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The Commemoration of Atatürk, Youth and Sports Day is an annual Turkish national holiday celebrated on May 19 to commemorate Mustafa Kemal's landing at Samsun on May 19, 1919. This date is also regarded as the beginning of the Turkish War of Independence.

<http://zoobank.org/References/C1F393A5-4647-43B2-9F18-9F8BD655A88B>

Additional annotated notes on the Heterocera fauna of Zerneke (Van Province, East Turkey) with descriptions of new species

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Abstract: Additional annotated notes on the Heterocera fauna of Zerneke (Van Province, East Turkey) with descriptions of new species. *Priamus* 19 (3): 149-183, 35 figs., 2 Tab., 2 maps
In this paper, Heterocera species of Zerneke are evaluated from various standpoints. Faunistically, 124 species are listed. Among them new records for Turkey, as well as for various provinces are mentioned. Taxonomically, two new species *Catoptria karafatma* **sp. n.** and *Pseudoinsalebria zerneke* **sp. n.** are described and illustrated. Status of *Anarpi incertalis* populations in SE Turkey is discussed. Nomenclatural status of *Hyphantidium fredii* is discussed. The genetic distances of *fredii* among various *Ephestia* species are given and discussed.

Key words: Arctiidae, Autotichidae, Cossidae, Ethmiidae, Gelechiidae, Geometridae, Lasiocampidae, Noctuidae, Oecophoridae, Pyraloidea, Sphingidae, Tineidae, Tortricidae, Yponomeutidae, Zygaenidae, Lepidoptera, fauna, Zerneke, Van, Turkey, new species, taxonomy, DNA barcode, genitalia.

Due to the corona pandemic, planned spring excursion could not be realized by the authors to the studying region of Zerneke this year. For that reason, unidentified, previously collected material are partly evaluated here.

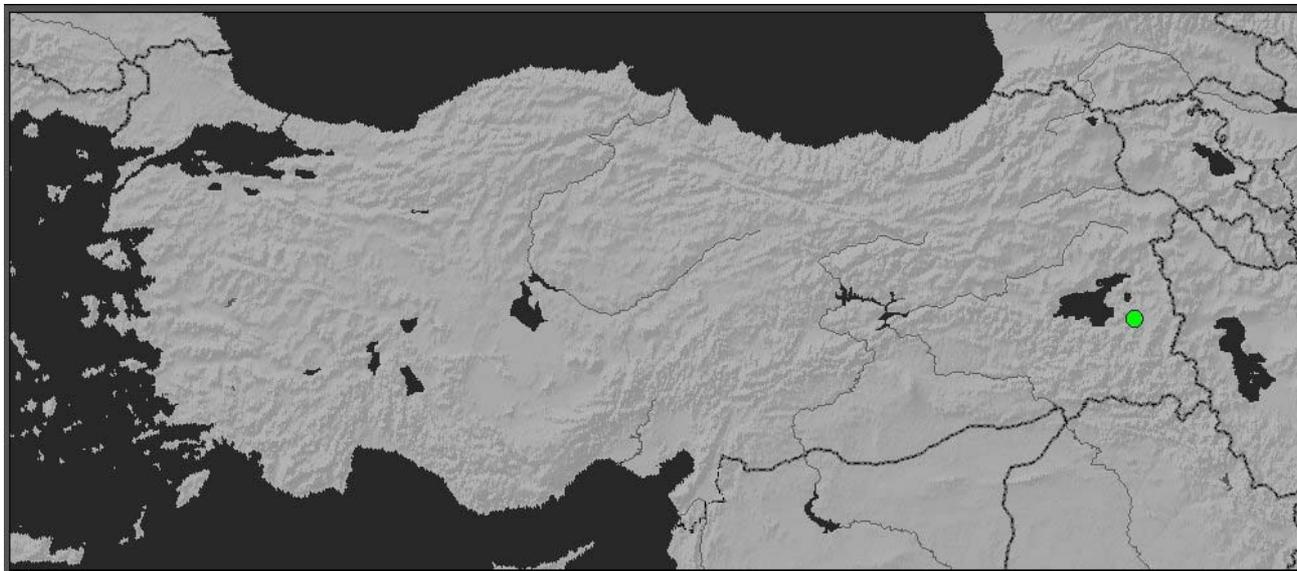
First faunistic attempt to the Lepidoptera of Zerneke (Map 1) was made by the authors (Kemal *et al.*, 2018). They listed 112 lepidopteran taxa together with 38 butterfly species. In the present paper, without butterfly, 124 species of Heterocera of 15 families are given. Besides, updated synonymic and distributional information as well as original references to each species are added. Thus, the total number of the lepidopteran taxa of Zerneke raised to 162. The material, mentioned in the following list, are mostly collected in the year of 2019. One species is reported as new for the fauna of Turkey. Nine species are new for the fauna of Van Province, while one species new for the fauna of each province (Kars and Siirt), and two species new for the fauna of Iğdır Province. As a result of this study, total number of the Lepidoptera species of Van Province raised to 1631 (Infosystems of the Cesa²; Kemal & Koçak, 2018).

Taxonomically, two new species, *Catoptria karafatma* **sp. n.** (Crambinae, Pyralidae) and *Pseudoinsalebria zerneke* **sp. n.** (Phycitinae, Pyralidae) is described and illustrated. By the way,

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² <http://www.cesa-tr.org/Infos.htm>

the genus *Pseudoinsalebria* is reported here for the first time for Turkey. Status of *Anarpia incertalis* populations in SE Turkey is discussed. The species "*Hyphantidium fredii*" described by Amsel (1961) from Iran, based on a single, worn male. Description of *fredii* Amsel is discussed. Attention was drawn to its nomenclatural status. Currently, *fredii* is listed as valid under the genus *Ephestia*³. The genetic distances of *fredii* among some other *Ephestia* species are calculated and discussed for the first time.



Map 1 – Location of Zerneke in Van Province (Turkey).

List of the species

In the present annotated list of the Heterocera species of Zerneke, 124 taxa of 15 families are given with original references, updated synonymy, and ranges as codes (Koçak & Kemal, 2019).

Arctiidae

1. *Lacydes spectabilis* (Tauscher, 1806)

Synonymy: *spectabilis* Tauscher, 1806; *intercissa* Freyer, 1842.

Original Reference: *Noctua spectabilis* Tauscher, 1806, Mém. Soc. nat. Univ. imp. Moscou 1: 212 fig. Type(s): Russia.

Range (as code): RU KG Ssn Uk T-S Sb TM AF Bd Ui Ku Kml MN IR Th Dam Elb Mz Gls Kp Kh Fa Sse Ak Mz Gls Ma Se IQ TR Cc AM KK 01 03 06 13 23 24 25 26 30 38 42 46 50 51 56 58 65 68 70 71 73 01L 01Lb 03A 03Aa 06R 06Ra 06Y 13A 13Ab 13Ax 13C 13Cf 13G 13Gw 13Gü 13F 13F38 23I 25A 25N 25Na 26K 30B 30Bg 30Bz 30D 30Da 42B 46G 50G 51B 51Bc 56F 58G 58Gg 65A 65Ab 65B 65Bk 65D 65Da 65F 65Fe 65Fş 65G 65Gb 65Gü 65Gz 65K 65Kl6 65Ku 65Z 68B 70A 70Ac 71B 73C 73Cd 73Ce

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

Autostichidae

2. *Apiletria purulentella* Stainton, 1867

Synonymy: *purulentella* Stainton, 1867; *endopercna* Meyrick, 1936

Original Reference: *Apiletria purulentella* Stainton, 1867, Tineina Syria Asia Minor: 43-44.

Lectotype ♂: Palestine: Plains of Jordan (BMNH).

Range (as code): TR Cc AM Eri JO Amm IL Pa Hf LB Bsa Bei SY Dms IQ Bag Shq Dia Ry Mos Bgd Kbl TM IR Elb Kdv Fa Shr Bne Bu Ha Avd Yz Ab Khy Kdj Th Sdt Km Kd Mrv Snj Lo 01 05 06 07 13 23 33 42 44 46 47 56 63 65 76 80 01K 05A 05E 06Y 07D 13A 13Ae 13Ax 13B 33O 42B 44L 47D 51D 51Da 56F 56F1 56Fs 65A 65Ai 65G 65Gb 65Gf 65Gy 65N 65Np2 65Nm 76C 80B 80Ba 80Bb 80Bc

³<http://globiz.pyraloidea.org/Pages/Reports/TaxonReport.aspx?ReturnUrl=%2fPages%2fReports%2fTaxonomyReport.aspx>

Material studied: 8♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 10♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: The names *endopercna* Meyrick (described from Iraq: Diana) and *purulentella* Stainton (described from Palestine) are considered by Gozmany (1978) as two distinct species. However, their discriminating characters are too weak. Currently, these names are used as synonyms⁴. We agree with this synonymic case.

Cossidae

3. *Phragmacossia territa* Staudinger, 1878

Synonymy: *territa* Staudinger, 1878; *transcaspica* Grun-Grshimailo, 1895

Original Reference: *Phragmacossia territa* Staudinger, 1878, Horae Soc. ent. ross. 14: 341-342.

Syntypes: Türkiye, Amasia, Kerasdere (MHUB).

Range (as code): TR IQ Bsy LB Bsa SY Cc AM TM Rpt UZ Smk TJ IR Elb Dam AF Slg PK Nwf IL Pa EG 05 42 46 51 65 05A 46G 46Gf 42B 51B 51Bc 65B 65Bo 65Bx 65D 65Df 65G 65Gb 65K 65Kl6 65Z

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

Ethmiidae

4. *Ethmia amasina* (Staudinger, 1879)

Synonymy: *amasina* Staudinger, 1879

Original Reference: *Psecadia amasina* Staudinger, 1879, Horae Soc. ent. ross. 15: 291-292.

Syntypes ♂♀: [Türkei]: Amasia (Kerasdere), Lectotype ♂, designated by Sattler (1967: 108) (ZMHU).

Range (as code): TR SY Hal IQ Hjo Ry IR Elb Th Fa 01 02 05 06 13 46 65 01K 02F 02Fd 02Fe 02Fz 05A 06R 13G 13Gg 65D 65G 65Gb 65Gf 65Gy 65K 65Kl1 65Z

Material studied: 1♂ (GP3272). Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: *Ethmia* species in East Turkey are in preparation.

Gelechiidae

5. *Aproaerema polychromella* (Rebel, 1902)

Synonymy: *polychromella* Rebel, 1902; *faceta* Meyrick, 1914; *rebeliella* Caradja, 1920; *argyrobiella* Caradja, 1920

Original Reference: *Anacamptis polychromella* Rebel, 1902, Dt. ent. Z., Iris 15: 109-110. Syntypes 3♂♀: [Israel]: "Haifa (Syrien)" (NHMW).

Range (as code): Cn DZ GB PT ES Si IT MT GB YU TR IR Mz LB IL Pa Hf Jer Jf CY JO KW YE PK Gg Cls RU Ur UA Ode MN 12 13 27 30 33 44 46 56 65 12A 12Ab 13A 13Ab 13Ax 13F 13F38 27D 27Da 30D 30Df 33R 44I 44Ic 46G 56F 56Fb 56Fm 65A 65Am 65Am1 65G 65Gb 65K 65Kl6 65Z 65N 65Np2 65Nm

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species (as *Syncopacma* cited, currently in *Aproaerema*) was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

6. *Aristotelia* sp.

Remarks: This genus will be separately evaluated.

7. *Aroga* sp.

Remarks: This genus will be separately evaluated.

8. *Caryocolum* aff. *schleichi* (Christoph, 1872) (Figs. 1, 2)

Material studied: 1♀ (GP3279). Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: Present identification is based upon the female morphology only. Male specimen and more material will be helpful on this respect. In future, this group will be separately studied

⁴ http://www.lepiforum.de/lepiwiki.pl?Apiletria_Purulentella

including the genetic distances among the related populations. For the time being, it is identified as *schleichi* temporarily. *Caryocolum schleichi* is the sole species found in Turkey among other species in the *schleichi* species group. Huemer (2020) reported it from Gürün (Sivas Prov.), 20km SE Hadim (Konya Prov.), and “Prov. Sivas, Darende, Günüinar, 900m” [*recte*: Prov. Malatya, Darende, Günpınar]. The *schleichi* species group is characterized by long lateral sclerotizations in the posterior part of ductus bursae. Apophys anterior is longer than the length of viii. segment. Also head is whitish in *schleichi* (Huemer,2020). Our female specimen carries all these structures. These features had an impact on our decision on identification. New record for the fauna of Van Province.



Figs. 1, 2 - *Caryocolum* aff. *schleichi*. Upperside of female (wingspan ca. 10.5 mm). Abdominal skin and female genitalia (GP3279). Van Province, Zernek. M. Kemal (Cesa).

9. *Euscrobipalpa* sp.

Remarks: This species will be separately evaluated.

10. *Megacraspedus* spp.

Remarks: For the time being, 9 collected specimens from Zernek belong to at least two species. This genus was not reported from Van Province. It will be separately evaluated in future.

11. *Metanarsia incertella* (Herrich-Schäffer, 1861)

Synonymy: *incertella* Herrich-Schäffer, 1861; *longivittella* Rebel, 1914; *halmyropis* Meyrick, 1926; *rhamniferella* Lucas, 1940

Original Reference: *Anacamptis* ? *incertella* Herrich-Schäffer, 1861, Neue Schmett. 3: 31, fig. 156.

Type ♀: [Russia]: Sarepta.

Range (as code): MA DZ ES Grn Hue Zg MA TN KG Uk RU Sr Sb Ur TR UZ MN Ui Ku 06 38 42 65 68 06Y 65G 65Gb

Material studied: 4♂3♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

12. *Metanarsia modesta* Staudinger, 1871

Synonymy: *modesta* Staudinger, 1871; *kurdistanella* Amsel, 1959

Original Reference: *Metanarsia modesta* Staudinger, 1871, Berl. ent. Z. 14: 314-315. Russia: Sarepta (Christoph).

Range (as code): IT RO RU Ur Sb MD UA Cm BY KG Uk TR IQ Hjo Cc AM IR TM UZ 04 25 42 65 76 04C 04Cf 65G 65Gb 65N 65Nc2 76D 76Da

Material studied in East Turkey: 2♂. Iğdır Province, Tuzluca, Gaziler 1075m (76Da), 8.viii.2007, M. Kemal & A.Koçak leg. - 3♂. East Turkey, Van Province, Başkale, Ziyaniş E. 2400m (65Bo), 9.vii.2015, M. Kemal & A.Koçak leg. - 31♂♀. Van Province, Tuşba, YU Campus 1650m (65Nc2), 22.vi.2019, M. Kemal & A.Koçak leg. - 2♂. Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: Present records are new for the fauna of Van and Iğdır Provinces.

13. *Metzneria* sp.

Remarks: This genus will be separately evaluated.

14. *Nothris radiata* (Staudinger, 1879)

Synonymy: *radiata* Staudinger, 1879

Original Reference: *Depressaria radiata* Staudinger, 1879, Horae Soc. ent. ross. 15: 302-303.

Syntypes: [Türkei]: Amasia (Caraman); Lectotype ♂: Amasia (MFN).

Range (as code): TR 05 08 25 36 38 42 50 65 05A 25A 36D 36F 36Fb 42B 42K 50G 50Gd 65G 65Gb

Material studied: 1♂ (GP2907). Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

15. *Nothris verbascella* ([Denis & Schiffermüller], 1775)

Synonymy: *#verbascella* [Denis & Schiffermüller], 1775; *verbascella* Brahm, 1791; *lutarea* Haworth, 1828; *discretella* Rebel, 1889; *clarella* Amsel, 1935

Range (as code): MA DZ Anna Lbs PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU HV TR BG MK GR Sms LB Bsa DK NO SE FI EE LV RU Cc Sb MD UA BY KG Uk IR Elb Dam Shh IQ Dy Hjo IL Pa Hf Jer Jf 02 05 06 07 14 16 22 24 25 32 33 36 38 42 44 46 50 58 65 02F 02Fe 02Fz 05A 06R 16A 25A 36F 36Fb 44L 44Lc 46D 46Dc 58G 58Gi 58N 58Nc 65A 65Am 65Am4 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65L 65Le 65N 65Np 65Np6 65Nm

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

16. *Stomopteryx detersella* (Zeller, 1847)

Synonymy: *detersella* Zeller, 1847; *obliteratella* Turati, 1924; *griseella* Dufrane, 1955

Original Reference: *Gelechia detersella* Zeller, 1847, Isis von Oken 1847 (11): 846-847. Syntypes 3♂ 2♀: Italia, "Syracus".

Range (as code): MA PT ES An Grn FR Si IT SK HU RO MK AL BG GR Cr TR RU Cc AZ Bak AM Eri 01 05 06 16 33 42 45 46 56 65 71 76 01L 01Le 05A 16A 56F 56Fb 65G 65Gb 65N 65Nc2 76C

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

17. *Stomopteryx gaesata* (Meyrick, 1913)

Synonymy: *gaesata* Meyrick, 1913

Original Reference: *Inotica gaesata* Meyrick, 1913, Exot. microlepid. 1: 66. Type ♂: [Turkey]: "Asia Minor, Taurus Mts." [illustrated by Clarke, 1969: 205, pl. 102 figs. 1a-d].

Range (as code): TR IR Elb Mz 33 65 65A 65Aş 65B 65Bo 65Bx 65D 65Df 65Fz 65G 65Gb 65K 65Kd 65Kl6 65Z 65N 65Nr2 65Nm

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

18. *Streyella anguinella* (Herrich-Schäffer, 1861)

Synonymy: *anguinella* Herrich-Schäffer, 1861; *ostentella* Zerny, 1934

Original Reference: *Gelechia anguinella* Herrich-Schäffer, 1861, Neue Schmett. 3: 31, fig. 159.

Lectotype ♀: [Russia]: Sarepta (ZMHU).

Range (as code): DZ ES HV SS GR TR LB Bsa IQ RU Sr Ur 13 46 56 65 70 13A 13Ab 13Ax 56F 56Fb 65A 65Ai 65D 65Df 65F 65Fp 65Fz 65G 65Gb 70C 70Cf

Remarks: This species was previously reported by the authors from Zerneş (Kemal *et al.*, 2018).

Geometridae**19. *Catarhoe semnana* Wiltshire, 1970**Synonymy: *semnana* Wiltshire, 1970Original Reference: *Catarhoe semnana* Wiltshire, 1970, Annln. naturh. Mus. Wien 74: 378-379, figs. Holotype ♂: Iran, Derbend 25km N v. Teheran 2000m, Kasy & Vartian leg.

Range (as code): TR IR Elb Th Se 04 13 30 65 04C 04Cf 13F 13F71 30B 30Bç 30Bt1 30Bz 65A 65Ac3 65Ai 65Am 65Am4 65An 65As 65At5 65D 65Df 65Dga 65G 65Gb 65Gf 65F 65Fz 65L 65Le

Remarks: Distribution of this species in East Turkey is given by the authors (Kemal *et al.*, 2020b).**20. *Charissa (Kentrognophos) argillata* (Brandt, 1938)**Synonymy: *argillata* Brandt, 1938Original Reference: *Gnophos argillata* Brandt, 1938, Ent. Rdsch. 55: 620-621, fig. 415. Syntypes: Iran: [Fars]: Comée.

Range (as code): TR IR Kz Com Fa 65 65A 65Ai 65Aba 65Ac3 65D 65Df 65G 65Gb

Remarks: This record is based upon the Info-systems of the Cesa.

21. *Eupithecia limbata* Staudinger, 1879Synonymy: *limbata* Staudinger, 1879; *irritaria* Staudinger, 1892; *kueppersi* Vojnits, 1973Original Reference: *Eupithecia limbata* Staudinger, 1879, Horae Soc. ent. ross. 14: 476. Syntypes: [Türkei]: Amasia (Kerasdere).

Range (as code): PT ES An IT SS MK BG GR Cr TR Ksp IQ AM Nv Cc AZ LB IR 05 13 25 30 42 65 76 05A 13A 13Ab 13Ax 42B 65A 65Ac3 65Ai 65Am4 65B 65Bo 65D 65Df 65Fp 65Fz 65G 65Gb 76C

Remarks: This record is based upon the Info-systems of the Cesa.

22. *Gnophos (Dicrognophos) pseudosnelleni* Rjabov, 1964Synonymy: *pseudosnelleni* Rjabov, 1964Original Reference: *Gnophos pseudosnelleni* Rjabov, 1964, [in] Rjabov & Vardikjan, Zool. Sb.

Erevan 13: 108, pls. Holotype ♂: Armenia: River Arpa, Daralagez. Range (as code): Cc AM Dar AZ TR TM Kp IR 13 23 30 56 62 65 72 13G 13Gw 23M 30B 30Bç 30Bt1 30Bz 30D 30Dx 56F 56Fa 56Fe 56Fd 56Fj 56Fq 62G 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65Am4 65At 65At5 65B 65Bo 65D 65Df 65G 65Gb

23. *Idaea ochrata* (Scopoli, 1763)Synonymy: *ochrata* Scopoli, 1763; *#ochreata* [Denis & Schiffermüller], 1775; *corrugata* Fabricius, 1781; *ochrearia* Schrank, 1802 nec Ross., 1794; *sicula* Zeller, 1847; *accretata* Fuchs, 1901Original Reference: *Phalaena ochrata* Scopoli, 1763, Entomologia Carniolica: 227. Type(s): Carniolia.

Range (as code): MA DZ Sbd TN PT ES Mu FR Co Sa Si IT MT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc GG Tbl Bjo Smt Lag Da Der Kir AZ AM Ksp CY LB DK SE RU MD UA BY IR 01 05 06 13 14 16 22 23 25 33 34 39 46 52 59 65 76 78 81 05A 06R 13F 13F38 16A 23M 33A 33Am 52G 52Gb 65F 65Fr 65Fp 65Fz 65G 65Gb 65L 65Le 65N 65Nç 65Nm 76C 76D 76Dd 78D 78Da

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).**24. *Idaea ossiculata* (Lederer, 1871)**Synonymy: *ossiculata* Lederer, 1871Original Reference: *Acidalia ossiculata* Lederer, 1871, Horae Soc. ent. ross. 8: 18-19, pl.2 fig.5. Syntypes 2♂♀: [Türkei: İçel Province]: "Külele" [Gülele].

Range (as code): MK GR TR Cc AM AZ Nv Ord GG RU Da UA Cm IR Ab Gor Kh LB KG Kpt 01 02 04 05 06 07 13 23 25 30 31 33 38 40 42 44 46 58 65 70 02F 02Fd 02Fe 02Fz 04C 04Cf 05A 06K 06Kb 13A 13Aç 13Ax 23M 25F 33H 42B 44L 44Lc 46G 46Gf 58N 65A 65Am 65Am1 65Ai 65At 65At5 65B 65Bo 65Bx 65D 65Df 65G 65Gb 65Gü 65Gz 65L 65Le 65N 65Nc 65Np2 65Nm 70A 70Ab

Material studied: 3♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

25. *Orthonama obstipata* (Fabricius, 1794)Synonymy: *obstipata* Fabricius, 1794; *fluviata* Hübner, [1799]; *gemmata* Hübner, 1799; *albicinctata* Haworth, 1809; *angustata* Haworth, 1809; *quaerendaria* Costa, 1850; *baccata* Guenée, [1858]; *lapillata* Guenée, [1858]; *contrariata* Walker, 1862; *exagitata* Walker, 1862; *intrusata* Walker, 1862; *peracutata* Walker, 1862; *signataria* Walker, 1863; *obruptata* Walker, 1863; *pigrata* Walker, 1866; *plemyrata* R.Felder & Rogenhofer, 1875; *inconspicua* Warren, 1896; *brunneipennis* Hulst, 1896; *discata* Warren, 1905Original Reference: *Phalaena obstipata* Fabricius, 1794, Ent. Syst. 3 (1): 199. Type: Barbaria.

Range (as code): PT ES Mu FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd TR IQ Agh GG AM Cc AZ IR Sse Fa AF DK NO SE FI EE LV RU Ur Sb Am Sh MD UA Cm BY KG KK UZ TJ TM CN MN KP KR JP ZA ZA10 ZA12 Kzu Nta IL Pa Jf Mtl LB Bsa MY Bor Sbh KBa Kh CY PK Swa Dara Sgl Yek YE Tbl Mng Kir Lag Hkd ZR EG ET KE TZ MA DZ Ges Bsk Nbr Gf TN 01 05 06 07 13 14 16 17 22 30 31 33 34 42 46 56 65 71 72 80 01J 05A 13A 13Ab 13Ax 13F 13F28 13F35 13F38 16A 30B 30Bç 30Bç1 30Bz 30D 30Df 31K 31Ka 31Ka3 33A 33An 33Ao 33G 56F 56Fb 65A 65Ai 65Am 65Am4 65D 65Dt 65F 65Fp 65Fz 65G 65Gb 65N 65Nc2 80B 80Bc

Remarks: This record is based upon the Info-systems of the Cesa.

26. *Proutictis artesiaria* ([Denis & Schiffermüller],1775)

Synonymy: *artesiaria* [Denis & Schiffermüller],1775

Original Reference: *Geometra artesiaria* [Denis & Schiffermüller],1775, Ankündigung syst. Werkes Schmett. Wienergegend: 102. Type(s): [Austria]: Vienna district.

Range (as code): PT ES FR IT BE NL DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc AZ Kir SE FI EE LV LT RU MD UA BY IR Fa Com Kz 01 56 58 60 65 71 01L 01Lf 56F 60H 60Hb 65F 65Fg 65Fm 65G 65Gb 65L 65Le

Material studied: 1♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: The male genitalia (GP2910) of this species was illustrated from Edremit (Elmalık) (Van Province) (Kemal *et al.*, 2018).

27. *Rhodometra sacraria* (Linnaeus,1767)

Synonymy: *sacraria* Linnaeus,1767; *labda* Cramer,1777; *sacralis* Thunberg,1784; *fulvaria* Fabricius,1794; *sanguinaria* Esper,1801; *minervae* Gistel,1856; *labdaria* Guenée,[1858];

Original Reference: *Phalaena sacraria* Linnaeus,1767, Syst. Nat. (Edn.12) 1(2): 863. Syntypes: [Algeria]: Barbaria (LSL).

Range (as code): MA DZ TN PT ES Mu FR Co Sa Si IT MT IE GB BE NL LU DE CH AT CZ SK HU RO YU AL BG GR Cr Rd TR IL Pa Car Jf Js Hf LB Bsa CY IQ Agh TH IR Shr Fa Sse Ahz DK NO SE EE LV RU MD UA BY AF Ca PK Bl Cp Qu ZA ZA04 ZA05 ZA06 ZA27 Kzu Nta Lpo Tva Spb Mdk SH MG MN CN KG sKG Tks Dtk Mre Cp Haz Cls Cn Md Az IN AZ Nv AM Cm SY Hal YE Bea Clo Orn Ges MM ZW TM NA AE CL Gg Cls 01 05 06 07 09 12 13 16 17 22 23 27 30 31 33 34 42 44 45 46 48 51 52 56 58 59 63 65 72 73 01B 01D 01G 01H 01J 01L 01Le 05A 09K 09Ka 12A 12Ai 13A 13Ac 13Ax 13F 13F22 13F25 13F25a 13F38 13G 13G1 16A 23M 30B 30Bç 30Bç1 30Bz 31K 31Ka 33A 33Aa 33Ak 33An 33G 33R 44L 44Le 48L 52G 52Gb 56F 56Fa 56F1 58N 63D 65A 65Ai 65Am2 65Am4 65Am 65D 65Df 65G 65Gb 65Gn 65Go 65F 65Fp 65Fz 65K 65Kl 65Z 65Kr 65N 65Nc 65Nc2 65Np 65Nm 73F

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

28. *Rhodostrophia (Asiotrophia) auctata* (Staudinger,1879)

Synonymy: *auctata* Staudinger,1879

Original Reference: *Pellonia auctata* Staudinger,1879, Horae Soc. ent. ross. 14: 441-443. Syntypes ♂♀: [Türkei]: "Amasia (Maidan)".

Range (as code): TR Cc Arr Ksp IQ IR Fa Com Kz 01 04 05 06 12 13 23 24 25 29 38 42 43 44 46 49 50 51 56 57 58 61 62 65 69 70 71 76 01D 01L 01Lb 01Lh 04C 04Cf 05A 06R 06Rd 12A 12Ab 13A 13Ab 13Ac 13Ac2 13Ax 23M 25N 25Na 44E 44Eb 44Ei 44I 44Ic 44L 44Lc 46G 46Gi 50F 50Fb 51D 51Db 56F 56Fs 58N 61K 65A 65Ac 65Ac3 65An 65Am 65Am1 65Bx 65D 65Df 65F 65Fg 65F1 65Fq 65Fz 65G 65Gb 65Ge 65K 65Kl 65Kl1 65Kl6 65Z 65L 65Le 65N 65Np 65Np2 65Np4 65Np8 65Nr2 65Nr4 65Nm 76C

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

29. *Scopula beckeraria* (Lederer,1853)

Synonymy: *beckeraria* Lederer,1853; *pseudoafghana* Ebert,1965

Original Reference: *Acidalia beckeraria* Lederer,1853, Verh. zool.-bot Ver. Wien 3: 258. Syntypes: [Aserbaidjan]: Elisabethpol [=Kirovabad]; [Russland]: Sarepta.

Range (as code): IT RO SS MK BG GR TR AZ Nv Kir RU Da Sj AZ Nv Ord Der Da Kur GG Cc IL Pa He LB Bsa UZ Fe KG Nrl Jsn Ui Ku MN IR Fa Sse Com Kz Shr Ahz Ke AF Bm 01 04 05 06 07 13 14 24 25 27 30 36 42 44 47 51 56 58 63 65 71 72 76 01H 04C 04Cf 05A 06K 06Kc 06R 06Rd 13A 13Ab 13Ax 13F 13F38 42B 44E 44Ei 51B 51Bc 56F 58N 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65Gf 65Gy 65K 65Kl1 65Kl6 65Z 65L 65Le 65M 65Md 65N 65Np1 65Nm 76A 76Ac 76D 76Da

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

30. *Scopula orientalis* (Alpheraky,1876)

Synonymy: *orientalis* Alpheraky,1876; *#magna* L.B.Prout,1913; *#orientata* Wardikyan,1970

Original Reference: *Acidalia decorata* var. *orientalis* Alpheraky,1876, Trudy russk. ent. Obsch. 8: 197. Syntypes: Russia: Taganrog; Lectotype ♂, designated by Hausmann (2004).

Range (as code): MK BG TR RU Ro Ur Tgn Cc AM GG IR Fa Com Kz UA Cm 08 13 25 29 36 50 58 65 69 76 08H 08Hb 13A 13Ab 13Ac2 13Ax 25E 25F 36F 50G 50Gd 58N 58Nb 65D 65Df 65F 65Fp 65Fz 65G 65Gb 69B 69Bc 76D 76Da

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

31. *Synopsidia phasidaria* (Rogenhofer, 1873)Synonymy: *phasidaria* Rogenhofer, 1873Original Reference: *Nychiodes phasidaria* Rogenhofer, 1873, Verh. zool.- bot. Ges. Wien 23 (Abh.): 572. Type ♀: [Georgia]: "Im sommer bei Achalzik".

Range (as code): Cc GG Smt Akh AF Kab IR Ha Avd Es Fa Com Kz Shr Elb Th Dam Kh TM Noc AZ Nv Ord TR 04 13 30 65 73 04C 04Cf 13G 13Gs 13Gw 30D 30Df 65F 65Fp 65Fç 65Fz 65G 65Gb 73A 73Ad 73Ad2

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 27.viii.2017, M. Kemal & A.Koçak leg. (Cesa).

32. *Thetidia persica* Hausmann, 1996Synonymy: *persica* Hausmann, 1996Original Reference: *Thetidia (Antonechloris) persica* Hausmann, 1996, Nota lepid. 19 (1/2): 27-29, figs. Holotype ♀: Iran: Elburs mts.c.s., Tacht i Suleiman, Sardab Tal (Vandarbad), 2500-2700m, leg. Pfeiffer & Forster (ZSM).

Range (as code): IR Elb Mz Ak Ab TR 04 13 30 46 58 65 04C 04Cf 13A 13Ab 13Ax 13G 13Gü 13Gw 30B 30Bd 30Bc1 30Bç 30Bt1 30Bz 30D 30Df 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dh 65Dg 65Dga 65F 65Fg 65Fp 65Fz 65G 65Gb 65Gf 65Gy 65L 65Le 65N 65Np 65Nm

Material studied: 1♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Lasiocampidae**33. *Lasiocampa eversmanni* (Kindermann, 1843)**Synonymy: *eversmanni* Kindermann, 1843; *eversmanni* Freyer, 1844; *atritra* Stshetkin, 1960.Original Reference: *Gastropacha eversmanni* Kindermann, 1843, [in] Eversmann, Bull. Mosc. 1843 (3): 542, Pl.10 figs. 2a-c.

Range (as code): BG TR AF Srb Sfk IR Mz Kh TM Kp UZ TJ KK Ik KG TrA Aa DsA Tar IQ Brs Dia Ry Rwz JO Amm GG AZ Kir Tbl Bak AM Cc RU Ao 01 04 06 07 13 19 21 23 25 30 36 44 46 50 56 58 62 63 65 70 71 72 73 01L 01La 01Lb 04D 04Da 06D 06Da 06N 06Nc 06R 07C 13A 13Ab 13Ac 13Ac2 13Ax 13C 13Cf 13F 13F22 13G 13G1 19P 21N 21Nb 23I 30B 30Bh 30Bg 30Bt1 30Bz 30D 30Df 30Dh 44I 44Ic 56A 56Aa 56F 58N 63M 65A 65Am 65Am4 65Ai 65B 65Bn 65Bn1 65D 65Df 65Dt 65F 65F1 65Fş 65Fp 65Fz 65G 65Gb 65Ge 65Ge 65K 65Kd 65Kğ 65Kl6 65Z 65Ku 65N 65Nc 65Np 65Np2 65Np7 65Np8 65Nr8 65Nm 73D 73Db ,

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).**34. *Malacosoma castrensis* (Linnaeus, 1758)**Synonymy: *castrensis* Linnaeus, 1758; *ksiezopolskii* Sheljuzhko, 1943Original Reference: *Phalaena Bombyx castrensis* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 500. Syntypes: Habitat in Salicibus, *Pilosella*, *Jacea*, *Alchemilla*, *Euphorbia*.

Range (as code): PT ES FR Co IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU MD UA Cm BY LB Bsa KK Ik UZ TJ KK KG TrA DsA KuA TeA Ik Ssn Lps Tar GG Mng Bjo Smt Lag Kir AZ AM Cc TM Kp IR AF MN CN Ti 02 04 05 06 12 13 14 16 23 24 25 30 33 35 36 38 42 44 53 56 58 60 65 71 76 02F 02Fd 02Fz 04I 05A 06A 06Aa 06R 06Rb 06Re 13A 13Ab 13Ac 13Ax 13F 13G 13G1 13Gi 13Gy 16A 23I 24G 25C 25Ca 25F 25T 30B 30Ba 30Bç 30Bt1 30Bz 30Bl 30D 30Da 36D 36F 42R 44L 44Lc 49E 49Ea 56F 60C 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dg 65Dga 65Dr 65Drb 65F 65Fd 65Fe 65Fç 65Fc 65Fe 65Fp 65Fz 65G 65Gb 65Ge 65Gf 65Gy 65K 65Kd 65Kğ 65L 65Le 65N 65Np 65Np1 65Np2 65Nr2 65Nm 76B 76Bf 76Bh 76C 76D 76Da

Material studied: 9♂4♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).**Noctuidae****35. *Acontia (Emmelia) trabealis* (Scopoli, 1763)**Synonymy: *trabealis* Scopoli, 1763; *arabica* Hufnagel, 1766; *sulphuralis* Linnaeus, 1767; *sulphurea* [Denis & Schiffermüller], 1775; *lugubris* Fabricius, 1777; *histrionella* Goeze, 1783; *arlequinetta* Fourcroy, 1785; *trabeata* Borkhausen, 1790; *pardalina* Walker, 1865; *deleta* Staudinger, 1877; *flavonitens* Austaut, 1880; *algira* Oberthür, 1881Original Reference: *Phalaena trabealis* Scopoli, 1763, Entomologia Carniolica: 240. Type(s): [Slovenien]: Carniolia [Krain].

Range (as code): MA DZ TN PT ES Mu FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR CY LB Bei IL Hf Pa SY JO DK NO SE FI EE LV LT RU Tv Am Sb MD UA BY IR Ab Mak Mz Th Elb Kd Snj Km Lo Kz Yas Ss Bk Qz IQ Agh Amr AM GG AZ Len Cc AF PK Bl Qu Ui Ku SA SA63 Us MN MU KK Ik Skm Osh Ro Kr St Kb Kc Nt Ich Ing Kyi Da Oru Bne Mrv Bjr Zj GlS Bsk Abe Sbd Rbt Anna KG Db Kdy 01 04 05 06 07 08 11 13 16 18 30 32 33 36 38 41 42 46 50 55 56 58 59 60 65 66 71 75 76 01E 01Ea 01H 04C 04Cf 05A 06R 06Rd 13A 13F 13F21 13G 13Gg 16A 30D

30Df 30Dx 36D 36Db 38H 38Hc 46G 46Gf 55F 56F 58N 60G 65A 65An 65D 65Du 65G 65Gb 65K 65Kl 65Z 65L 65Lb 65Le 65M 65Mc 65Md 75F 75Fb 75Fd 75G 75Gb 76B 76Bf 76Bh 76Bj 76D 76Da
Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

36. *Amphipyra (s.str.) micans* Lederer, 1857

Synonymy: *micans* Lederer, 1857; *frivaldskyi* Mocsary, 1896

Original Reference: *Amphipyra micans* Lederer, 1857, Wien. ent. Monatschr. 1:94. Type(s): [Libanon]: Beirut.

Range (as code): RO HU MK BG GR SY LB Bei TR Cc IR Es CY IL Pa Hf 01 05 06 08 13 24 25 30 31 33 36 42 46 51 56 58 62 65 66 01K 01L 01Lh 01Lk 05A 08H 08Hb 13F 13F71 13G 13Gy 25F 25R 30B 30Bç 30Bd 30Bz 30D 30Da 30Dt 31K 31Ka 31Ka3 33E 36F 36Fb 51B 51Ba 56F 58G 58Gi 65A 65Ac 65Ac3 65D 65Df 65Dn 65Du 65F 65Fa 65Fm 65G 65Gb 65I 73C 73Cd

Material studied: 3♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

37. *Antarchaea conicephala* (Staudinger, 1870)

Synonymy: *conicephala* Staudinger, 1870 [April]; *conicephala* Staudinger, 1870 [Oct.]; *barcinonensis* Milliéré, 1872; *fumicollis* Rogenhofer, 1873.

Original Reference: *Thalpochara conicephala* Staudinger, 1870, Berl. ent. Z. 14: 121. Syntypes: [Spanien]: Catalonia, Malaga; Macedonia; [Iran]: Persia.

Range (as code): MA FR ES An Mlg Mu BG MK GR Cr CY RU IR Gor Hz Ss Ab Mak Elb Th TR Cc AZ Nv Ord IT Si HV SY SA YE AM EG AE SD 04 05 08 33 36 44 56 65 76 04C 04Cf 05A 08H 33A 33Ac 33R 33Rb 44L 44Lc 56F 65G 65Gb 76B 76Bb

Material studied: 1♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This record is new for the fauna of Van Province.

38. *Calamia staudingeri* Warnecke, 1941

Synonymy: *staudingeri* Warnecke, 1941

Original Reference: *Calamia staudingeri* Warnecke, 1941, Z. wien. entVer. 26: 101-102, fig. Syntypes: [Turkey]: [Adana Pr.]: "Hadjin"; "Sivas"; [Konya Prov.]: "Ak-Schehir"; Armenien.

Range (as code): TR IQ Cc AM RU Ich IR Fa Elb Bk Lo By Es Ha Th Mz Plr Dam Kd 01 04 13 25 30 36 38 42 51 58 65 69 76 01K 04C 13A 13Ab 13Ac 13Ac2 13Ax 13B 13G 13Gü 13Gw 30D 30Dp 42B 58N 65B 65Bo 65Bx 65D 65Dd 65Df 65Dg 65Dga 65F 65Fa 65Fp 65Fz 65Fr 65G 65Gb 65Ge 65Gü 65Gz 65K 65Kd 65Kg 65Kl6 65Z 65N 65Np2 65Nm 69B 69Bc 76C 76D 76Dd

Material studied: 17♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

39. *Chersotis (s.str.) fimbriola* (Esper, [1798])

Synonymy: *fimbriola* Esper, [1798]

Original Reference: *Phalaena fimbriola* Esper, [1798], Die Schmett. 4(2/2): 53, Taf.193, fig.3. Type(s): Ungarn: [Budapest].

Range (as code): MA Rf ES FR Si IT CH AT SK HU RO YU AL BG GR Cr TR Cc AM Eri Geg GG AZ Nv Ord RU Ro Kb Nt Ich MD UA Cm BY IR Kh KuB Elb Kdv Dam Fa Bk By Es Ha Zj Mz Th Ab Bne Sqq Mrv Oru Sdt Lo Kd TM IQ 01 03 04 05 06 08 12 13 18 19 23 24 25 29 30 33 36 38 42 44 46 49 50 51 56 58 60 65 66 69 70 73 76 01K 01L 01Lf 04C 04Cf 04D 04Da 04I 05A 06A 06Aa 06B 06Bb 06C 06Cb 06K 06Kc 06R 06Ra 06Y 06Yb 08H 08Ha 08Hb 13A 13Ab 13Ax 13B 13C 13Cf 13F 13F7 13F71 13G 13Gf 13Gy 13Gü 13Gw 19C 23I 25C 25Ca 25F 29A 29Ab 30B 30Bd 30Be 30Bg 30D 30Df 30Dt 33A 33Ac 36D 36Df 36F 36G 38G 38Ga 42B 42D 42O 44F 44Fa 44L 44Lb 44I 46G 49E 49Ea 50G 50Ga 56F 56Fb 56Fq 56Fs 58N 60C 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Df 65F 65Fa 65Fm 65Fp 65Fz 65G 65Gb 65Ge 65K 65Kl6 65Z 65N 65Np1 65Np2 65Nm 66P 70C 70Cb 71C 71Cd 73C 73Cd 73D 73Da 76C

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

40. *Dichagyris (Yigoga) truculenta* (Lederer, 1853)

Synonymy: *truculenta* Lederer, 1853

Original Reference: *Agrotis truculenta* Lederer, 1853, Verh. zool.-bot. Ver. 3: 367. Syntypes: [Kazachstan]: Vorberge Altai.

Range (as code): RU KG At TJ Pm Chr TR SY IL Pa He LB Bsa IR Fa Ss Kh Bl Elb Dam Kdj Th Kz Yas Lo KuB CN Ui 01 04 13 25 30 38 46 50 51 58 62 65 69 70 73 01L 01Li 04I 13A 13Ac 13Ac2 13Ax 13G 13Gü 13Gw 25D 30B 30Bç 30Bh 30Be 30Bz 30Bj1 30D 30Df 42B 42D 51B 51Bc 58G 62G 65Bx 65D 65Df 65Dn 65F 65Fa 65Fp 65Fz 65Fm 65G 65Gb 65Ge 70C 70Cb 73C 73Cd

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

41. *Drasteria caucasica* (Kolenati,1846)

Synonymy: *caucasica* Kolenati,1846; *astrida* Eversmann,1856; *aksuensis* Fuchs,1903.

Original Reference: *Euclidia caucasica* Kolenati,1846, Meletamata Ent. 5: 104. Syntypes: [Georgia]: Caucaso Lhesgico & Iberia.

Range (as code): RO AZ Kir Hkd Nv Ord Bak GG Smt Akh AM Cc RU To Ro Kr Ich Kyi Da TR IR Fa Ha Elb Th Kdj UZ Fe Man Nmg Ui Khr Ku Au KK Frz Ik Osh Skm KG Sp DsA Uk Tk Dj Aa AF Hr Srb Blh Pli Bd Bark TJ Pm Chr 13 21 23 24 25 30 36 42 44 50 51 58 65 73 13A 13B 21N 21Nb 25T 30B 30Bd 30Bg 30Bt1 30Bz 36D 36Db 44L 51D 58G 58Ga 65B 65Bo 65Bx 65D 65Dv 65F 65Fr 65Fp 65Fz 65G 65Gb 65K 65Kl 65Z 65Ku 65L 65Lb 65N 65Np 65Np5 65Nm 73A 73Ad 73Ad2

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

42. *Drasteria herzi* (Alpheraky,1895)

Synonymy: *herzi* Alpheraky,1895

Original Reference: *Leucanitis herzi* Alpheraky,1895, Dt. ent. Z., Iris 8: 198-199. Syntypes ♂♀: [Turkmenistan]: Achal-Tekke (ZIN, St.Petersburg).

Range (as code): TR Cc RU Da GG AM AZ Kir Nv Ord IL Pa JO EG Sn IR Kh TM Kp KK Ax Skm Ui KG Tk Dj o6 13 36 51 65 06Y 13G 13Gü 13Gw 51D 51Da 65Bx 65G 65Gb 65Ge 65N 65Np5 65Nm

Material studied: 6♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

43. *Drasteria saisani* (Staudinger,1882)

Synonymy: *saisani* Staudinger,1882; *clara* Staudinger,1895; *#zaisani* John,1910.

Original Reference: *Leucanitis saisani* Staudinger,1882, Stettin ent. Ztg. 43:53. Syntypes: [Kasachstan]: Saisan.

Range (as code): RU Da KG Tar Ssn Tk Dk TR IR Kh KuB Elb Th Diz Dam Plr KK Ik T-A Feg Skm Ui Ii PK AF Nu Bsg AZ Kir Nv Ord Cc TM Kp UZ N-A 01 04 06 08 12 13 21 25 30 33 36 42 44 47 49 50 51 56 58 65 66 76 04C 04Cf 06B 06Bb 06C 06Cb 06R 06Re 08H 13A 13Ac 13Ac2 13Ac 13Ax 13F 13F19 21L 21Lc 30B 30Bc 30Bc1 30Bc5 30Bd 30Bg 30Bz 30D 30Da 30Df 33R 36D 36Db 36F 49E 49Ea 56F 58G 65A 65Am 65Am1 65Am4 65C 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65K 65Kb 65Kl 65Kl1 65Kl6 65Z 76D 76Da

Material studied: 3♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

44. *Episema lederi* Christoph,1885

Synonymy: *ledereri* Christoph,1885; *sareptana* Alpheraky,1897; *#ledereri* Wiltshire,1937.

Original Reference: *Episema lederi* Christoph,1885, [in] Romanoff,N.M., Mém. lépid. 2: 44-45, pl.iii figs. 1a,b. Syntypes: [Azerbaijan]: "Helenendorf".

Range (as code): RO MK BG GR RU Da TR Cc AZ Kir CY TM Kp SY IQ Dy Dia Kq Pa IL IR Gh Elb Th Km Ksh Shr GlS AF 04 05 06 21 23 25 36 38 42 44 46 47 49 50 56 58 60 62 63 65 72 04D 04Da 05A 06E 06Ea 06R 06Rq 06Y 06Yb 25D 44E 46A 49F 49Fe 56E 56Eh 56F 56Fç 56Fj 58G 58R 63D 63E 63L 65B 65Bb 65Bx 65G 65Gb 65Ge 65N 65Np1 65Nm

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

45. *Eublemma caelestis* (Brandt,1938)

Synonymy: *caelestis* Brandt,1938

Original Reference: *Porphyria caelestis* Brandt,1938, Ent. Rdsch. 55: 558-559, figs. 168-171. Syntypes: Iran: [Fars]: Fort Sine-Sefid, Comée.

Range (as code): IR Fa Zj Kd Bjr TR PK 13 23 30 44 58 65 13A 13Ab 13Ax 13B 23G 23Ga 30B 30Ba 30Bt1 30Bz 58G 58Ga 65D 65Df 65Fz 65G 65Gb 65K 65Kd 65Kg 65N 65Np5 65Nm

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

46. *Eublemma compunctum* (Lederer,1872)

Synonymy: *compuncta* Lederer,1872; *aftob* Brandt,1938.

Original Reference: *Thalpocharis compuncta* Lederer,1872, Horae Soc. ent. ross. 8: 13 Taf.2 fig.2. Lectotype: Iran, Astrabad, designated by Hacker (1999) (MNHU Berlin).

Range (as code): TR IR Gor Fa Sse Kd Sqg Bne Mrv Bjr Zj Lo AF 04 13 65 65D 65Df 65Fz 65G 65Gb 65K 65Ky

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

47. *Eublemma minutatum* (Fabricius,1794)

Synonymy: *minutata* Fabricius,1794; *noctualis* Hübner,1796; *paula* Hübner,[1809].

Original Reference: *Phalaena minutata* Fabricius,1794, Ent. Syst. 3 (2): 205. Type(s): Halae [Halle].

Range (as code): ES FR Co IT BE DE CH AT PL CZ SK RO YU AL BG GR AM TR Cc GG Lag AZ Nv Ord DK NO SE FI EE LV LT RU Ro Ich MD UA BY LB Bsa 08 13 18 24 25 30 36 42 44 46 47 50 56 58 60 65 76 13A 13Ab 13Ac 13Ac1 13Ax 13F 13F7 13F71 30B 30Bt1 30Bz 30D 30Df 36D 36Db 44E 44Ei 44L 44Lc 47D 56F 56Fc 56Fs 56Fq 58N 58Nc 65A 65Am 65Am1 65D 65Df 65Dh 65Fz 65G 65Gb 65Gf 65Gy 65N 65Nb 65Np1 65Np6 65Nm 76B 76Bb 76C

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

48. *Eublemma pallidulum* (Herrich-Schäffer,1856)

Synonymy: *pallidula* Herrich-Schäffer,1856

Original Reference: *Anthophila pallidula* Herrich-Schäffer,1856, Syst. Bearb. Schmett. Eur. 6: 178.

Type: [Turkey]: "Amasia".

Range (as code): DZ Ath Gle Omy RU Ro TR Cc AZ Nv Ord BH IR Elb Lo Kd Snj Kz Yas CY TM UZ Fe KK Ik Na CN Ui Ii LB Bsa SA AF PK Gg Jug NG 01 05 12 13 23 24 25 30 33 36 42 44 47 50 51 56 58 62 65 66 73 76 05A 13A 13Ac 13Ac2 13Ax 13B 13C 13Cf 13F 13F38 13G 13Gw 23G 23Ga 25R 33A 36F 42J 42X 42Xa 44I 47D 56F 56Fc 56Fm 58G 65D 65Df 65Fz 65G 65Gb 65Gv 65Gü 65Gz 65K 65Kd 65Kg 65L 65Lb 65N 65Np2 65Nr6 65Nr8 65Nm 73C 73Cd 76C

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

49. *Eublemma panonicum* (Freyer,1840)

Synonymy: *panonica* Freyer,1840; *kindermannii* Boisduval,1840; *lenis* Eversmann,1844; *#panonica* Staudinger,1901

Original Reference: *Anthophila panonica* Freyer,1840, Neuere Beitr. Schmett. 4: 67, Taf.330, figs.3,4. Syntypes: Unterungarn.

Range (as code): SK HU RO BG RU Ro Da Cc AZ Kir GG Smt Akh UA RU Ur At AF TR IR Elb Th Fa 04 05 07 08 18 13 23 25 30 33 36 42 44 46 47 56 58 65 76 04D 05A 13A 13Ac 13Ac2 13Ax 13G 13Gw 13F 13F71 18F 25R 30D 30Df 33A 33Ac 33Ac 33Am 36F 36Fb 44E 44Eh 44I 47D 56F 56Fs 65D 65Df 65F 65Fm 65G 65Gb 65K 65Kd 65Kg 65Ky1 65Kl6 65Z 76C

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

50. *Eublemma parvum* (Hübner,[1808])

Synonymy: *parva* Hübner,[1808]; *rubefacta* Mabilite,1869; *chalybea* Swinhoe,1884; *nymphodora* Meyrick,1902.

Original Reference: *Noctua parva* Hübner,[1808], Samml. eur. Schmett., Noctuae: Taf.77 fig. 356.

Type(s): [Europa].

Range (as code): MA DZ TN LY EG SD PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT CZ SK HU PL YU AL BG GR Cr CY TR DK RU MD UA IL Hf SY IQ Brs Ry Rwz Dia Agh Amr LB Bsa JO SA IR Ab Mrd Elb Th Kdj Kd Sqq Mak Fa Ss Kh Bk Ha AF Hr Srb Gbh Kab Ca Dwe Arh PK IN TH ID ZA YE Ad AU Snj Mia Km Kz Yas Hz B-A Cc St Da Len AZ Nv Ord Bne Mrv Hrh Ges Perr Sfr Sbd Abe Btma Clo Tgr Hes 01 05 07 08 13 16 25 30 31 33 44 46 47 48 50 56 58 63 65 80 05A 07C 13A 13Ab 13Ax 13F 13F35 16A 30B 30Bç 30Bz 30D 30Df 31K 31Ka 33A 33Ao 33Ar 44E 44Ei 47D 48L 56E 56Eh 56F 56Fm 56Fö 58N 63E 63L 65A 65Am 65Am1 65D 65Df 65Dg 65F 65Fp 65Fz 65G 65Gb 65K 65Kl 65Kl6 65Z 65L 65Le 65N 65Nc2 65Nc4

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

51. *Eublemma pulchralis* (De Villiers,1789)

Synonymy: *pulchralis* De Villiers,1789; *candidana* Fabricius,1794; *minuta* Hübner,[1809]; *perlana* Geyer,[1830]; *skafiota* Freyer,1845; *impura* Staudinger,1871

Original Reference: *Pyrallis pulchralis* De Villiers,1789, Linn. Ent. 2: 452.

Range (as code): DZ PT ES Mu Sa Si FR IT YU GR Cr TR IR Fa IQ CY AM GG Smt Akh Cc TM 13 33 35 44 46 47 58 65 13A 13Ab 13Ax 33A 33Ac 33Ak 44L 44Lc 47D 58N 65A 65Ai 65G 65Gb

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

52. *Eublemma stramineum* (Staudinger,1892)

Synonymy: *straminea* Staudinger,1892

Original Reference: *Thalpochara straminea* Staudinger,1892, Dt. ent. Z., Iris 4: 322-323.

Syntypes: [Turkey]: "Hadjin, Gjaurdagh, Malatia".

Range (as code): GR Sms Rd TR Cc IR Ha AF Hr Gbh Srb Bsg CY BH IQ 01 04 13 23 30 36 44 46 50 58 62 65 72 13A 13G 13Gg 23I 30B 30Bf 30Bz 36D 44F 44Fa 65F 65Fp 65Fz 65G 65Gb

Material studied: 4♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

53. *Eugnorisma (s.str.) eminens* (Lederer,1855)

Synonymy: *eminens* Lederer,1855; *excellens* Staudinger,1867

Original Reference: *Graphophora eminens* Lederer,1855, Verh. zool.- bot. Ges. Wien 5: 106, Taf.1 fig.5. Syntypes: [Kazachstan]: Altai.

Range (as code): Cc GG AM TR IR Elb Th Kh KuB Dam Mz KG At AF RU Sb Ssn KK Ik CN Ui Ii UZ TJ Pm Chr PK Psu IN 04 12 13 25 30 36 65 73 04D 04Da 13G 13Ga 13Gü 13Gw 30B 30Be 65C 65D 65Df 65F 65Fa 65F1 65Fm 65Fp 65Fz 65G 65Gj 65Gb 65Gü 65Gz 65K 65Kl6 65Z 73C 73Cd

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

54. *Euxoa (s.str.) conspicua* (Hübner,[1824])

Synonymy: *conspicua* Hübner,[1824]; *agricola* Boisduval,1829; *lycarum* Herrich-Schäffer,1846; *abdita* De Joannis,1891; *#indistincta* Strand,1915; *osthelderi* Corti,1931; *complicata* Corti,1931.

Original Reference: [*Noctua*] *conspicua* Hübner,[1824], Samml eur. Schmett. 4: pl. 154 figs. 718, 719. Type: Europe.

Range (as code): PT ES FR Co IT RO YU BG GR TR Arr GG Akh Smt Bjo Tbl Lag Cc AZ Kir Hkd RU Ro Kr St Kc Kb Nt Ich Ing Da Kyi MD UA BY MN KG Tks Ssn Na Tk Dj KK TrA Aa UZ IR Ab Ak Mz Th Kd Ha Fa Ss Kh Ke Ha Mz Enz Ui Ku Ii Kml AF Blh Arh Srb IQ Tkr LB Bsa PK IN Hp Sb SY CY sKG Nv Ord Da Der Kus Oru Khy Mar GlS Bbu Sai Nar 01 03 04 05 06 13 18 23 24 25 30 33 36 38 42 44 45 46 50 51 58 60 62 65 66 70 71 75 76 01K 03E 04C 04Cf 05A 06R 06Rb 06Rk 06Y 06Yb 13A 13Ab 13Ae 13Ax 13G 13Gü 13Gw 18F 24K 24Kl 25A 25C 25Ca 25R 30D 30Dc 33A 33Ae 36F 38C 38Cb 38G 38Ga 42R 42Rc 44I 45P 50G 50Ga 50Gb 50Gc 51B 51Ba 58G 58N 58R 60C 62G 65A 65Ab 65Aba 65N 65Np5 65Nm 65D 65Df 65Dh 65Ds 65Du 65F 65Fa 65Fg 65Fm 65Fp 65Fz 65G 65Gb 65Ge 65K 65Kl 65L 65Lb 65N 65Np2 65Nm 66P 75E 76C

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

55. *Euxoa (s.str.) homicida* (Staudinger,1900)

Synonymy: *homicida* Staudinger,1900; *#homicia* Hacker & Kautt,1999.

Original Reference: *Agrotis homicida* Staudinger,1900, Dt. ent. Z., Iris 12: 363, Taf.vi, fig.7.

Syntypes: [Türkei]: Zeitun [=Süleymanli]; Amasia, Konia.

Range (as code): IT Si RO GR Cr TR Cc IR Kh Fa Ke Ha Ss Elb Kdv Dam Kdj Kd Lo Hz Th Mz GlS TM Kp AF Hr Gbh Arh Srb PK KK Ax CN Ui Kl Kno Ts KG Tk TrA TJ Pm 04 05 06 07 13 18 24 25 29 30 32 36 40 42 44 46 50 51 58 60 62 65 66 71 04C 04Cf 04D 04Da 05A 05G 06Y 06Yb 07A 13A 13Ab 13Ax 13G 13Gü 13Gw 18F 18I 24L 25A 25C 25Ca 25R 29F 30D 30Da 30Db 30Df 32F 36D 36Dd 36F 40D 42D 42R 42Rb 42Rc 44E 46L 50G 50Ga 50Gb 50Gc 50Gd 51B 51Ba 58G 58N 58R 60C 62G 65D 65Df 65Fz 65G 65Gb 65Ge 65B 65Bo 65Bx 65K 65Kl 65Z 65N 65Np2 65Np5 65Nm 66P 68B 68H

Material studied: 11♂♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

56. *Euxoa (s.str.) scurrilis* Draudt,1937

Synonymy: *scurrilis* Draudt,1937

Original Reference: *Euxoa scurrilis* Draudt,1937, in Seitz, Die Gross-Schmett. Erde 3(suppl.):268.

Syntypes: [Iran]: Elbursgebirge...

Range (as code): TR Cc IR Elb Th Dam Lo Fa Com IQ 01 12 13 24 25 30 36 42 50 51 58 65 01L 01Li 12C 12Cb 13G 13Gü 13Gw 25C 25Ca 25R 25T 30B 30Bg 30Bz 30D 30Da 30Df 36D 51B 51Ba 51Bc 58G 58Ga 58Gi 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65K 65Kb 65Kl6 65Z

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

57. *Fissipunctia corticea* (Esper,[1800])

Synonymy: *#ypsillon* [Denis & Schiffermüller],1775; *ipsilon* Goeze,1781 nec Hufn.,1766; *corticea* Esper,[1800]; *fissipuncta* Haworth,1809; *upsilon* Curtis,1828; *plebeja* Staudinger,1888; *orenburgensis* Bartel,1902; *obertueri* Rothschild,1920; *glaisi* Lucas,1931

Original Reference: *Phalaena corticea* Esper,[1800], Die Schmett. 4: 463, Tab. 145 figs. 2,3.

Range (as code): MA DZ Btina Sbd Abe PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR GG Tbl Smt Bjo Lag AZ Kir Cc CY IQ IR Ha Mz Elb Kd Snj Lo GlS Kh DK NO SE FI EE LV LT RU Ro Kr St Kb Ich Ing Kyi Or Sb At Us MD UA Lvv BY AF Balk UZ Smk N-A 01 06 10 13 17 25 30 35 36 49 50 51 58 60 62 65 66 75 01H 06R 13A 13Ab 13Ax 25A 25R 30D 30Da 35C 36F 49E 49Ea 50G 50Ga 51B 58G 58Gi 65G 65Gb 75F 75Ff

Material studied: 1♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This record is new for the fauna of Van Province.

58. *Haemerosia renalis* (Hübner,[1813])

Synonymy: *renalis* Hübner,[1813]

Original Reference: *Pyralis renalis* Hübner,[1813], Samml. eur. Schmett. Pyral.2: Taf.24 fig.157.

Type(s): Europa.

Range (as code): ES FR Si IT YU BG GR TR Cc IR Fa Com Ss Kh By Lo Elb Th Kd Bne IL Pa LB 01 05 06 09 12 13 15 16 25 30 32 33 36 40 42 46 47 50 56 62 65 66 72 73 01L 01La 01Le 01Lf 05A 06R 06Rb 06Re 09K 09Ka 12A 12Aa 16A 25T 25F 30B 30Bc1 30Bf 30Bz 33A 33Ad 33Ae 46D 46Dc 46G 46Gf 47D 56F 56Fi 65A 65Ai 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65K 65Kb 65Kl6 65Z 73A 73Ad 73Ad2

Material studied: 3♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

59. *Heliothis peltigera* ([Denis & Schiffermüller],1775)

Synonymy: *peltigera* [Denis & Schiffermüller],1775; *alpheia* Cramer,1780; *florentina* Esper,[1788]; *charmione* Stoll,1790; *straminea* Donovan,1793; *insulata* Navas,1924.

Original Reference: *Noctua peltigera* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 89. Type(s): [Austria]: Vienna district.

Range (as code): MA DZ Cn PT ES Mu FR Co Sa Si IT MT IE GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd CY TR DK SE FI EE LV LT RU MD UA BY IR Mz Fa Ke Lo By Yas Hz Ss Kh Ha PK Bl Qu IQ Mj JHa Amr Agh Kq Dk AF Hr Gbh Kab Srb Arh Dwe Bark Fz LB Bsa IN Dlh Hp NP JO Sn IL Pa Hf Dam Kdj Elb Th Ak Mrd Mia Kz Yas Km Kd Snj Hz B-A Maz Gls Kh GG AZ AM Cc KK TrA TM Kp UZ KG Ro Kr St Kb Kc Nt Ing Da CV MM Kha Tbl Smt Bjo Lag Bku Nv Ord Hmk Ktr Khh BSa Perr Sfr Dje DhM Abe Bsk Hrh Ges Clo Lbs Anna Ah Ajj 01 04 05 06 07 08 09 13 16 18 20 21 24 25 27 30 31 33 35 36 38 42 44 45 46 50 51 56 58 63 65 66 72 73 75 80 01L 01Lb 04C 04Cf 05A 07B 07Bb 09K 09Ka 13A 13Ab 13Ax 13F 13F25a 13F38 13G 13Gö 13Gg 13Gg 16A 18F 21N 21Nb 21Nc 21Nh 27D 27Db 30B 30Bç 30Bz 30D 30Df 31K 31Ka 31Ka3 31Ka7 33A 33Aa 33Ac 33Ad 33Ap 33E 36F 36Fb 44E 44Ei 44L 44Lc 46D 46Dc 56F 56Fo 56Fa 56Fb 56Fv 58N 63D 65A 65Am 65Am1 65Am2 65Am3 65An 65Ai 65At 65At5 65D 65Dda 65Df 65DI 65Du 65E 65Eb 65Ec 65Eç 65Ed 65F 65Fa 65Fd 65Fg 65Fp 65Fr 65Fz 65G 65Gb 65Ge 65K 65Kb 65Kl 65Kl6 65Z 65N 65Nc2 65Np 65Nr4 65Nr7 65Nr8 65Nm 73A 73Aa 73D 73Da 73Df 73Dfc 75F 75Fa

Remarks: This record is based upon the Info-systems of the Cesa.

60. *Mythimna (Aletia) l-album* (Linnaeus,1767)

Synonymy: *l-album* Linnaeus,1767; *penicillata* Moore,1881

Original Reference: *Phalaena l-album* Linnaeus,1767, Syst. Nat. (Edn.12)1: 850. Type(s): [Europa].

Range (as code): MA DZ TN PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR GG AZ AM Cc DK NO SE LV RU Ur MD UA BY IR Fa Ke Lo Es Ha Ss Gh Elb Th Dam Kdj Ab Kz Yas AF Gbh PK IN Pj Sml Dlh Hp Kul UP Bhi SI NP CY IQ LB Bei Bsa IL Pa KK KG CN UZ Lvv Tk Dj Ax N-A Ro St Kr Kb Nt Ich Da Thu Smt Bjo Lag Kir Nv Ord Oru Sdt Kd Bne Gls Kh Agi Anna Ges Lgt Blid Bsk BtNa Lbs Khh DhM Pr Abe Sbd Afl BSa Hrh Psu Gg Txl Abb Nar Sai 01 05 06 07 08 10 12 13 16 17 18 21 25 30 31 32 33 34 36 38 39 42 44 45 46 49 50 51 56 58 61 62 63 65 69 72 80 01L 01Le 01Li 05A 06R 06Rq 06Y 06Yb 08H 08Ha 13A 13Ab 13Ax 13B 13C 13Cd 13F 13F21 13F25 13F41 13G 13Gg 13Gü 13Gs 13Gw 16A 21N 21Nb 30B 30Bç 30Bt1 30Bz 30D 30Df 30Dt 30Dx 31K 31Ka 31Ka3 33A 33Ac 33G 36D 36Db 36F 36Fb 38H 38Hc 44E 44Eh 44L 44Lc 49E 49Ea 56F 56Fo 56Fb 56Fö 56Fv 56Fa 56Fm 56Fq 56Fi 58G 61K 61Ka 62G 62Gb 65A 65Ai 65B 65Bo 65Bx 65D 65Df 65Ds 65Dv 65F 65Fg 65Kr 65Fm 65Fp 65Fz 65G 65Gb 65Ge 65K 65Kl 65Kl1 65Kl6 65Z 65L 65Le 65N 65Nc 65Nc4 65Np7 65Nm

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

61. *Mythimna (Aletia) vitellina* (Hübner,[1808])

Synonymy: *vitellina* Hübner,[1808]; *#vitellena* Lederer,1870; *decolorata* Dannehl,1929; *saturationior* Dannehl,1929; *grisescens* Dannehl,1929.

Original Reference: *Noctua vitellina* Hübner,[1808], Samml. eur. Schmett.,Noct.2: Taf.81, fig.379. Type: [Europa].

Range (as code): Cn MA MR DZ TN PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ Brs Ry Rwx Dia Agh DK RU At MD UA BY PK Ch NP IN Pj Kul CN IR Lo Es Ha Kh Fa Mz Elb Th Kdj AF Hr UZ Fe KK Ik TM KG TJ CY AZ Bak GG Cc LB Bsa SY JO IL Pa T-A Kp N-A Br Ro Kr St Kc Kb Nt Ing Ich Da Tbl Smt Bjo Bku Kir Gls Agi Blid Khh Gue Ges BtNa BSa Anna Orn Abe Sfr Sbd DhM Sét Hrh Hmk Lvv 01 02 03 05 06 07 08 09 13 16 17 18 21 22 23 24 25 27 28 29 30 31 33 34 35 36 37 39 42 44 45 46 48 49 50 51 52 56 58 62 63 65 72 73 75 76 80 01L 01Lf 01Lh 01Li 01Lk 02F 02Fd 02Fz 05A 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 07B 07Bb 13A 13Ab 13Ax 13F 13F21 13F25 13F41 13G 13Gü 13Gw 16A 21L 21Le 21N 21Nb 21Nh 25C 25Ca 30B 30Bt1 30Br 30Bz 30D 30Df 30Dx 33A 33Ae 33G 36D 36Db 36F 36Fb 44E 44Eh 44Ei 44L 44Lc 46G 46Gf 48L 49F 49Fb 56E 56Eh 56F 56Fa 56Fb 56Fh 56Fo 56Fv 56F3 56F1 56Fs 56Fç 56Fy 56Fc 58G 58Gi 58R 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65D 65Df 65DI 65Dlc 65Ds 65Du 65Dv 65F 65Fa 65Fb 65Fç 65Fd 65Fg 65F1 65Fj 65Fm 65Fr 65Fp 65Fu 65Fz 65G 65Gb 65Ge 65K 65N 65Nc 65Nc4 65Kd 65Kç 65Kl 65Kl6 65Z 65Kp 65Ku 65L 65Lb 65Le 65N 65Nm 65Np 65Np1 65Np8 65Nr8 73D 73Db 75F 75Fe 76A 76Ac 76B 76Bb 76D 76Da

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

62. *Rhypagla lacernaria* (Hübner,[1813])

Synonymy: *lacernaria* Hübner,[1813]; *glarea* Treitschke,1826; *cretula* Freyer,1842

Original Reference: *Geometra lacernaria* Hübner,[1813], Samml. eur. Schmett. 5, Geometrae: Tab.82 fig.422. Type(s): Europa.

Range (as code): DZ ES Mu FR IT YU AL BG GR Cr TR GG Cc AM AZ Nv Ord IR Es Fa Kaz Kz Yas Kd Kh Elb Th IQ TIH CY LB IL Pa JO 02 03 05 06 07 13 20 21 27 42 44 45 46 47 50 51 56 63 65 70 02F 02Fe 02Fz 05A 07A 21N 21Nh 27D 27Dd 44L 44Lc 47D 56F 56Fb 63D 65G 65Gb 65Gf 65Gy 65K 65Kl 65Kl1 65Z 70C 70Ce

Material studied: 2♂♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

63. *Tholera decimalis* (Poda,1761)

Synonymy: *decimalis* Poda,1761; *popularis* Fabricius,1775; *lolii* Esper,[1785]; *typicoides* Donovan,1811; *nervosa* Zerny,1927; *chebka* Rungs,1940

Original Reference: *Phalaena decimalis* Poda,1761, Insecta Musei Graecensis: 92.
Type(s):[Austria]: Graz.

Range (as code): MA PT ES FR Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR GG Smt Bjo Tbl AZ AM Cc DK NO SE FI EE LV LT RU Ro Kr St Kc MD UA Lvv BY 06 12 13 14 21 25 49 56 65 06R 06R1 13C 13Cf 13D 13Da 14B 14Bb 21N 21Nb 25C 25Ca 49E 49Ea 56F 56F1 65F 65Fa 65Fp 65Fm 65Fz 65G 65Gb 65N 65Np 65Np1 65Np2 65Nm

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

64. *Zekelita (Ravalita) ravalis* (Herrich-Schäffer,[1852])

Synonymy: *ravalis* Herrich-Schäffer,[1852]; *revolutalis* Zeller,1852; *eremialis* Swinhoe,1889 nec Walk.,1859; *centralis* Staudinger,1892; *syriacalis* Staudinger,1892; *extorris* W.Warren,1913; *#pallida* Schawerda,1929; *#transcaspica* Brandt,1941

Original Reference: *Hypena ravalis* Herrich-Schäffer,[1852], Syst. Bearb. Schmett. Eur. 2: 425.
Type(s): [Türkei]: Amasia.

Range (as code): GR RU AZ Kir Cc Ich Da Der TR CY IL Pa Js LB Bei IQ Mos Dia Ry Rwz Brs Agh Amr KG KK PK Qu Sd IN Up Alh AF Hr Blh Gbh Srb Pli Bd Fz Pag Kab EG BH JO SY IR Ak Shf Fa Ss Kh Elb Gh Mz Kd Bjr Zj Ke Hz B-A TM Kp UZ Tas Fe Smk CN Ui Ga N-A ZA 01 05 06 07 08 13 18 24 25 27 30 31 33 35 42 44 46 47 50 56 58 62 65 69 70 72 76 01L 01Lf 05A 06R 06Y 08H 08Ha 13A 27D 27Da 30B 30Bc1 30Bç 30Bt1 30Bz 30D 30Dx 31K 31Ka 31Ka5 44E 44Eh 44Ei 46D 46Dc 50G 50Ga 56F 56Fv 56Fç 56Fö 58G 58Gb 58N 65D 65Du 65G 65Gb 65K 65Kz 65Kç 65N 65Np5 65Nm 76C 76D 76Da

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 27.viii.2017, M. Kemal & A.Koçak leg. - 3♂. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*,2018).

Oecophoridae**65. *Pleurota* spp.**

Remarks: For the time being, three nocturnal species of this genus have been collected from the area. They will be evaluated in a separate paper.

Pyraloidea**66. *Anarpia incertalis* (Duponchel,[1833])****(Figs. 3-6)**

Synonymy: *incertalis* Duponchel,[1833]; *pyrenealis* Duponchel,1842; *incertella* Duponchel,[1845]; *pyrenaeella* Duponchel,[1845]; *pyrenaicalis* Guenée,1846; *phycophanes* Meyrick,1937; *rupestris* Meyrick,1937

Original Reference: *Eudorea incertalis* Duponchel,[1833], Hist. nat. Lépid. Pap. Fr. 8 (2): 286-287, pl.229 fig.4. Type: Corse.

Range (as code): MA DZ BtNa Lbs TN PT ES Py FR Co Sa Si IT YU GR Cr TR Cc AZ Nv Ord Eri AM RU IR Elb Mz Dam Kh Ke Fa Shr IL Pa Js LB Bsa CY B-H SY JO Amm AF Kab Pag Sfk UZ KG KK IQ Rwz Shq Ry 04 05 13 16 44 46 50 56 65 73 80 04D 04Da 13F 13F18 13F19 13F29 13F35 13F40 13F41 46F 46Fj 50G 50Gd 56B 65A 65Ac3 65G 65Gb 73C 73Cd 80B 80Ba

Material studied: 3♂ (GP3283). Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 1♂. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported and illustrated by the authors from Van Province (Bahçesaray) (Kemal & Koçak, 2017a).

The names *phycophanes* and *rupestris*, described by Meyrick from northern Iraq, were synonymized by Nuss (1999) with *incertalis* without explanation. The *incertalis* specimens from SE Turkey have some differences from possible nominate subspecies from France, Anamur (South Turkey) and specimen from Iran (Alipanah, 2018) (Table 1).

Table 1 - Rates of the aedeagus (a) and cornutus (c) of *Anarpia incertalis* in some populations of Turkey, Iran and Europe.

A - rate of the aedeagus length / cornutus length. **1**- SE Turkey: Şırnak Prov., Tanin Tanin Pass (Nuss, 1999: 125). **2** – SE Turkey: Van Prov., Bahçesaray (Kemal & Koçak, 2017a: 189). **3** – SE Turkey: Van Prov., Gürpınar, Zerneke (present record, fig.3). **4** – SE Turkey: Bitlis Prov. Mutki (Akın,2014: 293). **5**- S. Turkey: Anamur (present record). **6**- Chapman (1912). **7**- Turkey (Goater *et al.* 2005). **8**- Iran (Alipanah, 2018: 531). **9** – France (Leraut, 2012: 180), **10**- *phycophanes* from Iraq, **11** – *rupestris* from Iraq.

	1	2	3	4	5	6	7	8	9	10	11
A= a/c	2.64	2.15	2.26	2.18	3.76	2.51	2.57	4.09	4.4	?	?

The rates of *Anarpia incertalis* of SE Turkey (Şırnak, Van and Bitlis) varies from 2.15 to 2.64. *Anarpia incertalis* from Turkey (Anamur) (3.76) and from Iran (4.09) seems closer to that of France (4.4), whereas Chapman’s figure has a rate 2.51. The rate in the figure from Turkey given by Goater *et al.* (2005) is 2.57. All these primary information on the ratio reveals that size of cornutus is very variable. Alipanah (2018) used these rates in the determination key between *Anarpia incertalis* and *Anarpia iranella* in Iran. Populations from northern Iraq are still unknown to us. In order to understand better the value of these rates, especially in Turkey, further studies are needed from morphological and molecular standpoints.



Figs. 3-6 – *Anarpia incertalis*. Male genitalia (GP3283) with removed aedeagus, last abdominal segment, tympanal organ (before & after preparation) and upperside of male. Van Province, Gürpınar, Zerneke. M. Kemal (Cesa).

67. *Ancylois hellenica* (Staudinger,1870)

Synonymy: *hellenica* Staudinger,1870; *deliciosella* Caradja,1910

Original Reference: *Myelois rhodochrella* var.? *hellenica* Staudinger,1870, Horae Soc. ent. ross. 7: 209210. Tab.2 fig.18. Syntypes 4♂: Griechenland: Attica.

Range (as code): LY Cy EG EG11 SD SA SA63 MK BG GR CY TR Cc IQ Shq Bgd Mos IL Hf Js Jer Jf Pa JO IR Elb KJ Th Fa Shr Ss Irs Ana Ke Ahz LB Bei Bsa SY Dms TM Kp AF Hr Kab Srb PK Nwf Bl Qu Gg Hu UZ Br o3 o6 o7 o8 o9 13 16 21 30 34 35 41 42 44 46 56 58 65 70 76 o8H o8Ha 13F 16A 30B 30Bç 30Bt1 30Bz 44I 44Ib 56F 65D 65Du 65Dt 65G 65Gb 65N 65Np 65Nm 70C 70Ce 76C

Material studied: 1♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

68. *Arsissa ramosella* (Herrich-Schäffer,[1855])

Synonymy: *ramosella* Herrich-Schäffer,[1855]; *albiramosella* Caradja,1916; *caradjaella* Zerny,1939

Original Reference: *Pyrallis ramosella* Herrich-Schäffer,[1855], Syst. Bearb. Schmett. Eur. 6:148, Taf.21 fig.146. Type(s): [Türkei]: Amasia.

Range (as code): TR RU Sr LB Bei IR Elb Th Kdv Kd Fa Sse Kdj Shr Ha Zj Kh Shh Ab TM Kp Cc AM AF Hr Kab Kbb Pnj Srb Slg PK o5 o6 13 42 45 46 47 56 58 65 70 o5A o6Y 13F 13F6 56F 56Fm 56Fs 56Fs1 65A 65Am 65Am1 65D 65Df 65Drd 65Dv 65Dh 65Dt 65Du 65F 65Fe 65Fp 65Fz 65G 65Gb 65Gf 65Gy 65N 65Np2 65Np5 65Nm 70C 70Ce

Material studied: 1♂1♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg.

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

69. *Asalebria venustella* (Ragonot,1887)**(Figs. 7-9)**

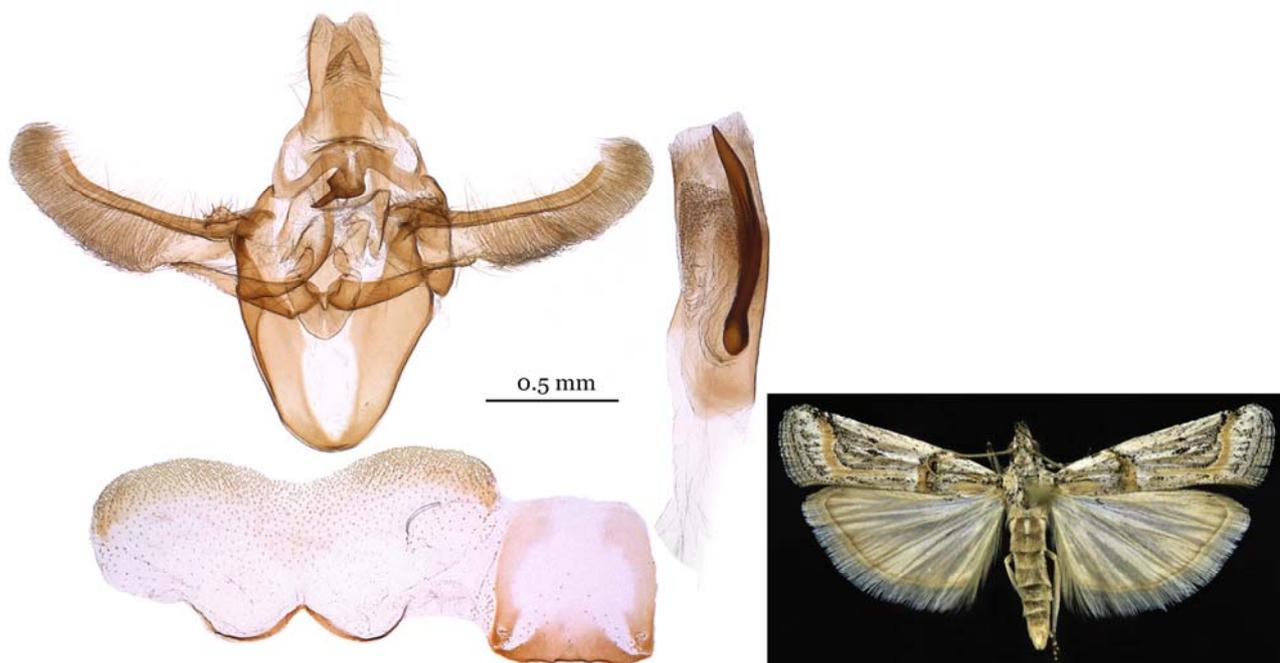
Synonymy: *venustella* Ragonot,1887; *intricatella* Ragonot,1887; *palella* Caradja,1916

Original Reference: *Salebria venustella* Ragonot,1887, Anns Soc. ent. Fr. 1887: 231-232. Syntypes: [Russie]: Sarepta; [Kasachstan]: Saisan.

Range (as code): PT ES Mu FR Sa RU Sr Ur Or SY Dms TR Cc AM Eri IR Ss Shh TM Kp KG Tar Ssn Ui Au Ku MN o6 46 65 71 76 o6Y 46L 65G 65Gb 76C

Material studied: 1♂ (GP3280). Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M.Kemal & A.Koçak leg. (Cesa).

Remarks: This record is new for the fauna of Van Province.



Figs. 7-9 - *Asalebria venustella*. Male genitalia (GP3280), abdominal segment and upperside of male (fore-wing: 8mm, wingspan: 19mm). East Turkey, Van Province, Zernek. M. Kemal (Cesa).

70. *Bradyrrhoa (s.str.) gilveolella* (Treitschke,1833)

Synonymy: *gilveolella* Treitschke,1833

Original Reference: *Phycis gilveolella* Treitschke, 1833, Schmett. Eur. 9 (2): 271-272. Type(s): [Romania, Banat, Timișoara]. "gend von Temeswar".

Range (as code): Si RO YU AL MK BG GR TR IR Ab Cc AM Eri RU UA Cm KK Na AU 01 05 06 13 16 21 22 23 29 30 31 44 51 38 42 44 46 51 56 58 65 71 77 01L 01Lb 01Le 01Lf 01Lk 05A 13A 13Ab 13Ac 13Ac2 13Ac 13Ag 13Ax 13F 13F38 13F6 13F01 13F7 13F71 13F74 13F11 13F38 13F41 16A 21N 21Nb 30B 30Bc1 30Bt1 30Bz 30D 30Dx 31M 44E 44Eh 44I 44Ic 44L 44Lc 56F 56F1 65A 65Ac 65Ac3 65Am 65Am4 65D 65Df 65Dh 65F 65Fp 65Fz 65G 65Gb 65K 65Kl6 65Z 65N 65Np2 65Np5 65Nr2 65Nm

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

71. *Cadra furcatella* (Herrich-Schäffer, [1849])

Synonymy: *furcatella* Herrich-Schäffer, [1849]

Original Reference: *Homoeosoma furcatella* Herrich-Schäffer, [1849], Syst. Bearb. Schmett. Eur. 4: 107. Type(s): Österreich: Alpeleck.

Range (as code): IR Fa Elb LB IQ Cc AZ GG AF Srb Pag Kab Pic Bd Nu Bsg Bkt UZ LY Cy Co Sa Si IT MA PT ES Mu An Py CZ SK AT HU RO HV B-H YU MK BG AL GR Cr TR RU 01 03 05 06 09 13 16 21 31 42 44 46 65 71 01K 05A 13F 13F6 13F71 16A 31M 65A 65Ab 65Aba 65D 65Df 65Du 65G 65Gb

Material studied: 1♂ (GP2876). Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 28.viii.2017, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

72. *Catoptria karafatma* sp. n.

(Figs. 10-12)

<http://zoobank.org/urn:lsid:zoobank.org:act:8AD0EAB5-4629-47F2-A95D-6ACBE08F5BD7>

Description

Holotype (♂). Fore-wing: 8mm, wingspan: 18mm.

Head, thorax, abdomen light greenish-grey. Antenna filiform. Fore-wing triangular in shape, short, apex pointed. Ground colouration, light grey, partly greenish, without marking. Ciliae white. Hind-wing grey, marginally whitish. Ciliae white. Male genitalia (GP3282): Uncus, gnathos long strongly developed, looks like typical *Catoptria*. Gnathos terminally round with small spicules centrally. Valva well developed. Costal arm remarkably long, roundish terminally. Costal rand broad at base, concave dorsally, secondary almost triangular process well chitinized. Sacculus well developed, its protrusion triangular, chitinized. Cucullus large round terminally, its outer parts more membranous. Juxta rhomboidal, inside nearly U-shaped. Saccus well developed. Aedeagus cylindrical, slightly curved, well chitinized, with a thorn-like cornutus.

This new species is closer to *languidella* and *laevigatella* among other *Catoptria* species (Bleszynski, 1965), but differs from them by smaller wing size, especially different structures of the appendages of the valva, and aedeagus in the male genitalia.

Type-series: Holotype (♂). East Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (coll. Cesa).

Etymology: The name of this species is dedicated to Mrs. Fatma Seher Erden (1888-1955), a Turkish heroine woman, nickname "Kara Fatma", who devoted her life as a soldier in the Turkish War of Independence.

For further reading, *vide* Wikipedia: https://en.wikipedia.org/wiki/Kara_Fatma

Habitat: Irano-Turanian mountain steppe, 1975m above sea level.

73. *Chrysocrambus linetellus* (Fabricius, 1781)

Synonymy: *linetellus* Fabricius, 1781; *cassentiniellus* Herrich-Schäffer, [1848]; *distinctus* Müller-Rutz, 1920; *chrysocrossis* Meyrick, 1936; *#marioni* Dufrane, 1960.

Original Reference: *Tinea linetella* Fabricius, 1781, Spec. Ins. 2: 291. Lectotype ♂: Italia: Piemont (Bleszynski, 1965: 344).

Range (as code): ES FR Co Sa Si IT GB CH AT SK HU RO SS YU B-H ME MK AL BG GR Cr TR SY JO IR Gh Tgo Alb Kdj Th Dam Clu Ab Oru Es Kh Bjn Ar Kd Mrv Bne Snj Ha Se Fa Shr Sse LB IQ CY Rd UZ Br CN Ui Cc AZ Len 01 04 06 13 30 33 42 44 50 53 56 58 65 76 80 01L 01Lf 06R 04C 04Cf 13A 13Ab 13Ax 13B 13Bd 13G 13Ge1 13Gf 13F 13F18 13F25a 13F38 13F41 13F6 30D 30Df 44L 44Lc 56F 56F1 56Fs 56Fs1 65A 65Ai 65Au 65B 65Bo 65Bx 65D 65G 65Gb 65Gf 65Gy 65K 65Kl 65Z 65L 65Le 65N 65Nc2 65Np2 65Nm 76C

Remarks: This record is based upon the Info-systems of the Cesa.

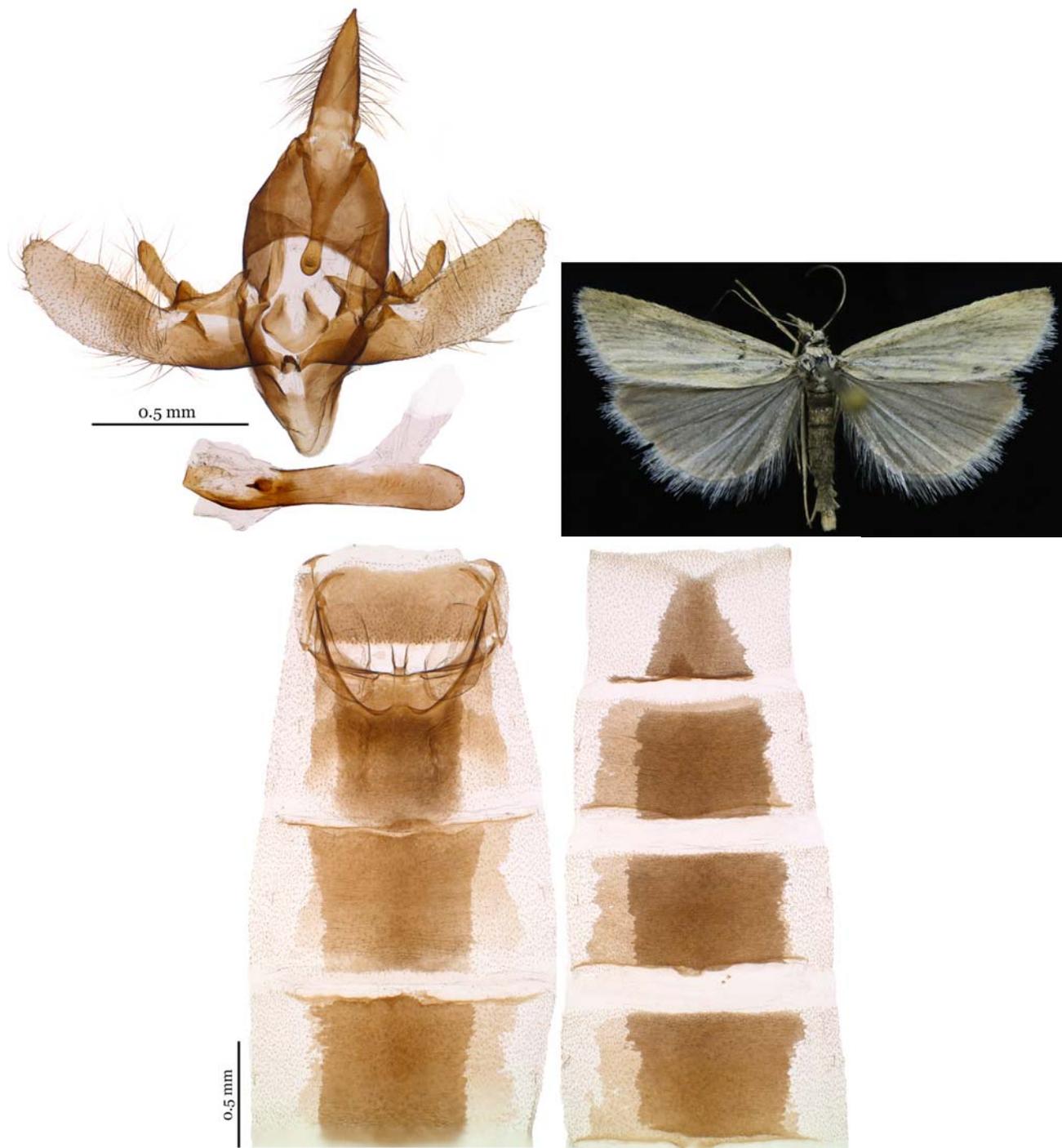
74. *Chrysoteuchia culmella* (Linnaeus, 1758)

Synonymy: *culmella* Linnaeus, 1758; *strigella* Fabricius, 1781; *hortuella* Hübner, 1796; *cespitella* Hübner, 1796; *caricetalis* Hübner, [1825]; *#hortellus* Zerny, 1914; *#brunnea* Dufrane, 1942.

Original Reference: *Phalaena culmella* Linnaeus,1758, Syst. Nat. (Edn.10)1: 535. Lectotype ♂: [Europa] (Bleszynski,1965: 166).

Range (as code): DZ PT ES Snv An Mu FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT MD UA BY IR Zj UZ Br RU Ur Prj Us Am KG Tk Dj JP Hkk 14 16 30 61 65 71 16A 65G 65Gb

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneç 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).



Figs. 10-12 - *Catoptria karafatma* **sp. n.** Holotype (♂). Male genitalia (GP3282), upperside of male and abdominal skin with tympanal organ. East Turkey, Van Province, Zerneç. M. Kemal (Cesa).

75. *Cynaeda (s.str.) gigantea* (Staudinger,1879)

Synonymy: #*gigantea* Wocke,1871; *gigantea* Staudinger,1879

Original Reference: *Odontia dentalis* v. *gigantea* Staudinger,1879, Horae Soc. ent. ross. 15: 165-166. Syntypes: [Türkei]: Amasia.

Range (as code): FR CH HU YU GR Cr TR IQ Hjo Ssa IR Fa Shr Com Sse GlS IL Pa LB Bsa AF Slg Pnj Pag Adr KG Uk 01 04 05 06 08 13 14 21 23 27 30 33 38 42 44 46 50 56 58 65 72 76 01L 01Le 01Lh 01Lk 04C 04Cf 05A 06K 06Kb 06R 06Rk 13A 13Ab 13Ax 13F 13F25 13F6 13F7 13F71 14B 14Bb 21L 21Lc 27D 27Da 27Db 30B 30Bç 30Bz 30D 30Df 33A 33Ac 38H 38Hc 44E 44Eh 50G 56F 56F1 56Fb 58G 65A 65Ac 65Ac3 65Am 65Am1 65D 65Df 65Dt 65Du 65Fz 65G 65Gb 65Gf 65Gy 65L 65Le 65N 65Np1 65Nr4 65Nm 76C 76D 76Da

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

76. *Ecpyrrhorhoe diffusalis* (Guenée, 1854)

Synonymy: *carnealis* Dup., 1831 nec Treit. 1829; *diffusalis* Guenée, 1854; *affusalis* Guenée, 1854; *tenuialis* Mann, 1862.

Original Reference: *Botys diffusalis* Guenée, 1854, [in] Boisduval & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: 340. Syntypes 2♂ 3♀: "Espagne, France mer., env. Nimes et de Montpellier" (coll. Guenée & Lefebvre).

Range (as code): Cn MA TN ES FR IT CH HU RO YU HV AL BG GR IL Pa Hf TR IR Fa Shr Com Ss Th Kdj Ha Mz LB Bsa AF Pic Kab Srb Bsg Pag PK Cp UA Lvv Cc GG Tbl Bjo AZ Kir Nv Ord AE IN 01 02 05 06 13 16 21 30 31 36 38 42 44 46 47 56 58 60 65 71 73 76 01K 02F 02Fe 02Fz 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 30B 30Bç 30Bc5 30Bz 30D 30Df 31K 31Ka 31Ka3 31M 36D 36Db 44E 44Ei 44I 44Ic 44L 44Lc 46D 46Dc 46G 46Gf 56F 56F1 58N 58Nc 65A 65Am 65Am1 65Am2 65Am4 65Ab 65Aba 65D 65Df 65Dg 65Dv 65Dt 65Ds 65F 65Fç 65Fp 65Fz 65G 65Gb 65K 65Kl1 65Kl6 65Z 65N 65Np6 65Nm 73A 73Aç2 73Ad 73Ad2 76D 76Da

Material studied: 4♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

77. *Epactoctena octogenalis* (Lederer, 1863)

Synonymy: *octogenalis* Lederer, 1863

Original Reference: *Metasia octogenalis* Lederer, 1863, Wien. ent. Monatschr. 7: 421, 481, Taf. 15 fig. 10. Type ♂: Syrien.

Range (as code): TR IR Ahz Ha JO IQ Ssa Dia Mos Ry Shq IL Pa Js Hf CY 12 13 21 23 31 33 44 46 47 56 63 65 73 12E 12Ec 13G 13Gg 13F 21N 21Nb 31A 31M 33O 44E 44Ei 46D 46Dc 47D 56F 56Fb 56Fm 63D 63Dd 65G 65Gb 65L 65Le 65N 65Nf 65Np 65Nm 73A 73Aç 73Aç2

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

78. *Ephelis cruentalis* (Geyer, [1832])

Synonymy: *cruentalis* Geyer, [1832]; *bourjotalis* Duponchel, 1833; *badialis* Treitschke, 1835

Original Reference: *Uresiphita cruentalis* Geyer, [1832], [in] Hübner, Zuträge Samml. exot. Schmett. 4: 29, pl. [124], figs. 721, 722.

Range (as code): FR Si IT YU BG GR Rd Cr TR LB Cc GG Tbl Mng Lag AM AZ IL Pa Hf EG IR Fa Sse Elb Th Kdj Nss Kdv Gor Kh IQ Ry Shq AF Adr Shv Kab KG Slu Syr 01 05 06 12 13 16 21 25 30 31 33 34 35 36 38 39 42 44 46 49 56 58 63 65 72 76 80 01E 01Ea 01L 01Le 01Lf 05A 06K 06Kb 06R 12E 12Ed 13C 13Ce 13F 13F7 13F71 13G 13Gü 13Gw 16A 21L 21Lf 30B 30Bc1 30Bç 30Bz 30C 30Cb 30D 30Df 30Dp 30Dx 31M 33R 33Rb 36D 36Db 42K 44A 44Ac 44E 44Ee 44L 44Lc 49D 49Db 56D 56Dc 56F 56Fb 56Fç 56F1 58G 58Gb 58R 58Rb 65A 65Ai 65Ac 65Ac3 65Aba 65D 65Df 65Dh 65Di 65Dlc 65Dt 65Du 65Dv 65F 65Fe 65Fp 65Fz 65G 65Gb 65H 65Hb 65K 65Ké 65Kğ 65L 65Le 65N 65Np2 65Nr2 65Nr8 65Nm 76C 80B 80Bc

Material studied: 3♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

79. *Ephestia fredii* (Amsel, 1961)

(Figs. 13-19, Table 2, Map 2)

Synonymy: *fredii* Amsel, 1961

Original Reference: "*Hyphantidium fredii*" Amsel, 1961, Ark. Zool. (N.S.) 2 13 (17): 356, text fig. 46, pl. 2 fig. 165. Monotype ♂: Iran, Fars, Strasse Kazeroun- Bouchir, Tchouroum 1000m [Tcr], leg. Brandt, 1937 (NRM).

Range (as code): IR Fa Ter TR 36 65 76 36D 36Db 65G 65Gb 65N 65Np5 65Nm 76D 76Da 76Do

Material studied: 1♀. Turkey, Kars Province, Kağızman, Akçay 1200m (36Db), 10.vii.2007, M. Kemal & A.Koçak leg. - 1♀. From same place, 1.vii.2010, M. Kemal & A.Koçak leg. - 2♂. Iğdır Province, Tuzluca, Gaziler 1075m. (76Da), 8.viii.2007, M. Kemal & A.Koçak leg. - 3♂. From Tuzluca, 4.8km E of Ağabey 995m (76Do), 24.vi.2019, M. Kemal & A.Koçak leg. - 6♂ (DNA barcoded, Lep Pyro92-Cesa) 1♀. Van Province, Tuşba, Ağartı N 1660m (65Np5), 24.vi.2017, M. Kemal & A.Koçak leg. - 1♂. From same place, 30.ix.2018, M. Kemal & A.Koçak leg. - 5♂1♀. Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: Based on a worn male, this species was described by Amsel (1961: 356) from Iran in the genus *Hyphantidium* with clear hesitation. He stated: "Ich stelle die Art mit einigem Vorbehalt zu *Hyphantidium* Scott... Da mir andererseits *sericarium* (aus Neu Südwales beschrieben) unbekannt ist, beibt die Stellung

von *fredi* noch unsicher". Therefore, its availability according to the ICZN Rules, Art. 15 (1) ⁵ is discussable. We are of the opinion that this name should be considered nomenclaturally unavailable.

Hyphantidium fredi Amsel was omitted by Roesler (1973) in his important work. We had difficulty identifying our specimens. Because the single male of *fredi* (monotype) was rather worn, and the male genitalia was not prepared by Amsel properly. Colouration of labial palpi of the head, general shape of the male genitalia, especially bifurcated gnathos tip made it easy for us to decide on the generic belongingness of *fredi*. However, cornutus shape and its complementary structure could not be seen in Amsel's drawing (fig.46), also in original preparate. The genetic distances of our specimen "*fredi*" (7-12%) (Table 2) with other *Ephestia* species from Bold Systems seems reasonable (Kimura, 1980; Ratnasingham & Hebert, 2007; Tamura *et al.*, 2013). During this comparison, we noticed among the identified *Ephestia* species, the genetic information of "*woodiella*" and "*parasitella*" belong to the same taxon. This case appeared probably due to misidentification, that should be reviewed (Fig. 13).

Current distribution of this species in Turkey is as follows: NE Turkey, Kars Province (Kağızman, Akçay (36Db) (new provincial record)). East Turkey, Van Province, Tuşba, Gören Mt. (65Np5), and in the same province, Gürpınar (Zernek(65Gb) (new provincial record), Iğdır Province, Tuzluca, Gaziler (76Da) (new provincial record)) (*vide* range code above) (Map 2).

Adult phenology: Adults of this species is nocturnal and fly from May to July in a single generation.

Previous tentative identification and studies in future: This species was erroneously referred to *Keradere noctivaga* according to its external features (Kemal *et al.*, 2018: fig.26). *Ephestia fredi* is new for the fauna of Turkey.

For its subspecific status, the genetic distance between Iranian and Turkish populations is necessary. For this purpose, a collaborative study is needed.

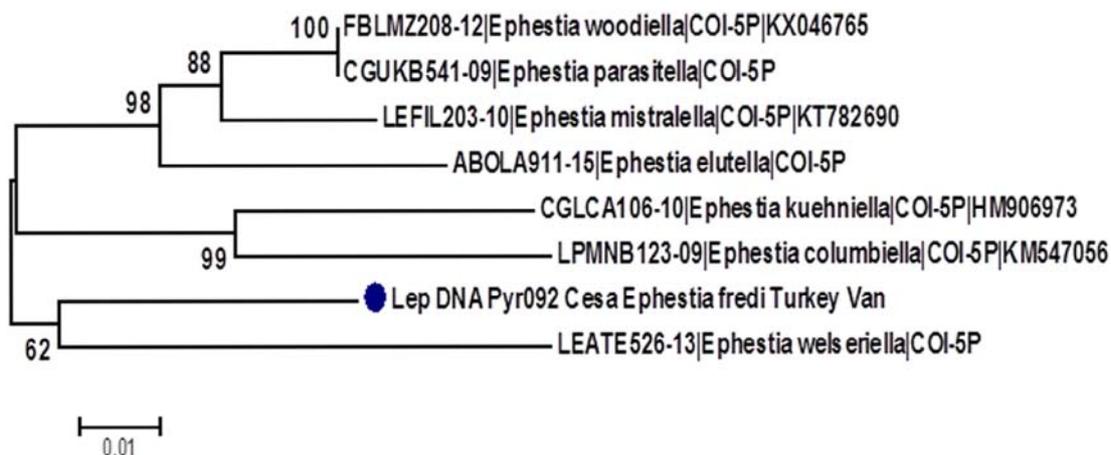
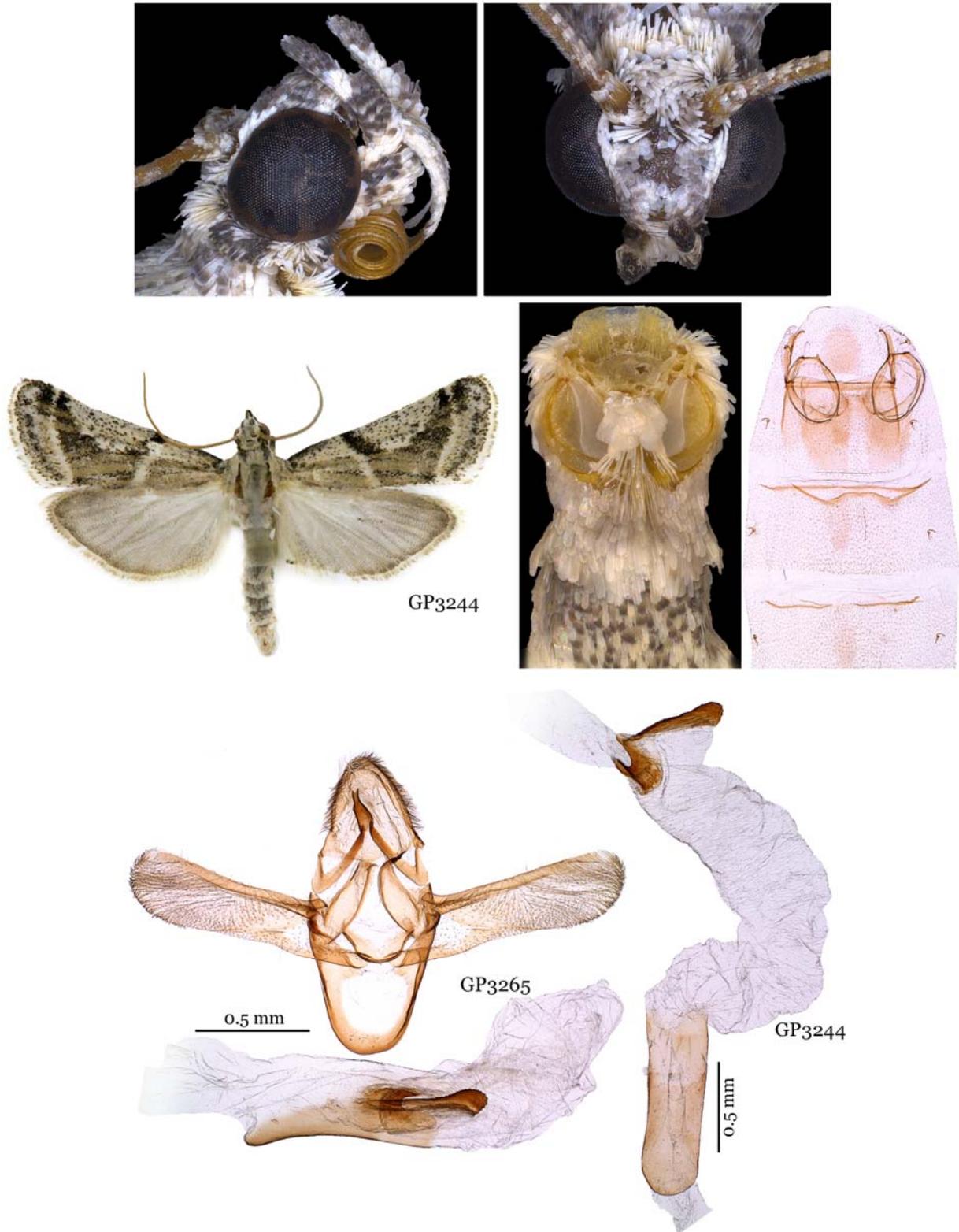


Fig. 13 - COI neighbour-joining tree of some *Ephestia* species (K2P distances), with bootstrap support (1000 replicates).

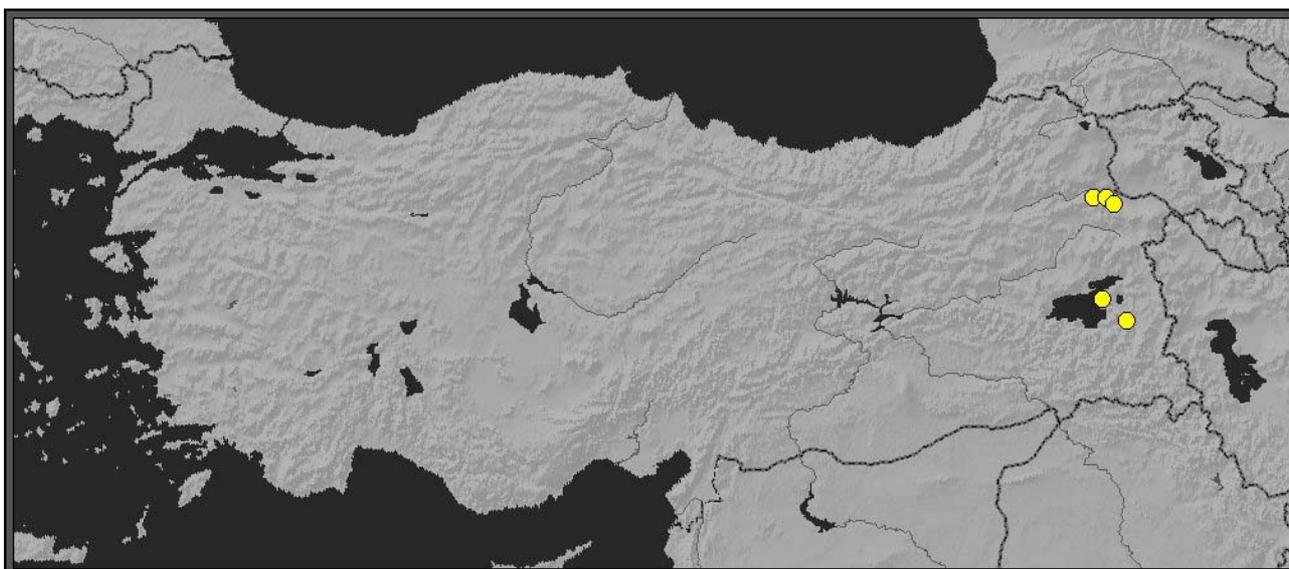
Table2 - The percent K2P genetic distances between *Ephestia fredi* and some *Ephestia* species.

	1
1. Lep DNA Pyr092 Cesa <i>Ephestia fredi</i> Turkey Van	
2. FBLMZ208-12 <i>Ephestia woodiella</i> COI-5P KX046765	0.0738
3. CGUKB541-09 <i>Ephestia parasitella</i> COI-5P	0.0738
4. LEFIL203-10 <i>Ephestia mistralella</i> COI-5P KT782690	0.0885
5. LEATE526-13 <i>Ephestia welseriella</i> COI-5P	0.0970
6. ABOLA911-15 <i>Ephestia elutella</i> COI-5P	0.0973
7. CGLC106-10 <i>Ephestia kuehniella</i> COI-5P HM906973	0.1062
8. LPMN123-09 <i>Ephestia columbiella</i> COI-5P KM547056	0.1214

⁵ "A new name or nomenclatural act proposed conditionally and published after 1960 is not thereby made available".



Figs. 14-19 - *Ephestia fredii*. Lateral and dorsal view of head from NE Turkey, Iğdır Province, Tuzluca (top). Dorsal view of adult male and tympanal organ (before & after preparation) (GP3244) (middle). Male genitalia (GP3265) and aedeagus with everted vesica and cornutus (GP3244). For collecting information, *vide* material studied in the text. M. Kemal (Cesa)



Map 2 – *Ephestia fredii*. Distribution in Turkey (Kars, Iğdır and Van Provinces).

80. *Euchromius ocellus* (Haworth, [1811])

Synonymy: *ocellea* Haworth, [1811]; *cyrilli* Costa, 1832; *fumiculella* Treitschke, 1832; *texana* Robinson, 1870; *gigantea* Turati, 1924; *quadrii* Ahmad, Zaidi & Kamaluddin, 1982

Original Reference: *Palparia ocella* Haworth, [1811], Lep. Br.: 486. Type ♂: England.

Range (as code): Md Cn MA DZ TN LY Cy PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU BG GR Rd Cr TR Cc DK NO SE FI EE LV LT RU MD UA Cm BY KG Uk Tk Dj Ii EG IL LB TM Kp YE Ad Sk IQ Kbl Bgd Amr CY AF Hr IN Mh Poo PK Cp Pj Krc Sd Mhw AU US Tx UZ Br ET AE IR Ahz Nss Yz Dzf Enz Plr Th Dam Elb Qm Gls Clu Ar Ab Oru Gh Tgo Ss Irs Sde Kz Mz Kh Se Es Ke Ar Jrf Ak Msh Kz Lo Km Ss By Zhd Yas B-A Bu SO KE MT TZ CF UG MW SC MG MZ ZW Bul Har Nta Kzu Ec Ans Fs Blo Wca Cto Dbn Grh Lds Tva Lpo Pie Gau Pre Wnn Wr Ste Cer Grg BW NA AO GO NG NE BF GH SN FP Pag Pa Hf Onç Bsk Gf Ajj Ah Hw MM NP T-S 01 05 07 13 16 31 32 34 42 48 56 65 71 76 05A 13F 13F25a 13F38 13F41 16A 31M 56F 65D 65Dv 65G 65Gb 65N 65Nc 65Nc4

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 27.viii.2017, M. Kemal & A.Koçak leg. (Cesa).

81. *Euchromius pulverosus* (Christoph, 1887)

Synonymy: *pulverosa* Christoph, 1887; *cochlearella* Amsel, 1949

Original Reference: *Eromene pulverosa* Christoph, 1887, [in] Romanoff, Mem. Lepid. 3: 47, Taf. 2 f. 14. Lectotype ♀: [Aserbaidjan]: Ordubad.

Range (as code): Cc Nv Ord AZ TR IQ Ry IR Elb Kdv Kdj Th Es By Yas Nss Sse Shr Dam SY IL Pa Js LB Bsa Bei 01 06 08 13 21 23 30 33 36 42 44 46 51 56 65 73 76 06R 13F 13F18 13F25a 13F38 13F41 13F7 13F71 21N 21Nb 30B 30Bc 30Bc1 30Bc 30Bt1 30Bz 33A 36D 51D 51Db 56F 56F1 65D 65Dv 65Dt 65Du 65G 65Gb 73A 73Ad1 76D 76Da

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

82. *Euzophera (s.str.) luculentella* Ragonot, 1888

Synonymy: *luculentella* Ragonot, 1888

Original Reference: *Euzophera luculentella* Ragonot, 1888, Nouv. Gen. Phycet. 1888: 32. Type ♀: [Turquie]: Kasikoparan (ZIANL).

Range (as code): TR Cc IR Fa SD SD45 46 65 76 65G 65Gb 65Gü 65Gz 76C

Remarks: This species was previously recorded and illustrated by the authors from Zernek (Kemal & Koçak, 2017b).

83. *Evergestis flavifuscalis* Rebel, 1903

Synonymy: *flavifuscalis* Rebel, 1903

Original Reference: *Evergestis flavifuscalis* Rebel, 1903, Dt. ent. Z., Iris 16: 6-7. Syntypes ♂♀: Armenia: Erivan (Korb leg.); Gülek (Taurus) (Haberhauer leg.) (NHMW) [examined].

Range (as code): Cc AM Eri TR 04 33 56 65 04C 04Cf 33R 33Rb 56F 56F1 65B 65Bo 65Bx 65G 65Gb 65L 65Le 65N 65Nc 65Nc2 65Nr2 65Nm

Remarks: This record is based upon the Info-systems of the Cesa.

84. *Hypotia colchicalis* (Herrich-Schäffer, [1855])

Synonymy: *colchicalis* Herrich-Schäffer, [1855]; *anceschii* Turati, 1926

Original Reference: *Constantia colchicalis* Herrich-Schäffer, [1855], Syst. Bearb. Schmett. Eur. 4: 148, fig. 136. Type(s): [Türkei]: Amasia.

Range (as code): DZ TN Sfx LY ES RU Cc Kr MD UA BY TR IR Ahz Fa Ss Shr Sse SY JO IL LB IQ Ry CY IR TM KG Tk Dj 05 13 31 38 42 65 70 05A 13A 13Ab 13Ax 31M 42B 65D 65Df 65G 65Gb 65N 65Nb

Material studied: 1♂2♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 27.viii.2017, M. Kemal & A. Koçak leg. (Cesa).

85. *Mecyna marcidalis* (Fuchs, 1879)

Synonymy: *marcidalis* Fuchs, 1879 [März]; *pontica* Staudinger, 1879 [1 Nov., 1879]; *designatalis* Christoph, 1887; *lutalbalis* Caradja, 1916; *levilinealis* Amsel, 1935

Original Reference: *Botys trinalis* var. *marcidalis* Fuchs, 1879, Stettin ent. Ztg. 40: 46. Type ♂: [Iran]: "Astrabad" [Gorgan].

Range (as code): TR IR Elb Kdj Kdv Gor Srd AZ Cc GG Tbl Nv Ord Fa Shr GlS Ghz IQ Shq Ry LB IL Pa Js AF Kot Pag Bm Srb Arh 01 05 12? 13 30 44? 46 47 56 58? 65 71? 73 01K 05A 13F 13F11 13F35 13F38 13F41 30B 30Bç 30Bt1 30Bz 30D 30Df 46L 47D 56F 56F1 65A 65Am 65Am4 65G 65Gb 73A 73Ad 73Ad2

Material studied: 4♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

86. *Mecyna subsequalis* (Herrich-Schäffer, 1855)

Synonymy: *subsequalis* Herrich-Schäffer, 1851; *subsequalis* Herrich-Schäffer, 1855; *lutulentalis* Lederer, 1858; *consequens* Meyrick, 1932

Original Reference: *Botys subsequalis* Herrich-Schäffer, 1855, Syst. Bearb. Schmett. Eur. 6: 141, pl. 19 fig. 133. Type: Armenia.

Range (as code): BG GR Cr TR SY Dms IQ Hjo LB Bsa Cc GG Bjo AZ Nv Ord IR Th Elb Kdv Mz Dam Gor 01 04 05 06 13 24 29 30 31 33 42 44 46 56 58 65 69 71 76 80 01K 01L 01Lb 04C 04Cf 05A 06H 06R 13A 13Ab 13Ac 13Ac1 13Ac2 13Ax 13F 13Fo1 13F35 13F38 13F7 13F71 13G 13Gü 13Gw 29A 30B 30Bc1 30Bt1 30Bz 30D 30Df 31K 31Ka 31Ka3 31Ka6 44E 44Eh 44Ei 46D 46Dc 56F 56Fs 56Fs1 65A 65At 65At5 65Ab 65Aba 65Ac3 65Ai 65Am4 65B 65Bo 65Bx 65D 65Df 65Dh 65Dv 65Df 65F 65Fz 65Fp 65G 65Gb 65Gz 65K 65Kl6 65Z 76C 76D 76Dd 76Dm

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 27.viii.2017, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

87. *Mecyna trinalis* ([Denis & Schiffermüller], 1775)

Synonymy: *trinalis* [Denis & Schiffermüller], 1775; *andalusica* Staudinger, 1879; *tripunctalis* Oberthür, 1887; *anienalis* Hartig, 1941; *joannialis* Marion, 1955; *maroccanensis* Amsel, 1956

Original Reference: *Pyrallis trinalis* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Gegend: 317. Type(s): [Austria]: Vienna district.

Range (as code): MA Rf DZ Lbs Anna Agi ES Mu FR Si IT AT CZ SK HU RO YU AL BG GR TR Cc IQ Hjo Mos IR Elb Kdv Plr Mz Gor Ha Adv UA Cc GG Bjo MN 01 05 06 08 13 23 29 30 33 44 46 56 61 65 73 76 01L 01Le 05A 06R 06Rb 08H 08Hc 13F 13F6 13F71 30B 30Bc1 30Bt1 30Bç 30Bz 33A 33Ae 44L 44Lc 56F 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65At 65At5 65B 65Bo 65Bx 65D 65Df 65Dh 65Dt 65G 65Gb 65K 65Kd 65Ké 65Kğ 65N 65Np2 65Nm 73A 73Ad 73Ad1 76C 76D 76Dd

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

88. *Metacrambus carectellus* (Zeller, 1847)

Synonymy: *carectellus* Zeller, 1847; *lugdunellus* Millière, 1868; *truncatellus* Caradja, 1916

Original Reference: *Crambus carectellus* Zeller, 1847, Isis 1847: 751. Lectotype ♂: Sizilien (Bleszynski, 1965: 331).

Range (as code): DZ Anna PT ES FR Co Sa Si IT MT SK HU RO YU AL BG GR Cr RU Sr Cm TR LB Bei IL Pa Hf SY IR Ab Qz GlS Ra Ha Ke Km Kh By Skh Kdj Shr Sse Th Gh Tgo UZ Br Cc AZ Len KG sKG Tks Db Kdy Tk Dj 01 03 13 31 33 42 44 46 65 71 80 01L 01Lb 13F 13F25a 13F26 13F35 31D 44E 44Ee 65B 65Bo 65Bx 65D 65Df 65Dv 65G 65Gb 65K 65Kb 65Z 65L 65Le 65N 65Nc2 65Np 65Nm

Material studied: 3♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

89. *Metasia* sp.

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: The identity of this species is ongoing.

90. *Metasia supandalis* (Hübner, [1823])

Synonymy: *supandalis* Hübner, [1823]

Original Reference: *Pyralis supandalis* Hübner, [1823], Samml. eur. Schmett. 6, Pyralides: Tab. 30 figs. 187-190. Syntypes: Europa.

Range (as code): MA DZ BtNa Bsk TN Gf PT ES An Mu FR Co Si RO HV MK YU AL BG GR Cr TR Cc CY IQ Hjo IR Elb Th Kdj Sse Fa Com Gls 05 06 16 17 33 34 35 42 45 58 65 71 76 05A 06R 16A 33A 33Ac 33Ae 65B 65Bo 65Bx 65D 65Df 65G 65Gb 65Kd 65Kg 65L 65Le 65N 65Np2 65Nm 76C 76D 76Da

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

91. *Myelois (s.str.) circumvoluta* (Fourcroy, 1785)

Synonymy: *circumvoluta* Fourcroy, 1785; *circumvolutella* De Villiers, 1789; *cribrella* Hübner, 1796; *carhdui* Haworth, 1811; *medullalis* Hübner, [1825]; *pallium* Vallot, 1829; *gilvescentella* Fuchs, 1903; *britannicella* Amsel, 1951; *impunctata* Hartig, 1952; *nigrapeza* Hartig, 1952

Original Reference: *Tinea circumvoluta* Fourcroy, 1785, Ent. Paris: 326. Type(s): Paris.

Range (as code): DZ Ges Lbs PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE FI EE LV LT RU MD UA BY IR Mz 01 04 06 13 17 21 30 31 33 36 49 65 71 73 80 04C 04Cf 06R 06Rd 13F 21L 21Lc 30B 30Bt1 30Bz 31M 36D 36Db 49F 49Fb 65Am 65Am 65Am1 65Am4 65D 65Dh 65Ds 65Dv 65Du 65G 65Gb 65Gç 65K 65Kd 65Kg 65N 65Np1 65Np5 65Nm 73D 73Df

Material studied: 1♂. Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. - 1♂. Gürpınar, Çavuştepe 1820m (65Gç), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

92. *Myrllaea albistrigata* (Staudinger, 1881)

Synonymy: *albistrigata* Staudinger, 1881

Original Reference: *Pempelia albistrigata* Staudinger, 1881, Horae Soc. ent. ross. 16: 86. Syntypes 2♂♀: [Türkei]: Amasia.

Range (as code): TR Cc LB Bsa IR Elb Mz Kdv Plr Shh IQ Ry Hjo AF Pag 05 06 13 30 33 38 42 46 47 56 58 65 71 76 05A 13A 13Ab 13Ac 13Ac2 13Ax 13F 13F38 13F6 13F7 13F71 30B 30Bç 30Bc1 30Bt1 30Bz 33A 33Ae 38Ca 42B 56F 56F1 56Fs 56Fs1 58G 65A 65Ac 65Ac3 65Ai 65B 65Bo 65Bx 65D 65Dh 65Dt 65F 65Fp 65Fz 65G 65Gb 65K 65Kl6 65Z 65N 65Np2 65Nm 76C

Material studied: Material studied: 1♂. Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 1♀. From same place, 27.viii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

93. *Myrllaea epischniella* (Staudinger, 1879)

Synonymy: *epischniella* Staudinger, 1879; *dentilineella* Ragonot, 1887; *kurdistanana* Amsel, 1949; *nigrosquamalis* Amsel, 1950

Original Reference: *Pempelia epischniella* Staudinger, 1879, Horae Soc. ent. ross. 15: 200-201. Syntypes ♂♀: [Türkei]: Amasia: Kerasdere.

Range (as code): TR IR Fa Sse Com TM Krn IQ Hjo Er Shq 05 13 42 44 46 65 05A 05E 13F 13F01 13F35 13F41 44L 65D 65Df 65F 65Fp 65Fz 65G 65Gb

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*, 2018).

94. *Neopristocera deltagrammella* (Ragonot, 1888)

Synonymy: *deltagrammella* Ragonot, 1888

Original Reference: *Pristocera deltagrammella* Ragonot, 1888, Nouv. gen. esp. Phycit. Galler. 888: 13. Type ♀: [Azerbaidjan: Kirovabad]: "Helenendorf".

Range (as code): Cc AZ Kir TR RU Da KG 65 76 65G 65Gb 65N 65Np5 65Nm 76C

Material studied: 3♂♀. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 2♂. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

95. *Nomophila noctuella* ([Denis & Schiffermüller], 1775)

Synonymy: *noctuella* [Denis & Schiffermüller], 1775; *hybridalis* Hübner, 1796; *incertalis* Hübner, [1825]; *indistinctalis* Walker, 1859

Original Reference: *Tinea noctuella* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 136. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848].

Range (as code): Cn Md MA Rbt DZ Bsa Btba Bsk Sfr Cst TN Sfx LY Cy Elk PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO SS B-H HV MK YU AL BG GR Cr CY TR IQ Bgd Dia Shq Amr Kro Bji IR Ahz Ab Elb Dam Plr Mz Enz JO Amm LB Bsa Bei AF Hr Bmu Anj Gz Jla Kot SA SA50 SA74 KE Elg Nai SD SDO7 SN GM CG TZ MW Mje AO ZW MZ DK NO SE FI EE LV LT RU MD UA BY PH TW AE Cp Haz Abb C-P Cte ID IN ZA Ans Bf Est Nta Kzu LS Tra Gau Pre Umk Wri RE KM MG MU Sro Qba Gea Bsk Onç Ceg Heh Ogl Gle Omy Gtt Ah Ajj Ges Rhr İi Ui Ku Njr Mer Har Nam SD95 EG EG07 EG11 EG31 EG33 EG34 EG35 ET ET08 ET70 ET87 ET263 SY Hal IL Pa Js Hf YE Sna BH PK Mre Krc UZ Smk Br Rw Bl Lag Ax Dlh Hp Cp Drm Ca Ass Khs Pj Nl Nag Nnt Poo Pus Sml NP SI MM LK CN Mc Ti Hun Pkn Yu Lik Kgs Sz Ome Stg T-T KP KR JP Hkk Hw AO BW TD ZR DJ ET GM KE MG MW MR MU MZ NA NE SN SC SD TZ ZW 01 05 06 08 11 13 14 16 17 21 30 31 32 33 34 35 37 38 39 44 46 48 49 53 55 56 58 60 63 65 71 72 73 76 80 01E 01Ea 01L 01Le 01Lf 05A 06R 08H 08Ha 13A 13Aa 13Ab 13Ac 13Ac2 13Ac3 13Ax 13B 13Ba 13F 13F22 13F6 13G 13G1 13Gö 13Gğ 13Gw 13Gü 13Gs 16A 21N 21Nb 21Nc 30B 30Bc1 30Bç 30Bt1 30Bz 30Br 30D 30Df 31A 31H 31M 33A 33Ac 33Ad 33Ac 33Aj 33Am 33Ao 33Ar 33R 33Rb 44E 44Ei 44L 44Lb 44Lc 48L 49F 49Fb 49Ff 55F 56D 56Dc 56F 56Fo 58G 60G 63B 63Ba 63D 65A 65Ai 65An 65Am 65Am1 65Am2 65Am3 65Ab 65Aba 65D 65Da 65Dd 65Dda 65Df 65Dh 65Dg 65Dl 65Dlc 65Dr 65Dt 65Du 65Dv 65E 65Eb 65Ec 65Eç 65Ed 65F 65Fb 65Fc 65Fd 65Fp 65Fw 65Fz 65G 65Gb 65Gf 65Gn 65Gy 65K 65Kb 65Kç 65Kl 65Kl1 65Kl6 65Z 65Ku 65Ky 65Ky1 65L 65Lb 65Le 65M 65Mc 65Md 65N 65Nc 65Nç 65Ne4 65Nk 65Np 65Np1 65Np2 65Nr8 65Nm 73A 73Aç 73Aç2 73D 73Db 73Df 73Dfb 73Dfc 76B 76Bç 76D 76Da 80B 80Bc 80E 80Ea

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

96. *Paracorsia repandalis* ([Denis & Schiffermüller], 1775)

Synonymy: *repandalis* [Denis & Schiffermüller], 1775; *repandata* Fabricius nec Linn., 1758; *pallidalis* Hübner, 1796

Original Reference: *Pyalis repandalis* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 120. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848].

Range (as code): MA DZ PT ES FR Co Sa IT MT GB BE LU DE CH AT PL CZ SK HU RO YU MK BG GR Cr TR Cc AZ Nv Ord IR Th Kh Fa TM Kp RU MD UA Cm BY AF Kot Srb Bsg Pag Bm US Idp 04 05 06 13 16 31 36 38 42 44 45 46 58 65 70 76 04C 04Cf 05A 06R 13A 13Ab 13Ax 13F 16A 31K 31Ka 31Ka3 31Ka5 36D 36Db 44I 44Ic 44L 44Lc 46D 46Dc 58N 58Nc 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Df 65Dh 65Dg 65Dt 65F 65Fp 65Fz 65G 65Gb 65Gf 65Gy 65K 65Kl1 65Kl6 65Z 65L 65Le 65N 65Np2 65Nm 70C 70Ce 76C

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

97. *Parapoyinx stratiotatum* (Linnaeus, 1758)

Synonymy: *stratiotata* Linnaeus, 1758; *paludata* Fabricius, 1794; *depunctalis* Guenée, 1854; *amanica* Osthelder, 1935

Original Reference: *Phalaena stratiotata* Linnaeus, 1758, Syst. Nat. (Edn.10): 529. Type(s): [Europa].

Range (as code): PT ES FR Co Sa Si IT IE GB BE NL DE CH AT PL CZ SK HU RO YU BG GR DK NO SE FI EE LV LT RU Us MD UA BY LB TR Cc AZ Len IR Gh Tgo UZ Tas KK Ik KG Uk Tk Dj İi CN Stg 13 42 44 46 65 13A 13Aa 13Ab 13Ax 13F 13F25a 42B 44I 44Ic 65G 65Gb 65L 65Lb 65N 65Nf

Material studied: 6♂3♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 1♀. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

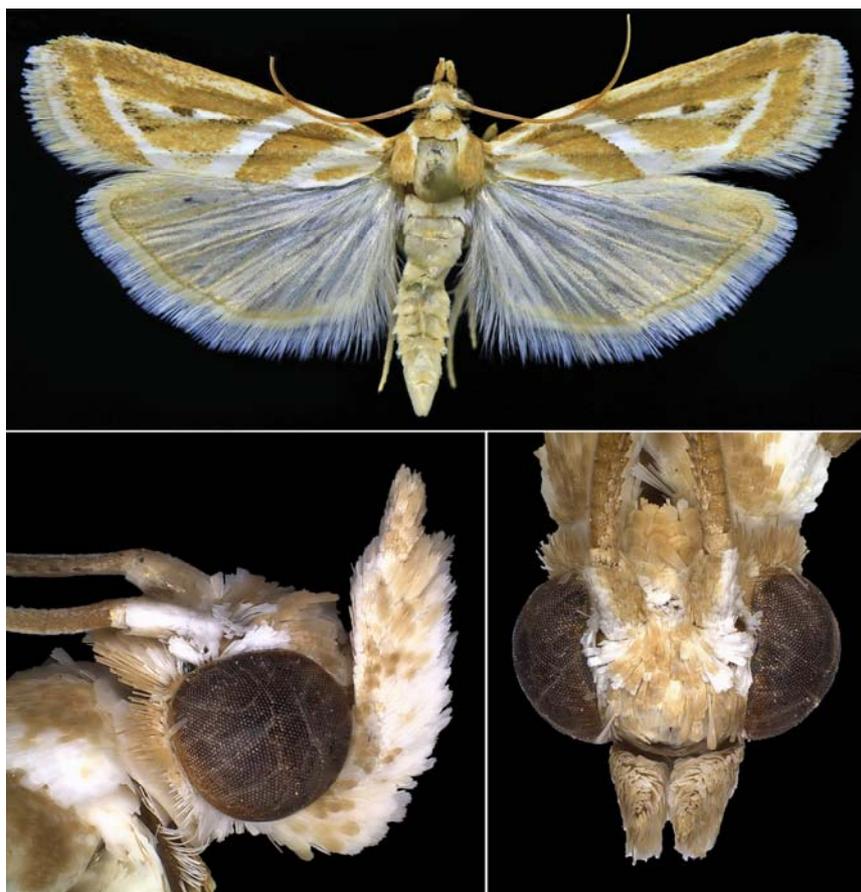
98. *Pristocerella solskyi* (Christoph, 1877) (Figs. 20-24)

Synonymy: *solskyi* Christoph, 1877; *ochroleucella* Staudinger, 1879; *bivitella* Christoph, 1887

Original Reference: *Myelois solskyi* Christoph, 1877, Horae Soc. ent. ross. 12: 287, Pl.8 fig.59. Lectotype ♂: [Iran]: Hadschyabad (Roesler, 1993: 136).

Range (as code): Cc AM Eri AZ Kir TR IR Elb Th Shh Dam Mz Ha Fa Kd Km Lo Zj Shh IQ Ry Hjo TM Kp 01 30 46 65 01K 30D 30Dt 46D 46Dc 46L 65D 65Df 65G 65Gb 65Fz

Material studied: 4♂ (GP3125), 1♀. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).



Figs. 20-22 - *Pristocerella solskyi*. Upperside of male (from Artos Mt.) (top), lateral and dorsal view of the head (from Zerneke) (bottom). East Turkey, Van Province, Gevaş and Gürpınar. M. kemal (Cesa).



Figs. 23-24 - *Pristocerella solskyi*. Male genitalia (GP3125) and tympanal organ (before & after preparation). Van Province, Gürpınar, Zerneke. M. Kemal (Cesa).

Cnephidia and *Pseudoinsalebria* are two Phycitinae genera close to each other. The species recorded from Zerneke belongs to *Pseudoinsalebria* according to the shape of the male genitalia. *Pseudoinsalebria*⁶ is newly established by Slamka *et al.* (2018) from Atlanto-Mediterranean Region. It is also represented in East Turkey by the present species. Currently *Pseudoinsalebria* is represented by *albipunctella* (Chrét.) from North Africa, and *iberica* Slamka *et al.* from Spain. The present species differs from both by its male genitalia, wing markings and colouration. Its description is given below:

⁶ “*Pseudoinsalebria*” is an incorrect subsequent spelling of the genus, repeated 4 times by Slamka (2019: 56-57).

99. *Pseudoinsalebria zerneka* sp.n.**(Figs.25-27)**<http://zoobank.org/urn:lsid:zoobank.org:act:6D4ED7BF-DDC8-4F81-BC9D-A2102F43C4DD>**Description:**

Holotype ♂. Fore-wing: 12mm, wingspan: 26mm

Head, thorax and legs covered by creamy scales. Position of labial palpi upwards, third segment smaller and somewhat turned forwards. Antenna filiform with fine ciliae ventrally. Sinus, blackish “tips” of antenna and proboscis well developed. Basal segments of abdomen yellowish-olive dorsally, otherwise dirty dark grey. Forewing narrow, almost triangular, costa slightly convex, termen roundish, dorsum almost straight. Ground colouration greyish-olive. Median and postdiscal area dark brown with indistinct inner border. Its outer border irregular-shaped and contrast sharpe well developed. Marginal line dark. Fringes not chequered but developed as distinct parallel lines formed by light and dark scales. Hindwing light greyish, semi-transparent, without marking. Marginal dark line distinct. Parallel lines of fringes more distinct towards apex. Anal area with white hairs.

Male genitalia (GP3274): Totally well sclerotized. Uncus broad and round, slightly emarginate at tip. Gnathos small, curved. Vinculum strongly chitinized, very broad basally. Valva broad costal arm highly sclerotized, pointed at tip, shorter than valva. Valva broad at outer part, covered by regular ciliae. Sacculus broad, well chitinized. Juxta broad roundish, well chitinized. Saccus large. Aedeagus broad, cylindrical, slightly curved. Cornutus large and broad, curved, pointed at tip. Culcita well developed.

Paratype 1♂. Sizes are same with holotype. External feature also similar to that of holotype.

This new species differs from *albipunctella* and *iberica* by its external features and also by the shapes of uncus, juxta, valva and aedeagus of the male genitalia.

Type-series: Holotype ♂. East Turkey, Van Province, Gürpınar, Zerneka 1975m, 5.vii.2019, M. Kemal & A.Koçak leg. – Paratype 1♂. From same place, 20.vii.2017, M. Kemal & A.Koçak leg. (both in coll. Cesa).

Etymology: The specific name *zerneka* is derived from the name of the locality, where the type specimens were collected from.

Habitat: Irano-Turanian mountain steppe, 1975m above sea level.

Remarks: This genus *Pseudoinsalebria* is reported from Turkey for the first time. The new species is the third one of the genus after *iberica* and *albipunctella* from Spain and North Africa respectively (Slamka *et al.*, 2018; Slamka, 2019).

100. *Pterothrixidia rufella* (Duponchel,1836)

Synonymy: *rufella* Duponchel,1836; *impurella* Duponchel,1837; *luridatella* Herrich-Schäffer,1847; *infuscatella* Herrich-Schäffer,1849; *corsicella* Ragonot,1893; *#pallida* Leraut,2014; *rungsella* Leraut,2014

Original Reference: *Phycis rufella* Duponchel,1836, Hist. nat. Lépid. Papillons Fr. 10: 170, pl.277 fig.6. Type(s): France, Corse.

Range (as code): MA Ifr PT ES Mu FR Co Sa IT MT CH HU RO YU AL BG GR AM Eri Cc TR 04 05 13 27 30 45 44 46 47 32 58 65 70 04C 04Cf 05A 13A 13Ab 13Ac 13Af 13Ax 13F 13F6 27D 27Dd 30B 30Bç 30Bz 44L 44Lc 46D 46Dc 47D 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Df 65Dt 65Fz 65G 65Gb 65K 65Kl1 65Z 65N 65Np1 65Np2 65Nm 70A 70Ab

Material studied: 7♂♀. Turkey, Van Province, Gürpınar, Zerneka 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 3♂. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species is highly variable in colour. It was previously reported by the authors from Zerneka (Kemal *et al.*,2018).

101. *Pyralis perversalis* (Herrich-Schäffer,[1849])

Synonymy: *lucidalis* Eversmann,1844 (praeocc.); *perversalis* Herrich-Schäffer,[1849]; *narynensis* Zerny,1914; *rubiginetincta* Caradja,1931; *#naryssensis* Amsel,1961

Original Reference: *Asopia perversalis* Herrich-Schäffer,[1849], Syst. Bearb. Schmett. Eur. 4: 123. Type: Russia: Ural.

Range (as code): CZ HU RO RU Ur MD UA BY TR Cc GG Ord Kir AZ Nv KG Tk NrK Ui Ku Au IR Elb Mz Kh LB Bsa 13 25 42 65 58 76 13A 13Ab 13Ax 13F 58N 58Nc 65A 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Fz 65G 65Gb 65Gü 65Gz 65K 65Kl6 65Z 65N 65Nf 65Np2 65Nm 76C 76D 76Da

Remarks: This species was previously reported by the authors from Zerneka (Kemal *et al.*,2018).



Figs. 25-27 - *Pseudoinsalebria zerneka* sp.n. Holotype ♂. Male genitalia (GP3274), culcita, abdominal segment with scale bar. Upside of the male (Holotype). East Turkey, Van Province, Zerneke. M. Kemal (Cesa).

102. *Pyrausta despicata* (Scopoli, 1763)

Synonymy: *despicata* Scopoli, 1763; *koenigiana* O.F. Müller, 1764; *vestianella* Clerk, 1764; *cespitalis* [Denis & Schiffermüller], 1775; *sordialis* Thunberg, 1784; *intermedialis* Duponchel, 1833; *tendinosalis* Bremer, 1874; *yangtsealis* Caradja, 1938; *ifranalis* Leraut, 2001

Original Reference: *Phalaena despicata* Scopoli, 1763, Entomologia Carniolica: 231. Type(s): [Slovenien]: Carniolia [Krain].

Range (as code): MA Ifr PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO SS YU AL BG GR Cr TR IQ Rwz Amr DK NO SE FI EE LV LT RU Cc GG CY IR Ab Elb Shh Th Fa Shr Com Ha Plr Kdv Mz AF Hr Bmu Slg Pnj BdA Pic Kab Arh Srb Ca Gbh Adr Fz Khi Pag Pli Ui Ju Ku UZ Fe AZ AM LB Bsa PK Abb Sro Mz Sb Yu Uk JO KG Db Skk Kdy DZ Lbs BY MD UA Cm Lvv Da Aa VI KP KR 01 05 06 11 13 14 16 17 21 24 25 30 31 32 33 34 42 46 49 51 55 56 58 65 71 72 76 01La 01Lb 01Le 01Lf 01Li 05A 06R 06Rd 13A 13Ab 13Ax 13B 13Bg 13G 13Gf 13F 13F25 13F6 13F8 13Gö 13Gg 13Gw 16A 21L 21Lf 30B 30Bt1 30Bz 30D 30Df 31M 33A 33Ae 49F 49Fb 55F 56D 56Dd 56F 56F1 58G 58Gg 65A 65Ac 65Ac3 65Ai 65As 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65Dg 65Dga 65Dh 65Du 65Dw 65G 65Gb 65Gf 65Gy 65Gn 65F 65Fb 65Fç 65Fp 65Fz 65K 65Kb 65Ké 65Kl 65Kl6 65Ku 65Kg 65L 65Lb 65Le 65N 65Nc2 65Nk 65Np 65Np7 65Np8 65Nr2 65Nm 65Z 76C

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

103. *Stemmatophora brunnealis* (Treitschke, 1829)

Synonymy: *brunnealis* Treitschke, 1829; *phaealis* Hampson, 1900; *ocellata* Rothschild, 1915; *lividalis* Constantini, 1922; *#nigrobrunnealis* Schawerda, 1941

Original Reference: *Pyralis brunnealis* Treitschke, 1829, Schmett. Eur. 7: 48-49. Type: "Ungarn".

Range (as code): MA DZ Anna Gue Ges TN PT ES FR Sa Si IT MT CH AT CZ SK HU RO HV YU MK BG GR CY IL TR Cc AZ Kir Lag GG LB IQ Bgd TM Kp 01 05 13 17 30 44 46 58 65 01L 01Lh 01Lk 05A 13F 13F25 13F35 30B 30Bt1 30Bz 44L 44Lc 46G 46Gi 58N 58Nc 65D 65Df 65F 65F1 65Fz 65G 65Gb 65K 65Kl6 65Z 65L 65Le 65N 65Nc2 65Nr8 65Nm

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 27.viii.2017, M. Kemal & A. Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

104. *Tegostoma perlepidalis* (Guenée, 1854)

Synonymy: *#lepidalis* Herrich-Schäffer, [1851]; *perlepidalis* Guenée, 1854; *lepidalis* Herrich-Schäffer, [1855]; *#lepidale* Caradja, 1916

Original Reference: *Anthophilodes perlepidalis* Guenée, 1854, [in] Boisduval & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: [447] (Errata) (nomen novum pro *lepidalis* H.-S. nec Cramer). Syntypes 2♀: [Turquie]: "Amasieh" [Amasya] (coll. Guenée).

Range (as code): TR Cc AM Eri AZ Nv Ord IQ IR Elb Kdj Th Ha Adv Fa Sse Shr AF Kab KG sKG Tks Dtk 05 06 13 30 42 56 65 71 05A 06R 13A 13Ab 13Ax 13F 30B 30Bt1 30Bz 56F 56F6 65D 65Df 65F 65Fo 65Fp 65Fz 65G 65Gb 65K 65Kd 65Kğ 65L 65Le 65N 65Np2 65Nm

Material studied: 9♂♀. Turkey, Van Province, Gürpınar, Zerne 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerne (Kemal *et al.*,2018).

105. *Udea confinalis* (Lederer,1858)

(Figs. 28, 29)

Synonymy: *confinalis* Lederer,1858; *graecalis* Staudinger,1870

Original Reference: *Botys confinalis* Lederer,1858, Wien. ent. Monatschr. 2: 149 Taf.4 fig.4. Type ♀: Syria: Damask.

Range (as code): GR PI TR Cc SY Dms IQ Ry Hjo IR Elb Nss Com Kz Th Fa Kh 13 30 46 56 65 76 13A 13Ab 13Ax 13F 13F6 13F71 30B 30Bt1 30Bz 56F 56F1 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Dlc 65Dp 65Fz 65G 65Gb 65K 65Kd 65Ké 65Kl6 65Z 76C

Material in SE Turkey: 1♂. Van Province, Kurubaş Pass 2240m, 30.vii.2002, A.Koçak leg. - 1♂1♀. Van Province, Çatak, Havareng valley 2100m(65Dp), 1.vii.2006, M. Kemal & A.Koçak leg. - 1♂. Van Province, Çatak, Amata valley 1600m (65Dlc), 2.viii.2007, M. Kemal & A.Koçak leg. - 1♂. Van Province, Başkale, Ziyaniş E 2400m (65Bo), 9. vii. 2015, M. Kemal & A.Koçak leg. - 6♂. Van Province, Çatak, Saklıvadi 2030m (65Df), 12.vii.2016, M. Kemal & A.Koçak leg. - 54♂. From same place, 25.vii.2016, M. Kemal & A.Koçak leg. - 1♂. Van Province, Bahçesaray, Krapet Pass 2820m (65Aba), 6.viii.2016, M. Kemal & A.Koçak leg. - 2♂. Van Province, Erek Mt. 2135m (65Kl6), 4.ix.2018, M. Kemal & A.Koçak leg. - 1♂. Van Province, Gürpınar, Zerne 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. - 1♂. Bitlis Province, Mutki, Aydemir 1710m (13F71), 25.vii.2017, M. Kemal & A.Koçak leg. - 1♂. Bitlis Province, Tatvan, Kavaklı 1790m, 12.viii.2018, M. Kemal & A.Koçak leg. - 1♂. Siirt Province, Şirvan, Akgeçit 1210m (56F1), 3.vii.2013, M. Kemal & A.Koçak leg. [new provincial record] (Cesa).



Figs. 28, 29 - *Udea confinalis* of male; upperside (left), underside (right). Van Province, Gürpınar, Zerne. M. Kemal (Cesa)

106. *Udea praepetalis* (Lederer,1869)

Synonymy: *praepetalis* Lederer,1869; *haemopsamma* Meyrick,1937

Original Reference: *Botys praepetalis* Lederer,1869, Horae Soc. ent. ross. 6: 90, pl.5 fig.11. Type: Iran: Astrabad [Gorgan], leg. Haberhauer.

Range (as code): IR Ha Adv Fa Th Kdj Elb Kdv Mz Plr Gor Sse TR Cc AZ Nv Ord IQ Ry Slf TM KK CN Ui Kml 04 05 13 25 30 42 46 51 56 58 65 69 71 76 05A 13A 13Ab 13Ax 13B 13Bd 13F 25A 30B 30Bc1 30Bç 30Bz 30D 30Df 56F 56F1 56Fn 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dx 65F 65Fr 65Fp 65Fz 65G 65Gb 65H 65K 65Kd 65Kğ 65Kl 65Kl6 65Z 65N 65Np2 65Nr2 65Nm 69B 76C

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerne 1975m (65Gb), 20.vii.2017, M. Kemal & A.Koçak leg. - 1♂. From same place, 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zerne (Kemal *et al.*,2018).

Sphingidae**107. *Hyles euphorbiae* (Linnaeus, 1758)**

Synonymy: *euphorbiae* Linnaeus, 1758; *esulae* Hufnagel, 1766; *vandalusica* Ribbe, 1910; *etrusca* Verity, 1911; *sinensis* Closs, 1917; *rothschildi* Stauder, 1928; *dolomiticola* Stauder, 1930; *filipjevi* O. Bang-Haas, 1936; *lucida* Derzhavets, 1980

Original Reference: *Sphinx euphorbiae* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 492.

Range (as code): Md Cn MA DZ TN PT ES FR Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr Rd DK SE FI EE LV LT RU Ao Sr Sb Ur MD UA Bkw BY AZ Tlh IR Elb Th CN Ui Ku Muz TJ Pm TR Cc GG Smt Bjo Tbl JO IL Pa Hf LB Bsa Bei IQ SY Dms IR Elb Th 01 04 05 06 07 09 10 13 14 15 16 17 20 21 24 25 30 32 33 35 36 42 45 44 46 47 48 50 51 56 58 60 63 65 70 72 73 76 01H 01L 01Lh 04C 04Cf 05A 06R 06Ra 06Re 10C 10D 13A 13Ab 13Ae 13Ax 13F 16A 21L 21Lc 21N 21Nb 24G 25C 25Ca 30B 30Bd 30Bt1 30Bz 30D 30Da 30Df 33A 33Ae 33R 33Rd 36D 51D 44E 44Ei 47F 47Fa 48G 48Gb 56F 56Fh 56Fa 56Fs 58G 58Gg 60C 63B 65A 65An 65Am 65Am1 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65F 65Fb 65Fe 65Fş 65Fz 65G 65Gb 65Gf 65Gy 65K 65K1 65Z 65N 65Nc2 65Nc4 65Np 65Np1 65Np2 65Nm 70C 70Cf 73C 73Cd 73D 73Da 76A 76Ac 76B 76Bb 76Bk 76D 76Da

Remarks: This species was previously reported and illustrated by the authors from Zerneke as larval stage on *Euphorbia* (Kemal *et al.*, 2018: fig. 33).

Tineidae**108. *Ateliotum hungaricellum* Zeller, 1839**

Synonymy: *hungaricellum* Zeller, 1839; *cypellias* Meyrick, 1937

Original Reference: *Ateliotum hungaricellum* Zeller, 1839, Isis 1839: 189.

Range (as code): ES FR IT DE AT PL CZ SK HU RO YU MK BG GR TR RU Da Cc AZ Tlh Dz Nv Sr Ao Or Ur UA Cm TJ KG 38 65 70 71 76 65D 65Df 65G 65Gb 65N 65Np2 65Nm 70C 70Cf 71D 76C

Remarks: This species was previously reported by the authors from Zerneke (Kemal *et al.*, 2018).

109. *Hapsifera luridella* Zeller, 1847

Synonymy: *luridella* Zeller, 1847; *eburnea* Butler, 1881; *palaestinensis* Rebel, 1901; *baliopsamma* Meyrick, 1921; *torulosa* Turati, 1919; *cyrenaicensis* Turati, 1924; *pustulatella* Lucas, 1942 nec Zell., 1852; *kerbelella* Amsel, 1949; *asiatica* Amsel, 1949; *susaella* Amsel, 1959

Original Reference: *Hapsifera luridella* Zeller, 1847, Isis 1847: 33. Syntypes 3♂; Lectotype ♂: [Turkey]: "Patera", designated by Robinson, 1982, Entomologist's Gaz. 33: 178 (BMNH).

Range (as code): MA TN LY Cy EG MK BG GR Nx Cr TR CY LB Bei IL Pa Hf Js JO IQ Kbl Hjo Sqw Bgd SA YE IR Ab Oru Kz Ahz Yas Km Sdt Mak Ak Hz Bu Fa Shr Ss Ke Jrf Kaz Das Snj Kd Es Th Kdj Qz Gh Elb Dam UZ Smk Br TJ PK Krc AF Srb BH Cc GG Lag AM AZ Kir Nv Ord SY Dms 01 05 06 16 21 22 27 30 31 33 42 46 47 56 65 71 73 76 01K 01L 01Le 05A 06R 21L 21N 21Nh 27B 30B 30Bç 30Bz 30D 30Df 31A 31M 33A 33Ao 33R 33Rb 46G 47D 56F 56Fb 56Fs 56Fs1 65D 65G 65Gb 65N 65Nc2 65Np2 65Np6 65Nm 71B 71D 73D 73Df 73Dfc 76B 76Bb 76C

Material studied: 4♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

Tortricidae**110. *Aethes moribundana* (Staudinger, 1859) (Figs. 30-32)**

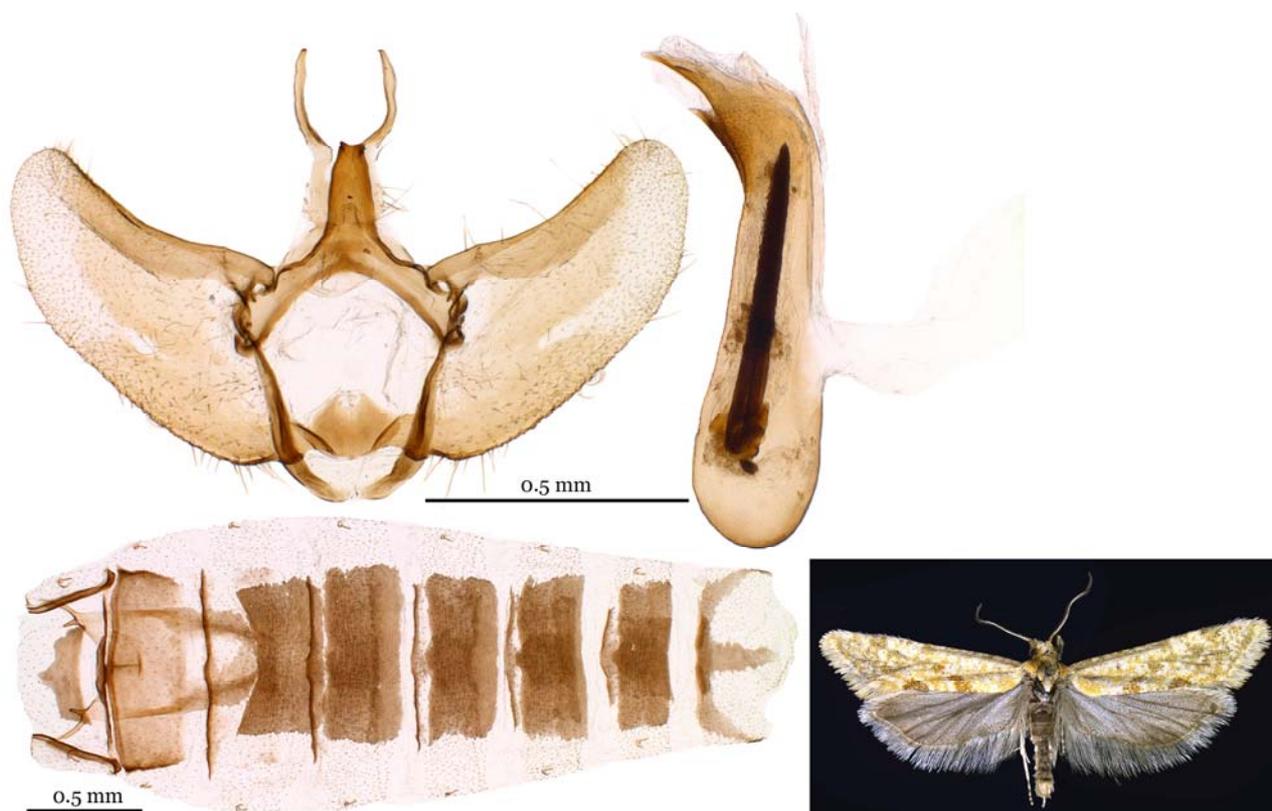
Synonymy: *moribundana* Staudinger, 1859; *respirantana* Staudinger, 1879; *dispersana* Kennel, 1899; *dilutana* Kennel, 1899; *helvolana* Kennel, 1900; *lanceolata* Filipjev, 1924.

Original Reference: *Cochylis moribundana* Staudinger, 1859, Stettin ent. Ztg. 20 (7/9): 230. Type ♂: Spain, Malaga.

Range (as code): DZ Tni Tis PT ES An Mlg FR Si IT PL CZ SK HU RO YU AL TR IR Lo Th Ak Mz Ha Avd Fa AF RU Sb Ir MD UA BY Cc GG SY Dms Hal UZ Fe Smk Man KG Lps DsA MN CN IMn Ts Ui Hph 05 13 14 16 42 44 46 65 71 05A 13F 13F71 16A 42R 44E 44Ei 65G 65Gb

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneke 1975m (65Gb), 5.vii.2019, M. Kemal & A. Koçak leg. (Cesa).

Remarks: The present record is new for the fauna of Van Province (GP2832♂, GP2833♂, GP3281♂)



Figs. 30-32 - *Aethes moribundana*. Male genitalia (GP3281), abdominal skin and upperside of male. East Turkey, Van Province, Gürpınar, Zerne. M. Kemal (Cesa)

111. *Aethes tesserana* ([Denis & Schiffermüller], 1775)

Synonymy: *tesserana* [Denis & Schiffermüller], 1775; *aleella* Sulzer, 1776; *heiserana* Fabricius, 1787; *groendaliana* Thunberg, 1791.

Original Reference: *Tortrix tesserana* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 126. Type(s): Vienna district.

Range (as code): PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU HV ME Ctn MK AL BG GR TR SY Hal LB DK SE FI EE LV LT RU Tt Pr IR Elb 04 05 06 16 30 36 40 60 65 04C 04Cf 05A 06F 16A 30B 30Bc 30Be5 30Bz 36D 36Db 60C 65A 65Am 65Am3 65At 65At5 65D 65Dd 65Dda 65Dl 65Dn 65F 65Fd 65Fg 65Fp 65Fz 65G 65Gb 65N 65Np2 65Np5 65Nm

Material in East Turkey: 1♂. Turkey, Van Province, Gevaş, Balaban 1780m (65Fg), 21.vi.2006, L.Kayci & H.Özkol leg. - 1♂. Van Province, Çatak, Dalbastı *Quercetum* 1600m (65Dn), 31.v.2009, M.Kemal & A.Koçak leg. - 1♂. Van Province, Gevaş, Artos Mt. 1980m (65Fp), 15.vii.2012, M. Kemal & A.Koçak leg. - 7♂ (GP2190). Van Province, Tuşba, Ağartı 1950m (65Np2), 27.v.2014, M. Kemal & A.Koçak leg. - 2♂. Tuşba, Ağartı 1660m (65Np5), 24.vi.2017, M. Kemal & A.Koçak leg. - 1♂. Bahçesaray, Upper Mukus Valley 1850m (65Am3), 24.vi.2016, M. Kemal & A.Koçak leg. - 1♂. Bahçesaray, Altındere 1935m (65At5), 4.vii.2016, M. Kemal & A.Koçak leg. - 1♂. Gürpınar, Zerne 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. - 1♂. Hakkari Province, Sümbül Mt. E 1625m, 20.v.2018, M. Kemal & A.Koçak leg. - 2♂. Ağrı Province, Doğubeyazıt, İhsakpaşa 1940m (04Cf), 27.vi.2019, M. Kemal & A.Koçak leg. (Cesa).

112. *Celypha cespitana* (Hübner, [1817])

(Figs. 33-35)

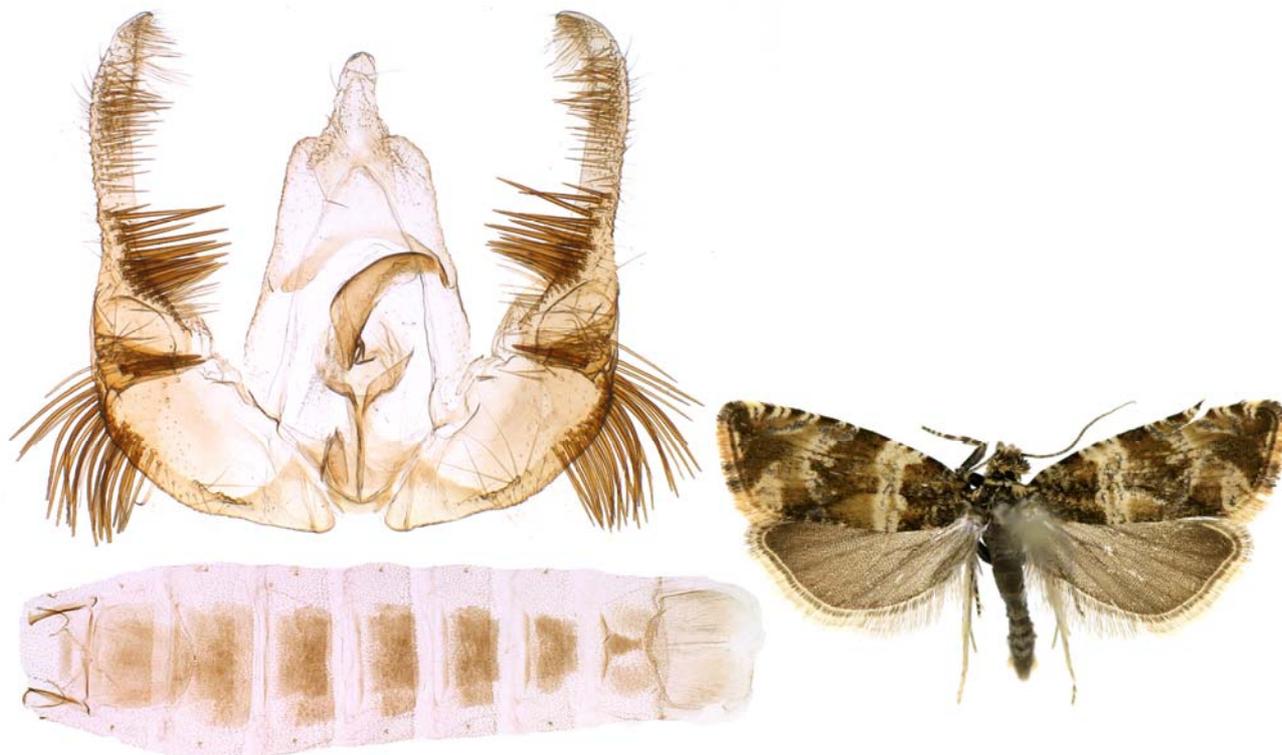
Synonymy: ? *umbriana* Scopoli, 1763; *cespitana* Hübner, [1817]; *gramineana* Curtis, 1831; *poana* Zeller, 1875

Original Reference: *Tortrix cespitana* Hübner, [1817], Samml. eur. Schmett., Tortrices: Tab. 39, figs. 244-245. Syntypes: Europa.

Range (as code): ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG TR IR GlS Gor Th DK NO SE FI EE LV LT RU Ur Sb Tv Am Vv MD UA BY KK Cc GG CN Mc Jn KP KR JP Hkk US 05 13 16 65 05A 13A 13Ab 13Ax 16A 65G 65Gb

Material studied: 1♂ (GP3276). Turkey, Van Province, Gürpınar, Zerne 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: Seven & Özdemir (2007) reviewed the *Celypha* species in Turkey. In Van Lake Basin, this species was listed from Bitlis Province (Süphan Mt. (13Ax)) (Kemal *et al.*, 2020a: 247, nr.1118). The present record is new for the fauna of Van Province (Gen. Prep. no: GP2719♂, GP3276♂).



Figs. 33-35 - *Celypha cespitana*. Male genitalia (GP3276), abdominal skin, and upperside of the male. East Turkey, Van Province, Gürpınar, Zerneş. M. Kemal (Cesa).

113. *Cnephasia (s.str.) orientana* (Alpheraky, 1877)

Synonymy: *orientana* Alpheraky, 1877

Original Reference: *Sciaphila orientana* Alpheraky, 1877, Trudy Vses. ent. Obstsh. 10 (1876): 48.

Syntypes: Russia: Tagonrog.

Range (as code): MT RO BG TR SY Dms RU Sr UA Ode Cm CY Cc AM Eri GG AZ Nv Ord KG Uk TM UZ TJ IR Elb Dam Ar Ab Oru Es Gh Km Th IQ AF 04 06 13 27 30 38 44 46 56 65 76 04C 04Cf 13A 13Ab 13Af 13Ax 13F 13F71 27D 27Dd 30B 30Bt1 30Bz 44A 44Ab 44L 44Lc 46F 46Ff 56D 56Dc 65B 65Bo 65Bx 65D 65Dg 65Dga 65F 65Fç 65Fz 65G 65Gb 65Gf 65Gy 65K 65Kd 65Kg 65L 65Le 65N 65Np5 65Nm 76C

Material studied: 2♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

114. *Cnephasia* sp.1

Material studied: 1 ex. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

115. *Cnephasia* sp.2

Material studied: 4 ex. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

116. *Dichrorampha vancouverana* McDunnough, 1935

Synonymy: *strigana* Haworth, [1811] nec [Denis & Schiff.], 1775; *politana* Guenée, 1845 (preocc.); *vancouverana* McDunnough, 1935; *gueneana* Obraztsov, 1953

Original Reference: *Dichrorampha vancouverana* McDunnough, 1935, Can. Ent. 67: 147, fig.5.

Holotype ♂: Canada, British Columbia, Vancouver Is. Comox.

Range (as code): ES FR IT IE GB BE NL LU DE CH AT PL CZ SK HU RO DK NO SE FI EE LV LT RU Us Sb MD UA Cm BY KG US Ny Mai TR CA BCo Vc 13 65 73 13A 13Ac 13Ax 13F 13F25 65A 65D 65Df 65G 65Gb 65K 65Kl6 65Z 73A 73Ad 73Ad1

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zerneş 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

117. *Eana (s.str.) andreana* (Kennel,1919)

Synonymy: *andreana* Kennel,1919; ?*kuldjaensis* Razowski,1959; #*kuldjaensis* Razowski,2001

Original Reference: *Tortrix andreana* Kennel,1919, Mitt. münch. ent. Ges. 8 (1917/18): 64, pl. 2 fig.16. Syntypes 4♂: [Kazachstan]: "Uralsk".

Range (as code): RU KG Uk Ui Ku TR 65 65G 65Gb 65Gü 65Gz

Remarks: This species was recently reported and illustrated (GP3035♂) from Van Province (Başet Mr.) (Kemal *et al.*, 2019).

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

118. *Epinotia dalmatana* (Rebel,1891)

Synonymy: *dalmatana* Rebel,1891; *luciana* Chrétien,1908; *psychrodora* Meyrick,1936; *mesopotamica* Obraztsov,1952; *obraztsovi* Agenjo,1967

Original Reference: *Grapholitha dalmatana* Rebel,1891, Verh. zool. - bot. Ges. Wien 41: 622. Type: Croatia.

Range (as code): ES FR IT YU HV GR TR RU MD Cc GG AZ AM IR Fa IQ SY Dms Bld LB Bsa Cm 06 13 30 44 47 65 13A 13Ab 13Ax 13F 13F38 30B 30Bc1 30Bz 44L 44Lc 65G 65Gb

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 5.vii.2019, M. Kemal & A.Koçak leg. (Cesa).

Remarks: The present record is new for the fauna of Van Province.

119. *Eugnosta magnificana* (Rebel,1914)

Synonymy: *margaritana* Hübner,[1813] nec Haw.,[1811]; ? *norvichiana* Hübner,[1817] [nomina dubia!]; *magnificana* Rebel,1914.

Original Reference: *Euxanthis magnificana* Rebel,1914, Dt. ent. Z., Iris 28: 273. Lectotype ♂: [Uighur Ili]: Kuldja, designated by Razowski,1964 (MGAB).

Range (as code): ES FR Si IT DE SK HU RO YU MK RU Sr MD UA BY TR Cc AM IR Elb Dam Kdv Ar Th Kh Ak AF KG Uk T-S Ui Ku CN IMn 06 13 26 42 50 58 65 71 06R 06Rb 13A 13Ac 13Ac2 13Ax 13G 13Gw 50G 50Gc 58G 65A 65Ab 65Aba 65Bx 65D 65Df 65G 65Gb 65Ge 65K 65Kl6 65Ku 65Z 65N 65Nr8 65Nm

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 27.viii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

120. *Pelochrista arabescana* (Eversmann,1844)

Synonymy: *arabescana* Eversmann,1844

Original Reference: *Cochylis arabescana* Eversmann,1844, Fauna lepid. Volgo- Uralensis: 528. Lectotype ♂, designated by Nedoshivina (2007, Nota lepid. 30 (1): 97, fig.6 [adult moth], 101, fig.28 [male genitalia]).

Range (as code): FR Fo5 HU RO RU Ur Ao MD UA BY TR Cc GG 25? 65 69? 65G 65Gb

Material studied: 1♂. Turkey, Van Province, Gürpınar, Zernek 1975m (65Gb), 27.viii.2017, M. Kemal & A.Koçak leg. (Cesa).

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

121. *Phalonidia contractana* (Zeller,1847)

Synonymy: *contractana* Zeller,1847; *manifestana* Kennel,1900; *exaequata* Meyrick,1923; *thermoconis* Meyrick,1925

Original Reference: *Cochylis contractana* Zeller,1847, Isis von Oken 1847: 744-745. Type(s): "Brussa", etc.

Range (as code): DZ Bsk Anna PT ES FR Sa Si IT MT AT CZ SK HU RO MK HV AL BG Bgz GR TR CY LB Bei IL Hf Js Pa Cc AM Eri SY Dms IR Gor Elb Mz Clu Kh GlS Th Dam Ar Fa Gh TM Kp AF Srb PK TJ Pm Ch RU Sr Ur KG Uk CN Hnn Ui Ku KK IN Ch Sri 05 06 13 14 15 16 31 33 42 46 58 65 71 06R 13F 13F25 16A 31M 33F 42B 46G 58N 58Nc 65G 65Gb 65L 65Le 65N 65Np1 65Nm

Remarks: This species was previously reported and illustrated (GP2831♂) by the authors from Zernek (Kemal *et al.*,2018).

Yponomeutidae**122. *Yponomeuta malinella* (Zeller,1838)**

Synonymy: *malinellus* Zeller,1838

Original Reference: *Hyponomeuta malinellus* Zeller,1838, Isis Leipzig 1838: 670. Type: Germany, Glogau.

Range (as code): DZ ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc AM DK NO SE FI EE LV LT RU MD UA BY CN Mc KP KR JP US 05 06 13 45 56 65 05A 06R 06Rb 13A 13Ab 13Ax 13F 13F71 56F 56F1 65A 65Ac 65Ac3 65An 65Ai 65D 65Df 65Dlc 65Fz 65G 65Gb 65L 65Le 65N 65Np 65Nm

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

123. *Ypsolopha* sp.

Remarks: This species is differs more or less from all known west palaeartic species of the genus. However, description of one species, *curatorella* Baraniak,2005 could not be obtained so far. Therefore we could not give more details about the present species.

Zygaenidae

124. *Zygaena (Mesembrynus) tamara* Christoph,1889

Synonymy: *tamara* Christoph,1889

Original Reference: *Zygaena tamara* Christoph,1889, Horae Soc. ent. ross. 23: 300. Type: [Azerbaijan]: Ordubad.

Range (as code): TR IQ IR Ak Ab Mha Sdt Krd Kdv Elb Gh Mz Lo Es Km Zj Th Ha Kd Bne Mrv Bjr Qz Cc AM Azb Alg AZ Nv Ord 13 30 62 65 30B 30Be 30Bo 30Bz 30D 30Df 30Dt 62E 65F 65Fd 65G 65Gb 65Gl 65K 65Kr 65Z 65N 65Nf 65Np1 65Nm

Remarks: This species was previously reported by the authors from Zernek (Kemal *et al.*,2018).

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