Koleopterologische Rundschau	94	193–209	Wien, October 2024

Additional explanatory notes on the updates concerning the subfamily Donaciinae in the second edition of the Catalogue of Palaearctic Coleoptera, Vol. 6/2

(Coleoptera: Chrysomelidae)

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Abstract

The second edition of the Catalogue of Palaearctic Coleoptera, Vol. 6/2 (Chrysomeloidea II), edited by BEZDĚK & SEKERKA (2024), contains many corrections and additions to the first edition (LÖBL & SMETANA 2010). The present article deals with the chapter on the subfamily Donaciinae KIRBY, 1837, which was published in part 1 of Vol. 6/2 (GEISER 2024: 206–216) and provides explanations for some of the corrections and additions, especially those, which require more detailed treatment and therefore could not be printed in the second edition of the catalogue itself.

The second edition of the catalogue includes 91 Palaearctic species/subspecies of Donaciinae, eight fewer than in the first edition. Many changes in the genus *Donacia* FABRICIUS, 1775 were already published by GEISER & JÄCH (2021), but the number of species/subspecies has increased from 68 to 69, because *D. kweilina* CHEN, 1966 has been found to be species propria. *Macroplea* SAMOUELLE, 1819 now includes six instead of five species: two newly described species were added (*M. huaxensis* LOU & LIANG, 2011, *M. ranina* LOU & YU, 2011), and *M. skomorohovi* MEDVEDEV, 2006 is now regarded as a synonym of *M. japana* (JACOBY, 1885). The number of species in the genus *Plateumaris* THOMSON, 1859 has been reduced from 16 to 10 (GEISER 2023).

Additional and corrected faunistic records are also provided herein, based on recent literature data and on numerous museum specimens examined by the author. The data concerning the differences in the country records in the second edition of the catalogue, compared with the first edition, are listed here completely for *Macroplea* and *Sominella* JACOBSON, 1908. For *Donacia*, only the records which were not mentioned in GEISER & JÄCH (2021) are provided herein. All changes concerning faunistic data on *Plateumaris* were published in GEISER (2023). The data for *Donaciasta* FAIRMAIRE, 1901 and *Neohaemonia* SZÉKESSY, 1941 did not change in the second edition of the catalogue.

During the printing process of the second edition of the catalogue, some additional data were acquired, which could not be included in the new edition: *Donacia antiqua* KUNZE, 1818 could not be confirmed for the Central Territory of Russia, *D. vulgaris* (ZSCHACH, 1788) was found to occur in Israel, and *Macroplea mutica* (FABRICIUS, 1792) has been confirmed for West Siberia.

Key words: Coleoptera, Chrysomelidae, Donaciinae, *Donacia*, *Sominella*, *Macroplea*, Palaearctic, catalogue, taxonomy, nomenclature, corrections, faunistics, museum collections.

Introduction

The second edition of the Catalogue of Palaearctic Coleoptera, Vol. 6/2 (Chrysomeloidea II), edited by BEZDĚK & SEKERKA (2024), was published in two parts and contains many corrections and additions to the first edition, Vol. 6 (Chrysomeloidea) (LÖBL & SMETANA 2010). The present article deals with the chapter on the subfamily Donaciinae KIRBY, 1837, which was published in part 1 of Vol. 6/2 (GEISER 2024: 206–216) and provides explanations for some of the corrections and additions, especially those which require more detailed treatment, and therefore could not be printed in the second edition of the catalogue itself.

Some updates concerning the genus *Donacia* FABRICIUS, 1775 have already been published by GEISER & JÄCH (2021). At that time it had generally been assumed that the updated and revised edition of Vol. 6 would be published in 2022. But in fact, according to the web site of Brill (https://brill.com/display/title/59168, https://brill.com/display/title/70809), Vol. 6/2 was publi-

shed as follows: Part 1: e-book (PDF) on May 21, 2024; printed book (hard cover) on May 23, 2024. Part 2 (literature only): e-book (PDF) on July 1, 2024; printed book (hard cover) on May 23, 2024.

In GEISER & JÄCH (2021) only the changes regarding the genus *Donacia*, compiled until August 2021, were processed; since then, new results regarding the genus *Donacia* were obtained, which are presented herein. The numerous changes in the genus *Plateumaris* THOMSON, 1859 were published by GEISER (2023), and the changes in *Sominella* JACOBSON, 1908 and *Macroplea* SAMOUELLE, 1819 are treated here.

Most of the additions concern faunistic data. The author continued to visit European museums to study the Donaciinae of their collections. New or corrected identifications revealed many unpublished country records. Here, all changes in country records are listed and detailed data on previously unpublished records are documented.

Material and methods

Abbreviations:

HNHM	Hungarian Natural History Museum, Budapest, Hungary (Ottó Merkl †, Tamás Németh)
NHMB	Natural History Museum, Basel, Switzerland (Matthias Borer, Christoph Germann, Eva Sprecher, Isabelle Zürcher)
NHMUK	Natural History Museum [formerly: BMNH British Museum of Natural History], London, United Kingdom (Maxwell V.L. Barclay, Michael Geiser, Dmitry Telnov)
NHRS	Swedish Museum of Natural History, Stockholm, Sweden (Johannes Bergsten)
NMPC	National Museum (Natural History), Praha, Czechia (Jiří Hájek, Lukáš Sekerka)
NMW	Natural History Museum Vienna, Wien, Austria (Michaela Brojer, Manfred A. Jäch, Harald Schillhammer, Matthias Seidel, Helena Shaverdo)
SMNK	Staatliches Museum für Naturkunde, Karlsruhe, Germany (Alexander Riedel)
SNM	Slovak National Museum – Natural History Museum, Bratislava, Slovakia (Vladimir Janský, Martin Sečanský)
ZFMK	Zoological Research Museum Alexander Koenig, Bonn, Germany (Dirk Ahrens, Karin Ulmen)
ZIN	Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia (Alexey Moseyko)
ZMHUB	Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitätsforschung [formerly: Zoological Museum of the Humboldt University of Berlin], Berlin, Germany (Bernd Jaeger, Silke Knippert, Joachim Willers)
ZMUM	Zoological Museum of the State University, Moscow, Russia
ZSM	Bavarian State Collection of Zoology, München, Germany (Michael and Ditta Balke, Lars Hendrich, Katja Neven)
CPC2010	Catalogue of Palaearctic Coleoptera, Vol. 6 (Chrysomeloidea) (LÖBL & SMETANA 2010 (eds.), SILFVERBERG 2010)
CPC2024	Catalogue of Palaearctic Coleoptera, Vol. 6/2 (Chrysomelidae II) (BEZDĚK & SEKERKA 2024 (eds.), GEISER 2024)
ab.	aberration (infrasubspecific), generally unavailable according to ICZN (1999: Art. 45.6)
coll.	stored in collection
det.	identified by
ex.	specimen
exs.	specimens
ex coll.	derived from collection
ICZN	International Commission on Zoological Nomenclature
IN	infrasubspecific name (unavailable)
leg.	collected by
pers. comm.	personal communication
t.	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 names which are new in CPC2024 or 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) country records, which were not included in CPC2010 or in GEISER & JÄCH (2021).

Distribution: The general distribution is here provided only for those species, which were not mentioned in GEISER & JÄCH (2021).

Corrections: During the printing process of the CPC2024 new insights were gained and errors recognized. Therefore, these are supplemented or corrected here, even if they are changes to the CPC2024 and not changes to the CPC2010.

In the chapter "References" no original descriptions of the mentioned taxa are cited (except for some necessary exceptions). They are all listed in CPC2024.

Donacia antiqua KUNZE, 1818

Correction: In CPC2024, *Donacia antiqua* is listed for the Central Territory of Russia: "RU (CT)". This record must be deleted, because recent examination of the relevant museum specimens has shown that these belong to *D. brevitarsis*. In the literature sources initially considered reliable, it was found that correct reports of *D. antiqua* (from areas where this species actually occurs) were mixed with erroneous reports from other areas. For further explanation, see GEISER & JÄCH (2021).

Donacia apricans LACORDAIRE, 1845

andalusiaca KRAATZ, 1870: 271 (var.)
inermis FUENTE, 1904: 389 (var.)

Original description (date): *Donacia andalusiaca* was described in 1870 and not in 1869 (see Berliner Entomologische Zeitschrift, Vol. 13 (1869/1870): p. IX, footnote 1).

Distribution: Southwestern Palaearctic, Algeria, Morocco, Spain and Sicily.

Although the country list did not change between CPC2010 and CPC2024, I would like to emphasize that this species does not occur in Turkey. SAHLBERG (1913) recorded one specimen of *Donacia andalusiaca* collected at Mersin in the south of Turkey. GOECKE (1957) synonymized *D. andalusiaca* and *D. inermis* with *D. apricans*. He also cited SAHLBERG (1913) as reference for a record in Turkey and mentioned this country again in his world list of Donaciinae species (GOECKE 1960). BOROWIEC (1984) listed Turkey but mentioned that this record has not been confirmed. In the critical study of EKIZ et al. (2020) on Donaciinae of Turkey all previous records were checked and only confirmed records were published. I have identified many museum specimens but never found any collected east of Sicily. I also found specimens that were labelled as *D. apricans* but were in fact *D. impressa*. These two species are very similar to each other, and therefore they can be easily confused.

Donacia aquatica (LINNAEUS, 1758)

Additional records:
CRIMEA: Mountain-forest region in the south (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).
KAZAKHSTAN (first record): Aktjubinsk [= Aktobe Region], Temir, 16.V.1999, 1 ex., det. E. Geiser 2022, ex coll. Warchałowski (NMPC).

RUSSIA (SOUTH TERRITORY): Saratov Oblast, 2 exs., det. E. Geiser 2019, ex coll. N.L. Sacharow (NHMUK); Saratov Oblast, Khvalynsk near Cheremshany, on *Carex* at a pond, V.2010 (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

Donacia bactriana WEISE, 1887

bactriana cyanea SHAVROV, 1948: 50 (ab.) [IN]
bactriana rubra SHAVROV, 1948: 51 (ab.) [IN]

Donacia bactriana varies in color. While females are always bronze-coloured, the males show various shades of blue, green, golden-green, bronze, dark red or black colors on pronotum and elytra, always with a bright metallic sheen.

Donacia bicolora ZSCHACH, 1788

bicolora meridionalis WEISE, 1886: 250 (var.)

Taxonomy: In GEISER & JÄCH (2021) *D. bicolora meridionalis* was synonymized with *D. bicolora*, because the characters of the former are within the variation range of the latter and both occur in southern Italy. Since then, I have found additional specimens with such characters described by WEISE (1886) as *D. bicolora* var. *meridionalis*, which occur throughout the entire distribution area from Europe to East Siberia. Therefore, these characters are not restricted to specimens from southern Italy. This is an additional argument that these specimens represent a variation and not a subspecies.

Additional records:

GREECE (first records): Great Prespa Lake, north bank, 5.IX.2014, 1 ex., leg. Z. Martinová, det. E. Geiser 2021, ex coll. Voříšek (NHMUK); Mikron, Tsiachmati near Pharsalos [Farsala], 26.IV.–4.V.1941, 1 ex., leg. et det. F. Schubert, t. E. Geiser 2023 (NMW).

KAZAKHSTAN: West Kazakhstan Region (Europe), Uralsk [= Oral], 1 ex., det. V. Tomov, t. E. Geiser 2020, ex coll. Reitter (HNHM).

Donacia brevicornis AHRENS, 1810

Additional record:

KAZAKHSTAN: Akmola Region, Kokshetau forest, 4.VII.1932, det. Bieńkowski (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

Donacia brevitarsis THOMSON, 1884

Donacia brevitarsis has been often confused with *D. antiqua* (see above), due erroneous identification keys. This was corrected by BOROWIEC (1989) and KIPPENBERG (1994). Therefore, only the country records of newly identified specimens were used for CPC2024. Verified data sources for the countries (or subordinate units) are listed in GEISER & JÄCH (2021). Some additional records are shown below.

Additional records:

BOSNIA and HERZEGOVINA: Bosnia, 2 exs., det. E. Geiser 2023, [ex coll.] Apfelbeck (ZMHUB); Bosnia, Derventa, 1 ex., *Donacia antiqua* det. Apfelbeck, *D. brevitarsis* det. E Geiser 2022, ex coll. Machatschke acquired 1975 (ZSM); Bosnia, Derventa, 4 exs., det. E. Geiser 2024, ex coll. J. Breit (NHMB, coll. Frey).

NORWAY: Buskerud County, Kongsberg, 1 ex., *Donacia antiqua* det. H. Goecke 1956, *D. brevitarsis* det. E. Geiser 2021, ex coll. F. Hauser (NMW).

SLOVENIA (first record): "Carniola" [historical region], Radna, 1 ex., [leg.] Dr. Wradatsch, *Donacia antiqua* det. Goecke, *Donacia brevitarsis* det. E. Geiser 2021, ex coll. F. Rüschkamp, no 1/1964 (ZFMK); Carniola, Radna, 1 ex., [leg.] Dr. Wradatsch, *Donacia brevitarsis* det. E. Geiser 2023 (ZMHUB).

Donacia cinerea HERBST, 1784

Additional records:

CRIMEA: Foothills between Simferopol and Sevastopol (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

PORTUGAL (first record): Algarve, W Lagoa do Jardim, NE Vila do Bispo, 37°7'41"N 8°53'6"W, 4.IV.2022, 1 ex., leg. L. Hendrich, det. E. Geiser 2023 (ZSM).

Donacia clavareaui JACOBSON, 1906

mediohirsuta CHEN, 1966

Taxonomy: *Donacia kweilina* CHEN, 1966 is a species propria (see below) and not a synonym of *D. clavareaui* as proposed by GEISER (2019) and GEISER & JÄCH (2021). No record of *D. clavareaui* is yet known from Guangxi (China).

Donacia clavipes clavipes FABRICIUS, 1792

Additional records:

CHINA: Xinjiang Autonomous Region, Bagratsch-Kul [= Lake Bosten], Kurla, V.1902, 9 exs., det. E. Geiser 2022, ex coll. F. Hauser (NMPC), 24 exs. with exactly the same label text, det. E. Geiser 2023 (NMW).

KAZAKHSTAN: Western Kazakhstan (Europe), Atyrau Region, Inder District, env. Inderbor, 5.VI.1907 (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

NORTH MACEDONIA (first record): Yu[goslavia], Ochrid-Struga, 17.VI.1972, 1 ex., leg. Schurmann, det. E. Geiser 2024, ex coll. Vukovits (NMW).

TURKEY (European Turkey): Edirne (ÖZDIKMEN 2022).

Donacia crassipes FABRICIUS, 1775

Additional records:

CRIMEA: Foothills between Simferopol and Sevastopol; Kerch Raion (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

KAZAKHSTAN: West Kazakhstan Region (Europe), Yanvartsevo, at the Ural River, 16.VI.1949, L. Arnoldi (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

MONTENEGRO (first record): S of Lake Skadar, near Donji Murič 20.V.2014, 2 exs., leg. P. Jansa, det. E. Geiser 2023 (OLML).

SPAIN: Ciudad Real, V.2003, VI.2004, 2005 (FERNÁNDEZ-CARILLO & FERNÁNDEZ-CARILLO 2005).

Donacia dentata HOPPE, 1795

Additional records:

CRIMEA: Mountain-forest region in the south (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

KAZAKHSTAN: West Kazakhstan Region (Europe), Uralsk [= Oral], 1 ex., det. E. Geiser 2019, ex coll. Reitter (HNHM); West Kazakhstan Region (Europe), Yanvartsevo, near the Ural River, 13.VI.1950 (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

TURKEY (first record): Ankara Province, Kızılcahamam, 15.VI.1968, 16 exs., leg. G. Wewalka, det. E. Geiser 2022, ex coll. Wewalka (NMW); "Turcia", 2 exs., det. E. Geiser 2019, ex coll. I. Frivaldszky (HNHM).

Imre Frivaldszky (1799–1870) has carried out many collecting trips throughout Hungary, the Ottoman Empire and Italy. These specimens must have been collected before 1870. "Turcia", especially before 1870, is a very imprecise location, but the 16 specimens collected by G. Wewalka confirm the occurrence within the borders of the Republic of Türkiye.

Donacia fennica (PAYKULL, 1800)

The species does not occur in Sweden, even if the occurrence in Sweden (MOHR 1966a) or Fennoscandia (WARCHAŁOWSKI 2010) has been mentioned in the literature. See:
https://www.inaturalist.se/taxa/990868-Donacia-fennica [29.IV.2024] and
https://artfakta.se/taxa/212576/information [29.IV.2024]
Both sites are maintained by the Swedish Species Information Centre, Uppsala, Sweden.

Donacia freyi GOECKE, 1940

All specimens of *D. freyi* known so far were caught on a single collecting trip to the poorly accessible North Albanian Alps (Prokletije Mountains) in August and September 1918. Besides "Prokletija-Gebirge", some labels are also provided with a more precise locality information ("Qafa Borit" [Qafa e Bordolecit], which is a mountain pass at the border to Montenegro). It is therefore very likely that this species also occurs in Montenegro.

Donacia gracilicornis JACOBSON, 1899

Additional records:
ARMENIA: Armawir Province, Araz River, 40°1'43"N 44°0'21"E, 15.V.1928 (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).
RUSSIA (SOUTH TERRITORY): Krasnodar Krai, Sochi, Mamayka, pond, on *Sparganium*, 1.IX.1992 (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

Donacia impressa PAYKULL, 1799

Original description (date): GEISER & JÄCH (2021) noted that this species was described in the first volume of the "Fauna Svecica" in 1798. However, the description is found on page 193 of Tomus II, as correctly stated in CPC2010.

Additional record:
CRIMEA: Western part of the south coast (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

Donacia kweilina CHEN, 1966

GEISER (2019) synonymized *D. kweilina* with *D. clavareaui*, but *D. kweilina* is a species propria according to HAYASHI & PÜTZ (2008). It is currently known only from Guangxi (China).

Donacia malinovskyi AHRENS, 1810

Additional records:
RUSSIA (WEST SIBERIA): Chelyabinsk Oblast, Uvelka District, Kabanka River, 10.VI.1997, 5 exs.; Chelyabinsk Oblast, Katav-Ivanovsk District, Tyulyuk River, 25.VII.1997, 3 exs. (both records after GUS'KOVA 2010); Tjumen Oblast, Tobolsk, left bank of Irtysh River, 23.VI.1941 (ZMUM) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

Donacia marginata HOPPE, 1795

chlamydata BALTHASAR, 1934: 129 (ab.) [IN]

In *Donacia marginata*, colour variations were described by PANZER (1795) as "*vittata*", by WESTHOFF (1882) as var. "*unicolor*", and by BALTHASAR (1934) as ab. "chlamydata".

Additional records:

ALBANIA: South Albania, Liqeni i Butrintit [= Butrintit Lake], 1958, 8 exs., leg. Smetana, det. R. Mlejnek 2015, t. E. Geiser 2022 (NMPC).

CHINA: East Turkestan [= Xinjiang], Tian Shan, Yulduz Mountains, 1 ex., det. E. Geiser 2023, ex coll. A. Winkler (NMW).

CRIMEA: Foothills between Simferopol and Sevastopol (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

Correction: *Donacia marginata* has not been confirmed for East Siberia so far. GEISER & JÄCH (2021) published two records from Krasnoyarsk Krai (Yenisey River at Krasnoyarsk, and Lake Bartat), which were allocated to East Siberia. According to the map of Russia in CPC2010 and CPC2024, the border between WS and ES is formed by the Yenisey River, cutting the city of Krasnoyarsk into halves, one lying in West Siberia and the other one in East Siberia. Lake Bartat lies clearly west of the Yenisey, and the other locality (Krasnoyarsk, Akademgorodok) lies on the western bank of the Yenisey River. Therefore, both localities must be attributed to West Siberia, and "RU (ES)" must be deleted from CPC2024, although it can be assumed that this species occurs there as well.

Donacia obscura GYLLENHAL, 1813

Additional record:

RUSSIA (SOUTH TERRITORY): Volgograd Oblast, Volgograd, V.1952, 1 ex., det. L.N. Medvedev, t. E. Geiser 2024 (NHMB).

Correction: GEISER & JÄCH (2021) cited two records from Kuznetsk Alatau (South Siberia) following GUS'KOVA et al. (2018). These records were originally published by MIKHAILOV (1996), who collected these specimens and identified them as *D. obscura splendens* JACOBSON, 1894 according to the then up-to-date taxonomy. Later, HAYASHI (2000) revised the *D. obscura* complex and proposed full species rank for *D. splendens*, which consists itself of two subspecies: *D. s. splendens* and *D. s. hiurai* KIMOTO, 1983. The latter is restricted to Japan. The specimens cited in GUS'KOVA et al. (2018) belong to *D. s. splendens*, which does in fact occur in South Siberia (Y.E. Mikhailov, pers. comm. 2022). For *D. obscura* there are instead no confirmed records known from South Siberia, and therefore this species was not listed for "RU (SS)" in CPC2024.

Donacia polita KUNZE, 1818

Additional records:

PORTUGAL (first record): Algarve, 4.5 km N Vila do Bispo, Lagoa Funda, 37°7'19"N 8°53'40"W, 3.–4.IV.2018, 5 exs., leg. Lars & David Hendrich, det. E. Geiser 2023 (3 exs. in ZSM, 2 exs. in coll. E. Geiser); Algarve, NE Vila do Bispo, W Lagoa do Jardim, 37°7'41"N 8°53'8"W, collected from white-flowering aquatic plants, 4.IV.2022, 2 exs., leg. L. Hendrich, det. E. Geiser 2023 (ZSM).

RUSSIA (SOUTH TERRITORY) (first record for Russia): Volgograd Oblast, SW of Lake Elton, 11.V.2001, 1 ♂, 1 ♀, leg. A. Nilsson, det. E. Geiser 2022 (NHRS).

Correction: GEISER & JÄCH (2021) assumed that the label text "*graecorinsularis* DAN." in the SNM may refer to Karl Daniel (1862–1930). However, "DAN." obviously refers to Josef Daniel (1863–1934), the brother of Karl Daniel and a chemist, too (SCHERER 1982). In the ZSM I found another specimen of "var. *graecorinsularis* J. DAN" with the same locality label as the specimens in the SNM.

Donacia reticulata Gyllenhal, 1817

Additional record:
MONTENEGRO: "Montenegro" [no further data], 15 exs., det. E. Geiser 2021 (ZFMK).

Donacia semicuprea Panzer, 1795

Additional records:
GREECE: Corfu, 3 exs., leg. Kyselý, det. R. Mlejnek 2015, t. E. Geiser 2022 (NMPC); Lake Stymfalia, 37°51'5"N 22°26'40"E, 600 m, 5.V.2012, 1 ex., leg. A. Link, det. E. Geiser 2016 (coll. A. Link, Haid bei Ansfelden, Austria).
RUSSIA (SOUTH TERRITORY): Belgorod Oblast, Grayvoron SW of Borisovka, 22.V.1916, 10.VII.1929 (ZIN) (Bieńkowski & Orlova-Bieńkowskaja 2016); Belgorod, 1 ex., det. R. Mlejnek 2015, t. E. Geiser 2022 (NMPC).

Donacia simplex Fabricius, 1775

Additional records:
ALBANIA: Gjirokastra, Tepelena, Vjosa River, 40°17'N 20°2'E, 132 m, sandy habitat on higher level of floodplain, "Heißlände" [xeric alluvial biotope], hand caught at night, 3.VI.2021, 2 exs., leg. W. Paill, J. Guncy & G. Kunz, det. E. Geiser 2022 (NMW).
BOSNIA and HERZEGOVINA: Mohr (1966b).
CRIMEA: eastern Yayly Mountain region; Gorno-Lesnoy Mountain region; Kerch District (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).
GREECE: Peloponnes, Kalavryta, IV.1936, 19 exs., leg. J. Mařan & K. Táborský, det. R. Mlejnek 2015, t. E. Geiser 2022 (NMPC); East Makedonia, near Drama, 1.–3.V.1989, 1 ex., leg. J. Ježek, det. R. Mlejnek 2015, t. E. Geiser 2022 (NMPC).

Donacia splendens splendens Jacobson, 1894

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

In Gus'kova et al. (2018) these records were published as "*Donacia obscura*", but they belong in fact to *D. splendens splendens*. For further explanation, see above, under *D. obscura*.

Donacia thalassina intermedia Jacobson, 1899

Additional record:
RUSSIA (SOUTH SIBERIA): Altai Republic, Kosh-Agach, Chui-Steppe 8.VIII.1899 (ZIN) (Bieńkowski & Orlova-Bieńkowskaja 2016).

Donacia thalassina thalassina Germar, 1811

extensa Shavrov, 1948: 51 (ab.) [IN]
inermis Shavrov, 1948: 51 (ab.) [IN]
viridis Shavrov, 1948: 51 (ab.) [IN]

Donacia thalassina is very variable, which is reflected by the descriptions of three aberrations by Shavrov (1948).

Additional record:
MONTENEGRO: Rumija Mountain, 28.VI.1985, 3 exs., leg. M. & J. Hladilovi, 1 ex., det. E. Geiser 2021 (ZFMK), 2 exs., det. E. Geiser 2023, ex coll. H. Gräf, Inv-Nr. E-Col-13 (SMNK).

Donacia tomentosa AHRENS, 1810

Additional records:

KAZAKHSTAN: West Kazakhstan Region (Europe), Uralsk [= Oral City] env., 51°22'12"N 51°13'48"E, 31.VI.1907, B. Uvarov (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

RUSSIA (SOUTH SIBERIA): Altai Region (GUS'KOVA 2010, BIEŃKOWSKI 2014).

Donacia versicolorea (BRAHM, 1790)

Additional records:

CRIMEA: Foothills between Simferopol and Sevastopol (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

RUSSIA (SOUTH TERRITORY): North Caucasus, Karachay-Cherkess Republic, Karachaevsky District, Teberda, 25.VII.1939 (ZMUM) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016, GUSKOVA et al. 2016).

GEISER & JÄCH (2021) erroneously claimed that *Donacia versicolorea* does not occur in the South Territory ("ST") of Russia, because in the cited references (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016, GUSKOVA et al. 2016) the geographical definition of the South European Territory is different from the delimitation used in the Catalogue of Palaearctic Coleoptera, which includes the Russian part of the Caucasus.

Donacia vulgaris ZSCHACH, 1788

Additional records:

GREECE: Peloponnes, Argos, 1935, 2 exs., leg. J. Mařan & O. Štěpánek, det. R. Mlejnek, t. E. Geiser 2022, ex coll. Barton (NMPC).

ISRAEL: Lake Hula, 8.IV.1945, 1 ex., Middle East biological Studies Scheme G.H.Q.M.E.F., det. E. Geiser 2024, B.M. [British Museum] 1947-393 (NHMUK).

RUSSIA (SOUTH SIBERIA): Altai Region, 31.V.1905 (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

Correction: Israel ("IS") has to be added to the country list.

Sominella longicornis (JACOBY, 1890)

Additional records:

CHINA: Chongqing Municipality, Wanzhou [urban district of Chongqing City] (CHEN et al. 2010); Guangdong Province, Danxia Shan NP, Wo Long Gang Forest Walkway, 25°1'18"N 113°44'30"E, 100 m, 23.–26.IV.2013, 8 exs., leg. J. Hájek & J. Růžička, det. J. Bezděk 2015 (NMPC); the specimens were compared with the lectotype (BMNH) by J. Bezděk 2015.

Distribution: Central and SE China and Oriental Region.

Sominella macrocnemia (FISCHER VON WALDHEIM, 1823)

macrocnemia FISCHER VON WALDHEIM, 1823: pl. XLVII (*Donacia*)

Original description (date): In CPC2024, the year of the original description had to be changed from 1824 to 1823, because according to BOUSQUET (2016) the plates showing the beetles were already published in FISCHER VON WALDHEIM (1823), while the text of volume 2 was issued one year later (FISCHER VON WALDHEIM 1824).

Additional records:

NORTH KOREA: "Korea borealis", I.1952, 1 ex., leg. Dr. Sobešlavský, det. J. Voříšek 1980, t. E. Geiser 2021, ex coll. J. Voříšek (NHMUK).

SOUTH KOREA: "Chemulpo" [= Incheon], 1 ex., det. E. Geiser 2023 (ZMHUB).

Distribution: East Asia.

Genus *Macroplea* SAMOUELLE, 1819

Apelma BILLBERG, 1820: 53
Calamobia GISTEL, 1856: 378
Haemonia DEJEAN, 1821: 114

Original description (page number): The page of the original description of *Apelma* was corrected from 57 to 53 in CPC2024 (see BEZDĚK & BIONDI 2018).

Taxonomy: *Calamobia* GISTEL, 1856: 378 has been added to the list of synonyms in CPC2024 (see BEZDĚK 2020).

According to BOUCHARD et al (2024: 244), referring to (ICZN 1999: Art. 68.3), the type species of *Haemonia* actually is *Haemonia equiseti* FABRICIUS, 1798 [= *Macroplea appendiculata* (PANZER, 1794)] and not *Donacia zosterae* FABRICIUS, 1801 [= *Macroplea mutica* (FABRICIUS, 1792)] as erroneously stated in CPC2010, regardless, whether DEJEAN (1821: 114) considered "var. *zosterae*" as a synonym or (more likely) as a subspecies of *Haemonia equiseti*. The ICZN (1999: Art. 68.3) rules that "When an author establishes a new nominal genus-group taxon for a single taxonomic species and denotes that species by an available name, the nominal species so named is the type species. … regardless of any cited synonyms, subspecies, …".

Macroplea appendiculata (PANZER, 1794)

lineata CHEVROLAT, 1844: 258 (*Crioceris*)

When CHEVROLAT (1844) described *Haemonia lineata*, he regarded *Haemonia* as a subgenus of *Crioceris* GEOFFROY, 1762, and therefore, the original combination of *M. lineata* (CHEVROLAT, 1844) is in fact *Crioceris lineata* CHEVROLAT, 1844, not *Haemonia lineata* CHEVROLAT, 1844.

Additional records:

CHINA: Xinjiang Autonomous Region, Altay, Fuyun County, tributary of Ertix River, 47°1'26"N 89°45'7"E, 1332 m, 11.VII.2009, 37 exs., leg. Z. Wang (National Zoological Museum of China, Institute of Zoology, Beijing) (LOU et al. 2011).

CRIMEA: Foothills between Simferopol and Sevastopol (S.A. Mosiakin, pers. comm., unpublished data compiled in 2019).

RUSSIA (SOUTH TERRITORY): Saratov Oblast, Balashov, VI.1909, [leg.] Jakobson (ZIN) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016); Saratov Oblast, Chwalynsk, bank of Wolga River, two cocoons with fragments of imagos, 19.VIII.2011, leg. M. & A. Bieńkowski (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

RUSSIA (SOUTH SIBERIA): Republic of Buryatia, Selenginsky District, Lake Shchuch'ye, 51°25'30"N 106°32'1"E, 2.VIII., 20.VIII., 1.IX., 10.IX.1956 (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).

RUSSIA (EAST SIBERIA): "Transbaikalia" [= Zabaykalsky Krai], Lake Arakhley, 52°13'11"N 112°50'7"E, on *Potamogeton perfoliatus* and *P. praelongus*, 5.VI.2000 (BIEŃKOWSKI 2014).

SLOVAKIA: Western Slovakia, Nitra (NMPC) (BEZDĚK & MLEJNEK 2016).

Correction: East Siberia ("ES") has to be added to the distribution list in CPC2024.

Distribution: Europe and Central Asia to East Siberia.

Macroplea appendiculata has been recorded from North Africa (Algeria) by JOLIVET (1968) and LOU et al. (2011), but these records were based on misidentification of *M. mutica* (see DACCORDI & RUFFO 1978).

Macroplea huaxensis LOU & LIANG, 2011

This species is a new addition to CPC2024.

Distribution: Known only from China (Guizhou Province: Guiyang City, Huaxi District, Huaxi River) (LOU et al. 2011).

Macroplea japana (JACOBY, 1885)

skomorokhovi MEDVEDEV, 2006

Taxonomy: According to LOU et al. (2011), L.N. Medvedev himself had realized that his *Macroplea skomorokhovi* is a synonym of *M. japana* and he intended to publish the synonymy (pers. comm. to Q. Lou), which he has not done so far. However, in principle this synonymy was published by LOU et al. (2011) anyway. BIEŃKOWSKI (2014) and HAYASHI (2020) also treated *M. skomorokhovi* as a synonym of *M. japana.*

Additional records:
CHINA: Hebei Province, Heilongjiang Province, Hubei Province (LOU et al. 2011); Hunan Province, Liaoning Province (ZHANG et al. 2010).

Distribution: East Palaearctic.

Macroplea mutica (FABRICIUS, 1792)

balatonica SZÉKESSY, 1941b: 21 (*Haemonia*, ssp.)
baltica SEIDLITZ, 1875: 504 (*Haemonia*, var.)
lapponica HELLÉN, 1937: 4 (*Haemonia*, var.)
ruppiae GERMAR, 1831: nr. 9 (*Donacia*)
schiodtei GUÉRIN-MÉNEVILLE, 1844: 259 (*Crioceris*)

GUÉRIN-MÉNEVILLE (1844) regarded *Haemonia* (and *Donacia*) as subgenera of *Crioceris*.

Original description (date): The year of the description of *Donacia ruppiae* has been corrected from 1930 (in CPC2010) to 1931 (in CPC2024), following BOUSQUET (2016, 2017). According to BOUSQUET (2016), each of the 24 fascicles published by GERMAR (1831) contains 25 numbered plates in colour and one or two unnumbered explanatory text pages for each plate. *Donacia ruppiae* was published on the text page for plate nr. 9.

Note: *Donacia ruppiae* has been described almost 200 years ago. The year 1830 has since then been accepted as the year of description. It seems questionable, why the year of description has been changed from 1830 to 1831 in the absence of convincing evidence.

Additional records:
AZERBAIJAN: ORLOVA-BIEŃKOWSKAJA (2011).
CHINA: Heilongjiang Province and Tianjin Municipality (LOU et al. 2011).
CRIMEA: ORLOVA-BIEŃKOWSKAJA (2011).
JAPAN: HAYASHI (2020).
KAZAKHSTAN: Akmola Region, Atbasar, 51°47'59"N 68°20'57"E, 23.VI.1937, leg. S. Nikulin (ZMUM) (BIEŃKOWSKI & ORLOVA-BIEŃKOWSKAJA 2016).
RUSSIA (WEST SIBERIA, EAST SIBERIA, FAR EAST): BIEŃKOWSKI (2014), ORLOVA-BIEŃKOWSKAJA (2011).
TURKEY: TÜRKGÜLÜ et al. (2011).
TURKMENISTAN: BIEŃKOWSKI (2014).

Distribution: Palaearctic, from the North Sea and Central Europe through Asia to Japan.

Correction: "RU (WS)" (Russia: West Siberia) has to be added to the country list.

There are no confirmed records of *Macroplea mutica* from Belarus. All records published to date are erroneous (ALEKSANDROWICZ et al. 2023).

Macroplea pubipennis (REUTER, 1875)

incostata PIC, 1907 (*Haemonia*)
piligera WEISE, 1889 (*Haemonia*)

Taxonomy: There exist still doubts concerning the synonymy of *Macroplea piligera* and *M. pubipennis*. According to WARCHAŁOWSKI (2010), the elytral interstices are flat in *M. piligera*,

while they are slightly or distinctly convex in *M. pubipennis*. I have examined more than 40 specimens from Finland, Kazakhstan, Kyrgyzstan, Xinjiang and Gansu. I found these interstices to be variable (flat or distinctly convex), even within specimens from the same location. Therefore, this character is in my opinion taxonomically not significant.

Haemonia pubipennis was described by REUTER (1875) on specimens from the northernmost coast of the Baltic Sea in Finland. *Haemonia piligera* was described by WEISE (1889) based on a single female from Gansu ("Kan-ssu") Province in China, collected during one of the expeditions of G.N. Potanin on 21.VI.1886.

Because of the disjunct distribution, *M. piligera* and *M. pubipennis* were thought to be different species until ASKEVOLD (1990) synonymized them: "I have not found any differences among specimens of *M. piligera* from Turkestan (collected by F. Hauser) and *M. pubipennis* from Finland, including genitalic structure". KÖLSCH et al. (2006) studied the species delimitation of the genus *Macroplea* using mitochondrial DNA. They found differences between specimens collected from Finland (*M. pubipennis*) and those from Heilongjiang (*M. piligera*) that may indicate a subspecific separation. Additional studies would be most desirable.

Additional records:

CHINA: Heilongjiang Province (KÖLSCH et al. 2006); Ningxia Autonomous Region (LOU et al. 2011).

KAZAKHSTAN: Kyzylorda Region, "Kazalinsk" [= Qasaly], 1 ex., det. L. Sekerka. 2016, t. E. Geiser 2022, ex coll. Jurecek & Jureckova (NMPC).

KYRGYZSTAN: Issyk-Kul Region, Bokonbaevo District, Komur-Olen-Lake; north of Toguz-Bulak 42°8'N 76°43'E, 2000 m, 16.VI.2006, 3 exs., leg. M.L. & L. Borowiec, *Macroplea pubipennis* det. L. Borowiec 2006, t. E. Geiser 2022, ex coll. F. Kantner (NMPC); Issky-Kul Region, Bokonbaevo District, Komur-Olen Lake, 6 exs., *M. pubipennis* det. Warchałowski, t. E. Geiser 2019, ex coll. Warchałowski (NHMUK) – these specimens probably originate from the same series listed above, but the label includes no information on the collecting date or the collector.

RUSSIA (EAST SIBERIA): "Transbaikalia" [= Zabaykalsky Krai] (BIEŃKOWSKI 2014). The same author listed also the Republic of Buryatia in the distribution of *M. pubipennis*, but since he provided no accurate locality data, it is not possible to assign this record to either South Siberia ("SS") or East Siberia ("ES").

SWEDEN: Norrbotten Province, near Bergsviken and Luleå (BERGDAHL 2018, POHJOLA 2019), https://artfakta.se/artinformation/taxa/212570/detaljer [20.III.2024].

Distribution: Scandinavia to Central Asia, East Siberia and northern China.

Macroplea ranina LOU & YU, 2011

This species is a new addition to CPC2024.

Taxonomy: According to LOU et al. (2011), *Macroplea ranina* closely resembles *Neohaemonia voronovae* MEDVEDEV, 1977. The authors have not examined the "type" of the latter, but in the original description they stated that "Dr. Medvedev kindly sent habitus photographs of the type". LOU et al. (2011) listed several distinguishing characters, but it should be kept in mind that the intraspecific variation of both species still remains inadequately known.

Macroplea ranina shares indeed some characters with *Neohaemonia* SZÉKESSY, 1941. However, the phylogenetic relationships between *Macroplea* and *Neohaemonia* should in any case be clarified by molecular analyses in the future.

Distribution: Known only from China (Sichuan Province: Zoigê County, Keji Prairie) (LOU et al. 2011).

Discussion

The number of species and subspecies of Donaciinae was reduced from 99 to 91 in CPC2024. In the genus *Plateumaris*, the number of species and subspecies was reduced from 20 to 12 and the number of species from 16 to 10 (GEISER 2023): *P. affinis* (KUNZE, 1818) and *P. sulcifrons* WEISE, 1900 were synonymised with *P. rustica* (KUNZE, 1818), and *P. tenuicornis* BALTHASAR, 1934 with *P. consimilis* (SCHRANK, 1781), while *P. caucasica* (ZAITZEV, 1930), *P. discolor* (PANZER, 1795), *P. lacordairii* (PERRIS, 1864) and *P. sibirica* (SOLSKY, 1871) were synonymized with *P. sericea* (LINNAEUS, 1758); *P. obsoleta* JACOBSON, 1894 is also a synonym, but based on the female holotype (the only known specimen of this taxon) it cannot be decided whether it is a synonym of *P. sericea* or *P. shirahatai* KIMOTO, 1971. In the genus *Macroplea*, the number of species has increased from five to six, because two newly described species (*M. huaxensis* and *M. ranina*) were added, while *M. skomorohovi* is now regarded as a synonym of *M. japana*. Nothing has changed for the only *Donaciasta* FAIRMAIRE, 1901 species and the only *Neohaemonia* species of the Palaearctic Region. In CPC2010, 70 species and subspecies of *Donacia* were listed, while 69 are registered in CPC2024. Some species, such as *D. lungtanensis* HAYASHI & LEE, 2009 and *D. recticollis* JACOBY, 1893, have been added (see GEISER & JÄCH 2021). *Donacia fukiensis* GOECKE, 1944, which was listed as a synonym of *D. clavareaui* in CPC2010, was found to be a species propria (GEISER 2019, GEISER & JÄCH 2021). On the other hand, *D. bicolora meridionalis*, *D. mediohirsuta*, *D. jacobsoni* SEMENOV-TIAN-SHANSKIJ & REICHARDT, 1927, and *D. vulgaris issykensis* JACOBSON, 1901 have since been synonymized (GEISER & JÄCH 2021).

In addition to the countries (or subdivisions of larger countries) mentioned in CPC2010, in which the respective species have been recorded so far, numerous countries were added in CPC2024. In the last years, various national checklists or local reports have been published, which have enhanced the knowledge on the distribution of numerous taxa. In addition, many new faunistic data were procured by the author, when studying museum material. In GEISER & JÄCH (2021), 122 additional records for countries (or subdivisions) were listed for the genus *Donacia*. Since then, 48 additional countries were recorded for *Donacia*; in *Sominella*, one new literature record and three new museum records have been documented, while in *Macroplea*, 28 additional data sets (25 from the literature, and three from museum specimens) are included here. Due to the publication of some recent critical country checklists and personal communication with colleagues, some previously published country records had to be deleted in CPC2024.

Studies of museum collections not only provide new faunistic evidence, but are also essential for species and subspecies delimitation. Detailed studies of specimens from the entire distribution area of a species are necessary in order to be able to assess the morphological variability.

During the printing process of the CPC2024, the author was able to clarify further country records that are therefore not included in the CPC2024, but they are explained herein (see above): *Donacia antiqua* has not been confirmed for the Central Territory of Russia ("RU (CT)"), but *Donacia vulgaris* is known from Israel, and *Macroplea mutica* is also known from West Siberia.

The abundance of changes, which are itemised here for the Donaciinae shows how necessary regular updates of the Catalogue of the Palaearctic Coleoptera are. But there is still more to be clarified since there are some species of questionable status (GEISER & BEZDĚK 2024), and examination of additional material (museum specimens or newly collected samples) may provide new important data.

Acknowledgements

At first, I would like to thank the colleagues of various museums who supported this work. For additional help, interesting discussions, hints to rare literature or local records and other essential information, I am obliged to Ingolf Askevold (Tallahassee, Florida, USA), Ron Beenen (Nieuwegein, Netherlands), Masakazu Hayashi (Izumo, Japan), Horst Kippenberg (Herzogenaurach, Germany), Håkan Ljungberg (Uppsala, Sweden), Yuri E. Mikhailov (Yekaterinburg, Russia) and Tomi Trilar (Ljubljana, Slovenia). Helena Shaverdo (NMW) decoded labels in Cyrillic handwriting, and Irmgard Geiser (Salzburg, Austria) explained and translated Albanian locality names. Remigius Geiser senior (Salzburg, Austria) improved the first manuscript version with meticulous corrections and discussions. Special thanks are due to Jan Bezděk (Brno, Czechia) for his many essential hints and his quick answers to my numerous mails just during the busiest time while editing the CPC2024.

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