

**Data to the Lepidoptera fauna of Kazakhstan: high summer collectings
in 2009**

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Abstract – Faunistical data of 34 species of skippers and butterflies (Hesperiidae, Lycaenidae, Nymphalidae, Papilionidae, Pieridae) and 179 species of owlet moths (Noctuidae) are given from Kazakhstan as the result of a collecting trip carried out in 2009. A list of 15 collecting sites is given. Every collecting site is briefly characterised and supplemented by the list of lepidopterans recorded. With 8 figures.

Key words – faunistics, Hesperiidae, Kazakhstan, Lycaenidae, Noctuidae, Nymphalidae, Papilionidae, Pieridae

INTRODUCTION

The aim of the present paper is to publish geographical, spatial and temporal data of Lepidoptera collected in Kazakhstan during a summer collecting trip. This is a continuation to our previous contribution on the Lepidoptera fauna of Central Asia (BÁLINT 2009, BÁLINT & BENEDEK 2009).

MATERIAL AND METHODS

Diurnal butterflies, skippers and moths were collected by traditional methods: netting specimens in flight or during nectaring, or searching resting individuals in the vegetation. Night active moths were sampled at light using white sheet illuminated by 125 W HgLi mercury bulb plus five semi-automatic portable light traps with 8 and 20 W blacklight or ultraviolet tubes.

Specimens captured were arranged in cotton layers with indication to the site after the collecting event still in the field then pinned, set, labelled, identified and inventoried in laboratory. The material is deposited in the private collec-

tion of the senior author, voucher specimens will be donated to the Hungarian Natural History Museum.

Localities are listed in chronological order as they appear on the labels. A brief characterisation of the place and collecting methods is given. The species are listed according to their respective families in alphabetical order with the indication to the individual size of the sample.

LIST OF LOCALITIES WITH FAUNISTICAL RECORDS

1. Kazakhstan, Province Almaty, 20 km NW of Kapchagai, 650 m, N 43° 58', E 077° 01', 11.VII.2009. – Semiarid *Artemisia* steppe, collecting site above the gorge of Ili river; collecting at light and with portable light traps.

Noctuidae: *Acronicta psi* (Linnaeus, 1758): 2; *Amphipyra turcomana* Staudinger, 1888: 2; *Anumeta fractistrigata* (Alphéraky, 1882): 1; *Apopestes phantasma centralasiae* Warren, 1911: 1; *Autographa circumflexa* (Linnaeus, 1767): 1; *Autophila asiatica* (Staudinger, 1888): 4; *Autophila gracilis* (Staudinger, 1874): 3; *Calyptra thalictri* (Borkhausen, 1790): 1; *Drasteria rada* (Boisduval, 1848): 1; *Macdonnoughia confusa* (Stephens, 1850): 1.

2. Kazakhstan, Province Almaty, Taukum desert, 10 km W of Usharal, 450 m, N 44° 12', E 076° 47', 12.VII.2009. – Sand dunes covered with luxuriant altoherbosa vegetation; collecting at light and with portable light traps complemented with sugar roping by night.

Noctuidae: *Apamea oblonga* (Haworth, 1809): 1; *Apopestes phantasma centralasiae* Warren, 1911: 2; *Arenostola phragmitidis* (Hübner, [1803]): 1; *Autophila gracilis* (Staudinger, 1874): 1; *Cardezia helix* (Ershov, 1874): 3; *Cardezia stigmata* (Christoph, 1887): 3; *Catocala remissa* Staudinger, 1892: 5; *Clytie gracilis* (Bang-Haas, 1907): 9; *Cucullia argentina* (Fabricius, 1787): 2; *Cucullia sabulosa* Staudinger, 1879: 18; *Drasteria chinensis* (Alphéraky, 1892): 6; *Eublemma uniformis* (Staudinger, 1878): 1; *Hadula dianthii lukhtanovororum* Hacker, 1998: 1; *Hecatera deserticola* (Staudinger, 1879): 14; *Lacanobia blenna* (Hübner, [1824]): 1; *Leimetopon symirides* (Staudinger, 1888): 2; *Tarachebia hueberi* (Ershov, 1874): 1.

3. Kazakhstan, Province Almaty, 15 km S of Issyk, Issyk Lake, 1700 m, N 43° 14', E 077° 28', 13.VII.2009. – Mountain lake shore with *Betula* stands and *Pinus* forests; collecting at light and with portable light traps.

Noctuidae: *Acronicta psi* (Linnaeus, 1758): 1; *Ammogrotis suavis* (Staudinger, 1896): 1; *Apamea lateritia expallescens* (Staudinger, 1882): 4; *Apamea remissa* (Hübner, [1808–1809]): 2; *Auchmis deterrentis* (Staudinger, 1897): 1; *Autographa buraetica* (Staudinger, 1892): 1; *Chortodes fluxa* (Hübner, [1808–1809]): 3; *Cryphia miltophaea* (Hampson, 1908): 2; *Ctenoceratoda arshanica* (Alphéraky, 1882): 2; *Eicomorpha antiqua* Staudinger, 1888: 2; *Euchalcia herrichi* (Staudinger, 1861): 1; *Eugnorisma gaurax* (Püngeler, 1900): 1; *Hadena karagaia* (Bang-Haas, 1912): 1; *Hadena capsincola* (Denis et Schiffermüller, [1775]): 1; *Mniotype adusta* (Esper, 1790): 1; *Shargacucullia xylophana* (Boursin, 1934): 4; *Trichosilia plumbea* (Alphéraky, 1887): 10.

4. Kazakhstan, Province Almaty, Zailiskiy Alatau, Assy Plateau, at the observatory, 2650 m, N 43° 13', E 077° 52', 14.VII.2009. – Mountain grassy steppe; collecting by daytime, collecting at light and with portable light traps.

Lycaenidae: *Agriades pheretiades tekessana* (Alphéraky, 1897): 2; *Polyommatus eros vasilyi* Tshikolovets, 1995: 1.

Noctuidae: *Albocosta ulrici* (Corti et Draudt, 1933): 1; *Albocosta juldussi* Alphéraky, 1882: 9; *Apamea lateritia expallescens* (Staudinger, 1882): 4; *Autographa monogramma* (Alphéraky, 1887): 1; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 1; *Cucullia distinguenda* Staudinger, 1892: 2; *Cucullia umbratica* (Linnaeus, 1758): 9; *Euchalcia herrichi* (Staudinger, 1861): 3; *Isochlora viridis* Staudinger, 1882: 5; *Papestra biren* (Goeze, 1781): 1; *Parexarnis ala* (Staudinger, 1881): 2; *Polia altaica* (Lederer, 1853): 1; *Protexarnis confusa* (Alphéraky, 1882): 1; *Xestia senescens* (Staudinger, 1881): 18.

Nymphalidae: *Argynnis aglaja vitatha* Moore, 1875: 2; *Argynnis niobe orientalis* Alphéraky, 1881: 2; *Boloria sipora generator* (Staudinger, 1886): 3; *Clossiana hegemone* (Staudinger, 1881): 1; *Hipparchia autonoe* (Esper, 1783): 1; *Melitaea asteroida* Staudinger, 1881: 6.

Pieridae: *Pontia callidice kalora* (Moore, 1865): 1.

5. Kazakhstan, Province Almaty, Zailiskiy Alatau, Turgen Valley, 1600 m, 15.VII.2009. – Stream valley with Rosaceae, *Salix* and luxuriant altoherbosa vegetation; collecting in daytime.

Lycaenidae: *Cyaniris semiargus* (Rottemburg, 1775): 1; *Glaucopsyche alexis* (Poda, 1761): 1; *Polyommatus amandus* (Schneider, 1792): 5; *Scolitantides orion* (Pallas, 1771): 1.

Nymphalidae: *Erebia turanica* Erschoff, 1877: 1; *Melanargia russiae* (Esper, 1783): 1; *Nymphalis vaualbum* (Denis et Schiffermüller, 1775): 1.

Papilionidae: *Parnassius apollo sibirica* (Nordmann, 1851): 4.

Pieridae: *Metaporia leucodice* (Eversmann, 1843): 1.

6. Kazakhstan, Province Almaty, 15 km N of Masak, Ayak-Kalkan, 500 m, N 43° 45', E 078° 30', 15.VII.2009. – Saline desert on the south shore of Ili river; collecting at light and with portable light traps complemented with sugar roping by night.

Noctuidae: *Apopestes phantasma centralasiae* Warren, 1911: 1; *Archanaura neurica* (Hübner, [1808]): 2; *Arenostola phragmitidis* (Hübner, [1803]): 2; *Cardepija helix* (Ershov, 1874): 1; *Cardepija stigmata* (Christoph, 1887): 1; *Cardiostrea eremistis* (Püngeler, 1904): 9; *Catocala desiderata* Staudinger, 1888: 1; *Catocala neonympha* (Esper, 1805): 11; *Catocala optima* Staudinger, 1888: 1; *Catocala puerpera* (Giorna, 1791): 1; *Clytie delunaris* (Staudinger, 1889): 1; *Clytie gracilis* (Bang-Haas, 1907): 3; *Cosmia diffinis* (Linnaeus, 1767): 3; *Drasteria kusnezovi* (John, 1910): 1; *Drasteria caucasica* (Kolenati, 1846): 1; *Enterpia picturata* (Alphéraky, 1882): 1; *Lenisa geminipuncta* (Haworth, 1809): 3; *Pseudluperina pozzi* (Curo, 1883) [*kozhanichikovi* (Püngeler, 1914)]: 3.

7. Kazakhstan, Province Almaty, Toraygir Mts, above Charyn Canyon, 1200 m, N 43° 21', E 079° 02', 16.VII.2009. – Hot, semiarid *Artemisia* steppe (Fig. 1); moth-collecting at light and with portable light traps.

Noctuidae: *Apopestes phantasma centralasiae* Warren, 1911: 1; *Autophila gracilis* (Staudinger, 1874): 4; *Autophila lia* (Püngeler, 1906): 1; *Autophila tetrastigma* Boursin, 1940: 31; *Catocala*

repudiata Staudinger, 1888: 1; *Cryphia plumbina* (Draudt, 1931): 2; *Ctenoceratoda graeseri* (Püngeler, 1898): 1; *Cucullia argentina* (Fabricius, 1787): 3; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 2; *Dichagyris clara* (Staudinger, 1888): 15; *Dichagyris himalayensis* Turati, 1933: 1; *Dichagyris melanuroides* Kozhantshikov, 1930: 4; *Dichagyris vallesiaca* (Boisduval, [1837]): 16; *Dichagyris verecunda* Püngeler, 1898: 1; *Eremohadena megaptera* (Boursin, 1970): 1; *Euxoa aquilina* ([Denis et Schiffermüller], 1775): 1; *Euxoa mustelina* (Christoph, 1847): 4; *Hadena strouhali* Boursin, 1955: 1; *Isochlora viridis* Staudinger, 1882: 1; *Mniotype adusta* (Esper, 1790): 1; *Rhyacia similis* (Staudinger, 1888): 1.

8. Kazakhstan, Province Almaty, Toraygir Mts, at the Charyn River, 1060 m, N 43° 16', E 078° 58', 17.VII.2009. – River valley with *Populus* and *Salix* gallery forest; collecting at light and with traps complemented with sugar roping by night.

Noctuidae: *Apopestes phantasma centralasiae* Warren, 1911: 25; *Atrachea cortex* Alphéraky, 1887: 2; *Auchmis detersina* (Staudinger, 1897): 1; *Autophila tetrastigma* Boursin, 1940: 3; *Calophasia lunula* (Hufnagel, 1766): 3; *Caradrina ferghana* (Staudinger, 1892): 1; *Catocala neglecta* Staudinger, 1888: 3; *Catocala repudiata* Staudinger, 1888: 9; *Catocala pudica* Moore, 1879: 6; *Clytie gracilis* (Bang-Haas, 1907): 1; *Cryphia plumbina* (Draudt, 1931): 2; *Ctenoceratoda graeseri* (Püngeler, 1898): 1; *Cucullia absinthii* (Linnaeus, 1761): 1; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 2; *Cucullia dracunculi* (Hübner, [1809–1813]): 1; *Cucullia umbratica* (Linnaeus, 1758): 1; *Dichagyris himalayensis* Turati, 1933: 1; *Dichagyris clara* (Staudinger, 1888): 1; *Dichagyris melanuroides* Kozhantshikov, 1930: 1; *Dichagyris verecunda* Püngeler, 1898: 2; *Drasteria cailino* (Lefebvre, 1827): 1; *Drasteria hybleoides* Moore, 1878: 5; *Drasteriodes limata* (Christoph, 1884): 1; *Euxoa mustelina* (Christoph, 1847): 3; *Hadula ptotchica* (Püngeler, 1906): 7; *Lacanobia praedita* (Hübner, 1813): 2; *Lygephila lubrica* (Freyer, 1846): 1; *Scoliopteryx aksuana* Sheljuzhko, 1955: 2; *Sidemia contumax* (Püngeler, 1902): 3; *Spaelotis ravidata* (Denis et Schiffermüller, [1775]): 1.

9. Kazakhstan, Province Almaty, 9 km N of Kegen, near Kegen Pass, 1700 m, N 43° 10', E 079° 13', 18.VII.2009. – Mountain steppe on limestone substrate with rich altoherbosa vegetation; collecting by daytime, collecting at light and with traps by night.

Noctuidae: *Abrostola triplasia* (Linnaeus, 1759): 1; *Acronicta psi* (Linnaeus, 1758): 1; *Albocosta musiva* (Hübner, [1803]): 2; *Albocosta ulrici* (Corti et Draudt, 1933): 1; *Ammogrotis suavis* (Staudinger, 1896): 1; *Amphipyra tetra* (Fabricius, 1787): 2; *Apamea oblonga* (Haworth, 1809): 1; *Apopestes phantasma centralasiae* Warren, 1911: 5; *Argyrospila succinea* (Esper, [1798]): 1; *Auchmis detersina* (Staudinger, 1897): 2; *Autophila asiatica* (Staudinger, 1888): 15; *Autophila eremocharis* Boursin, 1940: 2; *Autophila lia* (Püngeler, 1906): 1; *Autophila rasilis* (Püngeler, 1906): 3; *Autophila vespertalis* (Staudinger, 1901): 1; *Catocala repudiata* Staudinger, 1888: 3; *Chersotis anderregii* (Boisduval, [1837]): 12; *Chersotis elegans* (Eversmann, 1837): 4; *Chersotis transiens* (Staudinger, 1892): 8; *Chersotis vicina* (Corti, 1930): 1; *Chersotis calorica* (Corti, 1930): 3; *Conisania vidua* (Staudinger, 1892): 2; *Cryphia plumbina* (Draudt, 1931): 1; *Cryphia raptricula* ([Denis et Schiffermüller], 1775): 1; *Cucullia absinthii* (Linnaeus, 1761): 1; *Cucullia argentina* (Fabricius, 1787): 1; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 12; *Cucullia cineracea* Freyer, 1842: 4; *Cucullia dracunculi* (Hübner, [1809–1813]): 216; *Cucullia duplicata* Staudinger, 1882: 4; *Cucullia lucifuga* ([Denis et Schiffermüller], 1775): 2; *Cucullia magnifica* Freyer, 1840: 1 (Fig. 5); *Cucullia santonici* (Hübner, [1809–1813]): 32; *Cucullia spectabilisoides* Poole, 1989: 31; *Cucullia splendida* (Stoll in Cramer, 1777): 2; *Cucullia umbratica* (Linnaeus, 1758): 1; *Cucullia vicina* Bang-Haas, 1912: 15; *Cucullia virgaureae tianshanica* Ronkay et Ronkay, 2009: 14; *Cucullia xeranthemi* Boisduval, 1840: 50; *Dia-*

chrysis stenochrysis (Warren, 1913): 2; *Dichagyris himalayensis* Turati, 1933: 26; *Dichagyris lutescens* (Eversmann, 1844): 6; *Dichagyris subturbans* Boursin, 1948: 1; *Dichagyris vallesiaca* (Boisduval, [1837]): 9; *Drasteria caucasica* (Kolenati, 1846): 1; *Drasteria obscurata* (Staudinger, 1882): 3; *Euchalcia herrichi* (Staudinger, 1861): 1; *Euchalcia inconspicua* (Graeser, 1892): 1; *Euxoa mustelina* (Christoph, 1847): 7; *Euxoa plumbina* Wagner, 1913: 6; *Hadena cailinitha* (Draudt, 1934): 2; *Hadena compta* ([Denis et Schiffermüller], 1775): 17; *Hadena confusa iliensis* Hacker, 1996: 1; *Hadena intensa* (Warren, 1910): 11; *Hadena karagaia* (Bang-Haas, 1912): 2; *Hadena strouhali* Boursin, 1955: 6; *Lophoterges centralasiae* (Staudinger, 1901): 22; *Odice arcuinna* (Hübner, 1790): 1; *Oncocnemis campicola* Lederer, 1853: 1; *Oncocnemis strioligera* Lederer, 1853: 4; *Panchrysis deaurata* Esper, 1787: 1; *Protexarnis confinis* (Staudinger, 1881): 1; *Spaelotis deplorata defuncta* Staudinger, 1896: 9; *Spaelotis suecica* ssp.: 2; *Trichoplusia ni* (Hübner, [1803]): 1.

Nymphalidae: *Melanargia russiae* (Esper, 1783): 3; *Pseudochazara hippolyte mercurius* (Staudinger, 1887): 3.

10. Kazakhstan, Province Almaty, Elsyn-Buryak Mts, 12 km SE of Karasaz, near Tuz Kol, 2100 m, N 43° 00', E 079° 56', 19.VII.2009. – Short, isolated mountain ridge, grassy steppe vegetation with alpine influence, salt lake and semiarid steppe in the surroundings; collecting by daytime, collecting at light and with traps by night.

Lycaenidae: *Maculinea alcon* (Denis et Schiffermüller, 1775): 1.

Noctuidae: *Agrotis tancrei* Corti, 1927: 2; *Albocosta musiva* (Hübner, [1803]): 1; *Albocosta ulrici* (Corti et Draudt, 1933): 1; *Ammogrotis suavis* (Staudinger, 1896): 4; *Argyrospila succinea* (Esper, [1798]): 1; *Atethis furvula* (Hübner, [1808]): 2; *Auchmis detersina* (Staudinger, 1897): 4; *Autographa buraetica* (Staudinger, 1892): 2; *Bryoxena tenuicornis* (Alphéraky, 1887): 1; *Chersotis acutangula* (Staudinger, 1892): 1; *Chersotis anderregii* (Boisduval, [1837]): 2; *Chersotis elegans* (Eversmann, 1837): 1; *Chersotis transiens* (Staudinger, 1892): 3; *Chortodes elymi* Treitschke, 1825: 1; *Chortodes extrema* (Hübner, [1809]): 1; *Cucullia argentina* (Fabricius, 1787): 1; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 2; *Cucullia cineracea* Freyer, 1842: 2; *Cucullia dracunculi* (Hübner, [1809–1813]): 7; *Cucullia duplicata* Staudinger, 1882: 1; *Cucullia magnifica* Freyer, 1840: 1; *Cucullia scopariae* Dorfmeister, 1853: 1; *Cucullia spectabilisoides* Poole, 1989: 1; *Cucullia splendida* (Stoll in Cramer, 1777): 14; *Cucullia umbratica* (Linnaeus, 1758): 1; *Cucullia vicina* Bang-Haas, 1912: 20; *Cucullia virgaureae tianshanica* Ronkay et Ronkay, 2009: 1; *Diachrysis stenochrysis* (Warren, 1913): 1; *Dichagyris vallesiaca* (Boisduval, [1837]): 1; *Dichagyris himalayensis* Turati, 1933: 7; *Dichagyris umbrifera* (Alphéraky, 1882): 1; *Drasteria obscurata* (Staudinger, 1882): 2; *Eremohadena oxybela* (Boursin, 1963): 1; *Euchalcia herrichi* (Staudinger, 1861): 1; *Euxoa aquilina* ([Denis et Schiffermüller], 1775): 5; *Euxoa mustelina* (Christoph, 1847): 24; *Euxoa plumbina* Wagner, 1913: 5; *Euxoa recussa* (Hübner, [1814–1817]): 1; *Hadena compta* ([Denis et Schiffermüller], 1775): 2; *Hadena cailinitha* (Draudt, 1934): 5; *Hadena intensa* (Warren, 1910): 3; *Hadena karagaia* (Bang-Haas, 1912): 2; *Hadena strouhali* Boursin, 1955: 14; *Lasionycta orientalis* (Alphéraky, 1882): 1; *Lophoterges centralasiae* (Staudinger, 1901): 23; *Oncocnemis exacta* Christoph, 1887: 5; *Oncocnemis strioligera* Lederer, 1853: 3; *Parexarnis obumbrata* (Staudinger, 1889): 1; *Phoebophilus amoenus* Staudinger, 1888: 7; *Protexarnis confinis* (Staudinger, 1881): 3; *Rhyacia ignobilis* (Staudinger, 1888): 4; *Spaelotis deplorata defuncta* Staudinger, 1896: 1; *Xestia baja* (Denis et Schiffermüller, [1775]): 2; *Xestia triangulum* (Hufnagel, 1766): 3.

Nymphalidae: *Pseudochazara hippolyte mercurius* (Staudinger, 1887): 3.

11. Kazakhstan, Province Almaty, 10 km N of Tekes, 2000 m, N 43° 56', E 079° 59', 20.VII.2009. – Short valleys and low hills with scarce vegetation on loose

gypsum soil, surrounded with wide grassy steppe (Fig. 2); collecting by daytime, collecting at light and with traps by night.

Lycaenidae: *Alpherakya sarta* (Alphéraký, 1881): 1; *Maculineaalcon* (Denis et Schiffermüller, 1775): 2; *Plebejides ferganus* (Staudinger, 1881): 5; *Polyommatus cyane* (Eversmann, 1837): 4; *Polyommatus juldusa* (Staudinger, 1886): 3.

Noctuidae: *Agrotis clavis* (Hufnagel, 1766): 1; *Argyrospila succinea* (Esper, [1798]): 4; *Cardepiarirrisoria* (Ershov, 1874): 1; *Chersotis andereggii* (Boisduval, [1837]): 1; *Chersotis vicina* (Corti, 1930): 1; *Chortodes elymi* Treitschke, 1825: 1; *Ctenoceratoda contempta* (Püngeler, 1914): 1; *Cucullia argentina* (Fabricius, 1787): 1; *Cucullia dracunculi* (Hübner, [1809–1813]): 16; *Cucullia duplicata* Staudinger, 1882: 2; *Cucullia santonici* (Hübner, [1809–1813]): 1; *Cucullia spectabilisoides* Poole, 1989: 2; *Cucullia splendida* (Stoll in Cramer, 1777): 34; *Cucullia vicina* Bang-Haas, 1912: 38; *Dichagyris clara* (Staudinger, 1888): 6; *Dichagyris umbrifera* (Alphéraký, 1882): 48; *Dichagyris tyrannus* (Bang-Haas, 1912): 1; *Drasteria obscurata* (Staudinger, 1882): 1; *Polymixis acharis* (Püngeler, 1901): 128; *Euchalcia inconspicua* (Graeser, 1892): 1; *Euxoa mustelina* (Christoph, 1847): 1; *Hadena intensa* (Warren, 1910): 3; *Hadena strouhali* Boursin, 1955: 1; *Hadula odontites boisduvali* Hacker, 1998: 1; *Hadula sabulorum* (Alphéraký, 1882): 9; *Lophoterges* sp.: 1; *Rhiza laciniosa* (Christoph, 1887): 1; *Rhyacia subdecora* (Staudinger, 1888): 35; *Rhyacia electra* (Staudinger, 1888): 8; *Standfussiana socors* (Corti, 1925): 1.

Nymphalidae: *Chazara heydenreichi* (Lederer, 1853): 1; *Hyponephele laeta monotona* (Staudinger, 1886): 1; *Melanargia russiae* (Esper, 1783): 1; *Melitaea ala* Staudinger, 1881: 1.



Figs 1–4. Collecting sites in Kazakhstan, 2009: 1 = gorge of river Charyn with gallery forests, 16 July, 2 = surrounding of Tekes, 20 July, 3 = gorge of river Temerlik, 21 July, 4 = Altyn-Emel pass, 1700 m, 23 July (photos: B. Benedek)

12. Kazakhstan, Province Almaty, 20 km W of Narynkol, Bayankol Valley, 2250 m, 21.VII.2009. – Open alpine stream valley with *Pinus* forest and luxuriant altoherbosa vegetation; collecting in daytime.

Hesperiidae: *Muschampia tessellum* (Hübner, 1803): 2.

Lycaenidae: *Maculinea alcon* (Denis et Schiffermüller, 1775): 5; *Polyommatus amandus* (Schneider, 1792): 1; *Polyommatus juldusa* (Staudinger, 1886): 4.

Nymphalidae: *Aglais urticae* (Linnaeus, 1758): 1; *Argynnis adippe tianschanica* Alphéraky, 1881: 1; *Argynnis niobe orientalis* Alphéraky, 1881: 1.

Papilionidae: *Parnassius apollo sibirica* (Nordmann, 1851): 1.

Pieridae: *Leptidea sinapis* (Linnaeus, 1758): 1.

13. Kazakhstan, Province Almaty, 12 km NW of Temerlik, Temerlik Canyon, 1000 m, N 43° 21', E 079° 09' 21.VII.2009. – Deep river valley in hot, scarcely vegetated semiarid steppe, gallery forest of very old *Populus* and *Salix* trees (Fig. 3); collecting in daytime, collecting at light and with traps complemented with sugar roping by night.

Lycaenidae: *Lycaena thersamon* (Esper, 1784): 2; *Polyommatus icarus* (Rottemburg, 1775): 2

Noctuidae: *Amphipyra sergei* (Staudinger, 1888): 2; *Apamea oblonga* (Haworth, 1809): 4; *Apopestes phantasma centralasiae* Warren, 1911: 10; *Atrachea cortex* Alphéraky, 1887: 1; *Autophila asiatica* (Staudinger, 1888): 2; *Autophila eremocharis* Boursin, 1940: 1; *Autophila lia* (Püngeler, 1906): 7; *Autophila tetrastigma* Boursin, 1940: 1; *Catocala elocata* (Esper, 1787): 2; *Catocala neglecta* Staudinger, 1888: 2; *Catocala nupta* (Linnaeus, 1767): 1; *Catocala pudica* Moore, 1879: 5; *Catocala repudiata* Staudinger, 1888: 20; *Dichagyris verecunda* Püngeler, 1898: 3; *Hadula ptochica* (Püngeler, 1906): 1; *Hysia cavernosa* (Eversmann, 1842): 1; *Scoliopteryx aksuana* Sheljuzhko, 1955: 2.

14. Kazakhstan, Province Almaty, Altyn-Emel Mts, Altyn-Emel Pass, 1700 m, N 44° 11', E 078° 30', 23.VII.2009. – Dry mountain steppe with large, coherent patches of Rosaceae-bush and rich altoherbosa vegetation; moth collecting at light and with traps by night (Fig. 4).

Noctuidae: *Acronicta euphorbiae* ([Denis et Schiffermüller], 1775): 2; *Catocala remissa* Staudinger, 1892: 3; *Chersotis andereggii* (Boisduval, [1837]): 8; *Cucullia absinthii* (Linnaeus, 1761): 1; *Cucullia asteris heptapotamica* Ronkay et Ronkay, 2009: 2; *Cucullia santonici* (Hübner, [1809–1813]): 7; *Cucullia spectabilisoides* Poole, 1989: 3; *Cucullia turkestanica* Ronkay et Ronkay, 1987: 4; *Cucullia virgaureae tianshanica* Ronkay et Ronkay, 2009: 1; *Cucullia xeranthemi* Boisduval, 1840: 2; *Dichagyris clara* (Staudinger, 1888): 2; *Dichagyris himalayensis* Turati, 1933: 7; *Dichagyris vallesiaca* (Boisduval, [1837]): 4; *Hadena karagaia* (Bang-Haas, 1912): 5; *Hadena cailinitha* (Draudt, 1934): 1; *Hadena strouhali* Boursin, 1955: 1; *Lophoterges centralasiae* (Staudinger, 1901): 3; *Oncocnemis campicola* Lederer, 1853: 21; *Oncocnemis exacta* Christoph, 1887: 2; *Oncocnemis strioligera* Lederer, 1853: 2; *Paleagrotis inops* (Lederer, 1853): 2.

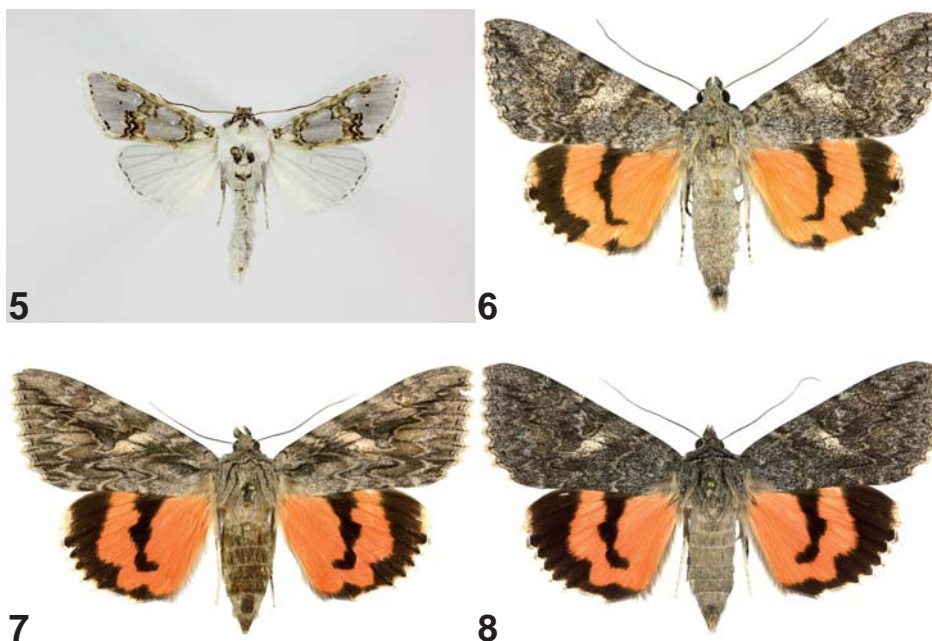
15. Kazakhstan, Province Almaty, Altyn-Emel National Park, 24.VII.2009. – Hot, saline steppes with oases of old *Populus* and *Salix* trees; resting *Catocala* specimens observed and collected from bark of trees at daytime, collecting on a door light of rangers' house by night.

Noctuidae: *Catocala elocata* (Esper, 1787): 8; *Catocala remissa* Staudinger, 1892: 1; *Drasteria axuana* (Püngeler, 1907): 1; *Scotocampa indigesta* Staudinger, 1888: 30.

REMARKS

We present faunistic data of 34 species of skippers and butterflies (Hesperiidae and Papilionidae) and 179 species of owlet moths (Noctuidae) from Kazakhstan as the result of a trip carried out in 2009. These records originate from 15 collecting sites representing a wide range of habitats from arid steppes and mesophilic pastures to gallery forests.

In the steppes the collecting methods during night using artificial light were the most effective, individuals of rarely encountered species (Fig. 5) or hitherto less known species in large series could be taken. Sugar roping was highly efficient in habitats where remnants of the ancient woodlands or forests steppes, or the still existing gallery forests were present. In these places surprisingly diverse catocaline fauna was found (Figs 6–8), which seems to be autochthonous and not being the results of seasonal or annual migrations.



Figs 5–8. Characteristic noctuids of the summer Kazakhstani fauna in 2009: 5 = *Cucullia magnifica* Freyer, 1840, Kegen pass, 18 July, 6 = *Catocala neglecta* Staudinger, 1888, Charyn river, 17 July, 7 = *Catocala remissa* Staudinger, 1892, Usharal, 12 July, 8 = *Catocala repudiata* Staudinger, 1888, Charyn river, 17 July (photos: J. Babics)

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