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The species of casebearer moths described from the Volgo-Ural region

(Lepidoptera, Coleophoridae)

by

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Summary: 22 species of Coleophoridae have been described from the Volgo-Ural region. 4 species are synonimized at present day.

Резюме: 22 вида чехлоносок описанны из Волго-Уральского региона. 4 вида являются синнонимами на сегодняшний вень.

During our work with the STAUDINGER collection material from the Volgo-Ural region, which is kept at the Humboldt-University Museum in Berlin, we investigated the type specimens of casebearer moths with lables "Origin" These are:
Valvulongia falcigerella (CHR.), *Ecebalia quadrifariella* (STGR.), *Casignetella occatella* (STGR.), *Carpochena asperginella* (CHR.), and *Carpochena aequalella* (CHR.).

We also looked at the Zoological Institut of Russian Academy of Scienses (St. Petersburg, Russia) into EVERSMANN's collection of moths from Sarepta (now the vicinity of Volgograd), Orenburg and "Ural"

Having at hand our own moth material of the before cited species, gathered during the years 1986–97 in the Volgo-Ural region, and the casebearers which were described later by TOLL (1957, 1961), BALDIZZONE (1988), and FALKOVITSH (1993) on the base of old collected material (by H. CHRISTOPH, M. BARTEL, V. KUZNETSOV), and the results of our determination of V. ZOUHAR's casebearer material (in ZFMK) from the vicinity of Volgograd, we have the possibility to extend our knowledge about the distribution of these species in Russia.

Taxonomic order of the Coleophoridae corresponds mainly to TOLL's [1953, 1962] scheme in addition to which we use contemporary generic names. The specimens collected by the author are kept at the Zoological Institute of the Russian Academy of Sciences (St. Petersburg) and at the University of Saratov.

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Abbreviations for museums:

MHUB	Museum für Naturkunde der Humboldt-Universität, Berlin, Germany
ZFMK	Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany
ZISP	Zoological Institut of Russian Academy of Sciences, St. Petersburg, Russia
BMHM	British Museum of Natural History, London, England
IZPC	Institute of Systematic and Experimental Zoology PAS, Cracow, Poland
ZMSU	Zoological Museum of Saratov State University, Saratov

An asterisk (*) before a species name means, that it is synonymized at present day.

Orthographis uralensis (TOLL, 1961)
Coleophora uralensis TOLL, Annls. Zool. Warsz., **19**(6):217, figs.
Locus typicus: Russia, Sarepta.

Material examined: 2 ♂♂, 28.V.1992, Seleznikha, Saratov. Prov., V. ANIKIN (ZMSU); 3 ♂♂, 1.–3.V.1994, lake Elton, Volgograd Distr.; 1 ♂, 24.V.1996, vil. Akulovka, Ul'yanovsk Prov., V. ANIKIN (ZMSU); 2 ♂♂, 10.VIII.1997, Zhiguli Preserve, Samara Prov., V. ANIKIN (ZMSU).
Distribution: W Palaearctic (southern part).
Biology: Steppe biotopes. Flight period (FP) in V–VI. Larval foodplants (L): *Artemisia sericea* WEB. ex STECHM.* (* – original data).

Valvulongia falcigerella (CHRISTOPH, 1872)
Coleophora falcigerella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**:31, pl. 2A, fig. 27
Locus typicus: Russia, Sarepta.

Material examined: Holotype ♂, "Origin", Sarepta, GP N164; 7 specimens, Sarepta, H. CHRISTOPH (MHUB); 1 ♀, 28.VIII.1997, r. Kizan, Astrakhan Prov., V. ANIKIN (ZMSU).
Distribution: Russia (Lower Volga region), Kazakhstan, Middle Asia.
Biology: Steppe biotopes. FP in VII–VIII. L: *Glycyrrhiza glabra* L. 1 generation (G).

Chnoocera botaurella (HERRICH-SCHÄFFER, 1861)
Coleophora botaurella HERRICH-SCHÄFFER, 1861, (CorrespBl. Samml. Schmett. **2**: 143.
Locus typicus: Russia, Sarepta, Ural.

Material examined. 6 specimens, Sarepta, H. CHRISTOPH (MHUB); 5 specimens, Sarepta, H. CHRISTOPH (ZISP); 11 ♂♂, 11 ♀, 8.VIII.1991, Dyakovka, Nature Reserve, Saratov Prov., V. ANIKIN (ZMSU); 1 ♀, 26.VII.1997, vil. Raslovka–2, Saratov Prov., O. SINICHKINA (ZMSU).
Distribution: Russia (Lower Volga region), Kazakhstan, Middle Asia, Iran.
Biology: Steppe biotopes. FP in VI–VIII. 1 G.

Oedicaula serinipennella (CHRISTOPH, 1872)
Coleophora serinipennella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 31, fig. 32.
Locus typicus: Russia, Sarepta.
Coleophora stefanii JOANNIS, 1899, Bull. Soc. ent. Fr. **1899**: 331, fig.
Coleophora novella CHRÉTIEN, 1926, Amat. Papillons **3**: 9.
Coleophora caliacraella CARADJA, 1931, Mem. St. Acad. Rom. (3)**7** (8): 331.
Coleophora caliacraella lucidella CARADJA, 1932, Bull. Sec. Sc. Acad. Rom. **15** (1/2): 43.
Coleophora jerichoella AMSEL, 1935, Mitt. Zool. Mus. Berl. **20** (2): 306, fig. 55.
Coleophora jordanella AMSEL, 1935, Mitt. Zool. Mus. Berl. **20** (2): 306, fig. 56.
Coleophora sosisperma MEYRICK, 1936, Exot. Microl. **4**: 261.
Coleophora deserticola TOLL, 1944, Z. Wien. ent. Ges. **29**: 292, figs.
Coleophora soffneri TOLL, 1944, Z. Wien. ent. Ges. **29**: 292, fig. 6.

Material examined: 2 specimens, 7.–24.V.1967, vicinity Volgograd, V. ZOUHAR (ZFMK); 5 ♂♂, 2 ♀♀, 9.VIII.1991, Dyakovka, Nature Reserve, Saratov Prov., V. ANIKIN (ZMSU); 2 ♂♂, 1 ♀, 14.VIII.1991 Pallasovka, Volgograd Prov., V. ANIKIN (ZMSU); 3 ♂♂, 1 ♀, 24.–26.VI.1997, vil. N. Bannovka, Saratov Prov., V. ANIKIN (ZMSU); 2 ♀♀, 27.VIII.1997, r. Kizan, Astrakhan Prov., V. ANIKIN (ZMSU).
Distribution: All over the Palaeartic in the steppe zone.
Biology: Steppe biotopes. FP in VI–VIII. The larva in the swelling galls on the haulms of *Atriplex*. 1 G.

Apista impalella (TOLL, 1961)
Coleophora impalella TOLL, 1961, Annals. Zool. Warsz. **19** (6): 213, figs.
Locus typicus: Russia, Sarepta.

Material examined: Not examined. Only known after the type material (TOLL, 1961).
Distribution: Lower Volga region (Volgograd Prov.).
Biology: Steppe biotopes. FP in VI. 1 G. L: unknown.

Apista lacera FALKOVITSH, 1993
Apista lacera FALKOVITSH, 1993, Proc. Zool. Inst. St. Petersburg, **251**: 40, figs.
Locus typicus: Ural, Yanvartsevo.

Material examined: Holotype ♂, Ural, Yanvarcevo, 9.III.1951 (KUZNETSOV) (ZISP); paratype: 2 ♂♂, Russia, Novosibirsk Distr., Akademgorodok, 10.–20.VI.1983, K. MIKKOLA (ZISP); 1 ♂, Altay, r. Katun, 22.–27.VI.1983, K. MIKKOLA (ZISP); 1 ♀ Russia, Belgorod Distr., vil. Borisovka, 21.V.1973, A. LVOVSKY (ZISP).
Distribution: European part of Russia (Belgorod Distr.), Ural, Altay.
Biology: Steppe biotopes. FP in VII. 1 G. L: *Caragana frutex*.

* *Multicoloria gypsophilae* (CHRISTOPH, 1872)
Coleophora gypsophilae CHRISTOPH, 1872, Stett. ent. Ztg. **23**: 223.
Locus typicus: Russia, Sarepta.

Material examined. In MHUB 3 specimens without abdomen collected by H. CHRISTOPH. BALDIZZONE (1994) synonymized this species with *M. vicinella* after predetermined type(?) material from the British Museum.

* *Multicoloria paraspumosella* (TOLL, 1957)
Coleophora paraspumosella TOLL, 1957, Acta zool. Cracov. **2** (6): 126, figs.
Locus typicus: Russia, Sarepta.

Material examined: 1 ♀?, 22.VII.1994, Cherkaskoe, Khvalynsk Distr., Saratov Prov., V. ANIKIN (ZMSU). BALDIZZONE (1994) synonymized this species with *M. cartilaginella* after predetermined material (type?) from the TOLL collection (IZPC).
Biology: Forest-steppe biotopes. FP in VI–VII. 1 G.

Multicoloria cartilaginella (CHRISTOPH, 1872)
Coleophora cartilaginella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 33, pl. 2A, fig. 30.
Locus typicus: Russia, Sarepta.
Coleophora echinella STAUDINGER, 1880, Horae Soc. ent. ross. **15**: 364.
Coleophora dubiosa TOLL, 1952, Bull. Soc. ent. Mulhouse **1952**: 43.
?Coleophora paraspumosella TOLL, 1957, Acta zool. Cracov. **2** (6): 126, figs.
Coleophora medicagivora TOLL, 1961, Schr. bayer. Akad. Wiss. Mat.-Nat. **170** (7/10): 286, figs.

Material examined: 2 specimens, Sarepta, H. CHRISTOPH (MHUB); 3 ♂♂, 2 ♀♀, 7.–24.V.1967, vicinity Volgograd, V. ZOUHAR (ZFMK); 1 ♀, 3.VI.1990, vil. Burkino, Saratov Prov., V. ANIKIN (ZMSU); 2 ♂♂, 1 ♀, 24.–26.VI.1997, vil. N. Bannovka, V. ANIKIN (ZMSU).
Distribution: W Palaearctic (southern part).
Biology: Forest-steppe biotopes. FP in VI. 1 G.
L: *Astragalus albicaulis* GROSSH., *A. glycyphyllus* L.*, *Medicago romanica* PROD.

Multicoloria stachi (TOLL, 1957)
Coleophora stachi TOLL, 1957, Acta zool. Cracov. **2** (6): 125, figs.
Locus typicus: Russia, Sarepta.

Material examined: Not examined.
Distribution: Russia: Lower Volga region (Volgograd Prov.), Far East.
Biology: Steppe biotopes. FP in VI. 1 G. L: *Artemisia*.

Perygra numeniella (BALDIZZONE, 1988)
Coleopora numeniella BALDIZZONE, 1988, Beitr. Ent. **38**: 74, figs.
Locus typicus: Ural, Uralisk.

Material examined: Not examined.
Only known after 1 ♀ collected by MAX BARTEL (coll. Museum d'Historie de Bucarest) (BALDIZZONE, 1988).
Distribution: Russia (Volga-Ural region).
Biology: Steppe biotopes. FP in VII. 1 G.

Ecebalia charadriella (BALDIZZONE, 1988)
Coleophora charadriella BALDIZZONE, 1988, Beitr. Ent. **38**: 81, figs.
Locus typicus: Ural, Uralsk.

Material examined: 1 ♂, 22.V.1987, Saratov (ZMSU); 1 ♂, 15.V.1991, vil. Dyakovka, Nature Reserve, Saratov Prov., V. ANIKIN (ZMSU).
Distribution: Russia (Lower Volga Region, S. Ural), Central Kazakhstan.
Biology: Steppe and semi-desert biotopes. FP in VII. 1 G.

Ecbalia attalicella (ZELLER, 1871)
Coleohpora attalicella ZELLER, 1871, Stett. ent. Ztg. **1871**: 77
Locus typicus: Russia, Sarepta.
Coleophora unistriella CARADJA, 1920, D. ent. Z. Iris **34**: 152.

Material examined: 2 specimens, Sarepta, H. CHRISTOPH (MHUB).
Distribution: Russia (Lower Volga region), Kazakhstan (S Ural), Afghanistan.
Biology: Forest-steppe and steppe biotopes. FP in VI–mid VII. 1 G.

Ecbalia quadrifariella (STAUDINGER, 1880)
Coleophora quadrifariella STAUDINGER, 1880, Horae Soc. ent. ross. **15**: 373, fig. 45.
Locus typicus: Russia, Sarepta.

Material examined: Holotype 1 ♂, "Origin", Sarepta, GP N190 (MHUB); paratype: 1 ♀, Sarepta, GP N191 (MHUB).
Distribution: Russia (Lower Volga Region), Kazakhstan (S Ural).
Biology: Steppe biotopes. FP in VI–VII. 1 G.

Casignetella occatella (STAUDINGER, 1880)
Coleophora occatella STAUDINGER, 1880, Horae Soc. ent. ross. **15**: 376.
Locus typicus: Russia, Sarepta.

Material examined: Lectotype ♂, "Origin" Sarepta, GP N296 (MHUB); 1 ♀, 19.VIII.1968, Astrakhan Distr., PENCHUKOVSKAYA (ZISP).
Distribution: S Europe (local).
Biology: Steppe biotopes. FP in VIII.

Casignetella tringella (BALDIZZONE, 1988)
Coleophora tringella BALDIZZONE, 1988, Beitr. Ent. **38**: 81, figs.
Locus typicus: Ural, Uralsk.

Material examined: 3 ♂♂, 27.VII.1996, Engels, Saratov Prov., V. ANIKIN (ZMSU).
Distribution: Steppe zone of E Europe.
Biology: Steppe and semi-desert biotopes. FP in VII. 1 G. L: *Kochia prostrata**

* *Carpochena delibutella* (CHRISTOPH, 1872)
Coleophora delibutella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 35, pl. 2A, fig. 31.
Locus typicus: Russia, Sarepta.

Material examined: Holotype ♂, "Origin", Sarepta, GP N133; paratype ♀, Sarepta, GP N134 (MHUB). The Type material was predetermined and synonymized with *C. squalorella* (ZELLER, 1849) by TOLL (1962).

Carpochena asperginella (CHRISTOPH, 1872)
Coleophora asperginella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 31, pl. 2A, fig. 28.
Locus typicus: Russia, Sarepta.
Coleophora nigrosquamella FILIPJEV, 1925, Rev. russe. ent. **19**: 51.

Material examined: Holotype ♂, "Origin", Sarepta, GP N6 (MHUB); 1 specimen, 7.–24.V. 1967, vicinity Volgograd V. ZOUHAR (ZFMK); 2 ♂♂, 1 ♀, 8.VIII.1991, Dyakovka, Nature Reserve, Saratov Prov., V. ANIKIN (ZMSU); 1 ♀, 26.VIII.1997, r. Kizan, Astrakhan Prov., V. ANIKIN (ZMSU).
Distribution: Russia (Lower Volga region), Kazakhstan, Middle Asia.
Biology: Desert biotopes. FP in VIII. 1 G. The larva lives on the carpels of *Coryspermum*.

* *Carpochena sareptella* (TOLL)
Coleophora sareptella TOLL, in litt. nom. nudum.
Locus typicus: Russia, Sarepta.

Material examined: Holotype ♀, Sarepta, GP N132 (MHUB). We predetermined the type material and synonymized it with *C. salicorniae* (HEINEMANN & WOCKE, 1877).

Carpochena trientella (CHRISTOPH, 1872)
Coleophora trientella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 37, pl. 2A, fig. 33.
Locus typicus: Russia, Sarepta.

Material examined: 1 specimen, Sarepta, H. CHRISTOPH (MHUB); 1 ♂, 7.–24.V.1967, vicinity Volgograd, V. ZOUHAR (ZFMK); 1 ♂, 3 ♀♀, 8.VIII.1991, vil. Dyakovka, Nature Reserve, Saratov Distr., V. ANIKIN (ZMSU).
Distribution: S Palaearctic, from Hungary to the Far East.
Biology: Desert biotopes, salt-marshes. FP in VIII. 1 G. The larva lives on the carpels of *Coryspermum*.

Carpochena aequalella (CHRISTOPH, 1872)
Coleophora aequalella CHRISTOPH, 1872, Horae Soc. ent. ross. **9**: 32, pl. 2A, fig. 29.
Locus typicus: Russia, Sarepta.
Coleophora heratella TOLL & AMSEL, 1967, Beitr. naturk. Forsch. SüdwDtl. **26** (3): 11, figs. 16, 43.

Material examined: Lectotype ♂, "Origin", Sarepta, GP N9 (MHUB); paratype ♀, Sarepta, GP N8 (MHUB).
Distribution: Russia (Lower Volga region), Kazakhstan, Middle Asia, Iran, Afghanistan.
Biology: Steppe and half-desert biotopes. FP in V, VI. 1 G.

Klinzigedia phlomidella (CHRISTOPH, 1862)
Coleophora phlomidella CHRISTOPH, 1862, Stett. ent. Ztg. **23**: 222.
Locus typicus: Russia, Sarepta.

Material examined: 3 specimens, Sarepta, H. CHRISTOPH (MHUB); 2 ♂♂, 1 ♀, 9.VIII.1993, vil. Dyakovka, Saratov Prov., V. ANIKIN (ZMSU); 1 ♀, 26.VIII.1997, vil. Raslovka–2, Saratov Prov., V. ANIKIN (ZMSU).
Distribution: Russia (Lower Volga region), Middle Asia (mountains), Asia Minor.
Biology: Steppe biotopes. VIII. FP in 1 G. L: *Phlomis*.

References

BALDIZZONE, G. (1988): Contributions a la connaissance des Coleophoridae XLVIII. Guadre nouvelles especes du genre *Coleophora* HÜBNER de l'URSS. – Beitr. Ent. **38**: 74–82.

BALDIZZONE, G. (1994): Coleophoridae dell'Area Irano-Anatolica e regioni limitrofe (Lepidoptera). – Memorie Associazione Naturalistica Piemontese **3**: 423 pp.

CHRISTOPH, H. (1862): Vier neue südrussische Schmetterlinge. – Stett. Ent. Zeit. **23**: 220–224.

CHRISTOPH, H. (1872): Neue Lepidoptera des Europäischen Faunengebietes. – Horae Soc. Ent. Ross. **9**: 3–39, pl. 1, 2A.

FALKOVITSH, M. I. (1993): New species of casebearer moths (Lepidoptera, Coleophoridae) from Altai. – Proc. Zool. inst. Acad. Sci. of USSR **251**: 40–52 (in russian).

HERRICH-SCHÄFFER, G. A. W. (1861): Revision der europäischen Schmetterlingsfauna. – Korrespondenzblatt fur Sammler von Insekten, Regensburg **2**: 189 pp.

STAUDINGER, O. (1880): Lepidopteren-Fauna Kleinasiens. – Horae Soc. ent. ross. **15**: 369–435.

TOLL, S. (1957): Studien über die Genitalien einiger Coleophoriden, XIV, Lepidoptera. – Acta Zool. Cracov. **2** (6): 119–148. 41 figs.

TOLL, S. (1961): Studien über die Genitalien einiger Coleophoridae, XVIII (Lepidoptera). – Ann. Zool. **19** (6): 209–277 43 figs.

TOLL, S. (1962): Materialien zur Kenntnis der paläarktischen Arten der Familie Coleophoridae (Lepidoptera). – Acta Zool. Cracoviensia **7** (16): 577–720, 133 pls.

ZELLER, H. (1871): Lepidopterologische Beobachtungen im Jahre 1870. – Stett. Ent. Ztg. **32**: 49–81. Pl. 2.

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