Catalogue of Cassidinae (Coleoptera: Chrysomelidae) from the New Leaf Beetles Collection from “Grigore Antipa” National Museum of Natural History (Bucharest) (Part II)

Sanda MAICAN¹, *, Rodica SERAFIM²

¹Institute of Biology Bucharest of Romanian Academy, 296 Splaiul Independenţei, 060031 Bucharest, P.O. Box 56–53, Romania.
²“Grigore Antipa” National Museum of Natural History, Kiseleff 1, 011341 Bucharest, Romania.
*corresponding author, e-mail: sanda.maican@ibiol.ro

Received: June 30, 2017; Accepted: November 7, 2017; Available online: December 28, 2017; Printed: December 31, 2017

Abstract. The paper reports data on the species of Cassidinae preserved in the new Chrysomelidae Collection of “Grigore Antipa” National Museum of Natural History (Bucharest). A total of 852 specimens, representing four genera and 31 species are listed. Out of them, 11 species are recently entered in this collection. New distributional data for some rare species of Cassida in Romanian fauna are given.

Key words: Chrysomelidae, Cassidinae, collections, “Grigore Antipa” National Museum of Natural History, Bucharest.

INTRODUCTION

The subfamily Cassidinae includes about 16% of leaf beetle species diversity and forms the second largest clade of Chrysomelidae family, after Galerucinae (Chabo, 2007).

In old sense, Cassidinae (commonly named tortoise beetles) and Hispinae (leaf-mining beetles) were considered distinct subfamilies (Seeno & Wilcox, 1982). Cassidinae s.str. includes 2,906 species from 154 genera placed in 19 tribes (Seeno & Wilcox, 1982) or 12 tribes (Borowiec, 1999), and Hispinae s.str. comprises 2,980 species grouped in 170 genera and 24 tribes (Seeno & Wilcox, 1982; Staines, 2002; Chabo, 2007).

The combination of Cassidinae with Hispinae is relatively recent (Staines, 2002). Thus, the subfamily Cassidinae sensu lato includes 6,319 described species (3,371 hispines and 2,948 cassidines) distributed worldwide. According to Borowiec & Świętojańska (2014), Cassidines are classified in 341 genera and 36 tribes.

A total of 32 species of Cassidinae from four genera (Cassida Linnaeus, Hypocassida Weise, Pilemostoma Desbrochers des Loges and Hispa Linnaeus) were reported in Romanian fauna (Maican, 2005; Sekerka, 2007).

In “Grigore Antipa” National Museum of Natural History, the Cassidinae material is included in the Collection of Palaearctic Coleoptera (data have been published partially) and in the recently formed Collection of Chrysomelidae. The study and arrangement of the material in the new leaf-beetle collection started in 2016. Thus, in the first part of the catalogue of this collection, data on 33 Palaearctic species of subfamilies Donaciinae (tribes Donaciini, Haemoniini and Plateumarini) and Criocerinae were published (Maican & Serafim, 2016).
MATERIAL AND METHODS

The new Cassidinae collection, which we refer in this paper, comprises:
- material that was not included in the Collection of Palaearctic Coleoptera, containing specimens from collections of Dénes Kenderessy (1846–1881), Edmund Reitter (1845–1920), Arnold Lucien Montandon (1852–1922), Friedrich Deubel (1845–1933), Richard Canisius (1872–1934), and Emil Várady. The Collection of Palaearctic Coleoptera was created around 1960, by gathering all the collections entered into the scientific heritage of “Grigore Antipa” Museum, at the end of the 19th century and the beginning of the 20th century;
- material collected from Romania (1951–2017) by the team of specialists from “Grigore Antipa” Museum and their collaborators during several research projects on the Romanian fauna;
- material from Dr. Nicolae Săvulescu (1920–1992) collection, which was included in the Museum patrimony after his death;
- specimens donated by Franz Salay (1861–1946), Igor Ceianu (1925–2000), Vladimir Brădescu (1915–2004), Mihai Şerban Proches, Adrian Ruicănescu, Viorel Ungureanu, Sanda Maican;
- material collected during the scientific expeditions organized by “Grigore Antipa” Museum in the areas of the Mediterranean Basin: “Punia” 2006 (Tunisia) and “Euphrates” 2008 (Turkey).

The paper presents the results of the study of the cassidines material (tribes Cassidini and Hispini) preserved in the new Chrysomelidae collection of the “Grigore Antipa” National Museum of Natural History, Bucharest.

Parts of the material of Chrysomelidae were published by Negru & Roşca (1967), Negru (1968), Hoinic (1994), Maican & Serafim (2001, 2004, 2009, 2012), Maican (2006, 2007 a, b), Serafim & Maican (2004, 2008, 2011), Ungureanu et al. (2008).

The species identification was made by Atena Roşca¹, Igor Ceianu², Cristina Hoinic³, Sanda Maican, Rodica Serafim, Ştefan Negru⁴ and Mircea Alexandru Ieniştea⁵. For identification, the following papers were consulted: Warchałowski (2003, 2010), Sekerka (2010), Borowiec (2013), Borowiec & Świętojańska (2002–2017). Nomenclature and systematic order follows the Catalogue of Palaearctic Coleoptera (Borowiec & Sekerka, 2010).

The stereomicroscope Stemi 2000-C was used to identify the specimens, and habitus photos were taken using the Canon EOS 5D Mark IV digital camera.

For each species, the collecting site, date, the number of the specimens, the collectors’ name and the host plants are mentioned.

Abbreviations:
coll. – collection; f.c. – Forest chalet; Mt. (Mts) – Mountain/Mountains; m a.s.l. - meters above sea level; spec. (s) - specimen/specimens.

Names of the collectors:

¹Atena Roşca (1930–1976), worked at the Museum between 1954 and 1976.
²Igor Ceianu (1925–2000), a Romanian specialist of plant protection.
³Cristina Hoinic (1967–1997), worked at the museum between 1992 and 1997.
⁴Ştefan Negru (1923–1970), worked at the Museum between 1963 and 1970.
⁵Mircea Alexandru Ieniştea (1910–1994), a renowned entomologist and professor, collaborator of the Museum.
Family Chrysomelidae Latreille, 1802
Subfamily Cassidinae Gyllenhal, 1813
Tribe Cassidini Gyllenhal, 1813

*Cassida atrata* Fabricius, 1787

*Material:* 1 spec., Tuşnad (HR), without other data, coll. I.C. (Fig. 1).

*Host plants:* Lamiaceae: *Salvia glutinosa*, *S. pratensis* (Borowiec, 2013).

* Cassida aurora* Weise, 1907

*Material:* 1 spec., Maribor (Marburg), Slovenia, without other data, coll. Fr.D. (Fig. 2).

*Host plants:* Asteraceae: *Achillea millefolium*, *A. ptarmica* (Borowiec, 2013).

* Cassida azurea* Fabricius, 1801

*Material:* 1 spec., Săbăreni (GR), 17.V.1958, I.S; 1 spec., Mező Záh (Zau de Câmpie) (MS), Zoppa, coll. Fr.D.

*Host plants:* Caryophyllaceae: *Saponaria officinalis*, *Silene alba*, *S. behen*, *S. conica*, *S. vulgaris* (Borowiec, 2013).

* Cassida berolinensis* Suffrian, 1844

*Material:* 1 spec., Jegălia (CL), 26.V.1955, coll. I.C. (Fig. 3).

*Host plants:* Caryophyllaceae: *Minuartia viscosa*; Chenopodiaceae: *Atriplex sphaeromorpha*, *Chenopodium album*, *Salsola collina* (Borowiec, 2013).

RESULTS

The Chrysomelidae Collection of the “Grigore Antipa” National Museum of Natural History (Bucharest) includes 852 specimens representing 31 species belonging to four genera of Cassidinae, presented below. The species newly entered in the Museum collections are marked with *.

Abbreviations of the county names in Romania:

AB – Alba; AG – Argeş; BC – Băcău; BR – Brăila; BV – Braşov; BZ – Buzău; CS – Caraş Severin; CL – Călăraşi; CJ – Cluj; CT – Constanţa; DB – Dâmboviţa; DJ – Dolj; GL – Galaţi; GR – Giurgiu; HD – Hunedoara; HR – Harghita; IF – Ilfov; I.S – Iaşi; IS – Iaşi; MH – Mehedinţi; MM – Maramureş; MS – Mureş; NT – Neamţ; PH – Prahova; SJ – Sălaj; SM – Satu Mare; SV – Suceava; TL – Tulcea; TR – Teleorman; VS – Vaslui; VL – Vâlcea; VN – Vrancea. Bucureşti – Bucharest (capital city of Romania).

The Chrysomelidae Collection of the “Grigore Antipa” National Museum of Natural History (Bucharest) includes 852 specimens representing 31 species belonging to four genera of Cassidinae, presented below. The species newly entered in the Museum collections are marked with *.

Family Chrysomelidae Latreille, 1802
Subfamily Cassidinae Gyllenhal, 1813
Tribe Cassidini Gyllenhal, 1813

*Cassida atrata* Fabricius, 1787

*Material:* 1 spec., Tuşnad (HR), without other data, coll. I.C. (Fig. 1).

*Host plants:* Lamiaceae: *Salvia glutinosa*, *S. pratensis* (Borowiec, 2013).

* Cassida aurora* Weise, 1907

*Material:* 1 spec., Maribor (Marburg), Slovenia, without other data, coll. Fr.D. (Fig. 2).

*Host plants:* Asteraceae: *Achillea millefolium*, *A. ptarmica* (Borowiec, 2013).

* Cassida azurea* Fabricius, 1801

*Material:* 1 spec., Săbăreni (GR), 17.V.1958, I.S; 1 spec., Mező Záh (Zau de Câmpie) (MS), Zoppa, coll. Fr.D.

*Host plants:* Caryophyllaceae: *Saponaria officinalis*, *Silene alba*, *S. behen*, *S. conica*, *S. vulgaris* (Borowiec, 2013).

* Cassida berolinensis* Suffrian, 1844

*Material:* 1 spec., Jegălia (CL), 26.V.1955, coll. I.C. (Fig. 3).

*Host plants:* Caryophyllaceae: *Minuartia viscosa*; Chenopodiaceae: *Atriplex sphaeromorpha*, *Chenopodium album*, *Salsola collina* (Borowiec, 2013).

Abbreviations of the county names in Romania:

AB – Alba; AG – Argeş; BC – Băcău; BR – Brăila; BV – Braşov; BZ – Buzău; CS – Caraş Severin; CL – Călăraşi; CJ – Cluj; CT – Constanţa; DB – Dâmboviţa; DJ – Dolj; GL – Galaţi; GR – Giurgiu; HD – Hunedoara; HR – Harghita; IF – Ilfov; I.S – Iaşi; IS – Iaşi; MH – Mehedinţi; MM – Maramureş; MS – Mureş; NT – Neamţ; PH – Prahova; SJ – Sălaj; SM – Satu Mare; SV – Suceava; TL – Tulcea; TR – Teleorman; VS – Vaslui; VL – Vâlcea; VN – Vrancea. Bucureşti – Bucharest (capital city of Romania).
**Cassida canaliculata** Laicharting, 1781

*Material:* 2 specs, Comana Forest (GR), without other data, coll. A.L.M.; 1 spec., Câmpulung Moldovenesc (SV), 13.IV.1953, coll. I.C.; 3 specs, Floristic Reserve “The Secular Hayfields from Valea lui David”, Iași (IS), 10.V.2012, I.Șt.I.; 2 specs, the Natural Reserve “Marine Sand Dunes of Agigea” (CT), 23.V.2012, I.Șt.I.; 1 spec., Hașag (SB), 26.V.2015, E.I.; 1 spec., Fâcăeni (IF), 21.V.2017, G.C. (Fig. 4).

*Host plants:* Lamiaceae: *Salvia pratensis, S. verticillata* (Borowiec, 2013).

**Cassida deflorata** Suffrian, 1844

*Material:* 1 spec., Tunisia, near Bou Salem, Mejerda River, 27.III.2006, C.P. (Punia Expedition).

*Host plants:* Asteraceae: *Arctium lappa, Carduus tenuiflorus, Cirsium dyris, Cynara cardunculus, C. scolymus, Senecio cineraria, Silbum marianum* (Borowiec, 2013).

**Cassida denticollis** Suffrian, 1844

*Material:* 1 spec., Cehia, Moravia, Uherský Brod (Ungarisch Brod), without other data, Th.W.; 1 spec., Cernica Forest, București, 8.V.1962, I.D.; 1 spec., Chilia Veche (TL), 7.V.1964, M.W.; 1 spec., Cloșani (GJ), 16.VI.1992, C.P.; 1 spec., Canaraua Fetii (CT), 19.V.1993, C.H.; 1 spec., Dumbrăveni Forest (CT), 18.V.1994, C.H. (Fig. 5).

*Host plants:* Asteraceae: *Achillea millefolium, Artemisia absinthium, A. campestris, Tanacetum corymbosum, T. vulgare* (Borowiec, 2013).

**Cassida ferruginea** Goeze, 1777

*Material:* 1 spec., Cehia, Moravia, Uherský Brod (Ungarisch Brod), without other data, Th.W.; 2 specs, Mircesți (IS), 23.V.1968; 1 spec., Bașta (NT), 23.V.1973. (Fig. 6).

*Host plants:* Asteraceae: *Inula salicina, Pulicaria dysenterica, P. prostrata, P. uliginosa* (Borowiec, 2013).
Cassida flaveola Thunberg, 1794

Material: 1 spec., without collecting data. In Romania, this species was mentioned from Hâțeg, Sibiu, Arpad, Brașov (Petri, 1912), Zizin and Reghin (Kuthy, 1897). (Fig. 7).

Host plants: Caryophyllaceae: Cerastium vulgatum, Honkenya peploides, Malachium aquaticum, Špergula arvensis. S. nemorum, Stellaria graminea, S. media (Borowiec, 2013).

Cassida hemisphaerica Herbst, 1799

Material: 1 spec., Brașov, Tâmpa (Dealul Capelei = Kapellenberg) (BV), without other data, coll. Fr.D.; 1 spec., Bucovăț (DJ), 1.VIII.1951, X.S.P.; 1 spec., Sinaia (PH), IX.1957, I.S. (Fig. 8).

Host plants: Caryophyllaceae: Dianthus campestris, D. caryophyllus, Gypsophila paniculata, Saponaria officinalis, Silene cucubalus, S. flos-cuculi, S. latifolia, S. latifolia ssp. alba, S. natans, S. vulgaris (Borowiec, 2013).

*Cassida lineola Creutzer, 1799

Material: 1 spec., Hârşova (CT), without other data, coll. A.L.M.; 1 spec., without collecting data, coll. D.K.; 1 spec., Cerna (TL), 26.05.2005, C.B. (Fig. 9).

Host plants: Asteraceae: Artemisia absinthium, A. austriaca, A. campestris, A. scoparia (Borowiec, 2013).

*Cassida margaritacea Schaller, 1783

Material: 2 specs, without collecting data, coll. D.K. In Romania, this species was recorded from Hașag, Sibiu and Tâlmaciu (Kuthy, 1897). (Fig. 10).

Host plants: Caryophyllaceae: Saponaria officinalis, Silene inflata, S. latifolia, S. vulgaris, Špergula arvensis; Asteraceae: Antennaria margaritacea, Centaurea nemoralis, C. scabiosa, C. cyanus, C. stenolepis, Helichrysum arenarium (Borowiec, 2013).

Fig. 3 – Cassida berolinensis (Photo I. Ş. Iorgu). Scale bar: 1 mm.

Fig. 4 – Cassida canaliculata (Photo I. Ş. Iorgu). Scale bar: 1 mm.
Cassida murraea Linnaeus, 1767

Material: 1 spec., Transylvania, without other data, coll. D.K.; 1 spec., Argeş (AG), without other data, coll. R.C.; 1 spec., Periş (IF), without other data, coll. R.C.; 6 specs, Comana Forest (GR), without other data, coll. A.L.M.; 1 spec., Braşila (BR), without other data, coll. A.L.M.; Cocioi, Buculeşti, 2.VII.1906, coll. F.S. (1 spec.), 25.VI.1907, coll. F.S. (1 spec.); Voineşti (DB), 24.V.1950, X.S.P. (1 spec.), 24.V.1954, X.S.P. (1 spec.); Pasărea Forest (IF), 4.V.1951, N.S. (1 spec.), 5.X.1966 (3 specs); 1 spec., Tulcea (TL), 3.VII.1952, N.S.; Herculane Baths (Băile Herculane) (CS), 5.VII.1953 (1 spec.), 18.V.1960, A.P.G. (3 specs), 19.V.1964, A.P.G. (2 specs), 17–25.V.1965, N.S., A.P.G. (6 specs), 28.V.1966, A.P.G. (1 spec.); 2 specs, Bârnoava Forest (IS), 2 – 4.VI.1953, N.S.; Budeşti (CL), 28.VI.1954, X.S.P. (1 spec.), 9.VII.1957, N.S. (1 spec.); 1 spec., Băneasa Forest (IF), 4.V.1956, N.S.; 1 spec., Petre Vilcu (OT), 9.VI.1956; 1 spec., Cernica Forest (IF), 17.IV.1963, A.R.; 2 specs, Gâdinţi (NT), 11.V.1963–23.V.1965; 1 spec., Siseşi, Târgu Jiu (GJ), 7.07.1965; 1 spec., Stâniţa (NT), 7.V.1966; 1 spec., Ipotești (BT), 9.VI.1966, M.C.; Caraorman Forest, Danube Delta (TL), 9.V.1967–13.VI.1969, X.S.P. (2 specs), 24.VI.1991, P.G. (4 specs); Mirceaşti (IS), 23.V.1968 (1 spec.), 1.VIII.1971 (1 spec.); 1 spec., Letea Forest, Danube Delta (TL), 12.VII.1971, N.S.; 1 spec., Eşelnita (MH), 15.VI.1970, Şt.N.; Băsta (NT), 17.V.1971 (1 spec.), 23.V.1973 (2 specs); 1 spec., Purani (TR), 28.IX.1979, G.A.; 1 spec., Tăuţi de Sus (MM), 12.IV.1985, X.S.P.; 2 specs, Poiana Neamţului (SB), 15.V.1986, I.M.; 1 spec., Călineştii Oaş (SM), 21.V.1987, R.S.; 1 spec., Ştiuculeasa Forest, Maxenu (BZ), 17.VII.1987, G.A.; 1 spec., Sihlea (VN), 23.VI.1987, C.P.; 2 specs, Maliuc, Danube Delta (TL), 25.VI.1991, Ad.R.; 1 spec., Cândeşti-Focşani (VN), 1.VIII.1994, Ad.R.; 1 spec., The hayfields of Cluj (Fănaţele Clujului) (CJ), 21.IV.1995, Ad.R.; Repedea f.c. (MM), 22.V – 26.VI.1997, R.S., C.P., I.M. (4 specs); 1 spec., Elma clearing, Repedea (MM), 27.VI.1997, C.P.; 1 spec., Turkey, Zorkun Yaylası (Osmaniye), 1800 m a.s.l., 5.V.1998, M.S.P.; 2 specs, Pleşca f.c., Ocna Şugatag (MM), 17.VII.1998, A.P.; 1 spec., Poiana Lindini, Nera Gorges (CS), 15.V.2002, M.S.; Coșneaua f.c., Poienile de sub Munte (MM), 16.VI.2003, C.P. (12 specs), R.S. (46 specs); 1 spec., Bentul Mic Cotoi Lake, Bordoșani (IL), 22.VIII.2006, C.B. (Fig. 11).
Host plants: Asteraceae: Inula britannica, I. dysenterica, I. helenium, I. salicina, Carpesium abrotanoides, C. glossophyllum, Pulicaria prostrata (Borowiec, 2013).

Cassida nebulosa Linnaeus, 1758

Material: 5 specs, Banat, 4.IV.1884–26.III.1885, without other data; 2 specs, Transylvania, without other data, coll. D.K.; 2 specs, București, without other data, coll. R.C.; 3 specs, Bârlad Valley (VS), without other data, coll. A.L.M.; 1 spec., Tuzla (CT), without other data, coll. A.L.M.; 1 spec., Ardeluța, Târgu (NT), 24.V.1949, coll. I.C.; 1 spec., Ilișești (SV), 20.V.1950, coll. I.C.; 1 spec., Jegălia (CL), 4.IV.1957, coll. I.C.; 1 spec., Comoroa Forest, Mangalia (CT), 17.VI.1962, N.S.; 1 spec., Valley of the Nera River (CS), 10.VII.1976, A.P.G.; 2 specs, Budești (CL), 25.V.1979, G.A.; 1 spec., Plenița Forest, Castrele Traiane (DJ), 8.X.1981, G.A.; 4 specs, Valley of the Motru River, Gura Motrului (MH), 21.VI.–19. VII.1983, C.P.; 1 spec., Drobeta-Turnu Severin (MH), 5.VI.1984, R.S.; 6 specs, Carei (SM), 14.V.1985, N.G.; 1 spec., Cărășeu (SM), 30.VII.1985, V.G.; 3 specs, Bâneasa Forest (IF), 12.IV.1988, V.B.; 1 spec., Văsilați (CL), 18.V.1988, R.S.; 1 spec., Nuci (CL), V.1988, I.M.; 1 spec., Valea Oglănicului (MH), 300 m a.s.l., 2.VII.1990, Ad.R.; 1 spec., Lupșa Valley, Motru Sec (GJ), 18.VI.1992, N.R.; 1 spec., Caraorman Forest, Danube Delta (TL), 24.VIII.1992, A.P.; 1 spec., Hagieni Forest (CT), 10.VII.1992, C.P.; 1 spec., Negureni Forest (CT), 22.VII.1992, M.A.; Canaraua Fetii (CT), 19–20.V.1993, C.H. (9 specs), 23.VII.1993, G.A. (3 specs), 20.V.1994, G.A. (3 specs); 8 specs, Trăisteni (PH), 22–28.VI.1994, C.P., A.P.; 2 specs, Cârțașoara, Vama Cucului (SB), 2.VIII.1994, C.P.; 3 specs, Călușăreni (GR), 4.V.1996, C.P.; 2 specs, Sinaia, Cumpătă (PH), 27.V.1994, coll. I.C.; 1 spec., “Sfânta Ana” hermitage, Sinaia (PH), VI.1994, coll. I.C.; 1 spec., Pârâul Rece (BV), 9.VII.2004, V.U.

Host plants: Amaranthaceae: Amaranthus ascendens, A. angostanus, A. retroflexus; Chenopodiaceae: Atriplex hastata, A. nitens, A. patula, A. hastatum, A. subcordata, Beta vulgaris var. altissima, B. vulgaris var. flavescens, Chenopodium

Fig. 7 – Cassida flaveola (Photo I. Ș. Iorgu). Scale bar: 1 mm.
Fig. 8 – Cassida hemispherica (Photo I. Ș. Iorgu). Scale bar: 1 mm.
album, *C. album* var. *centrorubrum*, *C. rubrum*, *C. glaucum*, *C. bonus henricus*, *C. urbicum*, *C. polyspermum*, *C. vulvaria* (Borowiec, 2013).

*Cassida nobilis* Linnaeus, 1758

*Material*: 1 spec., Herculane Baths (Băile Herculane) (CS), 10. VI.1951, N.S.; București, 20. IV.1955 (1 spec.), 8. V.1983, C.C. (1 spec.), 10. IV.1994, C.H. (1 spec.); 1 spec., Lacul Sârat (BR), 28. V.1955, N.S.; 1 spec., Periprava (TL), 26. VII.1957, I.S.; 2 specs, Șcheia Forest (SV), 11. V.1959, I.N.; 1 spec., Prundu (GR), 2. IX.1976, M.A.; 1 spec., Pasărea Forest, Brânești (IF), 2. V.1986, I.M.; 1 spec., Pasărea Lake (IF), 2. V.2006, C.P.; 1 spec., Caracal (OT), without other data.

*Host plants*: Asteraceae: *Matricaria perforata*; Chenopodiaceae: *Beta vulgaris*, *Chenopodium album*, *C. rubrum*; Caryophyllaceae: *Silene vulgaris*, *Spergula arvensis*, *Stellaria media* (Borowiec, 2013).

*Cassida pannonica* Suffrian, 1844

*Material*: 1 spec., Brașov Mts (Kronstädt Gerbirge), without other data, coll. Fr.D.; 1 spec., Hagieni Forest (CT), 23. VII.1964, M.W. (Fig. 12).

*Host plants*: Asteraceae: *Centaurea jacea*, *C. paniculata*, *Cynara scolymus*, *Erodium sp.*, *Jurinea laxa* (Borowiec, 2013).

*Cassida panzeri* Weise, 1907

*Material*: 1 spec., Pitești (AG), 3. VI.1960, N.S.; 1 spec., Letea Forest (TL), 9. V.1963, I.S.; 1 spec., Zboina, Vrancei Mts (VN), 10. VI.1971, A.G. (Fig. 13).

*Host plants*: Asteraceae: *Arctium lappa*, *Cirsium vulgare*, *C. arvense*, *Scorzoner a humilis*, *Taraxacum officinale*, *Tragopogon pratensis* (Borowiec, 2013).
Catalogue of Cassidinae (Coleoptera: Chrysomelidae) from “Grigore Antipa” Museum

**Cassida prasina** Illiger, 1798

**Material:** 1 spec., Postăvaru Mt. (Schuler Gebirge), Brașov (BV), without other data, coll. Fr.D.; 1 spec., Cernica Forest, București, 28.V.1955, I.D.; Comana (GR), 30.V.1962, I.S. (1 spec.), 12.VII.1963, Șt.N. (1 spec.); 1 spec., Agigea (CT), 27.V.1963, X.S.P.; 1 spec., Herculane (CS), 24.–27.V.1965, A.P.G.; Pasarea Forest, Brănești (IF), 16.VI.1966, A.R. (2 specs), 3.VI.2001, C.P. (1 spec.); 3 specs, Șeselnita (MH), 17.VI.1970, A.R.; 1 spec., Nucet (DB), 15.VI.1970, I.A.; 1 spec., Perchiu (BC), 12.VI.1971; Cocoș Monastery (TL), 9.V.1973, A.P.G. (1 spec.), 10.VI.1973, A.C. (1 spec.); 3 specs, Hinova (MH), 7.VI.1984, R.S.; 1 spec., Câlinești Oaș (SM), 21.V.1987, R.S.; 1 spec., Tuzla (CT), 1.VIII.1992, A.S.; 1 spec., Dumbrăveni Forest (CT), 18.V.1994, C.H.; 1 spec., 2 specs, Florești (GR), 11.VI.1995, C.P.; Celic Dere Monastery (TL), 20.V.1997, C.P., C.H. (13 specs), 27.V.1997, R.S. (1 spec.); 1 spec., Valea Fagilor (TL), 23.V.1997, C.H.; 1 spec., Izvoarele (TL), 21.V.1997, C.P.; 1 spec., Ciucurova Forest (TL), 22.VI.1997, C.H.; 10 specs, Valley of Frumușeaua River, 7 km upstream Crasna Vișeului (MM), 25.VI.1997, A.S.; 2 specs, Bistrița (MM), 25.VI.1997, A.S.; 1 spec., Elma clearing, Repedea (MM), 29.VI.1997, A.S.; 2 specs, Izvorul Dulce, Beceni (BZ), 9.VI.2002, V.U.; 1 spec., Cerna, șăcine Mountains National Park (TL), 26.V.2005, D.R.; 3 specs, Suluc Valley, Măcin Mountains National Park (TL), 27.V.2005, I.M.; 1 spec., Ogarca Forest, Vlașin (GR), 22.VI.2006, R.S.; 2 specs, Măcin (TL), 10.V.2011, I.Şt.I.; 5 specs, Bârnova Forest (IS), 26.V.2011, I.Şt.I. (Fig. 14).

**Host plants:** *Achillea millefolium*, *A. ptarmica*, *Matricaria indora*, *Tanacetum vulgare* (Borowiec, 2013).

**Cassida rubiginosa rubiginosa** O. F. Müller, 1776

**Material:** 1 spec., Transylvania, without other data, coll. D.K.; 1 spec., Hațeg (Hatzeg) (HD), without other data, coll. D.K.; 2 specs, București, without other data, coll. R.C.; 2 specs, Tuzla (CT), without other data, coll. A.L.M.; 1 spec., Herculane Baths (Băile Herculane) (CS), 10.VI.1951, N.S.; Câmpulung Moldovenesc (SV), 20.VI.1951, coll. I.C. (3 specs), 4.VI.1952, coll. I.C. (1 spec.); 2 specs, Pitești (AG), 20.IV.1954, N.S.; Budești (CL), 30.V.1954, X.S.P. (3 specs), 25.V.1979, M.W. (1 spec.), Fig. 11 – *Cassida murraea murraea* (Photo I. Ş. Iorgu). Scale bar: 1 mm. Fig. 12 – *Cassida pannonica* (Photo I. Ş. Iorgu). Scale bar: 1 mm.
5–6.VI.1979, M.W., I.D. (5 specs); Căldăruşani (IF), 17.X.1954, X.S.P. (1 spec.), 10.VI.1978, R.S. (1 spec.); Comana Forest (GR), 8.V.1955, N.S. (2 specs), 30.V.1974, A.P.G. (1 spec.), 31.V.1977, G.A. (2 specs), 11.IX.1979, G.A. (1 spec.), 4.VI.1980, C.P. (1 spec.), 19.V.2009, R.S. (2 specs); 1 spec., Şimleu Silvaniei (SJ), 12.VIII.1957, X.S.P.; Mogoşoaia Forest (IF), 9.V.1959, V.I.R. (1 spec.), 15.VI.1962, A.R. (1 spec.); Pasărea Forest (IF), 24.V.1962, I.D. (1 spec.), 20.VI.1978, R.S. (1 spec.), 2.V.2006, C.P. (2 specs); 4 specs, Tulcea (TL), 22.VI.1963, X.S.P.; 1 spec., Periprava, Danube Delta (TL), 2.VII.1963, X.S.P.; 1 spec., Chilia Veche (TL), 7.V.1964, I.S.; 1 spec., Agigea (CT), 12.VI.1964, N.S.; 1 spec., Borsoc (HD), 11.VI.1967, V.I.R.; 2 specs, Valea Lungă, Câmpina (PH), 27.VII.1967, A.R.; 1 spec., Poiana Stâni, Sinaia (PH), 14.VIII.1967, A.R.; 2 specs, Orşova (CS), 18.VI.1970, A.R.; 1 spec., Ogradena (MH), 21.VI.1970, X.S.P.; 1 spec., Bașa (NT), 17.V.1971; 1 spec, Bârlad (VS), 13.V.1973, A.R.; 1 spec., Cocoş Monastery (TL), 16.V.1975, A.C.; 7 specs, Lunca (TR), 31.V.1977, M.A.; 1 spec., Bălăria Forest (GR), 20.VI.1978, R.S.; Zâvestreni Forest (TR), 20.VI.1978, R.S. (2 specs), 3.V.1980, R.S. (2 specs); 1 spec., Râioasa Forest, Chitila (IF), 8.V.1979, G.A.; 4 specs, Căscioară Forest, Dealu (IF), 7–8.VI.1979, R.S., G.A.; 1 spec., Valley of Argeş River, Buda Cornetu (IF), 2.VIII.1979, M.W.; 1 spec., Bălțata Forest, Miroși (AG), 15.IV.1980, D.D.; 14 specs, Nanov Forest (TR), 13–14.VI.1980, I.M., R.S., I.D.; 2 specs, Palanca Forest, Nicolae Titulescu (OT), 24.VI.1980, R.S.; 1 spec., Bistriţaj (DJ), 24.VI.1981, R.S.; 1 spec., Săbăreni (GR), 7.IV.1982; 2 specs, Muşa Forest, Drobeta-Turnu Severin (MH), 5.VI.1984, I.M.; 1 spec., Livada (SM), 12.VI.1985, R.S.; 1 spec., Halmeu Vii (SM), 13.VI.1985, R.S.; 2 specs, Căuș (SM), 29.VI.1985, M.A.; 1 spec., Moftin (SM), 1.VII.1985, G.A.; 1 spec., Sâmbăta de Sus (SB), 4.VII.1985, N.G.; 1 spec., Câmpărzana (SM), 19.V.1987, C.P.; 3 specs, Dridu (IL), 11.VI.1987, R.S., C.P.; 1 spec., Gălbinași (CL), 11.V.1988, R.S.; 1 spec., Canaraua Fetiții (CT), 19.V.1993, M.B.; 2 specs, Trâisteni (PH), 23.VI.1994, C.P.; 1 spec., Strâmtura (MM), 3.VII.1995, C.P.; 2 specs, Revârsarea (TL), 23.VI.1997, C.P.; 4 specs, Repedea f.c. (MM), 22–26.VI.1997, R.S., C.P.; 2 specs, Crasna Vișeului (MM), 25.VI.1997, R.S.; 2 specs, Galeș (AG),

---

Fig. 13 – *Cassida panzeri* (Photo I. Ş. Iorgu). Scale bar: 1 mm.

Fig. 14 – *Cassida prasina* (Photo I. Ş. Iorgu). Scale bar: 1 mm.
21.VII.2001, C.P.; 2 specs, Valley of Bârsa Mare River, “Piatra Craiului” National Park (BV), 4.VII.2000–2.VII.2002, A.S., C.P.; 1 spec., the confluence of the Rica and Budescu rivers, Poienile de sub Munte (MM), 14.VI.2003, C.P.; 1 spec., Valea Fagilor (TL), 24.V.2005, R.S.; 1 spec., Șaua Sehleanu, the Maramureș Mountains National Park (MM), 13.VI.2007, C.P.; 1 spec., Sărata (SB), 4.V.2007, C.B.; 3 specs, Bârnova Forest (IS), 26.V.2011, I.Șt.I.

Host plants: Asteraceae: *Arctium lappa*, *Artemisia maritima, Carduus acanthoides, C. argemone ssp. obtusisquamosus, C. crispus, C. nutans, Centaurea jacea, C. pectinata, Cirsium acaule, C. arvense, C. chrysacanthum, C. eryophorum, C. incanum, C. lanceolatum, C. palustre, C. oleraceum, C. rivulare, C. ucrainicus, C. vulgare, Cynara cardunculus, C. scolymsus, Inula helenium, Onopordum sp., Pulicaria sp., Saussurea tanakae, Serratula tinctoria, Silybum marianum, Tanacetum sp. (Borowiec, 2013).

*Cassida rufoirens* Suffrian, 1844

*Material*: 1 spec., Brașov, Tâmpa (Dealul Capelei = Kapellenberg) (BV), without other data, coll. Fr.D.; 1 spec., Predeal (BV), 27.X.1964; 1 spec., Eșelnița (MH), 16.VI.1970, A.R.; 1 spec., Gherăiești, Bacău (BC), 18.VIII.1972, A.G.; 1 spec., Babadag Forest (TL), 14.VI.1973, A.G.; 2 specs, Piatra Craiului National Park, Sătic (AG), 22.VI.2005, M.S. (Fig. 15).

*Host plants*: Asteraceae: *Achillea sp.*, *Anthemis nobilis, Chamomilla recutita, Matricaria chamomilla, M. indora, M. perforata, M. tzvelevii* (Borowiec, 2013).

*Cassida sanguinolenta* O. F. Müller, 1776

*Material*: 1 spec., Sisești (MH), VI.1954; 3 specs, Greci (TL), 26.V.1961, X.S.P.; 1 spec., Herculane Baths (Băile Herculane) (CS), 14.VI.1964, A.P.G.; 1 spec., Pasărea Forest (IF), 16.VI.1966, A.R.; 1 spec., Nucet (DB), 15.VI.1970, I.A.; 1 spec., Valea Crișului Pietros, Bihor Mts. (BH), 1.VII.1976, G.A.; 1 spec., Dumbrăveni Forest (CT), 18.V.1994, C.H.; 5 specs, Valley of Frumușeaua River, 7 km upstream Crasna Vișeului, 23.V.1997, R.S.

*Host plants*: Asteraceae: *Achillea millefolium, Tanacetum vulgare* (Borowiec, 2013).

*Cassida sanguinosa* Suffrian, 1844

*Material*: 1 spec., Germany, without other data, coll. Ed.R. (Fig. 16).

*Host plants*: Asteraceae: *Achillea ptarmica, A. millefolium, Tanacetum vulgare* (Borowiec, 2013).

*Cassida seladonia* Gyllenhal, 1827

*Material*: 1 spec., Chilia Veche (TL), 7.V.1964, I.S. (Fig. 17).

*Host plants*: Asteraceae: *Artemisia arenaria, A. canpestris, Filago arvensis, F. gałlica, Helichrysum arenarium, H. corymbiformis* (Borowiec, 2013).

*Cassida stigmatica* Suffrian, 1844

*Material*: 1 spec., without collecting data; 1 spec., Chilia Veche (TL), 7.V.1964, M.W.

*Host plants*: Asteraceae: *Achillea millefolium, Artemisia nitrosa, A. arbotanum, Tanacetum vulgare* (Borowiec, 2013).
Sanda MAICAN, Rodica SERAFIM

*M Cassida subreticulata Suffrian, 1844

Material: 1 spec., Vurpăr (Burgberg), 20.V., without other data; 1 spec., Pasărea Forest, Brăneşti (IF), 16.VI.1966, R.A.; 1 spec., Eşelniţa (MH), 20.VI.1970.

Host plants: Caryophyllaceae: Dianthus squarrosus, Melandryum album, Saponaria officinalis, Silene vulgaris, S. dioica (Borowiec, 2013).

Cassida vibex Linnaeus, 1767

Material: 1 spec., Transylvania, without other data, coll. D.K.; 2 specs, Bârlad Valley (VS), without other data, coll. A.L.M.; 1 spec., Budeşti (CL), 3.V.1953, X.S.P.; 3 specs, Ilişeşti (SV), 20.V.1950, coll. I.C.; 1 spec., Esechioi (CT), 19.V.1958, N.S.; 1 spec., Pasărea Forest (IF), 27.V.1958, N.S.; 1 spec., Călăraşi (IF), 15.VII.1959, I.S.; 1 spec., Periprava, Danube Delta (TL), 11.VII.1960, M.W.; 1 spec., Plesiva, Anina Mts (CS), 24.VI.1962, coll. I.C.; 1 spec., Câmpulung Moldovenesc, Cocou (SV), 20.VII.1962; 1 spec., Tulnici (VN), 22.VII.1962, A.R.; 1 spec., Agigea (CT), 27.V.1963, X.S.P.; 2 specs, Chilia Veche, Danube Delta (TL), 7.V.1964, I.S.; 1 spec., Roşu Mt., Ciucăş Mts. (PH), 7.VII.1966, M.C.; 1 spec., Duruitoarea waterfall, Ceahlău Massif (NT), 9.VIII.1966, M.V.; 1 spec., Dealul Măurului Forest, Roman (NT), 13.VI.1967; 1 spec., Caraorman Forest, Danube Delta (TL), 21.X.1969, M.W.; 1 spec., Eşelniţa (MH), 17.VI.1970, A.R.; 1 spec., Orşova (MH), 18.VI.1970, A.R.; 2 specs, Nanov Forest (TR), 14.VI.1980, I.M.; 1 spec., Strehai (MH), 11.V.1982, G.A.; 1 spec., Livada (SM), 12.VI.1985, I.M.; 1 spec., Valley of the Bulba River, Baia de Aramă (MH), 17.VI.1982, R.S.; 1 spec., Lupşa Valley, Motru Sec (GJ), 18.VI.1992, N.R.; 1 spec., Canaraua Fetiţii (CT), 19.V.1993, C.H.; 1 spec., Celie Dere Monastery (TL), 24.V.1997, R.S.; 3 specs, Smerenci clearing, 7 km towards the Repedea (MM), 22–27.VI.1997, R.S., A.Ş.; 1 spec., Repedea f.c. (MM), 29.VI.1997, D.R.; 1 spec., Vişeu de Jos (MM), 22.VIII.1997, E.R.; 1 spec., Mara (MM), 21.VII.1998, I.M.; 1 spec., Gârliştea Gorges (CS), 8.VIII.2001, C.P.; 3 specs, Coşnea f.c., Poienile de sub Munte (MM), 15–16.VI.2003, C.P.; 1 spec., Pietrişu island, Danube River at kilometer 760, 16.V.2004, C.P.;
1 spec., Belciugatele (CL), 13.VII.2005, V.U.; 1 spec., Letea Forest, Danube Delta (TL), 4.V.2012, I.Şt.I.; 2 specs, Sadu (SB), 31.V.2012, I.Şt.I.; 1 spec., Râmeteş Gorges, Trascău Mts (AB), 2.VI.2012, I.Şt.I.; 10 specs, Floristic Reserve “The Secular Hayfields from Valea lui David”, Iaşi (IS), 10–18.V.2012, I.Şt.I.; 1 spec., Lepşa (VN), 30.V.2015, A.L.; 2 specs, Valea Strâmbă, Lepşa (VN), 31.V.2015, A.L.

Host plants: Asteraceae: Arctium lappa, A. minus, A. nemorosum, Carduus acanthoides, Cirsium arvense, C. oleraceum, C. palustre, C. rivulare, C. lanceolatum, Centaurea carpathica, C. scabiosa, Tanacetum vulgare (Borowiec, 2013).

Cassida viridis Linnaeus, 1758

Material: 1 spec., Gorj County, without other data, coll. R.C.; 2 specs, Vâlcea County, without other data, coll. R.C.; 3 specs, Carpathian Mountains (Moldavia), without other data, coll. A.L.M.; Herculane Baths (Bâile Herculane) (CS), 1950, coll. E.V. (1 spec.), 15.V.1952, N.S. (1 spec.), 20.V.1964, N.S. (1 spec.), 23.VII.1965, N.S. (1 spec.), 4.VIII.1968, V.B. (4 specs), 28.V.1974, coll. I.C. (1 spec.); 3 specs, Cernica Forest (IF), V.1945, coll. I.C.; 1 spec., Câmpulung Moldovenesc, Deia (SV), 27.V.1951, coll. I.C.; 1 spec., Gura Humorului (SV), 15.X.1951, coll. I.C.; 1 spec., Bârnoa Forest (IS), 2.VI.1953, N.S.; 1 spec., Chitila (Bucureşti), 19.V.1953, X.S.P.; 1 spec., Zăganu Mt., Ciucăş Mts, VII.1953, coll. I.C.; 1 spec., Şandru, Câmpulung Moldovenesc (SV), 23.VI.1953, coll. I.C.; 1 spec., Bâneasa Forest (IF), 24.V.1954, A.R.; 1 spec., Siseşti (MH), VI.1954; 1 spec., Mogoşoaia Forest (IF), 9.V.1956; 1 spec., Tigăneşti (Ciolpani) (IF), 10.VIII.1956, X.S.P.; Comana Forest (GR), 31.V.1956 (2 specs), 18.V.1959, I.S. (5 specs), 23.VI.1976 (3 specs), 9.VIII.1979, R.S. (2 specs), 3.VI.1998, M.S.P (1 spec.), 4.V.–7.VI.2006, R.S. (6 specs); 9 specs, Căldăruşani (IF), 31.V.1957, X.S.P.; 2 specs, Timiş de Sus (BV), 21.VI.–4.VII.1957, coll. I.C.; 6 specs, Sinaia (PH), 13.V.1958, coll. I.C.; 1 spec., Negrişoara (SV), 13.V.1958, coll. I.C.; 1 spec., Baraolt (CV), 1.VIII.1958, coll. I.C.; 4 specs, Omu rivulet, Broşteni (SV), 30.V.1958, coll. I.C.; 3 specs, Timişoara, Green Forest (Pâdurea Verde) (TM), 10.V.1960, coll. I.C.; 1 spec., Voinesti (DB), 18.VI.1961, A.R.; 1 spec., Oradea (BH), 30.V.1962, coll. I.C.; 1 spec., Bucureşti, 12.VII.1963, A.R.; 2 specs, Baia Mare (MM), 7.VI.1963, A.R.; 9 specs, Chilia Veche, Danube Delta (TL), 7.VI.1964, I.S.; 1 spec., Vaideeni (VL), 10.VI.1964, Io.C.; 6 specs, Şarângă clearing, Sinaia (PH), 28.V.1964, Şt.N.; 1 spec., Caraorman Forest, Danube Delta (TL), 5.V.1968, A.P.G.; 1 spec., Domogled Mt. (CS), 2.VI.1965, A.P.G.; 1 spec., Hagieni Forest (CT), 7.VI.1965, Şt.N.; 1 spec., Borsec (HR), 14.VI.1966, X.S.P.; 5 specs, Periprava, Danube Delta (TL), 17.VI.–14.X.1966, X.S.P.; 1 spec., Nanov (TR), 2.X.1966, X.S.P.; 1 spec., Suzana Monastery, Mâncicu (PH), 29.VII.1967, X.S.P.; 1 spec., Caraorman Forest, Danube Delta (TL), 21.IX.1967, M.W. (1 spec.), 5.VI.1968, A.P.G. (1 spec.), 29.VIII.1969, M.W. (1 spec.); Putna Valley (SV), 13.V.–17.VI.1971, coll. I.C. (3 specs), 17.VIII.1977, coll. I.C. (1 spec.), 17. V.1982, coll. I.C. (1 spec.), 23.VIII.1983, coll. I.C. (2 specs), 22.V.1984, coll. I.C. (1 spec.); 1 spec., Bâlătău Lake, Nemira Mts (BC), 10.V.1971; 2 specs, Slănic Moldova (BC), 7.V.–10.VI.1971, M.I.; 2 specs, Sfântu Gheorghe, Danube Delta (TL), 9.VIII.1972, A.P.G.; 1 spec., Gâdiuţi (NT), 20.VII.1972; 1 spec., Băsta (NT), 23.V.1973; 2 specs, Pasarea Forest (IF), 30.VI.1978, G.A.; 1 spec., Drăganieşti Vlašca (TR), 20.VI.1979, M.W.; 1 spec., Căldăraru Forest (TR), 27.IX.1979, R.S.; 1 spec., Purani (TR), 27.IX.1979, G.A.; 1 spec., Gura Motrului (MH), 29.VI.1981, I.M.; 1 spec., Cobia Forest (DJ), 19.VI.1981, C.P.; 1 spec., Poiana Mare (DJ), 6.VIII.1982, C.P.; 1 spec., Perișor (DJ), 24.IX.1982, G.A.; 2 specs, Vânju Mare (MH), 15.VII.1983, I.M.; 1 spec., Hinova (MH), 7.VI.1984, I.M.; 1 spec., Cărășeu (SM), 30.VII.1985, V.G.; Poiana Neamțului (SB), 19–20.VII.1985, I.M., R.S. (6 specs),
14–15.V.1986, I.M., I.D. (14 specs); 5 specs, Turnu Roşu (SB), 13.V.1986, I.M.; 2 specs, Călineşti Oaş (SM), 21.V.1987, R.S.; 2 specs, Vatra Dornei (SV), 30.V.1989, V.B.; 1 spec., Valea Drăganului (CJ), 8.VIII.1989, R.S.; 2 specs, Giuleşti Sârbi (IF), 8.VII.1991; 2 specs, Cloşani (GJ), 16.VI.1992, C.P.; 1 spec., Dolosman Cape, Razim (Razelm) Lake (TL), 11.V.1992, N.G.; Hagieni Forest (CT), 22.V.1993, C.P. (1 spec.), 18.VII.1997, C.P. (2 specs); 1 spec., Aleşd, Plopiş Mts (BH), 24.IV.1994, A.S.; 2 specs, Trâişteni (PH), 22–28.VI.1994, A.P.; 1 spec., Vama Cucului, Făgăraş Mts, 1.VIII.1994, C.H.; 1 spec., Strâmtura (MM), 3.VII.1995, C.P.; 2 specs, Călugăreni (GR), 4.V.1996, C.P.; 2 specs, Smereceni clearing, 7 km towards the Repedea (MM), 22.VI.1997, R.S., A.S.; 5 specs, Repedea f.c. (MM), 22.VI.–2.VII.1997, R.S., A.S., I.M.; 7 specs, Elma clearing, Repedea (MM), 24–29.VI.1997, R.S., A.S., C. P.; 1 spec., Valea Teilor (TL), 22.V.1997, C.P.; 1 spec., Revărsarea (TL), 23.V.1997, C.P.; 9 specs, Valley of Frumuşea River, 7 km upstream Crasna Vişeuului, 23.V.1997, C.P., R.S.; 1 spec., Buzău (BZ), 17.V.2000, V.U.; 1 spec., Bârsa Groşetului, 4 km upstream Plaui Foi, Piatra Craiului National Park (BV), 9.VI.2000, C.P.; Valley of Bârsa River, Piatra Craiului National Park (BV), 4.VII.2000, L.O.P. (2 specs), 24.V.2004, R.S. (2 specs); 1 spec., Piscicul cu Brazi, Piatra Craiului National Park (BV), 5.VII.2000, L.O.P.; 1 spec., Bârsa Fierului Valley, Piatra Craiului National Park, 24.V.2004, C.B.; 3 specs, the confluence of the Rica and Budescu rivers, Poienile de sub Munte (MM), 14.VI.2003, C.P.; 2 specs, 17 km far from Reşiţa, towards Vâliug (CS), 10.VIII.2001, A.S.; 1 spec., Valley of Budescu Mare River, Poienile de sub Munte (MM), 14.VI.2003, M.S.; 1 spec., Coşnea f.c., Poienile de sub Munte (MM), 16.VI.2003, C.P.; 2 specs Valley of the Pop Ivan River, 11 km upstream Crasna Vişeuului (MM), 17.VI.2003, R.S., D.Ş.; 1 spec., Crasna Vişeuului (MM), 17.VI.2003, M.S.; 2 specs, Repedea f.c. Repedea (MM), 18.VI.2003, R.S., C.P.; Făina, Vaser Valley Forestry Railway (MM), 19.VI.2003, R.S., C.P. (2 specs), 21.VII.2004, C.P. (1 spec.); 3 specs, Baicu f.c., Ţibleş Mts, Dragomireşti (MM), 22.VI.2003, R.S.; 1 spec., Pâlcuţ rivulet, Dragomireşti (MM), 22.VI.2003, C.P.; 3 specs, Ţibleş Mts, Dragomireşti, Lunca lui Cosiţă (MM), 22.06.2003, R.S.; 3 specs, Zârneşti Gorges, Piatra Craiului National Park (BV), 22.V.2004, C.B., C.P.; 1 spec., Piatra Craiului National Park, Şâtic, Oceoaia Valley (AG), 23.V.2004, S.R.; 1 spec., Făgăraş Mts, Otic Valley, 4.VIII2004, R.S.; 2 specs, Piatra Craiului National Park, Brusturet chalet, Valea Seacă (AG), 21.VI.2005, C.B.; 1 spec., Piatra Craiului National Park, Şâtic (AG), 22.06.2005, M.S.; 1 spec., Piatra Craiului National Park, Valea cu Apă, 23.VI.2005, E.I.; 4 specs, Preluca (MM), 12.VI.2007, C.P.; 1 spec., Letea Forest, Danube Delta (TL), 22.IX.2010, I.Şt.I.; 1 spec., Rodina (CS), 20.VII.2011, I.Şt.1.; 2 specs, Jidoaia (VL), 21.V.2014, E.I.; 1 spec., Lepşa (VN), 30.V.2015, A.M.K.

**Host plants:** Lamiaeaceae: Galeopsis grandiflora, G. speciosa, G. tetrahita, G. pubescens, Isodon kameba, Lycopus europaeus, Melissa officinalis, Mentha aquatica, M. arvensis, M. longifolia, M. rotundifolia, M. suaveolens, M. verticillata, Nepeta cataria, Salvia glutinosa, S. officinalis, S. pratensis, S. palustris, S. recta, S. silvatica (Borowiec, 2013).

Cassida vittata Villers, 1789

**Material:** 1 spec., whitout collecting data, coll. I.C.

In Romania, this species was recorded from Rodnei Mts (Petri, 1912); Sibiu and Reghin (Kuthy, 1897); Bucharest (Serafim & Maican, 2008).

**Host plants:** Asteraceae: Anthemis arvensis, Matricaria perforata; Chenopodiaceae: Atriplex halimus, A. prostrata, Chenopodium album, A. rubrum,
Salicornia sp., Salsola sp., Spinacia oleracea; Urticaceae: Urtica dioica; Caryophyllaceae: Arenaria maritima, Spergula arvensis, Spergularia salina (Borowiec, 2013).

_Pilemostoma_ Desbrochers Des Loges, 1891

*Pilemostoma fastuosum* (Schaller, 1783)

Material: 1 spec., Transylvania, without other data, coll. D.K.; 1 spec., Greci (TL), 22.VI.1963, I.S.; 1 spec., Letea Forest, Danube Delta (TL), 12.V.1964, X.S.P.; 1 spec., Herculane Baths (Băile Herculane) (CS), 19.V.1964, A.P.G.; 2 specs, Gâdinți (NT), 23.V.1965; 1 spec., Caraorman Forest, Danube Delta (TL), 5.V.1968, A.P.G.; 1 spec., Bașta (NT), 23.V.1973; 3 specs, Floristic Reserve “The Secular Hayfields from Valea lui David”, Iași (IS), 9–10.VI.1984, I.D., A.P.G. (Fig. 18).

Host plants: Asteraceae: _Inula_ sp., _Pulicaria dysenterica, P. vulgaris, Senecio jacobaea_ (Borowiec, 2013).

Tribe Hispini Gyllenhal, 1813

_Dicladispa_ Gestro, 1897

_Dicladispa testacea_ (Linnaeus, 1767)

Material: 1 spec., Turkey, Kahmaranmaraş Province, Kahmaranmaraş, 570 m a.s.l., 1.VI.2008, C.P. (“Euphrates” Expedition).

Host plants: Cistaceae: _Cistus_ sp., _Halimium_ sp., _Helianthemum_ sp.; Anacardiaceae: _Pistacia lentiscus_ (Biondi et al., 1995; Świętojańska et al., 2014).

_Hispa_ Linnaeus, 1767

_Hispa atra_ Linnaeus, 1767

Material: 1 spec., without collecting data, coll. I.C.; 1 spec., Mireșu Mare (Nagynyires) (MM), without other data, coll. E.V.; 3 specs, Cetăţuia, Danube River at kilometer 516 (GR), 26.IV.2004, M.S.; 1 spec., Bucureşti, Cişmigiu Park, IX.2007, S.St.

Host plants: Poaceae: _Poa_ sp., _Agropyron_ sp. (Mohr, 1966).

---

Fig. 17 – _Cassida seladonia_ (Photo I. Ş. Iorgu). Scale bar: 1 mm.

Fig. 18 – _Pilemostoma fastuosum_ (Photo I. Ş. Iorgu). Scale bar: 1 mm.
The new Chrysomelidae collection of the “Grigore Antipa” National Museum of Natural History preserves 31 species of Cassidinae belonging to genera *Cassida* (28 species), *Pilemostoma*, *Hispa* and *Dicladispa* (each with one species), representing over 90% of the total number of species recorded in the Romanian fauna. Out of them, 11 species recently entered in the Museum collections.

A number of 20 species are also found in the Collection of Palaearctic Coleoptera, represented mainly by the material collected by Eduard Fleck and Arnold Lucien Montandon. The Eduard Fleck collection (acquired by the museum in 1914) includes one specimen of *Ischyronota desertorum* Gebler, labeled “Azuga”, without other collecting data. Unfortunately, in the collection many labels are printed with “Azuga”, however this does not mean that the specimens were collected from this locality.

Common species of Romania (e.g., *Cassida murraea* Linnaeus, *C. rubiginosa* Müller, *C. vibex* Linnaeus, *C. viridis* Linnaeus, *C. nebulosa* Linnaeus) are represented in the collection through a great number of specimens.

Some rare species in the Romanian fauna are newly entered in the collections of “Grigore Antipa” Museum, such as: *Cassida atrata* Fabricius, *C. azurea* Fabricius, *C. berolinensis* Suffrian, *C. margaritacea* Schaller, *C. pannonica* Suffrian, *C. seladonia* Gyllenhal, *C. subreticulata* Suffrian.

Most of the material was collected from Romania. The collection also includes some specimens from Slovenia (of the species *Cassida aurora* Weise), Czechia (*Cassida denticollis* Suffrian and *C. ferruginea* Goeze), Germany (*C. sanguinosa* Suffrian), Tunisia (*Cassida deflorata* Suffrian) and Turkey (*Cassida murraea* Linnaeus and *Dicladispa testacea* Linnaeus).

*Cassida deflorata* Suffrian, represented in the collection by one specimen from Tunisia, is a Mediterranean species, distributed in north-western Africa, Iberian Peninsula, Sardinia, Sicily and Italy (Warchałowski, 2010). Fleck (1905), most probably erroneously, mentioned it from Romania (Bucharest and Băneasa). The records of this species in Romanian fauna is questionable.

*Dicladispa testacea* Linnaeus, a species distributed in the Mediterranean area, is represented in the collection by the material collected from Turkey, in the “Euphrates” Expedition.

ACKNOWLEDGMENTS

The authors express sincere thanks to Dr. Melanya Stan (“Grigore Antipa” National Museum of Natural History, Bucharest) for granting access to the collections, and to Dr. Ottó Merkl (Hungarian Natural History Museum, Budapest) for his constructive comments on the manuscript. Many thanks to Dr. Ionuț Ștefan Iorgu and Dr. Tiberiu Sahlean for photographies, and also to Rada Tiță, Marinela Năzăreanu, Marcela Bugnar, Mariana Foaltin and Dana Ciopec for their help in preparation and labeling of the specimens and the proper conservation of collections. A part of this study was funded by project no. RO1567-IBB01/2017 from the Institute of Biology Bucharest of Romanian Academy.

REFERENCES

BIONDI, M., R. REGALIN, M. DACCORDI, R. POGGI (1995) I Crisomelidi (esclusi Alticini) delle Isole Circumsarde. Annali del Museo Civico di Storia Naturale “G. Doria”, 90: 629–651. (in Italian)

BOROWIEC, L. (1999) A world catalogue of the Cassidinae (Coleoptera: Chrysomelidae). Biologica Silesiae. Wroclaw, 476 pp.

BOROWIEC, L. (2013) Website resource of the Department of Biodiversity and Evolutionary Taxonomy, University of Wroclaw. Available at: http://culex.biol.uni.wroc.pl/cassidae/European%20Chrysomelidae/index.htm. Downloaded on 5 August 2017.
BOROWIEC, L., L. SEKERKA (2010) Subfamily Cassidinae Gyllenhal, 1813. Pp. 368–389. In: I. Löbl, A. Smetana (eds), Catalogue of Palaeartic Coleoptera, Vol. 6, Chrysomeloidea. Apollo Books, Stenstrup, 924 pp.

BOROWIEC, L., J. ŚWIĘTOJAŃSKA (2002–2017) Cassidinae of the world - an interactive manual (Coleoptera: Chrysomelidae). Department of Biodiversity and Evolutionary Taxonomy, University of Wroclaw, Poland. Available at: http://www.biol.uni.wroc.pl/cassidae/katalog%20internetowy/index.htm Downloaded on 5 August 2017.

BOROWIEC, L., J. ŚWIĘTOJAŃSKA (2014). Cassidinae Gyllenhal, 1813. Pp. 198–217. In: R.A.B. Leschen, R.G. Beutel (eds.) Coleoptera Beetles, Vol. 3, Morphology and Systematics: Phytophaga. Walter de Gruyter GmbH & Co KG, Göttingen, 675 pp.

CHABO, C.S. (2007). Biology and phylogeny of the Cassidinae Gyllenhal sensu lato (tortoise and leaf-mining beetles) (Coleoptera: Chrysomelidae). Bulletin of the American Museum of Natural History, 305: 1–250.

FLECK, E. (1905) Die Coleopteren Rumäniens. Bulletin de la Société des Sciences de Bucarest, 14: 695–729. (in German)

HOINIC, C. (1994) A review of the species of Macrolea Samouelle (Coleoptera: Chrysomelidae) in Romania. Travaux du Muséum d’Histoire Naturelle “Grigore Antipa”, 34: 17–30.

KUTHY, D. (1897) Ordo Coleoptera. In: A Magyar Birodalom Állatvilága (Fauna Regni Hungariae). III. Arthropoda. (Insecta. Coleoptera.), Királyi Magyar Természettudományi Társulat, Budapest, 213 pp. (in Hungarian and Latin).

MAICAN, S. (2005) Checklist of Chrysomelidae (Coleoptera) of Romania. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 48: 119–136.

MAICAN, S. (2006) Clytrins (Coleoptera: Chrysomelidae: Clytrinae) from the collections of the “Grigore Antipa” National Museum of Natural History (Bucharest). Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 49: 239–257.

MAICAN, S. (2007a) Some mediterranean Chrysomelids species (Coleoptera: Chrysomelidae) newly entered in the collections of “Grigore Antipa” National Museum of Natural History [Results of expeditions from Turkey and Tunisia, 2005–2006]. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 50: 421–429.

MAICAN, S. (2007b) Contributions to the knowledge of the leaf beetle fauna (Coleoptera: Chrysomelidae) from Maramureș (northern Romania). Entomologica Romanaica, 12: 301–324.

MAICAN, S., R. SERAFIM (2001) Chrysomelidae (Coleoptera) from Maramureș. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 43: 199–233.

MAICAN, S., R. SERAFIM (2004) Leaf-beetles (Coleoptera: Chrysomelidae) from Maramureș (Romania). Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 46: 139–159.

MAICAN, S., R. SERAFIM (2009) Data about Cerambycidae and Chrysomelidae (Coleoptera: Chrysomeloidea) collected from mediterranean expeditions [Results of expeditions from Turkey and Tunisia, 2005–2006]. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 52: 415–428.

MAICAN, S., R. SERAFIM (2012) Overview on the Chrysomeloidea superfamily (Coleoptera: Cerambycidae, Orsodacnidae, Chrysomelidae) in Dobrogea (Romania). Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 55 (1): 65–123.

MAICAN, S., R. SERAFIM (2016) The catalogue of Donaciinae and Criocerinae species (Coleoptera: Chrysomelidae) from the new leaf beetle collection from “Grigore Antipa” National Museum of Natural History (Bucharest) (Part I). Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 59 (2): 179–194.

MOHR, K.-H. (1966) Familie Chrysomelidae. Pp. 95–280. In: H. Freude, K. W. Harde, G. A. Lohse (eds.), Die Käfer Mitteleuropas, Band 9, Cerambycididae, Chrysomelidae. Goecke & Evers Verlag, Krefeld, 299 pp.

NEGRU, Ş.T. (1968) Ord. Coleoptera (pars). In: H. Freude, K. W. Harde, G. A. Lohse (eds.), Die Käfer Mitteleuropas, Band 9, Cerambycididae, Chrysomelidae. Goecke & Evers Verlag, Krefeld, 299 pp.

NEGRU, Ş.T. (1968) Ord. Coleoptera (pars). In: H. Freude, K. W. Harde, G. A. Lohse (eds.), Die Käfer Mitteleuropas, Band 9, Cerambycididae, Chrysomelidae. Goecke & Evers Verlag, Krefeld, 299 pp.

NEGRU, Ş.T., A. ROŞCA (1967) Ord. Coleoptera. In: L’entomofaune des forêsts du sud de la Dobroudja. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 7: 119–148. (in French)

PETRI, K. (1912) Siebenbürgens Käferfauna auf Grund ihrer Erforschung bis zum Jahre 1911. Verhandlungen und Mitteilungen des Siebenbürgischen Vereins für Naturwissenschaften zu Hermannstadt: 1–376.

SEENO, T., J. WILCOX (1982) Leaf-Beetle Genera (Coleoptera: Chrysomelidae). Entomography Publications, Sacramento, California, 221 pp.
SEKERKA, L. (2007) Detailed distribution of *Cassida sanguinosa* and *C. leucanthemi* (Coleoptera: Chrysomelidae: Cassidinae: Cassidini). Acta Entomologica Musei Nationalis Pragae, 47: 203–209.

SEKERKA, L. (2010) Icones Insectorum Europae Centrals. Coleoptera: Chrysomelidae: Cassidinae. Folia Heyrovskyana, Serie B, 13: 1–24.

SERAFIM, R., S. MAICAN (2004) Contributions to the knowledge of the Coleopterans from the littoral of the Black Sea (Romania). Travaux du Muséum National d’ Histoire Naturelle “Grigore Antipa”, 47: 169–210.

SERAFIM, R., S. MAICAN (2008) Data on Cerambycidae and Chrysomelidae (Coleoptera: Chrysomeloidea) from București and surroundings. Travaux du Muséum National d’ Histoire Naturelle “Grigore Antipa”, 51: 387–416.

SERAFIM, R., S. MAICAN (2011) Catalogue of Cerambycidae, Megalopodidae and Chrysomelidae (Coleoptera: Chrysomeloidea) recently entered in the patrimony of “Grigore Antipa” National Museum of Natural History (Bucharest). Igor Ceianu collection. Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 54 (2): 425–460.

STAINES, C.L. (2002) The New World tribes and genera of hispines (Coleoptera: Chrysomelidae: Cassidinae). Proceedings of the Entomological Society of Washington, 104 (3): 721–784.

ŚWIĘTOJAŃSKA, J., L. BOROWIEC, M. STACH (2014) Redescription of immatures and bionomy of the Palaearctic species *Dicladispa testacea* (Linnaeus, 1767) (Coleoptera: Chrysomelidae: Cassidinae: Hispini), a leaf-mining hispine beetle. Zootaxa, 3811 (1): 001–033.

UNGUREANU, V., S. MAICAN, R. SERAFIM (2008) Diversity of coleopterans: Cerambycidae, Chrysomelidae, Coccinellidae from Buzău area (Romania). Travaux du Muséum National d’Histoire Naturelle “Grigore Antipa”, 51: 171–183.

WARCHAŁOWSKI, A. (2003) Chrysomelidae. The leaf beetles of Europe and the Mediterranean area. Natura Optima dux. Foundation, Warszawa, 600 pp.

WARCHAŁOWSKI, A. (2010) The Palaearctic Chrysomelidae. Identification keys. Volumes 1 & 2. Natura Optima dux. Foundation, Warszawa, 1212 pp.