

**New contributions to the knowledge of the Macrolepidoptera
fauna of Mongolia (Lepidoptera: HesperIIDae, Lycaenidae,
Noctuidae, Nymphalidae, Pieridae)**

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Abstract – Faunistic records of 296 species of the lepidopterous families HesperIIDae (4), Lycaenidae (17), Noctuidae (244), Nymphalidae (12), Pieridae (5) and Satyridae (14) from Mongolia as a result of a collecting trip carried out in 2006 are presented. A list of the 24 collecting sites and the used methods with brief descriptions is given. Nineteen taxa are recorded as new for Mongolia.

Key words – Faunistics, Hungarian expeditions, Macrolepidoptera, new records.

INTRODUCTION

In summer 2006 a new lepidopterological collecting trip to Mongolia was launched. It was organised and supported by the Hungarian Natural History Museum in the frame of the program BioPhot supervised by ZSOLT BÁLINT. The aim of the trip was twofold. First it had the intent to collect faunistic data and material in the less explored regions for the Mongolian volume of the project Butterflies of Palaearctic Asia by VADIM TSHIKOLOVETS, Kyiv (TSHIKOLOVETS *et al.* 2009) and for taxonomic revisions on various Noctuidae families in the Hungarian Natural History Museum. The second objective was to collect ecological data and material for a statistical analysis of a local fauna – a fauna that is rich in day-flying lepidopterans with structural colours. In this paper we publish the collecting data of the material captured during the trip.

MATERIALS AND METHODS

In general, diurnal moths, skippers and butterflies were collected using traditional net. According to the aim of the expedition two sites (No. 42 and No. 50) were sampled for more thorough analysis. In these places a 500 m long transect was designated. The vegetation types along the transects were mapped. The weather conditions were recorded, and the sites were sampled by the three members of the expedition in a line of 15 m (with 5 m distance between persons).

Night active moths were collected on light applying a 250 W mercury vapour bulb illuminating a white sheet, plus four portable (semi-automatic) light traps with 8 W UV tubes, usually two of them powered by generator, two of them having their own accumulator.

Specimens were arranged onto cotton layers after daytime sampling in the afternoon or every morning after night collecting activities *in situ*. The collecting sites were numbered according to the BioPhot numbering protocol (for Nos 1–30 see BÁLINT *et al.* 2006). Specimens were pinned, labelled and set subsequently in the laboratory of the HNHM. Besides the collecting data all specimens got the inventory label “H.N.H.M., coll. Lepidoptera, 2008–60, BioPhot expedition”, and are deposited in the Lepidoptera collection of HNHM (Hungarian Natural History Museum).

Alphabetical order is used within the higher categories Noctuoidea and Papilionoidea as well as within families. The number(s) of the collecting site(s) (with the number of the collected specimens in brackets) is (are) given for every species captured. Species marked with an asterisk (*) proved to be new to the fauna of Mongolia.

LIST OF THE COLLECTING EVENTS

- No. 31. Mongolia, Töv aimag, 18 km N of Bayanchandmani, N48°20.916', E106°14.436', 1,276 m, 15.VII.2006, leg. BABICS, BENEDEK & KUN. – Forest clearing with extremely rich altoherbosa vegetation; butterfly collecting using nets.
- No. 32. Mongolia, Töv aimag, 18 km N of Bayanchandmani, N48°20.916', E106°14.436', 1,276 m, 15.VII.2006, leg. BABICS, BENEDEK & KUN. – Forest clearing with extremely rich altoherbosa vegetation; collecting at light.
- No. 33. Mongolia, Töv aimag, 58 km north of Delgertsogt, N46°38.154', E106°33.128', 1,374 m, 16.VII.2006, leg. BABICS, BENEDEK & KUN. – Sandy semi-desert with sparse vegetation; collecting at light supported by portable light traps.
- No. 34. Mongolia, Ömnögovi aimag, 20 km SSW of Tsogt-Ovoo, N44°16.703', E105°09.565', 1,264 m, 17.VII.2006, leg. BABICS, BENEDEK & KUN. – Sandy desert with very sparse vegetation; collecting with portable light traps.
- No. 35. Mongolia, Ömnögovi aimag, Gurvan Sayhan Mts, Yolinam, N43°29.836', E103°59.839', 2,377 m, 18.VII.2006, leg. BABICS, BENEDEK & KUN. – Dry high mountain side valley with sparse vegetation of *Juniperus* and *Artemisia*; collecting at light supported by portable light traps.

- No 36. Mongolia, Ömnögovi aimag, Gurvan Sayhan Mts, 20 km NW of Tohom village, N43°41.655', E103°07.128', 2,018 m, 19.VII.2006, leg. BABICS, BENEDEK & KUN. – Extremely dry rocky valley with sparse vegetation; collecting at light supported by portable light traps.
- No. 37. Mongolia, Gobi Altay aimag, Gichgeniy Mts, 26 km W of Chandmani, N45°2.822', E97°39.822', 2,679 m, 23.VII.2006, leg. BABICS, BENEDEK & KUN. – Cold high mountain river valley with diverse vegetation; collecting with portable light traps.
- No. 38. Mongolia, Gobi Altay aimag, Gichgeniy Mts, 26 km W of Chandmani, N45°22.822', E97°39.822', 2,679 m, 23.VII.2006, leg. BABICS, BENEDEK & KUN. – Cold high mountain river valley with diverse vegetation; butterfly collecting.
- No. 39. Mongolia, Gobi Altay aimag, Khasagt Khayrkhan Mts, 12 km W of Altay, N46°23.949', E96°05.873', 2,130 m, 24.VII.2006, leg. BABICS, BENEDEK & KUN. – Rocky valley, sparse vegetation; butterfly collecting.
- No. 40. Mongolia, Gobi Altay aimag, Khasagt Khayrkhan Mts, 12 km W of Altay, N46°23.949', E96°05.873', 2,130 m, 24.VII.2006, leg. BABICS, BENEDEK & KUN. – Rocky valley, sparse vegetation; collecting at light supported by portable light traps.
- No. 41. Mongolia, Gobi Altay aimag, Mongol Altay Mts, Sutay Mt. 16 km SE of Tonhil, N46°11.318', E94°00.955', 2,032 m, 25.VII.2006, leg. BABICS, BENEDEK & KUN. – *Astragalus* and *Artemisia* sandy steppe with rich vegetation on the hillslides; sheltered basin in the mountains bordering the desert; collecting at light supported by portable light traps.
- No. 42. Mongolia, Hovd aimag, Mongol Altay Mts, 100 km SW of Tonhil, N45°57.461', E93°14.957', 2,099 m, 26.VII.2006, leg. BABICS, BENEDEK & KUN. – Valley and smaller side valleys with rocky slopes and diverse vegetation; butterfly collecting.
- No. 43. Mongolia, Hovd aimag, Mongol Altay Mts, 100 km SW of Tonhil, N45°57.461', E93°14.957', 2,099 m, 26.VII.2006, leg. BABICS, BENEDEK & KUN. – Valley and smaller side valleys with rocky slopes and diverse vegetation; collecting at light and with portable light traps.
- No. 44. Mongolia, Hovd aimag, Mongol Altay Mts, 30 km N of Uyench, Uyench river valley, N46°22.978', E92°07.856', 1,916 m, 27.VII.2006, leg. BABICS, BENEDEK & KUN. – Brook valley with *Salix* stands and rocky slopes with diverse bushy vegetation; collecting with portable light traps.
- No. 45. Mongolia, Hovd aimag, Mongol Altay Mts, Mönkh Khayrkhan Mts, 6 km W of Tsenkher, N47°03.502', E91°47.469', 2,576 m, 28.VII.2006, leg. BABICS, BENEDEK & KUN. – High altitude mountain steppe with diverse vegetation; butterfly collecting.
- No. 46. Mongolia, Hovd aimag, Mongol Altay Mts, Mönkh Khayrkhan Mts, 6 km W of Tsenkher, N47°03.502', E91°47.469', 2,576 m, 28.VII.2006, leg. BABICS, BENEDEK & KUN. – High altitude mountain steppe with diverse vegetation; collecting at light supported by portable light traps.

- No. 47. Mongolia, Gobi Altay aimag, Mongol Altay Mts, Sutay mt. 16 km SE of Tonhil, N46°11.318', E94°00.955', 2,032 m, 29.VII.2006, leg. BABICS, BENEDEK & KUN. – *Astragalus* and *Artemisia* sandy steppe with rich vegetation on the hillslides; sheltered basin in the mountains bordering the desert; collecting at light supported by portable light traps.
- No. 48. Mongolia, Gobi Altay aimag, 60 km E of Altay, N46°11.336', E96°59.669', 2,395 m, 30.VII.2006, leg. BABICS, BENEDEK & KUN. – Rocky semi-arid steppe with sparse vegetation; collecting with portable light traps.
- No. 49. Mongolia, Bayanhongor aimag, 40 km W of Bayanhongor, N46°11.751', E99°48.638', 2,006 m, 31.VII.2006, leg. BABICS, BENEDEK & KUN. – Rocky semi-arid steppe with sparse vegetation; collecting at light supported by portable light traps.
- No. 50. Mongolia, Övörkhangay aimag, Khan Khögshin Mts, 81 km SW of Arvaykheer, N45°51.755', E101°55.726', 1,884 m, 1.VIII.2006, leg. BABICS, BENEDEK & KUN. – Rocky semi-arid steppe with rich vegetation; butterfly collecting.
- No. 51. Mongolia, Övörkhangay aimag, Khan Khögshin Mts, 81 km SW of Arvaykheer, N45°51.755', E101°55.726', 1,884 m, 1.VIII.2006, leg. BABICS, BENEDEK & KUN. – Rocky semi-arid steppe with rich vegetation; collecting at light supported by portable light traps.
- No. 52. Mongolia, Bulgan aimag, 22 km w of Rhaasant, Mongol els, N47°20.23', E103°40.040', 1,244 m, 3.VIII.2006, leg. BABICS, BENEDEK & KUN. – Sand dunes with light *Betula* forests; collecting at light supported by portable light traps.
- No. 53. Mongolia, Töv aimag, 18 km N of Bayanchandmani, N48°20.916', E106°14.436', 1,276 m, 4–5.VIII.2006, leg. BABICS, BENEDEK & KUN. – Forest clearing with extremely rich altoherbosa vegetation; butterfly collecting.
- No. 54. Mongolia, Töv aimag, 18 km N of Bayanchandmani, N48°20.916', E106°14.436', 1,276 m, 4–5.VIII.2006, leg. BABICS, BENEDEK & KUN. – Forest clearing with extremely rich altoherbosa vegetation; collecting at light supported by portable light traps.

RESULTS

Noctuoidea: Noctuidae

- Abrostola kaszabi* DUFAY, 1971 – No. 36 (1), No. 51 (14), No. 54. (1)
Acrionicta concerpta (DRAUDT, 1937) – No. 32 (3)
Acrionicta psi (LINNAEUS, 1758) – No. 32 (1)
Acrionicta rumicis (LINNAEUS, 1758) – No. 32 (1)
Acrionicta intermedia (WARREN, 1909) – No. 36 (1), No. 51 (8), No. 53. (3)
Acrionicta strigosa ([DENIS et SCHIFFERMÜLLER], 1775) – No. 32 (1)
Acrionicta vulpina leporella STAUDINGER, 1888 – No. 32 (1)
Actebia praecurrens (STAUDINGER, 1888) – No. 54 (1)
Agrotis characteristica (ALPHÉRAKY, 1892) – No. 43 (3)
Agrotis clavis amurensis (STAUDINGER, 1892) – No. 35 (1), No. 36 (2)

- Albocosta musiva sheljuzhkoii* (KOVÁCS et VARGA, 1971) – No. 54 (77)
Ammogrotis suavis STAUDINGER, 1895 – No. 41 (1), No. 43 (12), No. 44 (6), No. 48 (1),
No. 49 (4)
Amphipoea fucosa (FREYER, 1830) – No. 44 (1), No. 52 (5), No. 54 (12)
Amphipyra perflua (FABRICIUS, 1787) – No. 54 (2)
Anaplectoides prasina ([DENIS et SCHIFFERMÜLLER], 1775) – No. 32 (2), No. 54 (2)
Aneda rivularis pacifica HACKER, 1996 – No. 32 (1), No. 54 (5)
Apamea crenata (HUFNAGEL, 1766) – No. 32 (1)
Apamea ingloria (BANG-HAAS, 1912) – No. 35 (1), No. 37 (1), No. 46 (5)
Apamea lateritia (HUFNAGEL, 1766) – No. 32 (1), No. 41 (1), No. 32 (1)
Apamea leucodon (EVERSMANN, 1837) – No. 46 (1)
Apamea oblonga (HAWORTH, 1809) – No. 52 (3)
Apamea remissa (HÜBNER, 1809) – No. 52 (1)
**Apamea rubrivena* (TREITSCHKE, 1825) – No. 32 (1)
Apopestes phantasma (EVERSMANN, 1843) – No. 44 (1)
Archanara aerata (BUTLER, 1878) – No. 52 (2)
Athaumasta expressa (LEDERER, 1855) – No. 43 (2), No. 49 (3)
Athaumasta nana (STAUDINGER, 1896) – No. 35 (2), No. 43 (2)
Athaumasta splendida BANG-HAAS, 1912 – No. 36 (4), No. 46 (2)
Athetis funesta (STAUDINGER, 1888) – No. 52 (1)
Auchmis detersina (STAUDINGER, 1897) – No. 44 (7)
Auchmis mongolica (STAUDINGER, 1896) – No. 44 (25), No. 51 (27)
Autographa buraetica (STAUDINGER, 1892) – No. 32 (7), No. 51 (2), No. 52 (8), No. 54
(15)
Autographa camptosema (HAMPSON, 1913) – No. 35 (2), No. 43 (5), No. 44 (5), No. 48
(2), No. 51 (14)
Autographa excelsa (KRETSCHMAR, 1862) – No. 54 (5)
Autographa gamma (LINNAEUS, 1758) – No. 36 (1), No. 46 (3)
Autographa macrogamma (EVERSMANN, 1842) – No. 32 (1), No. 54 (4)
**Autophila asiatica* (STAUDINGER, 1888) – No. 43 (4)
Autophila glebicolor (ERSHOV, 1874) – No. 41 (1), No. 43 (9), No. 46 (1), No. 48 (1), No.
49 (1), No. 51 (14)
**Autophila rasilis* (PÜNGELER, 1906) – No. 44 (1)
Autophila tetrastigma BOURSIN, 1940 – No. 34 (1), No. 36 (1)
Autophila vespertalis STAUDINGER, 1896 – No. 34 (3), No. 51 (3)
Brachylomia viminalis asiatica (BANG-HAAS, 1907) – No. 54 (2)
Bryoxena centralasiae bryochlora VARGA, RONKAY et HACKER, 1990 – No. 41 (8), No. 43
(2), No. 44 (1), No. 46 (3), No. 47 (4)
Calyptra thalictri (BORKHAUSEN, 1790) – No. 54 (10)
Cardepija irrisoria nigrescens HACKER, 1998 – No. 49 (1)
Cardiostrea gobideserti mandalgori VARGA et RONKAY, 1991 – No. 33 (5), No. 35 (1)
Catocala deuteronympha STAUDINGER, 1861 – No. 52 (1)
Catocala helena EVERSMANN, 1856 – No. 52 (8), No. 54 (3)
Catocala remissa STAUDINGER, 1892 – No. 35 (3), No. 36 (16)

- Ceramica pisi* (LINNAEUS, 1758) – No. 32 (3), No. 54 (2)
Cerapteryx graminis (LINNAEUS, 1758) – No. 54 (1)
Chersotis deplanata (EVERSMANN, 1843) – No. 54 (25)
 * *Chersotis leucostola* VARGA et RONKAY, 1996 – No. 43 (16)
Chersotis transiens (STAUDINGER, 1897) – No. 32 (1), No. 37 (4), No. 34 (4), No. 35 (1),
 No. 51 (1)
Chortodes elymi procerata (STAUDINGER, 1889) – No. 32 (1), No. 35 (12), No. 36 (1), No. 44
 (9), No. 51 (1), No. 52 (7)
Chortodes extrema calamoxantha (VARGA, 1984) – No. 52 (9)
Chortodes improba (STAUDINGER, 1898) – No. 52 (9)
Chortodes stigmatica (EVERSMANN, 1855) – No. 32 (17), No. 51 (1), No. 52 (1)
Chrysorhtrum flavomaculata (BREMER, 1861) – No. 32 (1)
Conisania arida (LEDERER, 1857) – No. 36 (1)
Conisania unica (LEECH, 1889) – No. 36 (2)
Cornutifera simplex (STAUDINGER, 1889) – No. 37 (1), No. 43 (1), No. 46 (1)
 * *Cryphia granitalis* (BUTLER, 1881) – No. 32 (1)
Cryphia orthogramma BOURSIN, 1954 – No. 36 (13), No. 43 (1), No. 44 (3), No. 49 (5)
 * *Cryphia tapaishana* – No. 44 (3)
Cryptocala chardinyi (BOISDUVAL, 1828) – No. 32 (10)
Ctenoceratoda argyrea VARGA, 1992 – No. 34 (1), No. 36 (1), No. 41 (1), No. 47 (4)
Ctenoceratoda graeseri (PÜNGELER, 1898) – No. 43 (1)
Ctenoceratoda peregovitsi VARGA et GYULAI, 1999 – No. 41 (15), No. 44 (1), No. 47 (13)
Ctenoceratoda sukharevae (VARGA, 1974) – No. 41 (55), No. 43 (5), No. 44 (4), No. 47
 (194)
Ctenoceratoda zetina (STAUDINGER, 1900) – No. 35 (20), No. 37 (3), No. 41 (2), No. 43
 (26), No. 44 (4), No. 46 (25), No. 47 (10)
Cucullia kurilullia expulsa RONKAY et RONKAY, 2009 – No. 44 (4), No. 54 (1)
 * *Cucullia absinthii* (LINNAEUS, 1761) – No. 44 (1)
Cucullia argentea (HUFNAGEL, 1766) – No. 33 (1), No. 51 (4), No. 52 (4), No. 54 (3)
Cucullia artemisiae (HUFNAGEL, 1766) – No. 32 (2), No. 52 (2), No. 54 (1)
Cucullia asteris ([DENIS et SCHIFFERMÜLLER], 1775) – No. 32 (3), No. 54 (10)
Cucullia biornata FISCHER VON WALDHEIM, 1840 – No. 35 (1)
Cucullia biradiata KOZHANCHIKOV, 1925 – No. 51 (1)
Cucullia cineracea FREYER, 1842 – No. 44 (4)
Cucullia infuscata (TSHETVERIKOV, 1925) – No. 32 (2), No. 33 (1), No. 35 (2), No. 36 (5),
 No. 52 (1)
Cucullia dimorpha STAUDINGER, 1896 – No. 41 (1), No. 47 (1), No. 52 (27)
Cucullia distinguenda STAUDINGER, 1892 – No. 35 (1), No. 37 (1), No. 43 (1), No. 49 (1),
 No. 51 (1), No. 52 (1), No. 54 (1)
Cucullia duplicata STAUDINGER, 1882 – No. 33 (1), No. 35 (7), No. 48 (4), No. 49 (4), No.
 52 (2)
Cucullia elongata acutipennis RONKAY et RONKAY, 2009 – No. 32 (1)
Cucullia fuchsiana EVERSMANN, 1842 – No. 32 (8), No. 54 (8)

- Cucullia hannemanni* VARGA, 1976 – No. 35 (3), No. 36 (2), No. 37 (2), No. 41 (16), No. 43 (2), No. 46 (2), No. 47 (4), No. 51 (3)
- Cucullia humilis* BOURSIN, 1941 – No. 54 (8)
- Cucullia lindei* HEYNE, 1899 – No. 54 (2)
- Cucullia lucifuga* ([DENIS et SCHIFFERMÜLLER], 1775) – No. 33 (1), No. 54 (1)
- Cucullia maracandica* STAUDINGER, 1888 – No. 36 (2), No. 41 (1), No. 47 (2)
- Cucullia papoka* RONKAY et RONKAY, 1986 – No. 35 (3), No. 36 (1), No. 41 (6), No. 43 (23), No. 44 (3), No. 46 (2), No. 47 (45), No. 48 (2), No. 49 (6), No. 51 (30)
- Cucullia praecana* EVERSMAAN, 1843– No. 54 (1)
- Cucullia propinqua* EVERSMAAN, 1842 – No. 32 (43), No. 33 (1), No. 54 (1)
- * *Cucullia scoparioides* BOURSIN, 1941 – No. 52 (1)
- Cucullia splendida* (STOLL in CRAMER, 1777) – No. 33 (16), No. 35 (3), No. 36 (1), No. 40 (4), No. 41 (23), No. 43 (8), No. 46 (1), No. 47 (16), No. 48 (2), No. 49 (4), No. 51 (9), No. 52 (21), No. 54 (2)
- Cucullia tescorum* PÜNGELER, 1909 – No. 36 (1), No. 47 (2)
- Cucullia umbratica* (LINNAEUS, 1758) – No. 41 (2), No. 44 (4), No. 52 (3)
- Cucullia umbristriga* ALPHÉRAKY, 1892 – No. 47 (3)
- Cucullia virgaureae cinnamona* RONKAY et RONKAY, 1987 – No. 54 (3)
- Diachrysis chrysis* (LINNAEUS, 1758) – No. 32 (12), No. 52 (2), No. 54 (29)
- Diachrysis zosimi* (HÜBNER, 1822) – No. 32 (1)
- Diarsia brunnea* ([DENIS et SCHIFFERMÜLLER], 1775) – No. 32 (3), No. 33 (1)
- Diarsia dahlii nana* (STAUDINGER, 1896) – No. 54 (1)
- Diarsia mendica lamentanda* (ALPHÉRAKY, 1897) – No. 54 (1)
- Dichagyris clara gobialtaica* VARGA, 1996 – No. 43 (1), No. 44 (1)
- Dichagyris himalayensis despecta* (CORTI et DRAUDT, 1933) – No. 44 (11), No. 46 (2)
- Dichagyris ignara* (STAUDINGER, 1896) – No. 51 (12)
- Dichagyris kaszabi* VARGA, 1971 – No. 35 (1), No. 36 (2), No. 40 (6), No. 41 (4), No. 44 (3), No. 47 (24)
- Dichagyris melanuroides* KOZHANCHIKOV, 1930 – No. 44 (1)
- Dichagyris pudica* (STAUDINGER, 1896) – No. 40 (2), No. 41 (10), No. 47 (25)
- Dichagyris spissilinea* (STAUDINGER, 1896) – No. 46 (2)
- Dichagyris verecunda* (PÜNGELER, 1898) – No. 44 (1)
- * *Drasteria caucasica* (KOLENATI, 1846) – No. 44 (1)
- Drasteria chinensis* (ALPHÉRAKY, 1892) – No. 34 (7)
- Drasteria mongoliensis* WILTSHIRE, 1969 – No. 52 (3)
- Drasteria rada* (BOISDUVAL, 1848) – No. 33 (1)
- Enargia paleacea* (ESPER, 1788) – No. 54 (5)
- Eremobina pabulatricula* (BRAHM, 1791) – No. 54 (1)
- Eremohadena adscripta* (PÜNGELER, 1914) – No. 33 (1), No. 41 (2), No. 44 (2), No. 46 (2)
- Eremohadena pexa* (STAUDINGER, 1889) – No. 33 (1), No. 37 (1)
- Eremophysa acharis* (PÜNGELER, 1901) – No. 44 (1)
- Estimata* sp. near *herrichschaefferi* – No. 37 (6)
- Estimata herrichschaefferi* (ALPHÉRAKY, 1895) – No. 46 (1), No. 51 (1)
- Eublemma rosea* (HÜBNER, 1802) – No. 43 (1), No. 44 (1), No. 46 (1), No. 51 (12)

- Euchalcia renardi* (EVERSMANN, 1844) – No. 32 (13), No. 33 (1)
Euchalcia mongolica (STAUDINGER, 1901) – No. 32 (1)
Euclidia fortalitium (TAUSCHER, 1809) – No. 33 (1)
Eugnorisma insignata (LEDERER, 1853) – No. 44 (2)
Eurois occulta (LINNAEUS, 1758) – No. 32 (1), No. 33 (1), No. 48 (1), No. 51 (1), No. 52 (3), No. 54 (7)
Euxoa currens (STAUDINGER, 1897) – No. 52 (1)
Euxoa decorans (STAUDINGER, 1896) – No. 43 (2), No. 44 (5), No. 46 (10), No. 51 (19)
Euxoa inexpectata (ALPHÉRAKY, 1897) – No. 33 (1), No. 49 (1)
Euxoa lidia adumbrata (EVERSMANN, 1842) – No. 32 (2)
Euxoa novoobscurior BRYK, 1948 – No. 52 (2), No. 54 (1)
Euxoa puengeleri (F. WAGNER, 19139) – No. 37 (1)
Euxoa recussa (HÜBNER, [1814–1817]) – No. 54 (9)
Euxoa subconspicua (STAUDINGER, 1888) – No. 35 (1), No. 36 (9), No. 37 (1), No. 41 (2)
Euxoa tristis (STAUDINGER, 1898) – No. 43 (3), No. 46 (9)
Graphiphora augur punctinotata (WARREN, 1914) – No. 33 (1), No. 52 (3)
Hadena aberrans (EVERSMANN, 1856) – No. 33 (3), No. 51 (3), No. 52 (1)
Hadena albimacula (BORKHAUSEN, 1792) – No. 43 (13), No. 44 (9)
**Hadena cailinita* (DRAUDT, 1934) – No. 44 (3)
Hadena compta ([DENIS et SCHIFFERMÜLLER], 1775) – No. 43 (5), No. 44 (1)
Hadena corrupta (HERZ, 1898) – No. 32 (2), No. 41 (2), No. 46 (6), No. 51 (1), No. 52 (11), No. 54 (2)
Hadena gyulaii HACKER, 1996 – No. 37 (1), No. 43 (4), No. 46 (34)
Hadena strouhali oxyptera HACKER et RONKAY, 1992 – No. 44 (2), No. 46 (1), No. 49 (3), No. 51 (12)
Hadena variolata dealbata (STAUDINGER, 1892) – No. 32 (1), No. 35 (1), No. 37 (2), No. 41 (4), No. 43 (14), No. 44 (3), No. 51 (3), No. 52 (1), No. 54 (1)
Hadula imperspicua mandschurica HACKER, 1998 – No. 35 (2), No. 44 (1)
Hadula sabulorum distincta HACKER, 1998 – No. 47 (2)
Hadula schawyra (O. BANG-HAAS, 1927) – No. 47 (1)
Hadula stigmosa (CHRISTOPH, 1887) – No. 33 (4), No. 52 (2)
Hedina deccerti HAMPSON, 1908 – No. 46 (1), No. 54 (9)
Heliophobus texturata kitti (SCHAWERDA, 1914) – No. 32 (2)
Heliophobus unicolor (ALPHÉRAKY, 1892) – No. 43 (2), No. 47 (1)
Heliothis maritima centralasiae DRAUDT, 1938 – No. 32 (1)
Hydraecia mongoliensis URBAHN, 1967 – No. 54 (4)
**Hypocala* sp. 1. – No. 35 (1)
**Hypocala* sp. 2. – No. 36 (1)
Hyssia cavernosa kaszabi KOVÁCS, 1968 – No. 32 (1)
**Ipimorpha contusa* (FREYER, 1849) – No. 54 (1)
Ipimorpha retusa (LINNAEUS, 1761) – No. 54 (3)
**Ipimorpha subtusa* ([DENIS et SCHIFFERMÜLLER], 1775) – No. 54 (1)
Isochlora viridissima STAUDINGER, 1882 – No. 37 (3)
Isochlora viridis STAUDINGER, 1882 – No. 37 (4)

- Lacanobia mongolica* BEHOUNEK, 1992 – No. 33 (1)
- * *Lamprotes c-aureum* (KNOCH, 1781) – No. 54 (2)
- Lasionycta imbecilla* (FABRICIUS, 1794) – No. 32 (2)
- Lasionycta orientalis* (ALPHÉRAKY, 1882) – No. 43 (7), No. 44 (3)
- Lasionycta proxima cana* (EVERSMANN, 1841) – No. 43 (1)
- Ledereragrotis difficilis* (ERSHOV, 1887) – No. 51 (2), No. 54 (9)
- Litoligia* sp. n. – No. 54 (6)
- Lygephila lubrica* (FREYER, 1842) – No. 32 (1), No. 36 (5), No. 44 (3), No. 47 (9), No. 51 (1)
- Lygephila ludicra gracilis* (STAUDINGER, 1879) – No. 32 (1), No. 43 (4), No. 44 (3), No. 51 (1)
- Lygephila pastinum* (TREITSCHKE, 1826) – No. 32 (1)
- Macdunnoughia confusa* (STEPHENS, 1850) – No. 36 (1), No. 47 (1)
- * *Macdunnoughia purissima* (BUTLER, 1884) – No. 36 (1)
- Micromima* sp. – No. 36 (1)
- Mniotype adusta vicina* (ALPHÉRAKY, 1892) – No. 32 (4)
- Mythimna albiradiosa* (EVERSMANN, 1852) – No. 33 (1)
- Mythimna atrata* REMM et VIIDALEPP, 1979 – No. 33 (4), No. 36 (1), No. 52 (2)
- Mythimna pallens* (LINNAEUS, 1758) – No. 52 (3)
- Mythimna velutina* (EVERSMANN, 1846) – No. 32 (4), No. 54 (1)
- Odice arcuinna ingrata* (HERRICH-SCHÄFFER, 1845) – No. 36 (2)
- Oncocnemis campicola* LEDERER, 1853 – No. 43 (2), No. 51 (8), No. 54 (19)
- Oncocnemis exacta mongolica* STAUDINGER, 1896 – No. 36 (3), No. 44 (7), No. 51 (71)
- Oncocnemis kaszabi* RONKAY, 1988 – No. 52 (3), No. 54 (72)
- Oncocnemis strioligera* LEDERER, 1853 – No. 43 (12), No. 44 (4), No. 51 (134)
- Opigena albifurca* (ERSHOV, 1877) – No. 33 (2), No. 46 (1), No. 51 (1), No. 53 (5)
- Palaeagrotis inops* (LEDERER, 1853) – No. 43 (1), No. 44 (1), No. 47 (4)
- Palaeagrotis sibirica* (STAUDINGER, 1896) – No. 51 (143)
- Panchrysia dives* (EVERSMANN, 1844) – No. 32 (17), No. 52 (2), No. 54 (10)
- Panchrysia ornata* (BREMER, 1864) – No. 32 (2), No. 35 (1), No. 43 (12), No. 44 (5), No. 51 (151), No. 54 (89)
- Paradiarsia punicea* (HÜBNER, [1803]) – No. 32 (4)
- Parexarnis laetifica* (STAUDINGER, 1889) – No. 37 (3), No. 41 (2), No. 43 (2), No. 44 (1), No. 46 (13), No. 47 (17), No. 49 (2)
- Parexarnis obumbrata* (STAUDINGER, 1889) – No. 43 (1), No. 44 (3), No. 46 (4)
- Parexarnis poecila* (ALPHÉRAKY, 1888) – No. 33 (8), No. 36 (1), No. 41 (1), No. 46 (4), No. 47 (2)
- Photedes captiuncula* (TREITSCHKE, 1825) – No. 54 (1)
- Platyperigea albina* (EVERSMANN, 1848) – No. 36 (1)
- Platyperigea fuscifusa* VARGA et RONKAY, 1991 – No. 35 (1), No. 36 (2), No. 41 (3), No. 43 (3), No. 44 (4), No. 47 (13), No. 51 (1)
- Platyperigea montana* (BREMER, 1861) – No. 42 (3), No. 44 (4), No. 46 (1), No. 49 (1), No. 51 (1), No. 54 (1)
- Plusidia cheiranthi* (TAUSCHER, 1809) – No. 54 (8)

- Polia altaica monotona* (BANG-HAAS, 1912) – No. 32 (4), No. 33 (3), No. 35 (21), No. 41 (1), No. 43 (1), No. 44 (4)
- Polia bombycina mongolica* (STAUDINGER, 1885) – No. 32 (4), No. 35 (4), No. 36 (1)
- Polia lama* (STAUDINGER, 1896) – No. 44 (8)
- Polia nebulosa asiatica* (STAUDINGER, 1885) – No. 32 (1)
- Polia serratilinea eremorealis* VARGA, 1973 – No. 35 (1), No. 41 (4), No. 43 (1)
- Polychrysia esmeralda* (OBERTHÜR, 1880) – No. 54 (24)
- Protexarnis confinis* (STAUDINGER, 1881) – No. 36 (1)
- Protexarnis confusa* (ALPHÉRAKY, 1882) – No. 33 (1)
- Protolampra sobrina* (DUPONCHEL, 1843) – No. 54 (8)
- Protoschinia scutata* (STAUDINGER, 1896) – No. 34 (1), No. 52 (9)
- Pseudohermonassa cicatricosa* (GRAESER, 1892) – No. 52 (4)
- Pseudohermonassa melancholica* (LEDERER, 1863) – No. 52 (2), No. 54 (8)
- Pseudohermonassa ononensis* (BREMER, 1861) – No. 52 (8)
- Resapamea hedeni* (GRAESER, 1888) – No. 37 (3), No. 52 (1), No. 54 (1)
- Resapamea megaleuca* RONKAY et VARGA, 1992 – No. 52 (92)
- Rhiza commoda* (CHRISTOPH, 1893) – No. 43 (1)
- Rhiza laciniosa odontographa* RONKAY et VARGA, 1990 – No. 44 (1), No. 47 (4), No. 51 (6)
- Rhyacia caradrinoides* (STAUDINGER, 1897) – No. 35 (5), No. 43 (1)
- Rhyacia junonia schistochroa* VARGA, 1973 – No. 37 (61), No. 44 (1), No. 46 (101), No. 47 (2)
- Rhyacia ledereri* (ERSHOV, 1867) – No. 32 (1), No. 43 (3), No. 44 (3), No. 47 (3), No. 51 (1), No. 52 (1)
- Saragossa incerta* (STAUDINGER, 1896) – No. 33 (3), No. 51 (1), No. 52 (2)
- Scotocampa sheljuzkoi* GYULAI et RONKAY, 2002 – No. 34 (1)
- Sidemia decipiens* (ALPHÉRAKY, 1895) – No. 44 (7)
- Sideridis egena* (LEDERER, 1853) – No. 35 (2), No. 36 (1)
- Spaelotis deplorata* (STAUDINGER, 1897) – No. 33 (2), No. 43 (2), No. 46 (4), No. 49 (8), No. 51 (2)
- Spaelotis sennina* BOURSIN, 1953 – No. 51 (3), No. 54 (4)
- **Standfussiana socors* (CORTI, 1925) – No. 43 (2)
- **Sineugraphe* sp. – No. 54 (4)
- Syngrapha ain persibirica* RONKAY et RONKAY, 2009 – No. 32 (1)
- Syngrapha interrogationis transbaikalensis* (STAUDINGER, 1892) – No. 54 (1)
- **Thyas juno* (DALMAN, 1823) – No. 36 (1)
- Trichosilia nigrita* (GRAESER, 1892) – No. 32 (1)
- Trichosilia plumbea* (ALPHÉRAKY, 1887) – No. 44 (4)
- Usbeca kulmburgi* (REBEL, 1918) – No. 52 (2)
- Victrix* sp. – No. 43 (2)
- Xenophysa sharhu* VARGA, 1989 – No. 46 (2)
- Xestia baja bajula* (STAUDINGER, 1881) – No. 32 (1), No. 51 (1), No. 52 (15)
- Xestia collina kenteana* (STAUDINGER, 1896) – No. 52 (1)
- Xestia descripta* (BREMER, 1861) – No. 32 (4)
- Xestia kollari* (LEDERER, 1853) – No. 54 (2)

- Xestia senescens* (STAUDINGER, 1881) – No. 37 (3), No. 43 (6)
Xestia versuta (PÜNGELER, 1908) – No. 54 (5)
Xestia wockei tundrana (BANG-HAAS, 1912) – No. 43 (3)

Papilionoidea: HesperIIDae

- Muschampia cribrellum obscurior* (STAUDINGER, 1892) – No. 31 (1)
Ochlodes sylvanus similis (LEECH, 1893) – No. 42 (5)
Pyrgus alveus (HÜBNER, 1803) – No. 31 (1)
Pyrgus serratulae (RAMBUR, 1839) – No. 42 (7)

Papilionoidea: LycaenIDae

- Albulina lucifera* (STAUDINGER, 1867) – No. 42 (1), No. 45 (1), No. 50 (1)
Albulina orbitulus pheretima (STAUDINGER, 1892) – No. 31 (9), No. 39 (2), No. 45 (1),
No. 53 (3)
Aricia allous (HÜBNER, 1819) – No. 31 (1), No. 42 (1), No. 54 (1)
Aricia eumedon (ESPER, 1780) – No. 31 (11), No. 42 (1), No. 53 (7)
Cyaniris semiargus (ROTTEMBURG, 1775) – No. 53 (4)
Lycaena violacea (STAUDINGER, 1892) – No. 50 (1)
Maculinea teleius obscurata (STAUDINGER, 1892) – No. 31 (10), No. 53 (3)
Neolycaena davidi (OBERTHÜR, 1881) – No. 50 (3)
Plebejus argyrognomon gabrieli BÁLINT, 1989 – No. 42 (17)
Plebejus argyrognomon mongolicus (RÜHL, 1893) – No. 50 (9)
Plebejus idas sailjugemicus ZHDANKO et SAMUDROV, 1999 – No. 42 (18), No. 45 (9)
Plebejus idas belchir CHURKIN et YAKOVLEV, 2005 – No. 38 (1)
Plebejus subsolanus (EVERSMANN, 1851) – No. 31 (2), No. 53 (2)
Plebejus subsolanus boreas BÁLINT, 1989 – No. 50 (29)
Polyommatus aloisi BÁLINT, 1988 – No. 42 (1), No. 45 (3)
Polyommatus amandus (SCHNEIDER, 1792) – No. 53 (1)
Polyommatus damone habievi (YAKOVLEV, 2004) – No. 42 (10)

Papilionoidea: NymphalIDae

- Aglais urticae* (LINNAEUS, 1758) – No. 50 (3)
Aphanthopus hyperanthus (LINNAEUS, 1758) – No. 31 (3), No. 53 (16)
Argynnis aglaja (LINNAEUS, 1758) – No. 39 (2)
Argynnis niobe (LINNAEUS, 1758) – No. 53 (1)
Argynnis paphia (LINNAEUS, 1758) – No. 53 (1)
Boeberia parmenio (BÖBER, 1809) – No. 42 (4)

- Brenthis ino* (ROTTEMBERG, 1775) – No. 31 (4), No. 53 (16)
Coenonympha amaryllis (STOLL, 1782) – No. 50 (8)
Coenonympha glycerion iphicles (STAUDINGER, 1892)– No. 31 (3), No. 53 (10)
Coenonympha oedippus (FABRICIUS, 1787) – No. 31 (1)
Coenonympha pamphilus (LINNAEUS, 1758) – No. 42 (1)
Erebia callias chastilovi CHURKIN, 2003 – No. 39 (9), No. 50 (1)
Erebia nerine (BÖBER, 1809) – No. 53 (22)
Hipparchia autonoe (ESPER, 1783) – No. 50 (1)
Hyponephele lycaon (ROTTEMBERG, 1775) – No. 42 (23)
Lopinga achine (SCOPLI, 1763) – No. 31 (2)
Lopinga deidamia (EVERSMANN, 1851) – No. 50 (1)
Melitaea centralasiae WNUKOWSKY, 1929 – No. 31 (2)
Melitaea diamina (LANG, 1789) – No. 31 (1)
Melitaea didyma turkestanica SHELJUZKO, 1929 – No. 45 (1)
Melitaea didymina STAUDINGER, 1896 – No. 45 (1)
Neptis rivularis (SCOPLI, 1763) – No. 53 (7)
Polygona c-album (LINNAEUS, 1758)– No. 42 (2)
Pseudochazara hippolyte (ESPER, 1784) – No. 38 (8), No. 42 (5)
Satyrus dryas (SCOPLI, 1763) – No. 53 (6)
Vanessa indica (HERBST, 1794) – No. 38 (1)

Papilionoidea: Pieridae

- Aporia crataegi* (LINNAEUS, 1758) – No. 31 (1)
Colias erate (ESPER, 1781) – No. 42 (1)
Pieris rapae (LINNAEUS, 1758) – No. 42 (5)
Pontia chloridice (HÜBNER, 1813) – No. 39 (2), No. 42 (2)
Pontia daplidice (LINNAEUS, 1758) – No. 39 (3), No. 42 (17), No. 45 (1)

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