

Bot flies and warble flies (Diptera: Gasterophilidae, Oestridae, Hypodermatidae) in the collection of the Hungarian Natural History Museum. I. Imagos

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"Bot flies and warble flies (Diptera: Gasterophilidae, Oestridae, Hypodermatidae) in the collection of the Hungarian Natural History Museum. I. Imagos" - Papp, L. - Parasit. hung., 23: 83-91. 1990.

ABSTRACT. The collection label data of the imago specimens of the bot and warble fly species preserved in the Zoological Department, HNHM, Budapest, are faithfully described and published. Twenty-three species of the three dipterous families are represented by 321 ex., which include also the specimens collected by Dr. Z. KASZAB and Dr. L. SUGÁR in Mongolia.

KEY WORDS: Diptera, Gasterophilidae, Oestridae, Hypodermatidae, collection records, Mongolia, Hungary, Palaearctic region.

Insect collection specimens bear label data i.e. valuable information for research of any kind. While the huge quantity of specimens and data in numerous insect groups is a great problem and needs all the advantage of the new methods of information storage and automated data-processing, as regards bot flies and warble flies, every specimen deserves our special attention. It is well known that the imagos of these parasites are short living, they are on wings for some days only; consequently, they are seldom collected.

The old collection of bot and warble flies in the Hungarian Natural History Museum was reviewed by SZILÁDY (1935). There the collection of stomach bots (*Gasterophilidae*) was very rich, while the species of the other two families must have been poorly represented (there was no voucher specimen of e. g. *Pharyngomyia picta*, *Hypoderma diana* from Hungary, cf. PAPP 1988). The entire old collection of bot and warble flies was burnt in Budapest in 1956. When a new general collection had been built up, Dr. Ferenc MIHÁLYI asked for and received also specimens of these flies from institutions abroad. In the previous decade dr. Árpád SOÓS received representatives of several species (one or two specimens each) from the late K. Ya. GRUNIN (Leningrad). Of course, Hungarian dipterists have made efforts to collect imagos of bot and warble flies also in Hungary.

Dr. Zoltán KASZAB collected some specimens of bot flies on his six expeditions to Mongolia. Only one specimen each of two species have been hitherto published (GRUNIN 1969b) from KASZAB's collectings, but there are some more specimens in our collection. Dr. László SUGÁR collected numerous specimens of three oestrid species during his 1974 collecting trip to Mongolia; he has generously presented these flies to the Zoological Department, HNHM.

On the 1st of January, 1990 there were 321 imago specimens of 23 species of bot and warble flies in the collection of the HNHM (Gasterophilidae: 55 ex., 7 species; Oestridae: 183 ex., 9 species; Hypodermatidae: 83 ex., 7 species). There are also some pupae, pupal shells, dried larvae and eggs with the imago collection there. We must regard it as a significant collection and it seems reasonable to publish the information from this set of specimens in a separate paper. The original label data are shortened below on some modes and ways, which will make possible any future retrieval and identification of any specimen in the collection. The data of the larvae of bot and warble flies preserved in the HNHM will be published by Dr. Albert SZAPPANOS in the near future.

The following marks are used below:

"": includes text in hand-writing;

- : separates text on different labels on a given specimen;

; : separates data of specimens from different localities;

/: for "or", i.e. one of the data is on the label of the given specimen;

{ } : for remarks or text not given on labels;

{ill.}, {illeg.}: for illegible characters or parts of text;

The label "Don. Mus. Univ. Berol." is always a separate label on the flies and shortened as "(Don.)". The Cyrillic letters are transcribed as usual and specifically:

и = j; ѝ = j; њ = y; њ = ' ; џ = ts; ч = ch; шч = shch; x = kh.

The data of the specimens from Hungary, if any, are given always at the end of the lists.

ACKNOWLEDGEMENTS

I owe a great debt of gratitude to Dr. Árpád SOÓS, who gave me his notices on bot and warble flies and provided me with invaluable information and advice. I sincerely thank Dr. László SUGÁR for presenting his material (mainly from Mongolia), incl. larvae, to the collection of the Zoological Department, HNHM.

GASTEROPHILIDAE

Gyrostigma rhinocerontis (Hope, 1840)

(syn.: *pavesii* (Corti, 1895))

1 male 1 female : Budapest, Állatkert {Zoo}, 24.XI.1984, D-Afrikából importált orrszarvú üritette {discharged by a black rhinoceros imported from S-Africa}, leg. Gráf Z. - For bionomics and distribution see ZUMPT (1965).

Gasterophilus haemorrhoidalis (Linnaeus, 1758)

1 male 1 female : Walouiki, R. M., Velitchkovsky, {illeg., ?expar}, 23 {illeg.}92, in cop.; 1 male : Mongolia: Chövsgöl aimak, 60 km WNW von der Stadt Mörön, 1800 m, leg. Dr. Z. Kaszab - N. 984, 19.VI.1968.; 2 pupae: v. Hering (Don.)/ coll. Bgst. {Bergenstamm}; 1 male : okr. Kadalinska, 1.VII.1934., A. Blagoveshchenskij - "*Gasterophilus haemorrhoidalis* L. det. Grunin"; 1 male : Spassk. Barab. okr., Z. Sibir', 13.VII.32., M. Olsuf'ev - "*Gasterophilus haemorrhoidalis* L. det. Grunin"; 1 female : Urd{illeg.}ar, 17.VIII.34. - "*Gasterophilus haemorrhoidalis* L. det. Grunin"; 1 male : Mishikgun-Dalaj gun, Khalkha, Mong., Kozlov, 19-23.IX.925 - "*Gasterophilus haemorrhoidalis* L. det. Grunin"; 2 female : Budapest, Vágóhid {slaughterhouse} - Kelt. 1967.VII, leg. Török F.; 2 male : Ungarn, Com. Tolna, A. Gammel - 933 VII 19/VIII. 15 (Don.); 1 male : id., Com. Pest - VII 17 (Don.); 1 male: id., Com. Komárom, VII 9 (Don.) 4912; 1 larva (pinned): Ungarn Pécel VII.10. - *Gasterophilus* sp. (Don.).

Gasterophilus inermis (Brauer, 1858)

1 male : Bassaga, Karagand. obl., 12.6.1957, K. Grunin - "*Gasterophilus inermis* Brau. det. Grunin".

Gasterophilus intestinalis (De Geer, 1776)

1 male : Bosnien, Simony; 1 female : Austria sup., Kremsm.{ünster} Czerny; 1 female : Danmark - coll. Mus. Univ. Kopenhagen; 1 pupal shell: Mark Brandenburg, Priegnitz, Triglitz, O. Jaap S. 1920-21 (Don.); 3 male : Mongolia: Bulgan aimak, cca 20 km W von Somon Bajannuur, 1100 m, Exp. Dr. Z. Kaszab, 1966 - Nr. 532, 18.VI.1966; 1 female : Tuin-gol, Khalkha, Mongoliya, Kirichenko, 31.VII.26. - "*Gasterophilus intestinalis* D.G. det. Grunin"; 1 male : Ulkhu-bulun, gol. Toly, Khalkha, Mong., Kozlov, 26-31.VIII.25 - "*Gasterophilus intestinalis* D.G. det. Grunin"; 1 male : Dol. r. Toly, Khalkha, Mongoliya, Kozlov, 5-9.VIII.25 - "*Gasterophilus intestinalis* D.G. det. Grunin"; 1 female : Ungarn, Com. Komárom, A. Gammel - 1933.VII.24. (Don.); 1 female : id., Com. Pest - VIII.5. (Don.); 1 male : id., Com. Tolna, - 1933.VII.27. (Don.) - 4910; 1 male, 1 female: KNP: Dömsöd, 1983.IX.11. leg. Ádám, Szél - Tripolisz, 90 m, *Equus caballus*; 5 eggs {glued on a black label}: Budapest Gammel (Don.); 6+6 egg shells {glued with horse hairs}: Aggteleki N.P., Jósvafő, Gerge-bérc - lovokról {on horses}, 1988.X.13., leg. Papp L.

Gasterophilus nasalis (Linnaeus, 1758)

1 male : Mongolia: Mittulgobi aimak, 20 km S von Somon Delgerzagt, 1480 m, Exp. Dr. Z. Kaszab, 1967 - No. 778, 9.VI.1967; 1 male : Mongolia: Gobi Altaj aimak, Mongol els, 10 km SO von Somon Chechmort, 1600 m, Exp. Dr. Z. Kaszab, 1966 - No. 683, 13-14.VII. 1966; 1 female : Mongolia: Baruun-Urt ÉNy-120 km - 1972.VIII.5-18. leg. Mészáros; 1 male : {illegible} obl., 1952, K. Grunin - "*Gasterophilus nasalis* L. det. Grunin"; 1 male : Saurg, 1000m, r. K{illeg.}, 24.VI.910, {illeg.} Jakobson - coll. Semenov-Tian-Shansky - "*Gasterophilus nasalis* L. det. Grunin"; 1 female : Selenginskij r-n, {illeg.}, 29.VI.57, A. Rozhkov - "*Gasterophilus nasalis* L. det. Grunin"; 1 female : Dolina r. Toly, Khalkha, Mongoliya, Kozlov, 5-9.VIII.25 - "*Gasterophilus nasalis* L. det. Grunin"; 1 male : Ungarn, Com. Tolna, A. Gammel - *Gasterophilus nasalis* (Don.); 1 male 1 female : id., Com. Komárom - 937. VII 30 / 937.VIII.25. (Don.); 1 female : id., Com. Pest - 933 VIII 2 (Don.).

Gasterophilus nigricornis (Löw, 1863)

1 male : Oz. Orok Nor, sev. Gobi, Mongoliya, Kozlov, 10.IV.-4.V.926 - "*Gasterophilus nigricornis* LW. det. Grunin".

Gasterophilus pecorum (Fabricius, 1794)

(syn. *gammeli* (Szilády, 1935))

1 male : Coll. Bgst. {Bergentamm}; 1.: Walouiki, R.m., Velitchkovsky - 29.VI.92 - "loshad" {horse}; 1 male (with pupal shell): Aral-tyube. 2000 m ict. r. Merke, Olenev, 18.VI. 929 - "o loshadi" {from horses} - "*Gasterophilus pecorum* F. det. Grunin"; 1 female : okr. g. Kadalinska, 29.VII.1934, D. Blagoveshchenskij - "*Gasterophilus pecorum* F. det. Grunin"; 1 male : Mongolia: Central aimak, 9 km O v. Nalejech, 50 km O v. Ulan-Bator, 1300 m, Exp. Dr. Z. Kaszab, 1963 - Nr. 10., 20.VI.63 - "*Gasterophilus pecorum* F. male " Grunin det. 1966; 1 female : Mongolia: Südgobi aimak, 14 km SW von Somon Bajandalaj, 1450 m, Exp. Dr. Z. Kaszab, 1967 - No. 801, 15.VI.1967; 3 male 1 female : Ungarn, Com. Tolna, A. Gammel, 933 VII 28 / VII 26 / VIII.1. (Don.); 2 female : id., Com. Pest - 933 VII 25 / VII 9 (Don.); 1 male : Tass, 1958. IV. 28. - leg. Stankow. There are also two pupal shells with an illegible label, another pupal shell from Coll. Bergentamm and some eggs labelled with "Budapest, Gammel" in our collection.

OESTRIDAE

Cephenomyiinae

Pharyngomyia picta (Meigen, 1824)

1 male : Coll. Gerst.{äcker} - "*Cephe. picta* male female " (Don.) - 4913; 1 male 1 female : male / female - Österreich, coll. Brauer - *picta* det. Brauer - Mus. Caes. Vindobon.; 1 male : Virton 1 male d. 7./VII.87 - v. Röder - Zool. Inst. Halle-S, "*picta* Meig.", det. Bau 1929 (Don.); 1 male : Makkoshotyka, Zempléni hgs. {mountains} - 1963. III. 8., fénycsapda {light trap}.

Cephenomyia auribarbis (Meigen, 1824)

1 male : "Harz Gebirge" - "*Cephenomyia rufibarbis* Mg." - "*Cephenomyia auribarbis* (Meig.)" - "*C. rufibarbis* male . Genit. v. glicerine K. Gr."; 1 male : male - Weisswasser, 15.5.13. H. Kramer C. - "*Cephenomyia auribarbis* Mg." - coll. Dr. Armin Bau (Don.) - 4916; 1 male : "Triebenstein, 3.7.1930." - "*Cephenomyia rufibarbis* Meig." - coll. Moosbrugger; 1 female : coll. Gerst.{äcker} - "*Cephenom. auribarbis* (Mg.) female "; 1 pupal shell: Österreich Coll. Brauer - *rufibarbis* det. Brauer; 1 female : Dobogókő, 1957.V.14. - leg. Mihályi & Zsirkó; 1 female : Pilistető, 1958.V.21. - Székessy; 1 female : Budajenő - 1963.V.25., Horvatovich; 1 male : B.N.P.: Bánkút {Miskole}, Petőfi kilátóról {from look-out tower}, 1982.VI.2., leg. Bessenyi.

Cephenemyia stimulator (Clark, 1815)

1 male : "Anninger Simony."; 1 male : "Rossitten, 18.8.20." (Don.); 1 female : "*C. stimulator* Rossitten K.N., 12.8.1928. female in copula mit A" (Don.); 1 male : Styriae Alpes Strobl. - Coll. Vogt - "*Cephenomyia stimulator*" (Don.) - 4914; 1 female : female - Österreich, Coll. Brauer - *stimulator* det. Brauer - Mus. Caes. Vindobon.; 1 male : Hochfirst, Schwarzwald, 1.7.1922. - Coll. Dr. Armin Bau (Don.); 1 male : "Wendelstein, 14.7.1928. Dr. A. Bau" - "*stimulator* Cl." det. Bau, 1929 (Don.); 1 male : male - "Eschenkogel, 25.VIII." Coll. Brauer - *stimulator* det. Brauer; 1 male : F. Kowarz Franznsbd. - "Heuberg, 13.9.05" - 133; 1 male : Chit. obl., Borz. r-n, Vershina bl. st. Sharasun, 12.8.958, Grunin - "*Cephenemyia stimulator* Cl. det. Grunin"; 1 male : V. Sayan, zap. otrogi, na versh., 25. 7. 1965, V. M. Semenyuk - "*Cephenemyia stimulator* Cl. det. Grunin"; 1 male : Szentgyörgy-h., Zala-m.,- hegytető {hill top}, 1960.VIII.1. - leg. Soós Á. - "*Cephenomyia stimulator* Det. J. Minár"; 1 male : Sopronhorpács, 1965. VIII. 10. - fénycsapda {light trap}.

Cephenemyia trompe (Modeer, 1786)

1 male : "Lapland Paykullé." (Don.) - 4915; 1 male : Murmanküste, Westnik bei Alexandrowsk, W. Richter S.G., 22.7.26. (Don.); 1 female : *trompe* det. Brauer; 1 male : Magadansk. obl., p. okolon, kegalí vpylozh. 4. 7. 68, sb. Gomoyunova - "*Cephenomyia trompe* Modeer det. Gomojunova".

Cephenemyia ulrichii (Brauer, 1862)

1 male : "20. 7. 29." - "*C. ulrichi* Br. female Rossitten K.N. 20.7.1929 (Don.); 1 male : "*C. ulrichi* Br. Rossitten K.N. 16.7.1929. male " (Don.) - 4917; 1 female (?): r. Kulumbe, B. Solontzy, 20-23. 7-38., K. Grunin - "*Cephenomyia ulrichi* Brau. det. Grunin".

Oestrinae

Oestrus ovis Linnaeus, 1758

1 male : "Laserberg." Coll. Brauer - "*ovis*" det. Brauer; 1 male : D. S. W. Afrika, Schoben S, v. Linstow G. (Don.); 1 female : Engdener Wüste (Emsland), 12.8.36., Fr. Vornefeld leg. (Don.); 1 female : Walouiki, R.m., Velitchkovsky; 1 female : Jordan, Jericho, J. Klapperich - 250 m.u.M., 7.IV.1958; 1 female : S.Arg.{entina}, Rio Negro, El Bolsón, Topál - Nr. 269, 13.II.61.; 1 female : S.Arg.{entina}, Chubut - Nr. 262, 9.II.61.; 9 male : Mongolia, Ongon somon, 25 km NW, on the car, 30 June, 9-11 a.m., leg. L. Sugár, 1978; 5 male 4 female : id., 29 June, 5 p.m.; 6 male 10 female : Mongolia, Ongon somon, 20 km SE, leg. L. Sugár, 1978, on rocks, 17 May; 10 male 15 female : id., 18 June, 10 a.m. - 2 p.m.; 11 male 2 female : id., 19 June, ca 10 a.m.; 12 male 6 female : id., 19 June, 5-6 p.m.; 11 male 1 female : 20 June, 11 a.m.; 8 male 4 female : id., 20 June, 5 p.m.; 3 male 10 female : id., 22 June, 7 p.m.; 1 male (with pupal shell): Issik-kul", obl {illeg.} 14-17 VII 93 - "*Oestrus ovis* det. Grunin"; 3 female : Fülöpháza, 1980. VI. 26., leg. Papp J. 138 ex.

***Rhinoestrus latifrons* Gan, 1947**

1 male : Mongolia: Bajanchongor aimak, 4 km S von Somon Zinst, Tujn gol, 1480 m, Exp. Dr. Z. Kaszab, 1964 - Nr. 200, 26.VI.1964 - "*Rhinoestrus latifrons* Gan, Grunin det. 1966". This species with the above data was published by Grunin (1969b) but omitted from the Catalogue of Palaearctic Diptera (Soós and Minár 1986); there only Uzbekistan is given for distribution.

***Rhinoestrus purpureus* (Brauer, 1858)**

1 male : Zhana-Arka, Kazakhs. 29.6.958, Versh. sopki, A. Zagulyaev- "*Rhinoestrus purpureus* Brau. det. Grunin"; 1 male : Mongolia, Ongon somon, 20 km SE, on rocks, leg. L. Sugár, 1978, 19 June, ca 10 a.m.; 1 male : id., 20 June, 11 a.m.; 1 female : 21 June, 7 a.m.; 5 female : 22 June, 7 p.m.

***Cephalopina titillator* (Clark, 1816)**

2 male : Mongolia, Ongon somon, 20 km SE, on rocks, 18 June, 1978, 10 a.m. - 2 p.m., leg. L. Sugár.

HYPODERMATIDAE

Oestromyinae

***Oestromyia leporina* (Pallas, 1778)**

1 male : Manhartsberg, Nied. Österr. A. Siebeck - Coll. Mehr (Don.) - 4922; 1 male : Leipzig, Gun., "19.9.26.", A. Schulze Leipzig - "*Oestromyia satyrus* Brau." (Don.); 2 male : Z. Sayan, okr. pos. Bujba, Grunin, 31.VII.963 - "*Oestromyia leporina* Pall." det. Grunin; 1 male : Teba. Kuznetsk. Alatau, 4.7.962, Grunin - "*Oestromyia leporina* Pall." det. Grunin; 6 male 2 female : Bükk-hg., Létrás, rét - 1962.IX.27., leg. Tóth S.; 3 male : id., X.4.; 1 male : Bükki N.P., Répáshuta, Csúnya-völgy {valley} - 350 m, 1984.IX.19., leg. Merkl O.

***Oestromyia marmotae* Gedoelst, 1915**

1 male : Anzobskij per., 10.7.56., K. Grunin - "*Oestromyia marmotae* Ged. det. Grunin".

Hypodermatinae

***Oedemagena tarandi* (Linnaeus, 1758)**

1 male : "N. Norw. Stauding." - "*tarandi* L." (Don.); 1 male 1 female : Lappland, Tornekrask; 1 female : coll. Dr. Armin Bau - female (Don.); 1 female : Magadansk. obl., p. okolok, kegali, otlov. 18.8.68. sb. Gomojunova - "*Oedemagena tarandi* L. det. Gomojunova"; 1 male : Lantakajsk. Kamen', r. Savel'evka, vylet., 7 VII 1967, F. V. Savel'ev - "*Oedemagena tarandi* L. det. Grunin".

Hypoderma actaeon Brauer, 1858

1 male 1 female : male / female - Österreich coll. Brauer - *Actaeon* det. Brauer; 1 male : "*Hypoderma actaeon* male Brauer" - "*Hypoderma actaeon*, Brauer" - "*Hypoderma actaeon* Brau. det. Grunin". This last one is probably a syntype specimen.

Hypoderma bovis (Linnaeus, 1758)

1 female : Bishopp No 10110 - Middletown, 6-9-22, NY, "*Hypoderma bovis* L." det. E. Kirchberg (Don.) - 4919; 1 female : "Bregomer {Bregenzer?} Wald" - "*Hypoderma bovis* De Geer female" det. L. Czerny; 2 pupal shells: Coll. Bgst. /Kern; 1 female : Tsentr. ajm. MNR, VII 965, Mungun mor't somon, u stada, Tsend Dorzh - "*Hypoderma bovis* D.G. det. Grunin"; 1 female : Szécsény, Várkert {Castle Garden}, 1960. VI. 14., Liphay B. - "*Hypoderma bovis* female" Det. J. Minár.

Hypoderma diana Brauer, 1858

1 male : Oberursel i.T., 25.5.1904, Sack - coll. Dr. Armin Bau (Don.); 1 male : Spitz, 5.92., Bgst. {Bergenstamm}; 1 female : Prov. Brandenbg. Coll. Mehr - "*Hypoderma diana* Br. female" Dr. Enderlein det. 1920 (Don.); 1 female : *Actaeon* det. Brauer {}; 1 male : Krymsk. zapovedn., Bukovskij - 20.IV.1934, bl. Asporta - "*Hypoderma diana* Brau. det. Grunin"; 2 male : Csákyár, Fennsík {plateau} - 1961.IV.11. leg. Zsirkó - "*Hypoderma diana* male Det. J. Minár"; 6 male : KNP: Ócsa, 1985.IV.26., leg. Bessenyi; 7 male : id., IV. 19.; 1 male : KNP: Agasegyháza, erdő {forest} - 1979.V.4. leg. Draskovits; 1 male 1 female : Csévharaszt, 82.V.6., Vály; 1 male : Máriabesnyő, 1960.04.15., leg. Podlussány A.; 1 male : Tarany, 1982. V. 19-20.; 3 male 2 female : Gyulaj, 1974. II. - kelt {reared} 1974.III. őzből {from red deer}, leg. Sugár L. - *Hypoderma diana* Brauer, det. Sugár L.; 1 male : Nógrádszakál, Ráros - 1958.IV.25., leg. Liphay B. - "*Hypoderma diana* male Det. J. Minár"; 1 male : Bükk-hg., erdő {forest}, 1957.IV.27. - Tardi-patak völgye {Tardi creek valley} - leg. Tóth S. - "*Hypoderma diana* male Det. J. Minár"; 1 male : Mecsek hgys. {mountains}, leg. Gebhardt - Lapis, 1957.IV.5. - "*Hypoderma diana* male Det. J. Minár"; 1 male : Aggteleki N.P.: Szögliget: Derenk, 1988.V.4., leg. Merkl O.; 1 male : ANP: Szögliget, Ménes-völgy, útról {on road}, 1988.V.12., leg. Papp L.; 3 male 1 female : id., 89.V.18.; 1 male 1 female : ANP: Aggtelek, Ménes-völgy, útról {on road}, 1988.V.10., leg. Papp L.; 1 female : Bakonysz.lászló - ősfenyves {native pinewoods} - 1960.V.18., leg. Zsirkó - *Hypoderma diana* female Det. J. Minár"; 1 female : Hortobágy N.P., Ujszentmargita - Peucedanum-os rét {meadow with Peucedanum} - 1975.IV.21., leg. Papp L.; 1 female : Csévharaszt - borókás {juniper grove} - 1972.IV.8., leg. Mihályi; 1 female : Fejér m., Szár, Zuppa h.; 1 female : Kerecsend, védett erdő {protected forest} - 1987.IV.30., leg. Papp L.

Hypoderma lineatum (De Villiers, 1789)

1 male : "Ober. Engadin" - "*Hypoderma lineatum* Vill."; 1 male : "*Cephalon*. Kruper" - 763 (Don.) - 4920; 1 female : "Hochalpen, Bregenzer Wald"; 1 female : Lamar. Colo., Jan 1932 - "*Hypoderma lineatum* Villers" det. E. Kirchberg (Don.); 1 male : Azerb. SSR, iz kukolki {from pupae} 1961, Breev - "*Hypoderma lineatum* De V. det. Grunin"; 1 female : Mung. r-n GBAO, yak, vylet 1974, Davlyatkabamov - "*Hypoderma lineatum* De V. det. Grunin".

PAPP, L.: Bagócslegyek (Diptera: Gasterophilidae, Oestridae, Hypo-ermatidae) a Természettudományi Múzeum gyűjteményében. I. Imágók

A szerző ismerteti a budapesti Természettudományi Múzeum gyűjteményének bagócslegy imágóit. A régi gyűjtemény 1956-ban elégett, az új gyűjtemény külföldi múzeumok adományaiából és az elmúlt 33 év gyűjtéseiből, köztük KASZAB Zoltán és SUGÁR László mongóliai gyűjtéseiből származik. A mai gyűjtemény 23 faj 321 egyedét tartalmazza (*Gasterophilidae*: 7 faj, 55 egyed, *Oestridae*: 9 faj, 183 egyed, *Hypodermatidae*: 7 faj, 83 egyed). A bagócslegy imágók igen rövid életűek, némelyik fajuk kipusztulóban van, így a TTM gyűjteménye európai szinten sem jelentéktelen.

A szerző igyekezett a gyűjteményi adatokat (a cédulák szövegét) olyan pontosan közölni, hogy minden példány a későbbiekben is visszakereshető legyen. A bagócslárvák gyűjteményének adatait majd külön közlemény foglalja össze.

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