

## GENUS OREINA CHEVROLAT 1837 (COLEOPTERA, CHRYSOMELIDAE) IN ROMANIA

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### **Abstract**

*At national level, the genus Oreina is represented by 10 species, 12 subspecies and 29 chromatic varieties. Some species (6) were recorded erroneously in Romanian fauna, based on misidentification. There are presented general and national distribution and also some biological and ecological data of these species.*

**Key words:** Oreina, Chrysomelidae, Romania.

### **INTRODUCTION**

Genus Oreina belongs to Chrysomelinae subfamily, including species that live in mountains and high hills areas, on plants belonging to Umbelliferae and Compositae family.

Data regarding the species of this genus at national level were published in different papers but more complex syntheses concerning this genus in Romania have never been achieved till the present time (2012).

### **MATERIAL AND METHODS**

The species were identified after our proper collectings, the specialized literature and the collections of the Oltenia Museum. The species are published in alphabetical order and in brackets there are the author's name and the year when the species were mentioned.

The identification of species, systematic nomenclature, general distribution of leaf-beetles in the Holarctic region are based on certain papers (Kaszab, 1962; Warchalowski, 2003).

## RESULTS AND DISCUSSIONS

At natinal level were recorded the following species:

Genus *Oreina* Chevrolat 1837

*Oreina* (*Allorina*) *bidentata* Bontems, 1981

General distribution: according to Warchalowski (2003), this species lives in the Alps and Appenines mountains. According to Kaszab (1962), the species were recorded from Pyrenees, Alps, till the Carpathians mountains. His presence in romanian fauna need reconfirmation, probably were confused with *Oreina coerulea* Olivier.

Distribution in Romania: Harghita (Rozner, 1997), Săliștioara, Lunca Bradului (Szel & Rozner & Kocs, 1995), Oslea (Marcu, 1929), Cibinului Mts., Galbina, Făgăraș Mts., Brașov, Rodnei Mts., Sighișoara, Retezat Mts., Poiana Brașov (Petri, 1912), Broșteni (Montandon, 1906), the upper Arieș river basin (Crișan & Teodor, 2002).

Biological and ecological data: host plants are *Centaurea* L, *Senecio* L, and *Petasites* Mill. Mesophilic-mesohygrophilic species.

*Oreina* (*Allorina*) *coerulea* Olivier 1790

General distribution: Europe

Distribution in Romania Harghita (Rozner, 1997), Saschiz, Avrig, Lunca Bradului (Szel & Rozner & Kocs, 1995), Vlădeasa (Marcu, 1961) – typical form and ab. *gaertneri* (Weise 1894), Mărișel (Marcu, 1957) and ab. *gaertneri* Weise, Prahova (Fleck, 1905), Rimetea (Kutasi & Muskovits & Rozner, 1999), Retezat Mts., Cibin Mts., Galbena, Rodnei Mts., Sighișoara (Petri, 1912), Gutâi Mts., Vinului Valley, Ineu Mt., Saca Valley, Pietrosu Rodnei, Săpânța, Desești, Cornești (Maican & Serafim, 2001), the upper Arieș river basin (Crișan & Teodor, 2002), Săpânța, Poienile de sub Munte, Dragomirești, Săliștea (Maican & Serafim, 2004), the lower Arieș river basin (Crișan & Teodor, 2005), Gheorghieni, Rătoășnei valley (Ieniștea, 1931).

Biological and ecological data: host plants is *Centaurea jacea*, Mesophilic-xeromesophilic species, very common.

*Oreina* (*Oreina*) *alpestris* Schummel 1844

General distribution: Europe, except Scandinavia and Iberian Peninsula.

Distribution in Romania: Hanu Conachi (Tărăbuță, 1999) – subspecies *polymorpha* Kraatz, Harghita (Rozner, 1997), Giurgeului Mt. (Szel & Rozner & Kocs, 1995), Ponoare (Dănilă, 1970) - subspecies *polymorpha* Kraatz, Muntele Mare – Apuseni Mts. (Marcu 1957) and ab. *olivacea* Weise, Măgura (Marcu 1957) – subspecies *umbrosa* Weise, Prahova, Azuga, Bucovina (Fleck, 1904) and ab. *punctatissima* Suffrian, Rimetea

(Kutasi & Muskovits & Rozner, 1999) – ab. *anthrisci* Weise, Cheile Sohodol (Ilie 2002), Bucovăț (Ilie & Chimișliu, 1999), Făgăraș Mts., Poiana Brașov, Borsec, Hăghimașu Mare, Parâng Mts., (Petri, 1912) and ab. *rivularis* Weise, Hațeg, Făgăraș Mts., Brașov (Petri, 1912) – ab. *bicolor* Weise, Suru Mt., Sighișoara, Hațeg (Petri, 1912) – subspecies *punctatissima* Suffrian, Poiana Brașov (Petri, 1912) – ab. *anthrisci* Weise and ab. *Bodemeyeri* Kraatz, Bihorului Mts. – Piatra Arsă, Brașov, Rodnei Mts (Petri, 1912) – subsp. *polymorpha* Kraatz, Hațeg (Petri 1912) – subsp. *nigrina* Suffrian, Bolboci (Ieniște, 1932), Retezat Mts. (Ieniște 1936), Sinaia (Montandon, 1906), Bucegi (Hurmuzachi, 1904), Banat (Winkler, 1927-1932) – ab. *banatica* Weise, Vinului Valley, Saca Valley, Băilor Valley, Corongiș Mt., Ineu Mt., (Maican & Serafim, 2001), the upper Arieș river basin (Crișan & Teodor, 2002). Biological and ecological data: host plants are *Chaerophyllum* L., *Anthriscus silvestris* Hoffm., *Aegopodium podagraria* L. Very common species, mesophilic-mesohygrophilic species, recorded from the oak stage till the alpine zone.

#### *Oreina (Oreina) bifrons* Fabricius 1792

General distribution: Alps, Balkans, Carpathians and Sudetes.

Distribution in Romania: Bihorului Mts., Bucegi Mts. – alpine zone, Rodnei Mts., Arpașului Mts. (Petri, 1912), Gheorghieni (Ieniște, 1931) – ab. *aurata* Weise, Rodnei Mts., (Maican & Serafim, 2001). In all these places was recorded the subspecies *Oreina bifrons decora* Richter, typical of Carpathians and Sudetes.

Biological and ecological data: relatively common species, recorded in the wet and shady places along the rivulets, forest glades, from the oak stage till the fir (tree) stage. The host plants are *Aegopodium podagraria* L. and *Chaerophyllum hirsutum* L.

#### *Oreina (Oreina) liturata* Scopoli 1763

General distribution: eastern part of Alps.

Distribution in Romania: the lower Arieș river basin (Crișan & Teodor, 2005). The presence of this species in romanian fauna is questionable, needing reconfirmations.

#### *Oreina (Oreina) speciosa* Fabricius 1781

General distribution: all the mountains of Europe, south of Danube and Pyrenees.

Distribution in Romania: Sinaia (Fleck, 1904; Jaquet, 1904) – typical form and ab. *superba* Suffrian, Prahova (Jaquet, 1904) – ab. *pretiosa* Suffrian and ab. *nigrina* Weise, Giumalău (Marcu, 1936) – ab. *venusta* Suffrian, Făgăraș

Mts., (Bielz, 1887), Rodnei Mts. (Bielz, 1887) – ab. pretiosa Suffrian, Cibinului Mts., Braşov, Galbena, Făgăraş Mts. (Bielz, 1887) – ab. venusta Suffrian, Broşteni (Montandon, 1906) - ab. venusta Suffrian and ab. superba Suffrian.

Biological and ecological data: the host plants are *Aegopodium podagraria* L. and *Chaerophyllum* L. Mesophilic-mesohygrophilic species, recorded till the fir (tree) stage.

*Oreina (Oreina) vittigera* Suffrian 1851

General distribution: Alps

Distribution in Romania: Cibinului Mts., Galbena, Rodnei Mts., (Bielz, 1887). The presence of this species in Romania is impossible, the records must be based on misidentification.

*Oreina (Oreina) viridis* Duftschmid 1825

General distribution: Apls, Vosges, Carpathians.

Distribution in Romania: Borşa (Szel & Rozner & Kocs, 1995), Bucegi Mts., (Fleck, 1904) – typical form and ab. lugubris Weise, Cibinului Mts., Braşov, Retezat Mts., (Petri, 1912), Gheorghieni (Ieniştea 1931), Bolboci (Ieniştea 1932), Pietrosu Rodnei (Maican & Serafim, 2001), the upper Arieş river basin (Crişan & Teodor, 2002). In the Carpathians mountains existe the subspecies merkli Weise.

Biological and ecological data: host plants are *Meum athamanticum* Jacq., *Chaerophyllum* L. and *Alnus viridis* Chaix. Mesophilic-mesohygrophilic species, recorded from the fir (tree) stage till the subalpine zone, relatively common.

*Oreina (Intricatorina) intricata* Germar 1824

General distribution: Alps, Balkans, Carpathians and Sudetes.

Distribution in Romania: Codrul Slătioara (Cârdei & all, 1964), Broşteni (Montandon, 1906), Iţcani (Tărăbuţă, 1999), Harghita (Rozner, 1997) and subspecies anderschi Duftschmid, Perşani Mts., (Szel & Rozner & Kocs, 1995) – subsp. anderschi Duft., Borşa, Giurgeului Mts., (Szel & Rozner & Kocs, 1995), Todirescu (Dănilă, 1970), Vf. Omu (Ochs, 1922) - subsp. anderschi Duft., Sinaia, Azuga, Broşteni (Fleck, 1904), Prahova (Fleck, 1904) - subsp. anderschi Duft., Rarău (Marcu, 1936) - subsp. anderschi Duft., Cheile Someşului Cald (Crişan, 1999), Râncea (Bobârnac, 1974), Braşov, Făgăraş Mts., Sighişoara, Borsec, Tulgheş, Rodnei Mts., (Petri, 1912), Retezat Mts., Cibin Mts., Răşinari, Suru, Făgăraş Mts, Harghita, Vlăhiţa, Rodnei Mts., Bistra, Tulgheş (Petri, 1912) - subsp. anderschi Duft., Retezat Mts., (Ieniştea 1936) - subsp. anderschi Duft., Sinaia (Montandon, 1906; Jacquet, 1903) - subsp. anderschi Duft., Banat, Bihor (Kaszab, 1962) -

subsp. anderschi Duft., Pietrosu Rodnei, Ineu Mt., Roșu Mt., Vinului valley (Maican & Serafim, 2001).

Biological and ecological data: host plants are *Senecio* L, *Adenostyles alliariae* Gouan.

Mesophilic-mesohygrophilic species, recorded till the alpine stage, frequent species.

*Oreina (Virgulatorina) virgulata* Germar 1824

General distribution: Alps, Balkans, Carpathians and Sudetes.

Distribution in Romania: Harghita (Rozner, 1997), Giurgeului Mts., (Szel & Rozner & Kocs, 1995), Broșteni, Bucegi Mts., (Fleck 1904), Prahova (Fleck 1904) – ab. *candens* Weise, Cheile Someșului Cald (Crișan, Teodor, 1999), Făgăraș Mts., Șanta, Bistra, Poiana Brașov, Cristian, Tesla, Sibiu, Zărnești Mts (Petri, 1912) – ab. *serena* Weise, ab. *candens* Weise, ab. *praefica* Weise, ab. *orientalis* Weise, Sinaia (Montandon, 1906) – ab. *serena* Weise, ab. *candens* Weise, Carpathians (Winkler, 1927-1932) – ab. *alcyonea* Suffrian, Oslea, Cheile Sohodol (Ilie, 2002), Ineu Mt., Saca valley, Roșu Rivulet valley (Maican & Serafim, 2001), Leamna (Ilie, 2004), Cheile Someșului Cald (Crișan & Popa & Teodor, 1999), Pop Ivan river valley, Dragomirești (Maican & Serafim, 2004).

Biological and ecological data: host plants are *Cirsium* L and *Carduus* L. Very common species, often frequent, Mesophilic-mesohygrophilic species, recorded till the subalpine stage.

*Oreina (Chrysochloa) cacaliae* Schrank 1785

General distribution: Alps, Balkan Peninsula, Carpathians, Sudetes, Pyrenees, Appenines.

Distribution in Romania: Codrul Slătioara (Cârdei & All 1964), Broșteni (Montandon, 1906) – subspecies *senecionis* Schummel, Dospinești (Tărăbuță, 1999) – subspecies *senecionis* Schummel, Gherghieni, Giurgeului Mts., (Szel & Rozner & Kocs, 1995) – subspecies *senecionis* Schummel, Slătioara (Dănilă 1970), Muntele Mare – Apuseni Mts., (Marcu 1957) and ab. *coeruleolineata* Duftschmid and subspecies *bohémica* Weise, Sinaia, Azuga, Bucovina (Fleck, 1904), Cheile Someșului Cald (Crișan, Teodor, 1999) – subspecies *senecionis* Schummel, Piatra Cloșani, Oslea (Marcu, 1928), Cîbinului Mts., Galbena, Făgăraș Mts., Tesla, Harghita, Bistra, Hăghimașu Mare, Borsec, Vlăhița, Poiana Brașov, Rodnei Mts., (Petri, 1912), Retezat Mts., Galbena, Poiana Brașov (Bielz, 1887) – ab. *sumptuosa* Redtenbacher, Făgăraș Mts., Poiana Brașov, Hațeg (Petri, 1912) – ab. *tristricula* Weise, ab. *fraudulenta* Weise and subspecies *tussilaginis* Suffrian, Sibiu (Petri, 1926) – subspecies *senecionis* Schummel and ab. *janaceki* Weise, Retezat Mts., (Ieniște, 1936) – ab. *fraudulenta* Weise, ab.

*lissahorensis* Weise and *ab. sumptuosa* Redtenbacher, Sinaia (Montandon, 1906) – *ab. fraudulenta* Weise, Carpathians (Winkler, 1927-1932) – *ab. gleissneri* Suffrian, Transilvania (Teodoreanu, 1988), Bocicoiu Mare, Ineu Mt., Roșu Mt., Saca valley (Maican & Serafim, 2001), the upper Arieș river basin (Crișan & Teodor, 2002) – subspecies *senecionis* Schummel.

Biological and ecological data: host plants are *Senecio* L, *Arctium* L, *Adenostyles* Cass.

Mesophilic-mesohygrophilic species, recorded till the subalpine stage, very frequent.

*Oreina (Chrysochloa) elongata* Suffrian 1851

General distribution: Alps, Appenines.

Distribution in Romania: Broșteni (Montandon, 1906). This species not belongs to the romanian fauna, this record is based on misidentification.

*Oreina (Chrysochloa) speciosissima* Scopoli 1763

General distribution: Alps, Balkans, Carpathians, Sudetes.

Distribution in Romania: Harghita (Rozner, 1997), Hargita Băi (Szel & Rozner & Kocs, 1995), Azuga, Broșteni, Prahova (Fleck, 1904) – *ab. nigrescens* Letzner, *ab. carpathica* Kraatz, Rodnei Mts., Bucegi Mts. (Petri, 1912) – *ab. nigrescens* Letzner, Retezat Mts., Preajba, Făgăraș Mts., Harghita, Vlăhița, Brașov, Bistra, Tulgheș (Petri, 1912) – subspecies *juncorum* Suffrian and *ab. carpathica* Kraatz, Sinaia, Broșteni (Montandon, 1906; Jacquet, 1903) – *ab. carpathica* Kraatz, Bucegi (Hormuzachi, 1904), Băile Herculane (Kaszab, 1962) – *ab. herculis* Kaszab, Rodnei Mts., (Warchalowski, 1993) – subspecies *fuscoaenea* Schummel, Ineu Mt., Roșu Mt., Vinului valley, Saca valley, (Maican & Serafim, 2001).

Biological and ecological data: host plant is *Senecio nemorensis* L. Common species, mesophilic-mesohygrophilic species, recorded till the fir (tree) stage.

*Oreina (Frigidorina) frigida* Weise 1883

General distribution: Alps.

Distribution in Romania: Broșteni (Montandon, 1906). The presence of this species in Romania is impossible.

*Oreina (Protorina) melancholica* Heer, 1845

General distribution: Alps.

Distribution in Romania: Harghita (Rozner, 1997). The presence of this species in Romania is questionable, need reconfirmations.

*Oreina* (*Protorina*) *plagiata* Suffrian 1861

General distribution: Alps, Appenines, Carpathians, Balkans.

Distribution in Romania: Harghita (Rozner, 1997), Perșani Mts., (Szel & Rozner & Kocs, 1995), Someșului Rece valley (Marcu 1957) and ab. distinctissima Ulanowski, Broșteni (Fleck, 1904), Oușor, Suhard, Lucina, Dornișoara, Rarău (Marcu, 1928), Retezat Mts., Făgăraș Mts., Poiana Brașov, Santa (Petri, 1912) Ciucului Mts., Bălanului Mts., Câmpeni, Rodnei Mts., (Petri, 1912) – subspecies commutata Suffrian, Broșteni (Montandon, 1906) – subspecies commutata Suffrian, Ialomița (Montandon, 1906), Rodnei Mts., Corongiș Mt., (Maican & Serafim, 2001).

Biological and ecological data: host plant is *Doronicum austriacum* Jacquard. Relatively common species, mesophilic-mesohygrophilic species, recorded till the fir (tree) stage, along the rivulets from mountain zones.

## CONCLUSIONS

In Romania genus *Oreina* includes 10 species, 12 subspecies and 29 chromatic varieties. Generally, these species are mesophilic-mesohygrophilic, recorded in the mountain zones, till the subalpine stage.

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