# Explanatory notes on the updates concerning the genus *Donacia* FABRICIUS, 1775 in the second edition of the Catalogue of Palaearctic Coleoptera, Vol. 6/2

(Coleoptera: Chrysomelidae)

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#### Abstract

The forthcoming second edition of the Catalogue of Palaearctic Coleoptera (Vol. 6/2: Chrysomelidae, in prep.) will contain a lot of corrections and additions to the first edition (Vol. 6: Chrysomeloidea), published in 2010. The present article deals solely with the genus *Donacia* FABRICIUS, 1775 and provides explanations for some of the corrections and additions, especially those which require more detailed treatment, and therefore cannot be printed in the second edition of the catalogue itself.

The second edition of the catalogue will include 68 Palaearctic species/subspecies of *Donacia*, three fewer than in the first edition, because five taxa are now regarded as synonyms (two of which are newly established herein: *Donacia meridionalis* WEISE, 1886 syn.n. = *D. bicolora* ZSCHACH, 1788, and *D. issykensis* JACOBSON, 1901 syn.n. = *D. vulgaris* ZSCHACH, 1788), because one synonym has been resurrected, and because one species has been newly described.

Donacia melanocephala (MARSHAM, 1802), which has hitherto been regarded as a synonym of D. dentata HOPPE, 1795, is newly synonymized with D. semicuprea PANZER, 1795, based on the examination of type specimens.

Numerous additional faunistic records, verified records and 20 first records for countries (or subordinate units) are provided herein, based on recent literature records and on numerous museum specimens examined by the first author. On the other hand, several records for countries (or subordinate units) have to be deleted in the second edition, because the records were either based on misidentifications, or because they could not be verified despite considerable efforts.

Incorrect subsequent spellings of taxa names and the controversial spellings of various author names in the first edition are corrected and discussed.

The apparent problem concerning the priority of *Donacia marginata* HOPPE, 1795 and *D. limbata* PANZER, 1795 is explained.

The references of several original descriptions are corrected in the second edition, and these corrections are explained herein.

Nomina nuda are also treated herein, and their identities are explained.

**Key words**: Coleoptera, Chrysomelidae, Donaciinae, *Donacia*, Palaearctic, catalogue, taxonomy, nomenclature, corrections, faunistics, spelling of author names, nomina nuda.

#### Introduction

The forthcoming second edition of the Catalogue of Palaearctic Coleoptera (Vol. 6/2: Chrysomelidae), edited by BEZDĚK & SEKERKA (in prep.), will contain a lot of corrections and additions to the first edition (Vol. 6: Chrysomeloidea), edited by LÖBL & SMETANA (2010).

During the last decade our knowledge on the taxonomy and distribution of many species has improved. Numerous faunistic articles with new records have been published. Furthermore, the first author of the present article studied numerous specimens of *Donacia* FABRICIUS, 1775 of many museums and thereby discovered various new country records, which will be added in the second edition of the Catalogue of Palaearctic Coleoptera (GEISER in prep.).

Since the first edition, the list of countries and geographical subunits has undergone some changes. Countries like "Yugoslavia" have been split up into several smaller ones. Also, Crimea will be considered as a separate geographical unit in the second edition. Siberia, which was previously divided into two subunits, will include three subunits: East Siberia, South Siberia and West Siberia. The Caucasian countries Armenia, Azerbaijan and Georgia are shifted from Europe to Asia in the distribution lists.

In contrast to the first edition, the new catalogue will include also infrasubspecific (unavailable) names (according to ICZN 1999: Art. 45.5–6); they will be listed together with the available names, but in contrast to the latter they are not italicized. If a taxon was originally described as a subspecies, variety or aberration, the abbreviations "ssp." respectively "var." or "ab." are added after the page number.

Another particular category of unavailable names are nomina nuda. They were never described formally, but they may be found on labels in collections, and in various publications. Nomina nuda were not documented in CPC2010. Therefore, nomina nuda are treated herein, to raise awareness of their existence and to provide detailed explanations about their identity.

In the catalogue chapter "New nomenclatorial and taxonomic acts, and comments" of the new edition, only concise remarks can be provided to explain the new data; but some of these new data need in-depth explanation, which cannot be printed in the catalogue itself. Therefore, corrections and additions, especially those which require more detailed treatment (incl. lists of material examined), are documented here.

#### Material and methods

#### Abbreviations:

BMNH	Natural History Museum, London [formerly: British Museum, Natural History], United Kingdom
	(Michael Geiser, Maxwell V.L. Barclay)

	,		2)					
CeNaK	Center of Natural	History of the	University of	Hamburg,	Germany	(Martin	Husemann,	Marianna

Simões, Birgit Jaenicke)

EIHU Hokkaido University, Sapporo, Japan

HNHM Hungarian Natural History Museum, Budapest, Hungary (Ottó Merkl †, Tamás Németh)

HNSA Museum Haus der Natur, Salzburg, Austria (Patrick Gros)

MSNV Museo di Storia Naturale Verona, Italy (Mauro Daccordi, Roberta Salmaso, Leonardo Latella)

NHMB Natural History Museum Basel, Switzerland (Matthias Borer, Christoph Germann, Eva Sprecher,

Isabelle Zuercher)

NHMW Natural History Museum Vienna, Austria (Manfred A. Jäch, Helena Shaverdo, Michaela Brojer,

Harald Schillhammer, Wolfgang Schönleithner †, Wolfgang Brunnbauer)

NMBE Natural History Museum Bern, Switzerland

NMEG Natural History Museum Erfurt, Germany (Matthias Hartmann)

NMNHS National Museum of Natural History Sofia, Bulgaria

OUMNH Oxford University Museum of Natural History, United Kingdom (Amoret Spooner)

PMSL Slovenian Museum of Natural History, Ljubljana, Slovenia (Tomi Trilar)

SDEI Senckenberg German Entomological Institute, Müncheberg, Germany (Thomas Schmitt, Stephan

Blank, Mandy Schröter)

SMF Senckenberg Museum Frankfurt, Germany (Andrea Hastenpflug-Vesmanis, Damir Kovac)
SNMC Slovakian Museum of Natural History, Bratislava, Slovakia (Vladimir Janský, Martin Sečanský)

ZFMK Zoological Research Museum Alexander Koenig, Bonn, Germany

ZISP Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia (Alexey Moseyko)

ZSM Zoological State Collection, Munich, Germany (Michael Balke, Martin Baehr †)

ZSRO Zoological collection of the University of Rostock, Germany (Stefan Richter, Andreas Bick)

CPC2010 Catalogue of Palaearctic Coleoptera, Vol. 6. Chrysomeloidea CPC2022 Catalogue of Palaearctic Coleoptera, Vol. 6/2. Chrysomelidae

ChryFaun Database of the faunistic project group: "Chrysomelidae of Central Europe" (SCHMITT et al. 2014).

Data status: 2.VII.2020.

GBIF Global Biodiversity Information Facility [http://www.gbif.org/], a compilation of data from various

sources with a broad range of data quality: from excellent to rubbish. It provides interesting hints, but

they must be thoroughly checked for correctness (see also JÄCH et al. 2016: XVI–XVII).

ab. aberration (infrasubspecific, generally unavailable according to ICZN 1999: Art. 45.6)

coll. collection
det. identified by
ex. specimen
exs. specimens

ex coll. derived from collection

HN homonym

ICZN International Commission on Zoological Nomenclature

IN infrasubspecific name (unavailable)

in litt. in litteris (denoting a nomen nudum, a formally undescribed, unavailable name)

leg. collected by

pers. comm. personal communication

ssp. subspecies

t. teste (attested or confirmed by)

var. variety (available or unavailable name, depending on ICZN 1999: Art. 45.6)

The list of taxa below the heading of each taxon includes only those available or unavailable names for which some explanatory comments are provided.

Label data: The text within square brackets [...] is explanatory and not part of the original label text.

Additional records: Published and unpublished (first) records, which were not included in CPC2010.

Verified records: Published records, which were already included in CPC2010, and which have been verified by the first author (or other experts).

In the chapter "References", original descriptions are cited only for those Palaearctic species, which were not listed in the references of CPC2010 or if these original descriptions are discussed in the text.

#### Author names

Unfortunately, various author names were modified in CPC2010, which caused instability and confusion (see Jäch 2005, Jäch et al. 2016). For instance, the authority of taxa published by Castelnau (1840) was changed to "Laporte" in all volumes of the "Catalogue of Palaearctic Coleoptera", while the name "Castelnau" is used in various world catalogues and other checklists (see e.g., Hansen 1998, Jäch et al. 2016). In any case, author names must be spelled in the same way they were published in the respective original papers. In Castelnau (1840) the name "Laporte" does not appear anywhere in the entire book.

The name of the Russian entomologist Andrej Petrovich Semenov-Tian-Shanskij (1866–1942) has been generally shortened to "Semenov" in CPC2010, however, in one of the two taxa of *Donacia* described by him (*D. jacobsoni*) he used his full name: Semenov-Tian-Shanskij.

Georgiy Georgiyevich Jacobson (1871–1926) published numerous articles in Latin, where his surname is almost always spelled as "Jacobson", but in his early papers (1892, 1894) he used the name "Jacobsohn". In CPC2010 (and other volumes of the "Catalogue of Palaearctic Coleoptera") the name was generally spelled as "Jakobson", regardless of the spelling in the original papers. In articles, which were published in Cyrillic script, his name was spelled "Якобсон". However, even in some of these articles in Cyrillic, his name is occasionally also written in Latin alphabet on certain text pages (see e.g., JACOBSON 1905: 148, 150, 152). In all these cases, the

spelling is "Jacobson". We have not found any publication by this author, where he had spelled his name as "Jakobson".

# Additions, corrections and explanations

# Donacia aequidorsis JACOBSOHN, 1894

#### Additional records:

RUSSIA (WEST SIBERIA): Chelyabinsk Oblast, Kartaly District, Karagaily-Aiyat River, 2.VII.1997 (Gus'Kova 2010).

TURKEY: "Turkey", [ex] coll. E. Witte [no further data], 4 exs., det. H. Goecke 1956, t. E. Geiser 2019 (NHMB: 1 ex., SMF: 3 exs.) (EKIZ et al. 2020).

Distribution: South Russia, West Siberia, Kazakhstan, Turkey.

# Donacia antiqua Kunze, 1818

#### Verified records:

FINLAND: BOROWIEC (1989); LJUNGBERG (2017).

SWEDEN: LJUNGBERG (2017).

RUSSIA (NORTH TERRITORY): LJUNGBERG (2017); St. Petersburg Oblast, Raivola, 1 ex., [leg.] J. Sahlberg, Donacia brevitarsis [det.] J. Sahlberg, [ex] coll. E. Reitter, Donacia antiqua det. E. Geiser 2020 (HNHM).

# **Distribution**: Northern Europe.

Most of the literature records and geographical data in GBIF are incorrect, mainly because *Donacia antiqua* and *D. brevitarsis* were erroneously mixed up for decades. Even the widely used keys of REITTER (1920) and MOHR (1966a) allocated the characters to the wrong species – see BOROWIEC (1989) and KIPPENBERG (1994).

Donacia antiqua occurs only in northern Europe. All specimens from other regions, especially from Central Europe, belong to D. brevitarsis.

#### Donacia aquatica (LINNAEUS, 1758)

#### Additional records:

ALBANIA: Prokletije Mountains, Sylbice, Liqeni i Verdbë [Lake Verdbe], 42°31'16"N 20°5'18"E, 2090 m, 8.VII.2011, 5 exs., leg. Z. Barina, A. Kovács, G. Puskás & B. Sárospataki, det. J. Bezděk (HNHM) (BEZDĚK 2018); Prokletije Mountains, Döberdol, Liqeni i Dashit [Lake Dashit], 42°32'1"N 20°4'39"E, 2080 m, 9.VII.2011, 2 exs., leg. Z. Barina, A. Kovács, G. Puskás & B. Sárospataki, det. J. Bezděk (HNHM) (BEZDĚK 2018).

CROATIA (first record): Ludbreg, 3 exs., leg. V. Apfelbeck, without date, det. Z. Kaszab 1962, t. E. Geiser 2020 (HNHM).

SERBIA: GAVRILOVIĆ & ĆURČIĆ (2011).

RUSSIA (SOUTH SIBERIA): Different locations in the Kuznetsk-Salair mountain region, Kemerovo Oblast, 18 exs. (Gus'kova et al. 2018).

IRAN: Teheran [no further data] (BIENKOWSKI 2014); North Khorasan Province, Bojnurd, 37°21'N 57°12'E, 1080 m, 7.V.2009, 2 exs. (SAMIN 2018).

**Distribution**: Palaearctic Region, from Ireland to the Russian Far East.

Donacia aquatica does not occur in Japan (HAYASHI 2020).

# Donacia bactriana Weise, 1887

#### Additional record:

RUSSIA (SOUTH SIBERIA): Minusinsk [no further data] (GOECKE 1960).

**Distribution**: Central Asia to East Siberia.

#### Donacia bicolora ZSCHACH, 1788

meridionalis WEISE, 1886: 250 (var.) syn.n.

Original spelling: According to ICZN (1999: Art. 32), the name "bicolora" (as it was spelled in the original description) is to be regarded as correct original spelling, which was also used in CPC2010. The name "bicolor", which, unfortunately, can be found in various publications and in recent internet sources (e.g., http://www.eu-insekten.de/steckbrief.php?tier= Donacia\_bicolor), is an incorrect subsequent spelling (ICZN 1999: Art. 33.3) and not an unjustified emendation (ICZN 1999: Art. 33.2.3); if it is found that one of the subsequent authors changed the name "bicolora" in a demonstrably intentional manner to "bicolor", the latter name has to be added to the list of synonyms of *D. bicolora*.

In Classical Latin, *bicolor* is used frequently for the male, female and neuter form (single-ended adjective of the third declension). Therefore, some coleopterists obviously think that the name "bicolora" must be corrected to "bicolor". However, in Classical Latin, bicolorus, -a, -um was also used, for instance by Flavius Vopiscus, who wrote a biography of emperor Aurelianus around 300 AD (LEWIS & SHORT 1975: 236). Therefore, "bicolora" fully conforms to Classical Latin.

**Taxonomy**: In CPC2010, specimens from the southern part of Italy (from central Italy southwards) were regarded as a subspecies: *D. b. meridionalis*. Actually, the latter was originally described as *Donacia bicolora* var. *meridionalis* collected near Rome (exact number of syntypes unknown). Nevertheless, *meridionalis* was widely used as a subspecific name for specimens collected in southern Italy. Tab. 1 shows that all "diagnostic" characters mentioned by WEISE (1886) are within the variability range of *D. bicolora*. Therefore, *D. b. meridionalis* is here regarded as a synonym of *D. bicolora*.

Tab. 1: Comparison of the "diagnostic" characters described by WEISE (1886) for *Donacia bicolora* var. *meridionalis*, and corresponding characters found in *D. bicolora* outside the range of *D. b.* var. *meridionalis*.

Characters	bicolora var. meridionalis	bicolora
Colour of upper side	cupreous-brown and partly dark-green;	mainly golden-green, but also dark-green,
	feebly shiny	cupreous, bluish; shiny
Body length	9 mm	8–11 mm
Pronotum	central part of pronotum finely punctate	central part of pronotum finely punctate
Elytral impressions	very deep	very deep
Tooth on hind femur	very small	small to very small

The first author studied about 30 specimens from southern Italy (HNHM, MSNV, SDEI) but found no significant morphological differences that would warrant a subspecific separation. A few specimens from southern Italy have some characters described by WEISE (1886), but most of them look like typical *D. bicolora*.

#### Additional records:

ALBANIA: MOHR (1966b).

BOSNIA and HERZEGOVINA: MOHR (1966b); "Sarajewo" [Sarajevo], leg. V. Apfelbeck, 2 exs., det. K. Lopatin, t. E. Geiser 2020 (HNHM); "Herzegowina" [Herzegovina] [no further data], 4 exs., det. E. Geiser 2020 (SDEI).

MONTENEGRO (first record): Ulcinj, Solana, 8.V.2015, 1 ex., leg. D. & L. Kopr, det. J. Bezděk, coll. D. Kopr, Brno, Czechia (J. Bezděk, pers. comm. 8.X.2020).

SERBIA: Mohr (1966b); Gavrilović & Ćurčić (2011).

RUSSIA (SOUTH SIBERIA): Sayan Mountains (BIEŃKOWSKI 2014) and many records from the Kuznetsk-Salair mountain region (GUS'KOVA et al. 2018).

KYRGYZSTAN: BIEŃKOWSKI (2014).

CHINA (XINJIANG) (first record): "Kuldscha [Ghulja, in Chinese: Yining Shi], Juldus [Yuldus Basin]", ex coll. E. Reitter, 3 exs., det. V. Tomov, t. E. Geiser 2020 (HNHM).

**Distribution**: Widely distributed in the Palaearctic Region, from Europe to East Siberia.

# Donacia bicoloricornis CHEN, 1941

**Distribution**: East Palaearctic (from eastern China and Russian Far East to Japan).

The record from "Korea" in CPC2010 refers to South Korea (CHO & AN 2020).

#### Donacia brevicornis AHRENS, 1810

**Nomenclature**: In CPC2010, "*Donacia impressa* sensu KRAATZ, 1869: 266" was listed under *D. brevicornis* AHRENS, 1810. However, Kraatz never described a species with this name. Therefore, it must be deleted from the list of synonyms.

#### Additional records:

MOLDAVIA: Transnistria, Rîbnița Province, Plopi, 19.V.1960, 1 ex. (MOSEYKO 2015).

NETHERLANDS: Limburg Province, Echt, V.1968, leg. Berger, ex coll. Ziegler (ZFMK) [ChryFaun]; same locality, date and collector, det. et coll. R. Beenen, Nieuwegein, Netherlands [ChryFaun]; Limburg Province, Meinweg National Park, Vlodrop-Station, 5.VI.2013, 1 ex., leg., det. et coll. R. Beenen, Nieuwegein, Netherlands [ChryFaun].

SERBIA: MOHR (1966b).

SWITZERLAND: BEZDĚK & MLEJNEK (2016).

RUSSIA (WEST SIBERIA): Chelyabinsk Oblast (Gus'Kova 2010); Tjumen Oblast, Tobolsk (BIEŃKOWSKI 2014).

**Distribution**: From Europe and Algeria to West Siberia.

"YU" (Yugoslavia) has to be replaced by "SB" (Serbia).

# Donacia brevitarsis THOMSON, 1884

**Verified records**: This species has often been confused with *D. antiqua* (see above). Verified data sources for countries (or subordinate units) listed in CPC2022 are provided below.

AUSTRIA: GEISER (2016), based on 26 exs. (NHMW).

BELGIUM: Records of *D. antiqua* (specimens collected between 1938 and 1942) provided by FAGOT (2019) obviously refer to *D. brevitarsis*.

BELARUS: BOROWIEC (1989).

CROATIA: Ludbreg, [leg.] V. Apfelbeck, ex coll. V. Apfelbeck, 7 exs., *D. antiqua* det. Z. Kaszab 1962, *D. brevitarsis* det. E. Geiser 2020 (HNHM).

CZECHIA: BEZDĚK & MLEJNEK (2016).

FINLAND: SILFVERBERG (1987); BOROWIEC (1992).

FRANCE: Paris, ex coll. Kraatz, 1 ex., D. antiqua det. E. Reitter, D. simplicifrons det. ?, D. brevitarsis det. E. Geiser 2020 (SDEI).

GERMANY: More than 10 specimens, det. E. Geiser (SMF, SDEI, CeNaK, ZSRO).

HUNGARIA: Veszprém County, Tihany 15.IV.1939, 1 ex., [leg.] V. Székessy, D. antiqua det. V. Székessy, D. antiqua det. Z. Kaszab, D. brevitarsis det. E. Geiser (HNHM).

ITALY: RUFFO (1964); RAVIZZA (1973); BOROWIEC (1989); 21 exs., det. E. Geiser (MSNV).

LATVIA: TELNOV (2004).

LITHUANIA: BOROWIEC (1989).

POLAND: BOROWIEC (1989).

SWEDEN: BOROWIEC (1992); LJUNGBERG (2016).

UKRAINE: BOROWIEC (1989).

RUSSIA (NORTH TERRITORY, CENTRAL TERRITORY): BIEŃKOWSKI (2014); Jaroslawl Oblast, Jaroslawl, 2 exs., [leg.] A. Jakowlew, *D. antiqua* det. G. Jacobson, *D. antiqua* ex coll. E. Reitter, *D. brevitarsis* det. E. Geiser 2020 (HNHM).

#### Additional records:

SWITZERLAND: Genève, 22.IV.1996, 5 exs., leg. et det. C. Besuchet, ex coll. M. Döberl in coll. U. Arnold, Berlin, Germany [ChryFaun]; Canton of Genève, Jussy, 470 m, 4.XI.1987, 2 exs., leg. P. Scherler, det. C. Germann, ex coll. P. Scherler (NMBE) [ChryFaun].

SLOVAKIA: BEZDĚK & MLEJNEK (2016).

RUSSIA (WEST SIBERIA): Tjumen Oblast (BIEŃKOWSKI 2014, SERGEEVA & DEDYUKHIN 2021).

**Distribution**: Many countries in North and Central Europe as well as in Russia (including West Siberia).

"NL" (Netherlands) has to be deleted. According to WINKELMAN & BEENEN (2010) and Ron Beenen (pers. comm. 25.IX.2020) there are no confirmed records of *D. brevitarsis* from the Netherlands. Furthermore, we found no confirmed records for Denmark and Slovenia so far.

# Donacia cinerea HERBST, 1784

#### Additional records:

ALBANIA (first record): Qarku i Tiranës [Tirana County] between Shkallë and Shengjin I Math Lumi Erzen [Erzen River], 41°19'22"N 19°59'44"E, 420 m, riverside, 20.V.2017, 16 exs., leg. D. Horvath, M. Lukátsi, O. Merkl, T. Németh, B. Szelencz & V. Szénási, det. R. Mlejnek, t. E. Geiser 2019 (HNHM). SERBIA: GAVRILOVIĆ & ĆURČIĆ (2011).

RUSSIA (SOUTH SIBERIA): Krasnoyarsk Krai, Yermakovsk District, Tanzybej village (Zapadnye Sayany), 9.VI.2002, 20.V.2011, 15.VI.2011, leg. E.V. Borisova, det. E. Guskova & E. Akulov, coll. E. Akulov, Krasnoyarsk, Russia; Krasnoyarsk Krai, Minusinsk District, Znamenka, det. E. Guskova & E. Akulov, leg. & coll. E. Akulov, Krasnoyarsk, Russia (GUSKOVA & AKULOV 2016).

CHINA (XINJIANG) (first record): "Prov. Kuldscha, Ober Ili-Thal" [Kuldscha (or Ghulja) County, upper Ili Valley], 1897, 1 ex., [leg.] F. Hauser, det. H. Goecke 1956, t. E. Geiser 2018 (NHMW).

**Distribution**: West Palaearctic, from Europe to West and South Siberia.

# Donacia clavareaui JACOBSON, 1906

kweilina Chen, 1966: 145 mediohirsuta Chen, 1966: 145

**Taxonomy**: *Donacia clavareaui* was confused with *D. fukiensis* GOECKE, 1944 for decades. CONG & YU (1997) re-established *D. fukiensis* as a valid species, but this was mostly ignored by subsequent authors. After the examination of the type series of *D. fukiensis* (NHMB), the status of *D. fukiensis* as a valid species has been confirmed, and *D. kweilina* as well as *D. mediohirsuta* were eventually synonymized with *D. clavareaui* by GEISER (2019).

**Distribution**: East Palaearctic. Confirmed records are known from China (Guangxi, Heilongjiang, Nei Mongol (Hua 2002), Sichuan, Yunnan), Japan, Mongolia, Russia (East Siberia, Far East) and South Korea (GEISER 2019).

# Donacia clavipes clavipes FABRICIUS, 1792

#### Additional records:

BOSNIA and HERZEGOVINA: MOHR (1966b).

MONTENEGRO (first record): Ulcinj, Ada Bojana, 8.–9.V.2015, 1 ex., leg. D. & L. Kopr, det. J. Bezděk, coll. D. Kopr, Brno, Czechia (J. Bezděk, pers. comm. 8.X.2020).

IRAN: Guilan Province, Rasht, 37°9'36"N 49°25'12"E, 40 m, 25.–26.VIII. 2012, 1 &, leg. et det. E. Aslan & H. Ghahari, coll. B. Gruev in NMNHS (ASLAN & GHAHARI 2017).

RUSSIA (SOUTH SIBERIA): Altai Republic, Aktash, bank of Chuya River, 20.VII.1992, 2 exs., leg. D. Telnov, det. L. Medvedev, t. E. Geiser 2021 (NMEG); Altai Republic, Aktash, Chuya river, VI.1992, 2 exs., leg. A. Tschernich, det. E. Geiser 2021 (NMEG).

**Distribution**: West Palaearctic, from Europe to Central Asia as well as West and South Siberia.

# Donacia clavipes glabrata Solsky, 1871

glabrata Solsky, 1871: 245

**Original description (date)**: According to STANDFUSS & KERZHNER (2004), this subspecies was described in 1871 (not in 1872).

**Distribution**: East Palaearctic (East Siberia to eastern China).

# Donacia crassipes Fabricius, 1775

striata Panzer, 1795: 1

**Original description (date)**: According to ALONSO-ZARAZAGA & EVENHUIS (2017), *D. striata* was published in 1795 (not in 1796).

#### Additional records:

BOSNIA and HERZEGOVINA: Mohr (1966b); Herzegovina, 1 ex., ex coll. V. Apfelbeck, det. K. Lopatin, t. E. Geiser 2019 (HNHM); Dervent, ex coll. V. Apfelbeck, 4 exs., det. K. Lopatin, t. E. Geiser 2019 (HNHM); Bosnia, Hutovo Blato, 24.–29.V.1934, 4 exs., leg. J. Fodor, det. J. Bezděk 2017, t. E. Geiser 2019 (HNHM). SERBIA: GAVRILOVIĆ & ĆURČIĆ (2011).

RUSSIA (SOUTH SIBERIA): Kemerovo Oblast, Krapivinsk District, 8 km SSW Saltymakovo, Azhendarovo, 54°45'N 87°1'E, 10.–20.VII 2008, 1 & coll. A. Korshunov, Kemerovo, Russia (GUSKOVA et al. 2016).

TURKEY: Bolu Province, Lake Abant, 1450 m, 24.VI.1969, 1 ex., leg. G. Osella, det. P. Benato 1983, t. E. Geiser 2019 (MSNV) (EKIZ et al. 2020).

**Distribution**: Widely distributed in the Palaearctic Region.

# Donacia delagrangei PIC, 1896

jacobsoni Semenov-Tian-Shanskij & Reichardt, 1927: 218

**Taxonomy**: Donacia jacobsoni was synonymized with D. delagrangei by KIPPENBERG (2010).

#### Additional record:

ARMENIA (first record): "Armenia, g. Yagzykurb" [in Cyrillic script], 2300 m, 21.IV.1956, 1 ex., [leg.] Korostelev, *Donacia jacobsoni* det. W. Shavrov, *D. delagrangei* det. E. Geiser 2019 (BMNH). – According to V. Asatryan (pers. comm. 2021), the spelling on the locality label ("Yagzykurb") is very likely based on a mistake. Probably, it should refer to Mt. Amarnots (or Yazyurt, or Yazivurd, 2742 m), near the village of Martiros (Vayots Dzor Province, 39°35'50"N 45°30'36"E).

Distribution: Turkey, Georgia, Armenia.

# Donacia dentata HOPPE, 1795

autumnalis WESTHOFF, 1882: 253 (var.)

**Original description (page number)**: *Donacia autumnalis* was described by WESTHOFF (1882: p. 253, not on p. 259).

**Taxonomy**: *Donacia melanocephala* (MARSHAM, 1802) must be deleted from the synonymy list. For details, see below, under *D. semicuprea* PANZER, 1795.

#### Additional records:

MOLDAVIA: MOSEYKO (2015).

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

SLOVENIA (first record): Carniolia, Laibach [Ljubljana], 1 ex., [leg.] J. Stussiner, ex coll. E. Reitter, det. E. Geiser 2019 (HNHM); Ljubljana, 1 ex., [leg.] M. Grabowski, det. V. Tomov, t. E. Geiser 2019 (HNHM); Wippach [Vipava], [leg.] J. Stussiner, 2 exs., ex coll. E. Reitter, det. E. Geiser 2019 (HNHM).

RUSSIA (SOUTH SIBERIA): Krasnoyarsk Krai, Minusinsk, 8.VIII.2001, leg. E. Akulov, coll. E. Akulov, Krasnoyarsk, Russia (GUSKOVA & AKULOV 2016).

MONGOLIA: BIEŃKOWSKI (2014); (GUS'KOVA 2017).

**Distribution**: From Europe to East Siberia.

#### Donacia fennica PAYKULL, 1800

#### Additional records:

RUSSIA (SOUTH SIBERIA): Kuznetsk Depression, Zhuravlevo, 29.VI.2006, 2 exs., leg. et det. E. Konovaltsev, coll. D. Efimov, Kemerovo, Russia; Lake Tanaevo, 30.VI.2006, 2 exs., leg. et det. D. Sidorov, coll. E. Gus'kova, Barnaul, Russia; Salair Ridge, Zhuravlevo, 2.VII.2006, 1 ex., leg. et det. A. Atuchin, coll. A. Atuchin, Kemerovo, Russia (Gus'Kova et al. 2018).

RUSSIA (FAR EAST): Amur Oblast (BIEŃKOWSKI 2014).

**Distribution**: Widely distributed in the northern Palaearctic.

In the past, this species has been recorded repeatedly from Central Europe, but these records refer to *D. malinovskvi* (specifically, its brown colour form "*arundinis*").

# Donacia flemola GOECKE, 1944

Distribution: Russia (Far East), China (Jilin), North Korea, South Korea, Japan.

The record for "Korea" in CPC2010 refers to North Korea and South Korea (CHO & AN 2020).

# Donacia freyi GOECKE, 1940

**Nomen nudum:** "Donacia alpina APFELBECK in litt." is a nomen nudum referring to D. freyi (GOECKE 1941).

All specimens of *D. freyi* examined so far (MSNV, NHMB, SDEI, SMF) were collected in August/September 1918. Some of these specimens were labelled "*Donacia alpina* Apflb." by Viktor Apfelbeck (1859–1934), former curator of entomology at the National Museum of Bosnia and Herzegovina, Sarajevo.

**Distribution**: So far, this species is known only from Albania (Prokletije Mountains, also called North Albanian Alps).

# Donacia frontalis JACOBY, 1893

#### Additional records:

CHINA (CHONGQING): CHEN et al. (2010); CHINA (HONG KONG): Hong Kong, 10.V.1926, 1 o (EIHU) (HAYASHI & HARUSAWA 2000); CHINA (HUBEI): LEI & ZHOU (1998); CHINA (SHANXI): HAYASHI & HARUSAWA (2000).

JAPAN: Honshu, Hyogo Prefecture (HAYASHI & HARUSAWA 2000).

**Distribution**: Eastern China, Japan.

The type locality "Wusong" (formerly: "Woosong") now belongs to Shanghai, which was once part of Jiangsu, where this species also occurs.

"HEI" (China: Heilongjiang) has to be deleted. The records are very likely based on misidentification of *D. knipowitschi* JACOBSON, 1927. Heilongjiang is quite far from the other locations of *D. frontalis* and the morphological characters of these two species are very similar (HAYASHI & LEE 2007).

# Donacia fukiensis GOECKE, 1944

**Taxonomy**: In CPC2010, *Donacia fukiensis* was listed as a synonym of *D. clavareaui*, but it has been re-established as a valid species by CONG & YU (1997). For more details, see above, under *D. clavareaui*.

**Distribution**: China (Fujian). All specimens examined from locations outside Fujian belong to *D. clavareaui* (GEISER 2019).

# Donacia galaica BÁGUENA, 1959

#### Additional record:

PORTUGAL: "Lusitan." [Lusitania, an old name for Portugal] [no further data], 4 exs., coll. Fry (BMNH no 1905-100), det. E. Geiser 2019 (BMNH); "Portugal", VII.1970, VII.1971, [no further data], Museu Nacional de História Natural e da Ciência, Universidade de Lisboa, Portugal, Datasource: GBIF [29.III.2021].

**Distribution**: Western Iberian Peninsula (Portugal and Spain north of Portugal).

# Donacia gracilicornis JACOBSON, 1899

#### Additional record:

SYRIA (first record): 3 km south of Tartous, 19.V.1952, 4 exs., leg. E. Schmidt, det. H. Goecke 1953, t. E. Geiser 2018 (SDEI: 1 ex., NHMB (coll. G. Frey): 3 exs.).

Distribution: Western Asia: Georgia, Iran, Turkmenistan, Syria.

# Donacia impressa PAYKULL, 1798

impressa PAYKULL, 1798: 193

**Original description (date)**: *Donacia impressa* was published in 1798 (not 1799) according to BOUSQUET (2016).

#### Additional records:

GREECE (first record): Lake Stymfalia, 37°51'5"N 22°26'40"E, 600 m, 5.V.2012, 2 exs., leg. A. Link, det E. Geiser 2016, coll. A. Link, Haid bei Ansfelden, Austria.

SERBIA: GAVRILOVIĆ & ĆURČIĆ (2011).

IRAN: Kuhgiloyeh ve Boyer-Ahmad Province, Yasuj, 30°39'N 51°36'E, 1850 m, 10.V.2011, 3 exs. (SAMIN 2018).

Distribution: Wide-spread in the Palaearctic Region: North Africa, Europe to East Siberia.

# Donacia japana CHÛJÔ & GOECKE, 1956

#### **Distribution**: Japan.

According to CPC2010, this species is distributed in Japan, China and North Korea. But the records from China and North Korea were based on incorrectly identified specimens of *Donacia aquatica* (see HAYASHI 2020).

# Donacia knipowitschi JACOBSON, 1927

## Additional record:

CHINA (HEILONGJIANG): Harbin, 16.–29.VI.1953, 8 exs., [leg.] N. Kardakoff, det. E. Geiser 2019, coll. G. Frey (NHMB).

Distribution: China, Russian Far East.

#### Donacia lenzi SCHÖNFELDT, 1888

**Taxonomy**: *Donacia* "aeraria BALY, 1873: 69 [HN]" was listed as a homonym of *D. aeraria* BALY, 1865 and as a synonym of *D. lenzi* in CPC2010. In fact, "*D. aeraria* BALY, 1873" is not based on a valid description. BALY (1873: 69) just provided a very short faunistic note about his "*Donacia œraria*" and even provided a reference to the original description (BALY 1865: 7). Therefore, "aeraria BALY, 1873: 69 [HN]" must be deleted.

Donacia aeraria BALY, 1865 was synonymized with D. delesserti Guérin-Méneville, 1844 by GOECKE (1934: 229). The latter occurs only in the Oriental Region.

# Donacia lungtanensis HAYASHI & LEE, 2009

This species is a new addition to CPC2022.

Distribution: Taiwan.

# Donacia malinovskyi AHRENS, 1810

ararensis THIERRIAT, 1943: 22 (var.) [IN] *arundinis* AHRENS, 1810: 41 caroli THIERRIAT, 1943: 22 (var.) [IN] ladonensis THIERRIAT, 1943: 22 (var.) [IN] mequignoni THIERRIAT, 1943: 22 (var.) [IN]

**Taxonomy**: *Donacia malinovskyi* is highly variable in its dorsal colouration, on the basis of which four varieties (see above) were described by THIERRIAT (1943).

Furthermore, due to the variable colouration, the taxonomic history of this species is rather complicated. AHRENS (1810) described the green metallic form as *D. malinovskyi* and considered it similar to *D. clavipes*. Two pages later, the same author described the brown form as a different species named *D. arundinis*, which he considered similar to *D. micans*, now a synonym of *D. crassipes*. Both "species" were synonymized with *D. fennica* by WEISE (1881) but JACOBSOHN (1892) separated *D. fennica* from the brown colour form "arundinis" of *D. malinovskyi*.

#### Additional records:

AUSTRIA: GEISER (2018).

BOSNIA and HERZEGOVINA (first record): Bosnia m.[eridionalis; southern Bosnia], [no further data], 1 ex., *Donacia malinovskyi* forma *arundinis* det. E. Geiser 2020 (SNMC).

FINLAND (first record): Finland [no further data], 1 ex., *Donacia malinovskyi* forma *arundinis* det. H. Goecke, t. E. Geiser 2019, coll. G. Frey (NHMB); Finland [no further data], 1 ex., *Donacia malinovskyi* forma *arundinis* det. E. Geiser 2019 (MSNV); Finland [no further data], 3 exs., *Donacia malinovskyi* forma *arundinis* det. E. Geiser 2019, coll. C. Stock (SMF).

SWITZERLAND: Canton of Vaud, Nyon, without date, 3 exs., leg. G. Schneider, det. R. Mlejnek (NHMB) (BEZDĚK & MLEJNEK 2016).

**Distribution**: Europe, from France to European Russia and southwards to 45° latitude.

"SP" (Spain) must be deleted from the country list, because there is no evidence that *Donacia malinovskyi* occurs in southern Europe. It should be pointed out, that the green morph of *D. malinovskyi* resembles *D. dentata*, which actually does occur in Spain, and thus may have been the source of the misidentification.

#### Donacia marginata HOPPE, 1795

australis Jacobsohn, 1892: 428 (var.) limbata Panzer, 1795: 12 vittata Panzer, 1795: 11 [HN]

**Original description (date)**: According to ALONSO-ZARAZAGA & EVENHUIS (2017), the descriptions of *Donacia limbata* and *D. vittata* were published on 26<sup>th</sup> April 1795 (not in 1796). The description of *D. marginata* was probably published on 8<sup>th</sup> May 1795 (ENGELMANN 1846), and therefore, *D. limbata* would be the older name, but further studies on the exact publication date of *D. marginata* are necessary.

The name *D. marginata* has been used for this common and widely distributed species since 1900 in many publications. Although very rarely, the name *D. limbata* has also been used as a valid name after 1900 (e.g., JOHNSON & HALBERT 1902), and therefore, *D. limbata* cannot be regarded as nomen oblitum (ICZN 1999: Art. 23.9.2). If it is found that *D. limbata* is in fact the older name, the case should be referred to the ICZN in order to preserve the frequently used name *D. marginata*.

**Nomen nudum:** "Donacia trojana REITTER" is a nomen nudum, which was mentioned by EVERTS (1910, 1911). Specimens labelled "Donacia trojana REITTER" can be found in various museum collections. The description of D. limbata var. australis from Greece and Russia (North Caucasus) was based on such specimens.

## Additional records:

BOSNIA and HERZEGOVINA: MOHR (1966b); "Bosnien", 1 ex., [leg.] E. Reitter & H. Leder, det. E. Geiser 2019, ex coll. C. Bosch (SMF); Bosnia, Ilidža, 1 ex., [leg.] Horvath, det. E. Geiser 2020 (HNHM). SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

RUSSIA (EAST SIBERIA): Krasnoyarsk Krai, Krasnoyarsk, Akademgorodok, Yenisey riverbank, 6.VI.2000, leg. et coll. E. Akulov, Krasnoyarsk, Russia; Krasnoyarsk Krai, Sukhobuzimsky District, Lake Bartat, 22.VI.2013, leg. et coll. E. Akulov, Krasnoyarsk, Russia (GUSKOVA & AKULOV 2016).

KYRGYZSTAN (first record): "Semiritschje [Semirechye Oblast], Przewalsk [Przhevalsk, today: Karakol, Yssyk-Kul Region]", 1 ex., [ex coll.] E. Bodemeyer, det. E. Geiser 2019 (MSNV); same locality data, 4 exs., [ex coll.] E. Bodemeyer, det. E. Geiser 2019, ex coll. C. Bosch (SMF); "Przewalsk" [Karakol], 50 exs., det. E. Geiser 2019, ex coll. C. Bosch (SMF). – Karakol was named Przevalsk in 1889–1920 and later again from 1939–1991. The specimens were obviously collected during one of the expeditions financed and analysed (from 1906 onwards) by August Rudolf Eduard von Bodemeyer (1854–1918) (see BODEMEYER 1928); his collection was eventually purchased by Carl Bosch (1874–1940), German engineer, Nobel Laureate in Chemistry, and ardent collector of insects and minerals.

Distribution: West Palaearctic Region, Central Asia, West and East Siberia.

#### Donacia obscura Gyllenhal, 1813

#### Additional records:

LUXEMBOURG: FAGOT (2019).

RUSSIA (SOUTH SIBERIA): Kuznetsk Alatau: the southern part of the western macroslope (Skalistye Gory Range) and Kuznetsk Alatau Nature Reserve (Gus'Kova et al. 2018).

KAZAKHSTAN: BIEŃKOWSKI (2014).

**Distribution**: Large parts of the northern West Palaearctic as well as West and South Siberia.

# Donacia ochroleuca WEISE, 1912

#### Additional records:

RUSSIA (SOUTH SIBERIA) (first record): Barnaul, "West-Sibirien, ex Orig. Smlg. J. Breit, Wien" [western Siberia, original collection of J. Breit, Vienna, Austria], 1 ex., det. E. Geiser 2019, coll. G. Frey (NHMB); Barnaul, Sibir. occ. [western Siberia], ex orig. Smlg. [original collection] J. Breit, Vienna, Austria, 1 ex., det. H. Kippenberg 2013, t. E. Geiser 2019, coll. G. Frey (NHMB).

RUSSIA (EAST SIBERIA): Tschita [Chita] (GOECKE 1960). – The material was likely collected by Hermann Frieb, who was a prisoner-of-war in Chita (until 1920), where he collected a lot of beetles, which he sent by mail to his family in Salzburg, Austria (GEISER 1991).

Distribution: From South Siberia to the Russian Far East.

In CPC2010, "CH" (China), without further details, was listed in the distribution. So far, neither specimens in museum collections nor any published record with precise Chinese locality data could be found. This species was not listed for China in the comprehensive works of GRESSITT & KIMOTO (1961), HUA (2002) and KONSTANTINOV (2003). However, since this species occurs in the Russian Ussuri and Amur regions, its occurrence in Heilongjiang or Jilin seems biogeographically plausible.

#### Donacia polita Kunze, 1818

**Nomina nuda**: In the HNHM (coll. Frivaldszky), there are three specimens from the "Balkan" identified as "*Donacia elegans* DAHL [F. Dahl (1856–1929), zoologist from Berlin, Germany]". "*Donacia elegans*" is a nomen nudum. These specimens clearly belong to *D. polita*.

In the SNMC (coll. J. Roubal, ex coll. O. Leonhard), there are two specimens from Greece (Zante [Zakynthos], Kalamaki, 1909, leg. M. Hilf) labelled "Donacia polita var. graecorinsularis Dan." (nomen nudum). The abbreviation "Dan." may refer to Karl Daniel (1862–1930), a chemist from Munich, who published a lot about beetles. These specimens clearly belong to D. polita.

# Additional records:

FRANCE: Region Nouvelle-Aquitaine, Department Gironde (BORDY et al. 2012).

MONTENEGRO (first record): Lake Skutari, 13.V.1980, 90 exs., leg. H. Hebauer, det. et coll. K. Witzgall, t. E. Geiser 2018 (ZSM).

SERBIA: GAVRILOVIĆ & ĆURČIĆ (2011); "Serbia" [no additional data], 1 ex., det. E. Geiser 2019, coll. B. Schwarzer (SMF).

TURKEY: EKIZ et al. (2020).

**Distribution**: From Spain and Morocco to Turkey.

"HU" (Hungary) must be deleted. It occurs in Croatia, which partially belonged to Hungary until 1918. KASZAB (1962) listed this species only for Croatia and not for Hungary. Furthermore, in 2020, the first author screened the collection of the HNHM, where only specimens from Croatia but no specimens from Hungary were found.

# Donacia provostii FAIRMAIRE, 1885

#### Additional record:

NORTH KOREA: CHO & AN (2020).

**Distribution**: East Asia, from the Russian Far East to Japan and Korea, widely distributed in China and in the Oriental Region east of 100° longitude.

# Donacia recticollis JACOBY, 1893

Distribution: Oriental Region (northeastern India) and Nepal.

This species was subsequently added to the list of Palaearctic species by LÖBL & SMETANA (2013: 42) based on five specimens from Nepal (Lake Phewa near Pokhara, 800 m), already recorded by MEDVEDEV & SPRECHER-UEBERSAX (1999).

Three of these specimens were traced by the first author: 1 ex., 9.X.1992, leg. J. Weipert, det. L. Medvedev, ex coll. Medvedev (ZISP); 2 exs., 10.X.1992, leg. A. Weigel, det. E. Geiser 2021, coll. A. Weigel (Wernburg, Germany).

This is the only *Donacia* species known so far from Nepal.

# Donacia reticulata GYLLENHAL, 1817

appendiculata AHRENS, 1810: 34 [HN] coeruleans SHAVROV, 1948: 50 (ab.) [IN]

**Taxonomy**: SHAVROV (1948) described *Donacia appendiculata* ab. *coeruleans* based on specimens labelled "*D. appendiculata* ab. *coeruleans* Reitter", which was a nomen nudum until 1948.

#### Additional record:

SWITZERLAND: Canton of Bern, Wengimoos, 22.VII.1990, 1 o, leg. W. Gfeller, det. R. Mlejnek, coll. J. Voříšek, Jirkov, Czechia (BEZDĚK & MLEJNEK 2016). – The depository of this specimen is currently unknown; Jiří Voříšek died in 2019, and his collection was bought by the BMNH (J. Bezděk, pers. comm. 2021); however, according to M. Geiser (pers. comm. 2021) this specimen is not in the BMNH; it was probably sold or exchanged before Voříšek's death.

**Distribution**: Central and southern Europe and North Africa, west of 20° longitude.

"PL" (Poland) must be deleted; no reliable record is known despite of thorough faunistic research on the Polish Donaciinae for decades (BEZDĚK & MLEJNEK 2016).

# Donacia semicuprea PANZER, 1795

semicuprea PANZER, 1795: 14 melanocephala MARSHAM, 1802: 348 (Leptura) syn.n.

Original description (date): According to ALONSO-ZARAZAGA & EVENHUIS (2017), D. semicuprea was described on 26<sup>th</sup> April 1795 (not in 1796).

**Taxonomy**: In CPC2010, *Donacia melanocephala* was listed as a synonym of *D. dentata*. Recently, the first author examined the holotype of *D. melanocephala* (BMNH, coll. J.F. Stephens) and identified it as *D. semicuprea*. Furthermore, the original description agrees exactly with *D. semicuprea* and not with *D. dentata*.

#### Additional records:

BOSNIA and HERZEGOVINA: MOHR (1966b).

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

GEORGIA: BIEŃKOWSKI (2014).

**Distribution**: Widely distributed in the Palaearctic Region, from Europe to East Siberia.

#### Donacia simplex FABRICIUS, 1775

#### Additional records:

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

IRAN: Guilan Province, Talesh, 37°48'N 48°54'E, 145 m, VII.2009, 1 &, leg. et det. E. Aslan et H. Ghahari, coll. B. Gruev, Plovdiv, Bulgaria (ASLAN & GHAHARI 2017); "Persien" [Iran], Elburs-Gebirge [Elburs Mountains], 1 ex., [ex coll.] E. Reitter, det. H. Goecke 1956, t. E. Geiser 2019 (SMF).

SOUTH KOREA: CHO & AN (2020).

SYRIA (first record): Anti-Lebanon Mountains, Zebdani [Az-Zabadani (or Al-Zabadani), Rif Dimashq Governorate], V.1931, 36 exs., [leg.] H. Kulzer, ex coll. C. Bosch, det. E. Geiser 2019 (SMF). – Hans Kulzer (1889–1975) was a coleopterologist from Munich. In 1931, he made collecting trips to Syria and Lebanon by order of C. Bosch (for details about Carl Bosch, see above, under *D. marginata*).

Distribution: Palaearctic Region.

# Donacia sparganii gracilipes JACOBY, 1885

tschitscherini SEMENOV, 1895a: 141

**Original description**: *Donacia tschitscherini* was described by SEMENOV (1895a: 141) and not by SEMENOV (1895b: 191).

**Taxonomy**: *Donacia gracilipes* is regarded as a valid species by some authors (e.g., BIEŃKOWSKI 2014), others treat it as a subspecies of *D. sparganii* (e.g., HAYASHI 2020).

There are good arguments for both opinions, but it is not intended to change the status in CPC2022, where *D. gracilipes* will still be treated as a subspecies.

Distribution: Northeastern Palaearctic Region.

# Donacia sparganii sparganii AHRENS, 1810

**Nomen nudum**: In the HNHM, there are two specimens from "Britannia" labelled: "*Donacia hederae* Chapuis". One of these specimens belongs to *D. sparganii*, the other one to *D. versi-colorea*. Both occur in Great Britain. The name "*D. hederae*" could not be found in any publication so far.

#### Additional records:

AUSTRIA: GEISER (2001).

UKRAINE: Markovychi, 4.V.1898 and 24.VI.1903, data file of M. Orlova-Bienkowskaja [ChryFaun]; Wolodymyr-Wolynskyj, 20.VII.1904, data file of M. Orlova-Bienkowskaja [ChryFaun].

**Distribution**: From Europe to West Siberia between 45° and 60° latitude.

"HU" (Hungary) must be deleted from the country list. KASZAB (1962) recorded *Donacia sparganii* from the Carpathian Mountains but not from present-day Hungary. Furthermore, in 2020, the collection of the HNHM was screened by the first author, who found no specimens from Hungary.

#### Donacia splendens hiurai KIMOTO, 1983

**Distribution**: Japan (Honshu).

# Donacia splendens splendens JACOBSOHN, 1894

**Distribution**: Mongolia, Russia (from the Yenissei River eastwards to the Pacific coast), Japan (Hokkaido).

HAYASHI (2020) has recently examined about 180 specimens of both subspecies. He found D. s. hiurai only in Honshu, whereas in Hokkaido only the nominotypical subspecies was found.

"WS" (Russia: West Siberia) must be deleted. There is no evidence that *D. splendens* occurs there. Its confirmed distribution agrees very well with "East Siberia" as defined in CPC2022.

# Donacia springeri MÜLLER, 1916

#### Additional records:

CZECHIA: BEZDĚK & MLEJNEK (2016).

LATVIA: TELNOV et al. (2011).

**Distribution**: Central Europe, including northern Italy and French Alps. Also recorded from Latvia and southern Sweden. Detailed records for the countries listed in CPC2022 were published by BROJER et al. (2014).

# Donacia thalassina GERMAR, 1811

**Distribution**: This species has a very large distribution area, which covers almost the whole Palaearctic Region; it does not, for instance, occur in North Africa and Japan. There are two recognized subspecies, a western and an eastern one. According to Gus'Kova (2017) both subspecies occur in Mongolia, which needs to be confirmed.

#### Donacia thalassina intermedia JACOBSON, 1899

coerulea JACOBSON, 1901: 105 (var.) [IN] rufovariegata JACOBSON, 1901: 105 (ssp.) semenovi JACOBSON, 1907: 5

**Nomenclature**: *Donacia thalassina rufovariegata* var. *coerulea* was described as a variety (blue-purple colour variation) of a subspecies, and therefore it is automatically unavailable according to ICZN (1999: Art. 45.6).

**Original spelling**: *Donacia semenovi* is to be regarded as correct original spelling according to ICZN (1999: Art. 32). The name "semenowi", as it was printed in CPC2010, is an incorrect subsequent spelling. This mistake has already been corrected by Löble & SMETANA (2011: 45).

# **Distribution**: East Palaearctic.

"JA" (Japan) must be deleted. HAYASHI (2020) found no evidence for the occurrence of *Donacia thalassina* in Japan.

"XIN" (China: Xinjiang) must be deleted. The records from Xinjiang in fact refer to *Donacia thalassina thalassina* (see below).

# Donacia thalassina thalassina GERMAR, 1811

#### Additional records:

BOSNIA and HERZEGOVINA: MOHR (1966b).

CROATIA: Ludbreg [near Varaždin], ex coll. V. Apfelbeck [†1934], 1 ex., det. Z. Kaszab 1962, t. E. Geiser 2020 (HNHM).

GREECE: Macedonia, Salonica Galiko [Thessaloniki, Gallikos River], [leg.] J. Waterston, 26.IV.1918, 3 exs. (BMNH no 1934-312), det. K.G. Blair, t. E. Geiser 2019 (BMNH); Mikron, Tsiachmati near Pharsalos [Farsala], 26.IV.—4.V.1941, 1 ex., leg. F. Schubert, ex coll. F. Schubert, det. E. Geiser 2020 (NHMW).

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

CHINA (XINJIANG): Kuldscha [Ghulja, in Chinese: Yining Shi], Juldus [Yuldus Basin], 3 exs., *D. thalassina thalassina*, ex coll. E. Reitter, det. E. Geiser 2020 (HNHM).

IRAN: Guilan Province, Astara, ca. -20 m, 38°20'N 48°46'E, IX. 2012, 1 ex. (GHAHARI & JĘDRYCZKOWSKI 2016); Ahar (East Azarbaijan Province), 38°18'N 47°4'E, 1365 m, 9.VII.2009, 3 exs. (SAMIN 2018).

# Distribution: Ireland to Mongolia.

"ES" (Russia: East Siberia) must be deleted. The record derives from a misinterpretation of specimens, which were identified as *Donacia thalassina* without specification of the subspecies. In fact, these specimens refer to *D. t. intermedia*. There is no evidence for the occurrence of *D. t. thalassina* in East Siberia (BIEŃKOWSKI 2014).

## Donacia tomentosa AHRENS, 1810

#### Additional records:

AUSTRIA: GEISER (2018).

CRIMEA (first record): Crimea, Sevastopol, 1 ex., det. J. Roubal, t. E. Geiser 2020, ex coll. J. Roubal (SNMC).

- CROATIA (first record): Cres, Merag Pond, Sveti Vid, 25.V.2006, 2 ç ç, leg. A. Link, det. E. Geiser 2016 (NHMW); Ludbreg, [leg.] V. Apfelbeck, 6 exs., ex coll. V. Apfelbeck, det. Z. Kaszab 1962, t. E. Geiser 2020 (HNHM); Dalmatia, VI.1937, 8 exs., det. E. Geiser 2020 (SNMC).
- GREECE (first record): Peloponnes, Karteri, Lake Stimfalia, 37°50'35"N 22°26'52"E, 25.VI.2003, 3 & &, 2 & &, swept from the lake margin, leg. D. Mann, det. E. Geiser 2015 (OUMNH).
- IRAN: Guilan Province, Fooman, 37°7'48"N 49°11'24"E, ca. 30 m, IX.2012, 1 \(\sigma\), leg. E. Aslan & H. Ghahari, det. et coll. B. Gruev, Plovdiv, Bulgaria (ASLAN & GHAHARI 2017); Borujerd (Lorestan Province), 33°30'N 48°30'E, 1590 m, 11.VIII.2013, 4 exs., leg. N. Samin, det. B. Gruev (SAMIN 2018).
- ISRAEL (first record): Palestine, nr. [near] "Jerisheh", ca. 4–7 m, NE of Jaffa, 26.IV.1918, 4 exs., [det.? coll.?] S.L. Partbury 1969, det. E. Geiser 2019 (BMNH). Jarisha (also Jerisha or Jerisheh) is a Palestinian Arab village located near the ancient site of Tell Jarisha (Tel Gerisa) on the south bank of Al-Awja (= Yarkon) River.

**Distribution**: From France to Central Asia and West Siberia.

# Donacia transversicollis FAIRMAIRE, 1887

transversicollis Faimaire, 1887: 135 tuberfrons Goecke, 1934: 221

**Original description**: The original description of this species has been incorrectly cited in CPC2010: "*transversicollis* Fairmaire, 1887c: 315". It was actually described in the "Annales de la Société Entomologique de Belgique" (see FAIRMAIRE 1887a in the references below) and not in the "Revue d'Entomologie" (see FAIRMAIRE 1887b in the references below). The page number was also wrong. Thus, the correct citation in CPC2010 should be: "*transversicollis* Fairmaire, 1887a (not c): 135 (not 315)".

**Original spelling**: In CPC2010, the name *tuberfrons* was incorrectly spelled as "*tuberifrons*". Without any doubt, *tuberfrons* is to be regarded as correct original spelling. GOECKE (1934) did not make a grammatical mistake nor was there an inadvertent error or a copyist's or printer's error. Goecke always used the spelling "*tuberfrons*" in his later publications and on all his identification labels.

However, Voisin (2011: 349) stated that the name "tuberifrons" is an unjustified emendation ("émendation injustifiée") (ICZN 1999: Art. 33.2), probably because he thought that Silfverberg (2010) intentionally added an "i" as connecting vowel. This is definitely not the case, because Silfverberg (2010) did not announce the change of the name in the catalogue chapter "New nomenclatorial and taxonomic acts, and comments". Therefore, "tuberifrons" clearly is to be regarded as an incorrect subsequent spelling (ICZN 1999: Art. 33.3), because the change of the original spelling was not "demonstrably intentional".

Distribution: China (Sichuan and Yunnan).

#### Donacia ussuriensis MEDVEDEV, 1973

# Additional record:

NORTH KOREA: CHO & AN (2020).

**Distribution**: Known only from the Russian Far East and from North Korea.

# Donacia versicolorea (BRAHM, 1790)

suffriani WESTHOFF, 1882: 253 (var.)

**Original description (page number)**: *Donacia suffriani* has been described by WESTHOFF (1882: p. 253, not on p. 257). The page number has already been corrected by LÖBL & SMETANA (2013: 42).

#### Additional records:

LUXEMBOURG: FAGOT (2019).

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

SLOVENIA: White Carniola, Veliki Nerajec, Nerajske luge, 9.IX.1999, leg. B. Drovenik, ex coll. B. Drovenik (PMSL) [ChryFaun].

RUSSIA (SOUTH SIBERIA): GUSKOVA et al. (2016).

**Distribution**: Northern part of the Palaearctic Region, from Ireland to the Pacific coast.

"ST" (Russia: South Territory) must be deleted. According to BIEŃKOWSKI (2014) and GUSKOVA et al. (2016), *D. versicolorea* does not occur in the southern part of European Russia.

#### Donacia vulgaris ZSCHACH, 1788

issykensis JACOBSON, 1901: 105 (ssp.) syn.n.

**Taxonomy**: Donacia vulgaris issykensis was described by JACOBSON (1901) based on a specimen from Issyk-Kul (Kyrgyzstan). He listed the following differences to Donacia v. vulgaris: antennae and legs with larger yellow parts; punctures of pronotum more delicate; elytra with more regular punctures in the middle and in the basal part.

The first author studied more than 30 specimens from different countries of Central Asia stored in five museum collections, all labelled as "*D. vulgaris issykensis*" by different experts. These specimens were compared with specimens from Europe and various parts of Asia. The characters mentioned by JACOBSON (1901) can be found in specimens throughout the distribution area. Obviously, specimens from Central Asia do not deserve subspecific separation (see also GOECKE 1960, ASKEVOLD 1990, WARCHAŁOWSKI 2010, HAYASHI 2020).

#### Additional records:

SERBIA: MOHR (1966b); GAVRILOVIĆ & ĆURČIĆ (2011).

MONGOLIA: Mongolian Altai: 10 km E of Bulgan, 7.VII.2007, leg. et det. E. Gus'kova & R. Yakovlev, coll. E. Gus'kova, Barnaul, Russia (Gus'kova 2017); Bulgan, 9.VII.2007, leg. et det. E. Gus'kova & R. Yakovlev, coll. E. Gus'kova, Barnaul, Russia (Gu'skova 2017); Eastern Mongolia (BIEŃKOWSKI 2014).

**Distribution**: Europe and Palaearctic Asia including Japan.

#### Discussion

In CPC2010, 71 species and subspecies of the genus *Donacia* were listed. In CPC2022, the number of species/subspecies is reduced to 68, and the status of six taxa has changed; two former subspecies (*Donacia bicolora meridionalis* and *D. vulgaris issykensis*) and three former species (*Donacia kweilina*, *D. mediohirsuta*, and *D. jacobsoni*) are now regarded as synonyms, and one synonym (*D. fukiensis*) has been resurrected. Finally, one Palaearctic species (*D. lungtanensis*) was described in 2009 but was not yet listed in CPC2010.

In total, 122 additional records are listed herein. Some of these data have been published recently, and a few derive from previously overlooked publications; 20 new records for countries (or subordinate units) are published herein for the first time.

Museum collections are an important source for distribution data. 56 additional country records derive from the studies of museum specimens by the first author. The Hungarian Natural History Museum in Budapest yielded the majority of these new data (18 records, 32%). Additional museum records resulting from these studies have already been published recently (GEISER 2019, EKIZ et al. 2020). Furthermore, a lot of these museum specimens confirmed the occurrence of several species in various countries (or subunits). These records are not listed here, because these particular countries (or subunits) were already listed in CPC2010. However, some records

formerly considered as questionable or inaccurate, are now confirmed based on such museum specimens.

It has to be stressed that there are many more museum collections to be studied than just those listed above under "Material and methods", and the examination of some of the museums listed has not yet been completed.

There are only a few Donaciinae specialists active at present, and many museum specimens have not been examined for decades or even for more than 100 years. Unfortunately, museum visits for guest scientists were almost impossible between March 2020 and June 2021 due to COVID-19 restrictions. Therefore, new faunistic data can be expected in the foreseeable future as soon as the accessibility of museums will improve again.

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