Northern gov., / Bcharre env., 1 km E Ariz, / Horsh Arz el-Rab, / ancient *Cedrus* forest, // swept & singled, // 34°14'33''N, 36°2'59''E, / 1900 / m, 20.VI.2016, leg. A. Kotán, / P. Nemes & T. Németh (No. 11.), (HNHM); (1 ♂): LEBAN., Northern gov., Bcharre / env., 1 km E Ariz, Horsh Arz el- / Rab, ancient *Cedrus* forest, 34° / 14'33''N, 36°2'59''E, 1900 m, / 20.V.2015, leg. Márkus, Németh, (HNHM).

Distribution. Syria, Turkey. **New for Lebanon.**

***Gonodera macrophthalma* Reitter, 1884**

Material examined: (1 ♀): Gruzia / Rica Lake / 26.V.1975 // Leg. / L. Zombori (hb), (HNHM); (1 ♂): GG/Prov. Shida Kartli / Tsaghveri s Borjomi / W. Ziegler/31.5.2017, (WZRG); (1 ♀): GG/Prov. Shida Kartli / Khitisi ö Khashuri / W. Ziegler/3.6.2017, (WZRG).

Distribution. Armenia, European Territory of Russia, “Caucasus”, Turkey. **New for Georgia.**

Genus *Isomira* Mulsant, 1856

Type species: *Chrysomela murina* Linnaeus, 1758.

Subgenus *Isomira* Mulsant, 1856

Type species: *Chrysomela murina* Linnaeus, 1758.

***Isomira (Isomira) umbellatarum* (Kiesenwetter, 1863)**

Material examined: (2 ♂♂): ALBANIA bor. / PROKLETIE Mts. BOGE / 16.6.1994 / M. MIKÁT lgt., (MMHC, VNPC).

Distribution. Austria, Bosnia Herzegovina, Croatia, Italy. **New for Albania.**

Genus *Microcistela* Pic, 1904

Type species: *Microcistela rosinae* Pic, 1904.

***Microcistela rosinae* Pic, 1904**

Material examined: (1 ♂): South Korea, near Sokcho, / NP Seokraksan, 336m a.s.l. / N38.18468° E128.47592° / 11.06.2014 / leg. J. Muller, A. Jarzabek-Muller, J. Muller coll., (VNPC).

Distribution. China (Shaanxi), Russia (East Siberia, Far East). **New for South Korea.**

Tribe Cteniopodini Solier, 1835

Genus *Cteniopinus* Seidlitz, 1896

Type species: *Cistela altaica* Gebler, 1830.

Subgenus *Cteniopinus* Seidlitz, 1896

Type species: *Cistela altaica* Gebler, 1830.

***Cteniopinus (Cteniopinus) hypocrita* (Marseul, 1876)**

Material examined: (2 ♂♂, 3 ♀♀): CHINA Qinghai 8.-9.7.2013 / Datong vic., 2600m / 36°58'43 101°42'19 / J. Rieger lgt., (VZPC, VNPC).

Distribution. China (Beijing, Fujian, Gansu, Guangdong, Guangxi, Hunan, Jiangsu, North Territory, Sichuan, Shaanxi, Shanghai, Xizang Provinces), Japan, South Korea, Oriental Region. **New for China (Qinghai Province).**

Genus *Cteniopus* Solier, 1835

Type species: *Chrysomela sulphurea* Linnaeus, 1758.

Subgenus *Ctenioposomus* Reitter, 1906

Type species: *Cteniopus frater* Reitter, 1903.

***Cteniopus (Ctenioposomus) preisneri preisneri* Wittmer, 1936**

Material examined: (1 unsexed specimen): ISRAEL / 17km S of Beerševa, 320 m / 30.4.-1.5.2019, lgt. M. Šárovec, (VNPC).

Distribution. Egypt. **New for Israel.**

Subgenus *Rhinobarus* Reitter, 1906

Type species: *Cistela sulphuripes* Germar, 1823.

***Cteniopus (Rhinobarus) sveci* Novák, 2017**

Material examined: (3 ♂♂): Greece bor. / Lutra 41°17'N - 23°19'E / 27.-29.V.2008 / Ing. M. Krejčíř lgt., (2 in MKVC, 1 in VNPC). (3 ♂♂, 3 ♀♀): MACEDONIA / Galichica N. P., 5.VII.2017 / 40°58'N - 20°49'E 1925m / Ing. M. Krejčíř lgt., (2 ♂♂ + 3 ♀♀ in MKVC, 1 ♂ in VNPC).

Distribution. Bulgaria. **New for Greece and Macedonia.**

Genus *Gastrhaema* Jacquelin du Val, 1863

Type species: *Cistela rufiventris* Walzl, 1835.

***Gastrhaema gharbensis* Théry, 1932**

Material examined: (1 ♂): Hispania Andalusia / PN del Estrecho / Ernest lgt. 6.5.2017, (LENC).

Distribution. Morocco. **New for Spain.**

Genus *Heliotaurus* Mulsant, 1856

Type species: *Cistela distincta* Laporte, 1840.

Subgenus *Heliotaurus* Mulsant, 1856

Type species: *Cistela distincta* Laporte, 1840.

***Heliotaurus coralinus* Reitter, 1890**

Material examined: (1 ♂, 1 ♀): MOROCCO c., 1.vi.2014 / N 31°18.49', W 07°22.52' / Tizi-n-Tichka pass / 2050-2100m, V. Zieris lgt. (VNPC, VZPC).

Distribution. Lybia. **New for Morocco.**

***Heliotaurus sanguinicollis sanguinicollis* Reitter, 1906**

Material examined: (1 ♂): Morocco c. 24.5.2013 / Tizi-n-Tichka 2070m / N 31°18' W 07°23' / lgt. Orszulik, (KOFK); (1 ♂, 4 ♀♀): Morocco b. 22.5.2014 / Debdou Plain / N 33°57' W 03°03' / lgt. Orszulik 1600m, (KOFK). (5 ♂♂, 4 ♀♀): Portugal / Algarve / Serra de Monchique / Foia (900 m NN) / M.V.2001 / leg. M. Langer, (MLNG).

Distribution. Spain. **New for Morocco and Portugal.**

Genus *Omophlus* Dejean, 1834

Type species: *Cistela lepturoides* Fabricius, 1787.

Subgenus *Odontomophlus* Seidlitz, 1896

Type species: *Omophlus ochraceipennis* Faldermann, 1837.

***Omophlus (Odontomophlus) atticus* Reitter, 1906**

Material examined: (2 ♂♂): ALBANIA mer., 19.iv.2016 / NE of Sarandë, 550-600 m / Qafa e Muzinës pass / 550-600 m, P. Vonička lgt., (PVLC).

Distribution. Greece, Turkey. **New for Albania.**

***Omophlus (Odontomophlus) flavipennis* Küster, 1849**

Material examined: (1 ♂): ALBANIA mer., 19.iv.2016 / NE of Sarandë, 550-600 m / Qafa e Muzinës pass / 19.iv.2016, P. Vonička lgt., (PVLIC); (1 ♂): ALBANIA mer. / NE of Sarandë, 570m / Qafa e Muzinës pass / lgt. Orszulik 19.4.2016, (KOFIC).

Distribution. Azerbaijan, Armenia, Bulgaria, Croatia, Central European Territory of Russia, Georgia, Greece, Italy, Moldova, Romania, South European Territory of Russia, European and Asian Turkey, Ukraine, Iran Iraq, Syria. **New for Albania.**

***Omophlus (Odontomophlus) syriacus* Mulsant, 1856**

Material examined: (6 ♂♂, 2 ♀♀): IRN, Kordestan prov., 30km / S Sanandaj, Majidabad env. / 1370mm, sad, / 35°0'54.5"N, 47°0'25"E, / 15.V.2016 leg. David Frank, (DFPC, VNPC).

Distribution. Cyprus, Israel, Jordan, Lebanon, Syria, Turkey. **New for Iran.**

Genus *Podonta* Solier, 1835

Type species: *Cistela nigrita* Fabricius, 1794.

***Podonta ambigua* Kiesenwetter, 1873**

Material examined: (2 ♂♂): BULG. - Primorsko / 16.- 30. 6. 2006 / Ing. Brokeš lgt., (OKVC, VNPC).

Distribution. Syria, Turkey. **New for Bulgaria.**

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