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CONTRIBUTION TO THE KNOWLEDGE OF PAPILIONOIDEA AND HESPERIOIDEA (LEPIDOPTERA) FAUNA OF İDRIS MOUNTAIN (TURKEY)

Selma SEVEN

Gazi University, Faculty of Science and Literature, Biology Department,
Teknikokullar Ankara/Turkey E-mail: selma@gazi.edu.tr; s_seven@lycos.com

Abstract - Butterflies of the superfamilies Papilionoidea and Hesperioidea, collected in the İdris Mountain and its surroundings within the province of Ankara between March 2001 and September 2003, were examined. 112 species belonging to 7 families were recorded. Among these, 58 species are new to the İdris Mountain region and 2 species (*Polyommatus (Agrodiaetus) actis* (Herrich-Schaeffer, [1851]) and *Plebeius (Vacciniina) alcedo* (Christoph, 1877)) are new to the province of Ankara. This raises the number of species recorded in the Ankara province to 180.

KEY WORDS: Fauna, Papilionoidea, Hesperioidea, İdris Mountain, Ankara, Turkey

Izveček – PRISPEVEK K POZNAVANJU FAVNE NADDRUŽIN PAPILIONOIDEA IN HESPERIOIDEA (LEPIDOPTERA) GORE IDRIS (TURČIJA)

Pregledali smo metulje naddružin Papilionoidea in Hesperioidea, zbrane med marcem 2001 in septembrom 2003 na gori İdris in njeni okolici v provinci Ankara. Ugotovili smo prisotnost 112 vrst, pripadajočih 7 družinam. Med temi je 58 vrst prvič najdenih v območju gore İdris, dve vrsti (*Polyommatus (Agrodiaetus) actis* (Herrich-Schaeffer, [1851]) in *Plebeius (Vacciniina) alcedo* (Christoph, 1877)) pa sta novi najdbi v provinci Ankara. To zvišuje število vrst, znanih iz province Ankara na 180.

KLJUČNE BESEDE: favna, Papilionoidea, Hesperioidea, gora İdris, Ankara, Turčija

Introduction

The province of Ankara has a rich butterfly fauna due to the altitude differences and the resulting diversity of ecological conditions. Over the years it has attracted

many researchers and it is known as the type locality of many species. Although the region has been studied by many Turkish and foreign researchers (Koçak, 2000; Koçak & Seven, 1991, 1993, 1998; Reissinger, 1989; Seven, 1994, 1996, 2000; Seven & Bakowski, 1996; Seven & Kemal, 2000; Seven, Hüseyinoğlu, Kemal, & Özdemir, 2000; Wagener, 1983), records of newly found species still occur. İdris Mountain, to the North of Ankara, has an altitude of 1925 m. This is arid, stony region with high elevation steppe characteristics. It belongs to the Irano-Turanian phytogeographical region. The subdivisions of the province are Elmadağ, Kalecik and Akyurt.

There are only a few studies of the butterflies of the İdris Mountain and its surroundings. Hesselbarth, et al. (1995) reports only a single species from Kalecik, whereas Seven (1996) found 40 species in the same region. Seven & Kemal (2000) report 20 species, again from Kalecik. The rich fauna of the İdris Mountain is endangered due to habitat destruction by agriculture along rivers on the outskirts of the mountain and overgrazing of mountain pastures at higher elevations. Especially, the richness of the area is negatively affected by overgrazing at places above 1200 m.

The habitat types at the localities in the research area that were surveyed in this study can be classified as below:

Yeşildere (1200-1300 m) on the southern slopes of the Idris Mountain: Well-developed vegetation cover on the hills with predominant tree species of the genera *Quercus*, *Celtis*, *Tilia*, *Pyrus*, *Populus*, *Salix*, *Tamarix*, and shrubs of the genera *Berberis*, *Rubus*, and *Coluthea*. The valley is humid with gardens along the river;

Mezarlık (cemetery) and its surroundings (900-1000 m) on the northern outskirts of the Idris Mountain: Newly afforested fields;

Kalecik-Gölköy (1000-1200 m) on the northern outskirts of the Idris Mountain: This site is located in the villages and their surroundings and mostly includes fields and gardens lined with trees;

Gölköy (1200-1400 m) on the northern slopes of the Idris Mountain: Dry River beds above the village and *Astragalus* steppe areas;

İdris Mountain north facing slopes (1300-1500 m): Subalpine zone. Arid, stony site, steppe areas. There are small water flows, where single bushes of *Centaurea* species and gramineas grow;

İdris Mountain north facing slopes (1400-1750 m): Subalpine. Arid and stony places with few *Amygdalus*. Devoid of vegetation mainly due to overgrazing.

Akyurt (1200 m) on the northwestern side of the Idris mountain: Clearing in place of a destroyed *Quercus* forest.

The region above 1750 m is a military area with restricted access. Thus, no specimen could be collected at this site.

The recorded species are listed with original references in the list below. First records for the İdris Mountain are denoted by an asterisk (*) and new records for the province of Ankara by double asterisk (**). Specimens are kept in the personal collection of the author. Nomenclature is based on Hesselbarth, et al. (1995) and Koçak (2000).

Results

PAPILIONOIDEA PAPILIONIDAE

Papilio machaon syriacus Pfeiffer, 1931

Papilio machaon ssp. *syriacus* Pfeiffer, 1931, Mitt. münch. ent. Ges. 21: 81
Syntypes: [Turkey]: türkisch Nordsyrien: Aksu, Ebene, Durnaly.
Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀; Mezarlık, 950 m, 23.06.2001, 1♂; Gölköy, 1150 m, 30.06.2001, 1♂.

Iphiclydes podalirius podalirius (Linnaeus, 1758)

Papilio podalirius ssp. *podalirius* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 463, nota.
Syntypes: Europaeaestr. & Africae. Lectotyp ♂: Italy, Toscani (ICZN, Op. 263).
Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂; Akyurt, 1205 m, 23.06.2001, 1♀; Yeşildere, 1200 m, 15.06.2002, 1♀ 1♂.

Zerythia (Allancastria) cerisyi cerisyi (Godart, 1822)*

Thais cerisyi Godart, 1822, Mem. Soc. linn. Paris 2:234, pl. 20, figs., 3, 4. Syntypes: [Turkey]: Ourlac [Urla (İzmir)].
Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 15♂ 2♀.

PIERIDAE

Leptidea duponcheli lorkovici Pfeiffer, 1932

Leptidea [sic!] *duponcheli* ssp. *lorkovici* Pfeiffer, 1932, Mitt. münch. ent. Ges. 22: 20, Taf. 2, figs., 13-18. Type ♂: [Turkey]: türkisch Nordsyrien: Marasch 1200 m.
Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂.

Leptidea sinapis sinapis (Linnaeus, 1758)*

Papilio sinapis Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 468 Type(s): [Europe].
Material studied: Yeşildere, 1250 m, 24.05.2003, 3♂.

Anthocharis cardamines cardamines (Linnaeus, 1758)

Papilio cardamines Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 468 Type(s): [Europe].
Material studied: Yeşildere, 1250 m, 24.05.2003, 4♂.

Anthocharis gruneri gruneri (Herrich-Schaeffer, [1851])*

Anthocharis gruneri Herrich-Schaeffer, [1851], Syst. Bearb. Schmett. Eur. 6: 20, ibid. 1: pl.115, figs., 551-554 [uninominal]. Syntypes: ?Creta [Kleinasien].
Material studied: Yeşildere, 1250 m, 24.06.2003, 1♂.

Zegris eupheme menestho (Menetries, 1832)*

Pieris menestho Menetries, 1832, Catalogue raisonne des objets de Zoologie recueillis.: 245. Syntypes: [Aserbaidjan]: Talyche: Zouvant.
Material studied; Yeşildere, 1250 m, 24.06.2003, 1♂.

Euchloe ausonia taurica Röber, [1907]

Euchloe belia f. *taurica* Röber, [1907], [in] Seitz, Die Gross-Schmett. Erde 1: 52, Taf. 22c. Type(s): [Türkei]: Kilikischer Taurus (Typenmaterial verschollen).
Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 2♂; Yeşildere, 1200 m, 15.06.2002, 1♀.

Aporia crataegi crataegi* (Linnaeus, 1758)

Papilio crataegi Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 467 Type(s): [Europe].

Material studied: Gölköy, 1310 m, 23.06.2001, 1♂; 1250 m, 30.06.2001, 1♂; İdris Mountain, 1500-1600 m, 29.06.2002, 1♀.

***Pieris (Artogeia) rapae rapae* (Linnaeus, 1758)**

Papilio rapae Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 468 Type(s): [Schweden (Verity, 1947)].

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2002, 1♂; Yeşildere, 1200 m, 15.06.2002, 1♂ 2♀

Pieris (Artogeia) pseudorapae suffusa* (Sheljuzhko, 1931)

Pieris napi ssp. *suffusa* Sheljuzhko, 1931, Int. ent. Z. 25: 73. Lectotype ♂: [Azerbaidjan]: Jelisavetopol (MZSF)

Material studied: Yeşildere, 1250 m, 24.05.2003, 1♂

Pieris (s.str.) brassicae brassicae* (Linnaeus, 1758)

Papilio brassicae Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 468 Type(s): [Europe].

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀; İdris Mountain, 1500 m, 21.07.2001, 1♂; Yeşildere, 1200 m, 15.06.2002, 2♂.

***Pontia edusa edusa* (Fabricius, 1777)**

Papilio edusa Fabricius, 1777 Genera Insectorum: 255 Type(s): [Deutschland]: Chilonii.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂; Mezarlık, 950 m, 23.06.2001 1♂; İdris Mountain, 1600-1720 m, 30.06.2001, 1♀; 1500-1600 m, 29.06.2002, 1♂ 1♀; 1500 m, 21.07.2001, 4♂ 1♀.

Colias aurorina aurorina* (Herrich-Schaeffer, [1850])

Colias aurorina Herrich-Schaeffer, [1850], Syst. Bearb. Schmett. Eur. 1: f.463-456; ibid. 6: 22 Syntypes: [Turkey]: Kleinasien [?Amasia].

Material studied: İdris Mountain, 1500-1600 m, 29.06.2002, 1♀.

***Colias crocea crocea* (Fourcroy, 1785)**

Papilio croceus Fourcroy, 1785, Entomologica Parisiensis: 250. Type(s): [France]: Paris.

Material studied: Gölköy, 1310 m, 30.06.2001, 2♂; İdris Mountain, 1550 m, 23.06.2001, 1♂; 1600-1720 m, 30.06.2001, 1♀; 1500-1600 m, 21.07.2001, 4♂; Yeşildere, 1200 m, 15.06.2002 1♂ 1♀.

***Colias sareptensis bergeri* Reissinger, 1989**

Colias alfacariensis ssp. *bergeri* Reissinger, 1989, Neue ent. Nachr. 26: 125 et seq., figs. Holotype ♂: [Türkei]: Asia Minor, Ankara, Bağlum 1200 m.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 2♂ 2♀; Yeşildere, 1200 m, 15.06.2002, 2♂.

Gonepteryx rhamni transiens* Verity, 1913

Gonepteryx rhamni transiens Verity, 1913, J. linn. Soc., Zool. 32: 180 Syntypes: Italia: Toscana.

Material studied: Kalecik-Gölköy, 1200 m, 19.05.2001, 1♂ (Nocturnal); Yeşildere, 1250 m, 10.04.2004, 2♂.

Gonepteryx farinosa turcirana* de Freina, 1983

Gonepteryx farinosa ssp. *turcirana* de Freina, 1983, Mitt. münch. ent. Ges. 72: 32-33, figs. Holotype ♂: [Türkei]: Kleinasien: Amasya, 400-1100 m.
Material studied: Yeşildere, 1250 m, 28.06.2002, 1♀; İdris Mountain, 1500-1600 m, 29.06.2002, 1♂.

LIBYTHEIDAE

Libythea celtis celtis* (Laicharting, 1782)

Papilio celtis Laicharting, 1782, [in] Fuessly, Arch. Insektengesch. (2) (4): 1, pl., 8 figs., 1-3. Type(s): S.Tirol: Bolzano.

Remarks: This species was observed flying at 1200 m around *Celtis* in the clearings of oak forest (in Yeşildere) on 15th of June, 2002.

ARGYNNIDAE

Limenitis reducta herculeana* Stichel, [1908]

Limenitis reducta ssp. *herculeana* Stichel, [1908], [in] Seitz, Die Gross-Schmett. Erde 1: 183, Taf. 57c, Syntypes: Dalmatien, Südfrankreich.

Material studied: Yeşildere, 1250 m, 15.06.2002, 1♀.

Nymphalis antiopa antiopa* (Linnaeus, 1758)

Papilio antiopa Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 476 Type(s): America.

Remarks: This species was observed in Yeşildere flying around the dry stream bed among the abandoned gardens lined with willow, poplar and linden trees at the same date with the species mentioned above.

Aglais urticae turcica* (Staudinger, 1871)

Vanessa urticae var. *turcica* Staudinger, 1871, Cat. Lepid. Eur. Faunangeb. (2): 16: Syntypes: Südl. Balkanhalbinsel: [Türkei]: Asia Minor

Material studied: Yeşildere, 1250 m, 15.06.2002, 1♀.

***Cynthia cardui cardui* (Linnaeus, 1758)**

Papilio cardui Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 475. Syntypes: Europe, Africa [Sweden (Verity, 1950)].

Material studied: Kalecik-Gölköy, 1250 m, 30.06.2001, 1♀; İdris Mountain, 1550 m, 23.06.2001, 3♀.

Polygonia egea egea* (Cramer, [1775])

Papilio egea Cramer, [1775], Utitl. Kapellen 1: 124; Pl. 78 figs. C, D. Syntypes: [Türkei]: [İstanbul]: Constantinopel: [İzmir]: Smyrna (nec. *Papilio egea* Fabricius, 1775; cf. ICZN Art. 58 Opinion 516).

Material studied: İdris Mountain, 1600 m, 21.07.2001, 1♀.

Brenthis hecate transcaucasica* Wnukowsky, 1929

Brenthis hecate var. *transcaucasica* Wnukowsky, 1929, Zool. Anz. 83: 222-223. (nomen nov. pro *caucasica* Stgr., 1871, nec. Lederer, 1852).

Material studied: Yeşildere, 1250 m, 28.06.2002, 1♂; 1200-1300 m, 29.06.2002, 1♀.

Argynnis (Fabriciana) niobe orientalis* Alpheraky, 1881

Argynnis niobe var. *orientalis* Alpheraky, 1881, Horae Soc. ent. ross. 16: 410-411. Syntypes ♂♀: [Uighur A.R.]: Kuldja.

Material studied: Yeşildere, 1250 m, 15.06.2002, 3♂; 24.05.2003, 4♂.

***Argynnis (Pandoriana) pandora pandora* ([Denis & Schiffermüller], 1775)**

Papilio pandora [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 176. Type(s): Austria: Vienna district.

Material studied: Yeşildere, 1200 m, 16.06.2002, 6♂♀; 1250 m, 28.06.2002, 1♀; 10.04.2002, 3♂ 3♀.

Argynnis (Speyeria) aglaja aglaja* (Linnaeus, 1758)

Papilio aglaja Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 481 Type(s): [Sweden, (Verity, 1950)].

Material studied: İdris Mountain, 1500 m, 21.07.2001, 1♂.

***Issoria lathonia lathonia* (Linnaeus, 1758)**

Papilio lathonia Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 481. Type(s): [Sweden, (Verity, 1950)].

Material studied: Mezarlık, 950 m, 23.06.2001, 1♀; İdris Mountain, 1400 m, 23.06.2001, 1♂; 1550 m, 23.06.2001, 1♀; 1600 m, 29.06.2002, 1♂; Yeşildere, 1250 m, 28.06.2002, 1♀; 1200-1300 m, 29.06.2002, 1♀; 24.05.2003, 5♂.

***Melitaea (s.str.) cinxia clarissa* Staudinger, 1901**

Melitaea cinxia var. *clarissa* Staudinger, 1901, Cat. lepid. palaearky. Faunengeb. 3 (1): 29, nr. 177c. Syntypes: [Türkei]: Antiochia, Mardin; Tura occident.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀; İdris Mountain, 1550 m, 23.06.2001, 1♀; 1500-1600 m, 29.06.2002, 3♀; Yeşildere, 1250 m, 24.05.2003, 1♂ 1♀.

***Melitaea (s.str.) didyma didyma* (Esper, [1779])**

Papilio didyma Esper, [1779], Die Schmett. 1: 365 Type(s): [Germany]: Bavaria: Uffenheim.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀; İdris Mountain, 1600-1720 m, 30.06.2001, 1♀; 1500 m, 21.07.2001, 1♀; 1600 m, 29.06.2002, 4♂♀; Gölköy, 1310 m, 23.06.2001, 1♂; 30.06.2001, 1♀; 1250 m, 30.06.2001, 7♂♀; Yeşildere, 1250 m, 28.06.2002, 1♀; 24.05.2003, 2♂.

***Melitaea (s.str.) fascelis fascelis* (Fabricius, 1787)**

Papilio fascelis Fabricius, 1878, Mant. Ins. 2: 58-59, nr. 570 Syntypes [Russia]: Russiae australiori.

Remarks: It has been recorded only by Seven (1996) for İdris Mountain.

***Melitaea (s.str.) (phoebe) punica telona* Fruhstorfer, 1908**

Melitaea phoebe ssp. *telona* Fruhstorfer, 1908, Int. Ent. Z. 1: 310. [Israel]: Jerusalem.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀ (Nocturnal); Gölköy, 1310 m, 30.06.2001 1♀; Yeşildere, 1200 m, 15.06.2002, 5♂ 1♀; 1200-1300 m, 29.06.2002, 5♂♀; 24.05.2003, 2♂ 1♀; İdris Mountain, 1500-1600 m, 29.06.2002, 4♂♀.

Euphydryas (Eurodryas) orientalis orientalis* (Herrich-Schaeffer, [1846])

Melitaea orientalis Herrich-Schaeffer, [1846], Syst. Bearb. Schmett. Eur. 1: 163, figs. 265-266. Syntypes: [Türkei]: Konstantinopel [İstanbul].

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 23♂♀.

SATYRIDAE

Melanargia larissa noacki Wagener, 1983

Melanargia larissa ssp. *noacki* Wagener, 1983, Atalanta 14(4): 286-297, pl. 7, 8. figs., 1-8. Holotype ♂: Türkiye: Ankara.

Material studied: Yeşildere, 1200-1300 m, 29.06.2002, 6♂ 2♀; İdris Mountain, 1500-1600 m, 21.07.2001, 3♂ 4♀; 1600 m, 29.06.2002, 1♂; Gököy, 1250 m, 30.06.2001, 3♀; 1150 m, 30.06.2001, 1♂; Mezarlık, 950 m, 23.06.2001, 3♀ 2♂.

Hipparchia (Neohipparchia) fatua fatua (Freyer, [1844])

Papilio fatua Freyer, [1844], Neuere Beitr. Schmett. 5: 54. Lectotype ♂: [Türkei]: Kedos [Gediz] (Kudrna, 1977: 132).

Remarks: It has been recorded only by Seven (1996) for İdris Mountain.

Hipparchia (Parahipparchia) aristaeus senthes (Fruhstorfer, 1908)

Eumenis (Satyrus) semele ssp. *sentes* Fruhstorfer, 1908, Int. Ent. Z. 2 (2): 10. Lectotype: Greece: Taygetos Mt. (designated by Kudrna, 1977: 116) (in BMHN).

Material studied: İdris Mountain, 1400 m, 23.06.2001, 4♂ 2♀; 1600-1720 m, 30.06.2001, 2♂ 3♀; 1500-1600 m, 29.06.2002, 3♂ 2♀; Gököy, 1250 m, 30.06.2001, 2♂ 3♀; 1310 m, 30.06.2001, 1♂; Yeşildere, 1200 m, 15.06.2002, 1♀; 1200-1300 m, 29.06.2002, 2♀ 1♂.

Arethusana arethusana sultana (Wagner, 1929)*

Satyrus arethusana ssp. *sultana* Wagner, 1929, Mitt. münch. ent. Ges. 19: 24 Syntypes: [Türkei]: Konya Pr.: Akşehir, Sultan Dag 1500-2000 m.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 1♂.

Brintesia circe circe (Fabricius, 1775)

Papilio circe Fabricius, 1775, Syst. Ent. 495, nr. 116. Syntypes: Europa.

Material studied: İdris Mountain, 1600-1700 m, 30.06.2001, 1♂; Gököy, 1150 m, 30.06.2001, 7♂; 1250 m, 30.06.2001, 1♂.

Chazara (Neochazara) anthe hanifa (Boisduval, 1848)

Satyrus hanifa Boisduval, 1848, Anns Soc.ent. Fr.(2)6: xxix. Syntypes: pied du Caucase.

Material studied: İdris Mountain, 1400 m, 23.06.2001, 1♀; 1600-1720 m, 30.06.2001, 1♂ 1♀.

Remarks: *persephone* Hübner, [1805] is a synonym of *anthe* Hoffmanssegg, 1804. Because Koçak (1982) mentioned that “*persephone* Hübner, [1805] was illustrated uninominally; it is therefore unavailable under the Code” Furthermore this combination, *C. persephone transiens* Zerny, 1932 in Hesselbarth et al. (1995) is known. But it is given as *C. anthe hanifa* (Boisduval, 1848) (stat. n., comb. nov.) in Koçak (2000).

Chazara briseis pirata (Esper, [1789])

Papilio pirata Esper, [1789], Die Schmetterlinge in Abbildungen nach der Natur., Suppl. 1(1): 39, Taf. 100, fig. 3 Syntypes: Nimes, Languedoc.

Material studied: Akyurt, 1205 m, 23.06.2001 1♂; Gököy, 1250 m, 30.06.2001 4♂ 6♀; 1310 m, 30.06.2001, 1♂; İdris Mountain, 1500-1600 m, 21.07.2001, 10♂ 1♀; 1400 m, 23.06.2001, 1♂; 1600-1700 m, 30.06.2001, 1♂ 1♀; 1500-1600 m,

29.06.2002, 1♂; Mezarlık, 950 m, 23.06.2001, 1♂ 1♀; Yeşildere, 1250 m, 28.06.2002, 1♂.

***Pseudochazara anthelea anthelea* (Hübner, [1824])**

Papilio anthelea Hübner, [1824], Samml. eur. Schmett. 1: pl.174, figs., 861-862. Syntypes: [Kleinasien].

Material studied: İdris Mountain, 1600-1720 m, 30.06.2001, 2♂; 1500-1600 m, 21.07.2001, 1♀; Gölköy, 1250 m, 30.06.2001, 3♂; Yeşildere, 1200-1300 m, 29.06.2002, 3♀ 1♂.

***Pseudochazara geyeri geyeri* (Herrich-Schaeffer, [1846])**

Satyrus geyeri Herrich-Schaeffer, [1846], Syst. Bearb. Schmett. Eur. 1: figs. 301-302. Syntypes: [Türkei]: Ararat.

Remarks: In the province of Ankara, this species is known only from İdris Mountain (Seven & Kemal, 2000).

***Pseudochazara mniszechii mniszechii* (Herrich-Schaeffer, [1851])**

Satyrus mniszechii Herrich-Schaeffer, [1851], Syst. Bearb. Schmett. Eur. 6: 14; *ibid.* [1852], Papilionides, Taf.120 figs. 577-579. Syntypes: [Türkei]: "Tokat in Kleinasien"

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 8♀; Yeşildere, 1200-1300 m, 29.06.2002, 2♂; Gölköy, 1250 m, 30.06.2001, 2♂.

Hyponephele lycina intermedia* (Staudinger, 1886)

Epinephele lycina var. *intermedia* Staudinger, 1886, Stettin ent. Ztg. 47 (4/6): 251. Lectotype ♂: [Türkei]: Pontus [Amasia].

Material studied: Yeşildere, 1200-1300 m, 29.06.2002, 1♀ 4♂; Gölköy, 1250 m, 30.06.2001, 3♂ 1♀; 1310 m, 30.06.2001, 1♂; Mezarlık, 950 m, 23.06.2001, 1♀; İdris Mountain, 1600-1720 m, 30.06.2001, 1♂.

Hyponephele lycina collina* (Röber, 1897)

Epinephele intermedia var. *collina* Röber, 1897, Ent. Nachr. 23 (17/18): 267. Type(s): [Türkei]: Gülek.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 2♂.

***Proterebia afra afra* (Fabricius, 1787)**

Papilio afra Fabricius, 1787, Mant. Ins. 2:41, nr. 413. Syntypes: [Russia]: Russiae australioris desertis.

Remarks: It has been recorded only by Seven (1996) for İdris Mountain.

Maniola jurtina phormia* (Fruhstorfer, 1909)

Epinephele jurtina ssp. *phormia* Fruhstorfer, 1909, Int. ent. Z., 3 (21): 121. Syntypes: Südtirol: Meran, Lana.

Material studied: İdris Mountain, 1400 m, 23.06.2001, 1♂; 1500-1600 m, 21.07.2001, 1♀; Yeşildere, 1200 m, 15.06.2002, 1♂; 1200-1300 m, 29.06.2002, 2♂; Gölköy, 23.06.2001, 1♂; 1310 m, 30.06.2001, 2♂.

***Coenonympha pamphilus pamphilus* (Linnaeus, 1758)**

Papilio pamphilus Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 472. Type(s): Suecia

Material studied: İdris Mountain, 1500 m, 21.07.2001, 2♂; Yeşildere, 1200 m, 15.06.2002, 4♂ 1♀; 1250 m, 24.05.2003, 13♂♀.

Esperarge climene valentinae* (Miller, 1923)

Pararge climene Esp. morpha *valentinae* nova Miller, 1923, Bull. Soc. ent. Moscou 2 (2): 95. Type(s): Kağızman (Kars).

Material studied: Yeşildere, 1200-1300 m, 29.06.2002, 1♂; Gököy, 1310 m, 23.06.2001, 3♂ 1♀; 30.06.2001, 5♂; İdris Mountain, 1400 m, 23.06.2001, 2♀.

Remarks: This combination was also given as *Esperarge clymene clymene* (Fabricius, 1787) in Koçak (2000).

Lasiommata maera orientalis* (Heyne, [1894])

Pararge maera var. *orientalis* Heyne, [1894], [in] Rühl, F., Die Palaearkt. Grossschmett. Naturg. 1: 577. Type(s): [Türkei]: Kleinasien.

Material studied: İdris Mountain, 1600-1720 m, 30.06.2001, 1♀; 1500-1600 m, 21.07.2001, 1♂; Yeşildere, 1250 m, 24.05.2003, 1♀ 1♂.

***Lasiommata megera transcaspica* (Staudinger, 1901)**

Pararge megera var. *transcaspica* Staudinger, 1901, Cat. lepid. palaeark. Faunengeb. 3(1): 60. Syntypes: [Iran] Hyrcania "Schahkuh"; [Turkmenistan]: Tura "Achal Tekke"

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 1♂; Yeşildere, 1250 m, 24.05.2003, 1♂ 1♀.

LYCAENIDAE

***Callophrys rubi rubi* (Linnaeus, 1758)**

Papilio rubi Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 483: Type(s): [Sweden (Verity, 1943)].

Material studied: Kalecik-Gököy, 900-1000 m, 19.05.2001, 13♂♀; İdris Mountain, 1500-1600 m, 29.06.2002, 1♀; Akyurt, 1300 m, 19.05.2001, 1♂; Yeşildere, 1250m, 24.05.2003, 1♂.

Satyrium (Nordmannia) abdominalis abdominalis* (Gerhard, [1850])

Thecla abdominalis Gerhard, [1850], Versuch Monogr. Eur. Schmett.: 4, Pl.4, figs., 3a-c. Syntypes. [Aserbaidjan]: Elisabethpol [=Kirovabad].

Material studied: Kalecik-Gököy, 900-1000 m, 19.05.2001, 2♂ 1♀; Yeşildere, 1200 m, 15.06.2002, 2♂ 3♀; 1200-1300 m, 29.06.2002, 1♂ 1♀.

Satyrium (Nordmannia) acaciae acaciae* (Fabricius, 1787)

Papilio acaciae Fabricius, 1787, Mant. Ins. 2: 69 Type(s): Russia australiori.

Material studied: Kalecik-Gököy, 900-1000 m, 19.05.2001, 3♂.

Satyrium (Nordmannia) ilicis ilicis* (Esper, [1779])

Papilio ilicis Esper, [1779], Die Schmett. 1(1): 353; [1789], ibid. (suppl.): 28 pl. 98 figs., 11, 12. Syntypes: Deutschland: Erlangen.

Material studied: İdris Mountain, 1400 m, 23.06.2001, 4♂♀; Gököy, 1250 m, 30.06.2001, 1♀; 1310 m, 30.06.2001, 1♂; Yeşildere, 1250 m, 28.06.2002, 1♂; 29.06.2002, 1♂; Akyurt, 1200 m, 23.06.2001, 1♀.

***Satyrium (Nordmannia) spini spini* (Fabricius, 1787)**

Papilio spini Fabricius, 1787, Mant. Ins. 2: 68 Syntypes: Germania.

Material studied: Yeşildere, 1200-1300 m, 29.06.2002, 3♂ 1♀; Gököy, 1250 m, 30.06.2001, 1♂.

***Tomares nogelii* (Herrich-Schaeffer, [1852])**

Lycaena nogelii Herrich-Schaeffer, [1852], Syst. Bearb. Schmett. Eur. 6: 33, ibid. 1: figs. 529-532. Syntypes: [Türkei]: Kleinasien [=Amasya].

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 2♀; Yeşildere, 1250 m, 24.05.2003 2♂; 28.06.2002, 1♀.

Lampides boeticus boeticus* (Linnaeus, 1767)

Papilio boeticus Linnaeus, 1767, Syst. Nat. (Edn. 12) 1 (2): 789. Type(s): Barbaria [Algeria].

Material studied: Yeşildere, 1250 m, 28.06.2002, 2♂ 1♀.

Cupido (Everes) alcetas* (Hoffmannsegg, 1804)

[*Papilio*] *alcetas* Hoffmannsegg, 1804, Magazin Insektenk. (Illiger) 3: 205 (nomen novum pro *tiresias* Hübner, [1800] nec *tiresias* Rottemburg, 1775).

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀.

***Cupido* (s.str.) *osiris majuspunctata* (Verity, 1934)**

Argus sebrus race *majuspunctata* Verity, 1934, Entomologist's Rec. J. Var. 46 (Suppl.) (33)-(34). Syntypes: [Turkey]: Akshehir.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 5♂; Yeşildere, 1250 m, 15.06.2002, 28♂; 1200-1300 m, 29.06.2002, 1♀; 1250 m, 24.05.2003, 7♂ 3♀; İdris Mountain, 1500-1600 m, 29.06.2002, 3♂.

Celastrina argiolus argiolus* (Linnaeus, 1758)

Papilio argiolus Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 483 Type(s): Europa.

Material studied: Yeşildere, 1250 m, 28.06.2002, 1♂.

***Glaucopsyche* (s.str.) *alexis alexis* (Poda, 1761)**

Papilio alexis Poda, 1761, Insecta Musei Graecensis.: 77 Type(s): [Austria]: Steiermark

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 11♂ 2♀; Yeşildere, 1250 m, 15.06.2001, 1♂; 15.06.2002, 1♂; 24.05.2003, 1♂ 2♀; İdris Mountain, 1500-1600 m, 29.06.2002, 1♂.

***Iolana iolas lessei* Bernardi, 1964**

Iolana iolas lessei Bernardi, 1964, Alexanor 3: 276-277. Holotype erk: Turquie: Amasia.

Material studied: Yeşildere, 1250 m, 15.06.2002, 11♂ 4♀; 28.06.2002, 2♂ 1♀; 1200-1300 m, 29.06.2002, 1♂ 1♀; 1250 m, 24.05.2003, 3♂.

Pseudophilotes vicrama schiffermuelleri* (Hemming, 1929)

Turanana vicrama ssp. *schiffermuelleri* Hemming, 1929, Entomologist 62: 61, Taf.1 figs., 6, 8 Taf.2, figs., 19-22. Holotype ♂: Austria: Deutsch-Altenburg (BMNH).

Material studied: Akyurt, 1300 m, 19.05.2001, 1♂; Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀; Yeşildere, 1250 m, 28.06.2002, 8♂ 1♀; 1200-1300 m, 29.06.2002, 2♂; 1250 m, 24.05.2003, 4♂ 2♀; İdris Mountain, 1500-1600 m, 29.06.2002, 1♀.

***Rubrapterus bavius egeus* (Herrich-Schaeffer, [1852])**

Lycaena egea Herrich-Schaeffer, [1852], Syst. Bearb. Schmett. Eur. 6: 25; [1847], ibid. Taf. 74, figs., 357, 360 (uninominal). Type(s): Türkei (Types unknown).

Material studied: Gölköy, 1250 m, 30.06.2001, 2♀.

Turanana endymion endymion* (Freyer, [1850])

Lycaena endymion Freyer, [1850], Neuere Beitr. 6: 145, Taf. 572. figs., 2, 3
Syntypes: Türkei: Amasia.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂; İdris Mountain, 1600-1720 m, 30.06.2001, 1♀; 1500-1600 m, 21.07.2001, 2♂ 4♀.

Plebeius (Kretania) carmon carmon* (Gerhard, [1851])

Lycaena carmon Gerhard, [1851], Versuch Monogr. eur. Schmett. (7): 15, nr. 58, pl.25, figs., 1a-c. Syntypes: Türkei [=Amasia].

Material studied: Gölköy, 1250 m, 30.06.2001, 2♂ 4♀; İdris Mountain, 1600-1720 m, 30.06.2001, 1♂; 1500-1600 m, 21.07.2001, 1♀; 1600 m, 29.06.2002, 2♀; Yeşildere, 1200 m, 15.06.2002, 1♀; 1200-1300 m, 29.06.2002, 3♀; 1250 m, 28.06.2002, 6♂♀.

***Plebeius (Plebejides) pylaon sephirus* (Frivaldszky, 1835)**

Lycaena [sic] *sephirus* Frivaldszky, 1835, Magy. Tud. Tars. Evk., Budan 2: 269-270, Taf.7 fig. 1, 2. Syntypes: [Bulgaria]: Haemeus, Szliven (=Sliven)

Material studied: Yeşildere, 1200 m, 15.06. 2002, 2♂ 1♀; 1250 m, 29.06.2002, 1♂ 1♀.

***Plebeius (s.str.) argus aegidion* (Meisner, 1818)**

Papilio aegidion Meisner, 1818, Naturw. Anz. 1: 88 Syntypes: Schweiz: Berner Alpen, Grimsell Pass.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂; İdris Mountain, 1500-1600 m, 29.06.2002, 12♂ 1♀.

Plebeius (Vacciniina) alcedo* (Christoph, 1877)*

Lycaena alcedo Christoph, 1877, Horae Soc. ent. ross. 12: 233-234, Taf.,5 figs., 3, 4. Syntypes: [Nordostiran]: Schahkuh und Schahrud.

Material studied: İdris Mountain, 1500 m, 21.07.2001, 1♂.

Plebeius (Plebejidea) loewii loewii* (Zeller, 1847)

Lycaena loewii Zeller, 1847, Isis, 1847: 9-10. Syntypes ♂♀: [Türkei]: Makri [Fethiye].

Material studied: Yeşildere, 1250 m, 28.06.2002, 1♂.

Polyommatus (Ultraaricia) anteros anteros* (Freyer, [1838])

Lycaena anteros Freyer, [1838], Neuere Beitr. Schmett. 3 (45): 101, pl. 265, fig.1. Syntypes: [Türkei]: Konstantinopel [=İstanbul].

Material studied: Yeşildere, 1250 m, 15.06.2002, 1♂.

***Polyommatus (Aricia) agestis agestis* ([Denis & Schiffermüller], 1775)**

Papilio agestis [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 184. Type(s): [Austria]: Vienna district.

Material studied: İdris Mountain, 1600-1720 m, 30.06.2001, 1♂; 1500-1600 m, 21.07.2001 12♂♀; Yeşildere, 1200-1300 m, 29.06.2002, 1♂; 1250 m, 15.06.2002, 1♂; 28.06.2002, 1♂; Gölköy, 1250 m, 30.06.2001, 1♀.

***Polyommatus (Agrodiaetus) admetus anatoliensis* (Forster, 1960)**

Agrodiaetus admetus ssp. *anatoliensis* Forster, 1960, Ent. Z. Frankf. a. M. 70 (3): 20-22. Holotype ♂: [Türkei]: Anatolien: Akshehir.

Material studied: Gökky, 1250 m, 30.06.2001, 1♀; İdris Mountain, 1500 m, 21.07.2001, 1♂.

Polyommatus (Agrodiaetus) demavendi amasyaensis (de Lesse, 1960)

Lycaena ripartii ssp. *demavendi* Pfieffer, 1938, Mitt. münch. ent. Ges., 28: 194
Syntypen (ZSSM): Iran, Demavend.

Material studied: İdris Mountain, 1500 m, 21.07.2001, 1♂ 2♀.

Polyommatus (Agrodiaetus) alcestis alcestis (Zerny, 1932)

Lycaena (Hirsutina) ripperti ssp. *alcestis* Zerny, 1932, Dt. ent. Z. Iris 46: 186-187.
Syntypes: Lebanon: Bscharre, 1400-1900 m. Lectotype erk: Liban: Cedern b. Becharre, 1900 m (designated by Balint, 1999, Neue ent. Nachr. 46: 9) (BMNH).

Material studied: Gökky, 1250 m, 13.06.2001, 1♀; İdris Mountain, 1500 m, 21.07.2001 1♂.

Polyommatus (Agrodiaetus) menalcas menalcas (Freyer, [1837])

Lycaena menalcas Freyer, [1837], Neuere Beitr. Schmett. 3: 46, Taf. 223, figs., 2, 3
Syntypes: Türkei: Konstantinopel [İstanbul] (BMNH).

Material studied: İdris Mountain, 1500 m, 21.07.2001, 1♂; Yeşildere, 1250m, 28.06.2002, 4♂.

Polyommatus (Agrodiaetus) hopfferi hopfferi (Gerhard, [1851])

Lycaena hopfferi Gerhard, [1851], Versuch Monogr. eur. Schmett. 6: 13, Taf. 21, figs., 2a-c. Type(s): Türkei [Turkey: Tokat] (destroyed).

Remarks: It has been recorded only by Seven & Kemal (2000) for İdris Mountain.

Polyommatus (Agrodiaetus) iphigenia iphigenia (Herrich-Schaeffer, [1847])*

Lycaena iphigenia Herrich-Schaeffer, [1847], Syst. Bearb. Schmett. Eur. 1: pl. 73, figs., 354; [1851] ibid. 6: 24, Syntypes: Türkei: [Bursa, Uludağ].

Material studied: İdris Mountain, 1550 m, 23.06.2001, 1♂; 1600-1720 m, 30.06.2001, 6♂ 2♀; 1500-1600 m, 21.07.2001, 2♂ 1♀; 1500-1600 m, 29.06.2002, 1♂.

Polyommatus (Agrodiaetus) eurypilos eurypilos (Gerhard, [1851])*

Lycaena eurypilos Gerhard, [1851], Versuch. Monogr. eur. Schmett.: 11, pl. 20, figs., 1a-c. Syntypes: Türkei: [Amasia].

Remarks: A male was observed feeding on *Marrubium* sp. and photographed during rest in a gramineae-rich, humid area in otherwise stony habitat at 1500 m on İdris Mountain in May 2003.

Polyommatus (Agrodiaetus) actis (Herrich-Schaeffer, [1851])**

[*Lycaena*] *actis* Herrich-Schaeffer, [1851], Syst. Bearb. Schmett. Eur. 6, Nachtrag zum 1. Bande: 24; Papilionides, Taf.104 figs. 496-499. Syntypes: [Türkei]: Kleinasien.

Material studied: İdris Mountain, 1550 m, 23.06.2001, 5♂; 1600-1720 m, 30.06.2001, 2♂ 1♀; 1500-1600 m, 21.07.2001, 1♀; 1500-1600 m, 29.06.2002, 5♂.

Polyommatus (Cyaniris) bellis bellis (Freyer, [1842])*

Lycaena bellis Freyer, [1842], Neuere Beitr. Schmett. 5: 26, Taf. 398, figs., 1, 2
Type(s): Türkei. Lectotype ♂: Suburbs of Istanbul (designated by Balint, 1999, Neue ent. Nachr. 46: 18-19) (BMHN).

Material studied: Yeşildere, 1200 m, 15.06.2002, 3♂; İdris Mountain, 1500-1600 m, 29.06.2002, 1♀.

Polyommatus (Lysandra) bellargus bellargus (Rottemburg, 1775)

Papilio bellargus Rottemburg, 1775, Naturforscher 6: 25 Type(s): Deutschland.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 2♂; İdris Mountain, 1600-1720 m, 30.06.2001, 4♂ 1♀; 1500-1600 m, 21.07.2001, 8♂ 1♀; Yeşildere, 1250 m, 24.05.2003, 7♂ 1♀.

Polyommatus (Lysandra) ossmar ossmar (Gerhard, [1851])*

Lycaena corydon var. *ossmar* Gerhard, [1851], Versuch Monogr. eur. Schmett.: 17, pl. 31 figs. 4a-c. Syntypes: Türkei.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 2♂.

Polyommatus (Meleageria) daphnis versicolor (Heyne, [1895])

Lycaena meleager var. *versicolor* Heyne, [1895], [in] Rühl, F., Die palaearkt. Grossschmett. Naturg. 1: 764. Type(s): Amasia: Mesopotamien.

Material studied: İdris Mountain, 1600-1720 m, 30.06.2001, 1♂; 1500-1600 m, 21.07.2001, 36♂ 10♀.

Polyommatus (Sublysandra) cornelius cornelius (Freyer, [1850])*

Lycaena cornelia Freyer, [1850], Neuere Beitr. Schmett. 6: 145, Taf. 572, fig.1 Type(s): Türkei: Amasia.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 1♂ 2♀.

Polyommatus (Sublydandra) myrrhus myrrhus (Herrich-Schaeffer, [1852])*

Lycaena myrrha Herrich-Schaeffer, [1852], Syst. Bearb. Schmett. Eur. 6: 26, ibid. 1: figs. 508-511. Syntypes: [Türkei]: Kleinasien [=Amasya].

Material studied: Yeşildere, 1250 m, 28.06.2002, 2♂.

Polyommatus (Plebicula) amandus amandus (Schneider, 1792)*

Papilio amandus Schneider, 1792, Neuestes Mag. 4: 428. Type(s): Sweden.

Material studied: Gölköy, 1250 m, 30.06.2001, 2♂; 1310 m, 23.06.2001, 1♀; 30.06.2001, 1♂; İdris Mountain, 1600-1720 m, 30.06.2001, 1♂; 1500-1600 m, 29.06.2002, 1♂ 1♀ Yeşildere, 1200 m, 15.06.2002, 7♂; 1250 m, 24.05.2003, 1♂.

Polyommatus (Plebicula) thersites thersites (Canterer, [1835])

Argus thersites Canterer, [1835], Hist. nat. Lep. Rhop. Pap. Diur. Dep. 53: pl.11, figs., 1, 2. Syntypes: France: Vosges, etc.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 14♂ 1♀; Gölköy, 1310 m, 30.06.2001, 1♂; 1250 m, 30.06.2001, 1♀; Yeşildere, 1200 m, 15.06.2002, 4♂; 1250 m, 24.05.2003, 2♂ 1♀.

Polyommatus (s.str.) icarus (Rottemburg, 1775)

Papilio icarus Rottemburg, 1775, Naturforscher 6: 21. Types(s): Saxonia.

Material studied: Yeşildere, 1250 m, 29.06.2002, 1♂ 1♀; 24.05.2003, 20♂ 8♀; Gölköy, 1250 m, 30.06.2001, 1♂ 1♀; 1310 m, 23.06.2001, 1♂; Mezarlık, 950 m, 23.06.2001, 1♂; İdris Mountain, 1600-1720 m, 30.06.2001, 2♂; 1400 m, 23.06.2001, 1♀; 1550 m, 23.06.2001, 2♂; 1500-1600 m, 21.07.2001, 49♂ 27; 1600 m, 29.06.2002, 11♂.

Chilades (Freyeria) trochylus trochylus (Freyer, [1843])

Lycaena trochylus Freyer, [1843], Neuere Beitr. Schmett. 5(74): 98-99, Taf. 440, fig. 1, Syntypes: europäische Türkei.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 2♂; Yeşildere, 1250 m, 24.05.2003, 1♀.

Heodes (Alciphronia) alciphron melibaeus (Staudinger, 1878)*

Polyommatus alciphron var. *melibaeus* Staudinger, 1878, Horae Soc. ent. ross. 14: 231-232. Syntypes: [Türkei]: Amasia: Kyschlatschyk, Jenikeui. Lectotype ♂: Amasia (designated by Wagener, 1995: 479).

Material studied: Yeşildere, 1250 m, 28.06.2002, 2♂ 1♀; 15.06.2002, 12♂; İdris Mountain, 1500-1600 m, 29.06.2002, 7♂ 4♀.

Heodes (Loweia) tityrus tityrus (Poda, 1761)*

Papilio tityrus Poda, 1761, Insecta Musei Graecensis: 77, Type(s): [Austria]: Graz.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 7♂; Akyurt, 1300 m, 19.05.2001 m, 1♂; Yeşildere, 1200 m, 15.06.2002, 4♂; 1250 m, 24.05.2003, 2♂.

Lycaena (s.str.) phlaeas timeus (Cramer, [1777])*

Papilio timeus Cramer, [1777], Utitl. Kapellen 2(16): 137, pl. 186 figs. e, f. Syntypes ♀: [Turkey]: Smirne [=İzmir].

Material studied: İdris Mountain, 1500-1600 m, 29.06.2002, 2♀; 1500 m, 21.07.2001, 1♀.

Thersamonia (s.str.) thersamon thersamon (Esper, [1784])*

Papilio thersamon Esper, [1784], Die Schmett. 1 (Bd.2) Forst. Tagschmett.: 176, pl. 89, fig. 6 Type(s): [Russia]: Sarepta.

Material studied: Yeşildere, 1250 m, 15.06.2002, 12♂; 28.06.2002, 2♂ 1♀; İdris Mountain, 1500-1600 m, 29.06.2002, 7♂ 4♀.

Thersamonia (s.str.) thetis thetis (Klug, 1834)*

Lycaena thetis Klug, 1834, [in] Ehrenberg, Symb. Phys. Ins. 4: pl. 40, figs., 17, 18. Syntypes: Syria.

Material studied: İdris Mountain, 1500-1600 m, 21.07.2001, 7♂ 1♀.

HESPERIOIDEA**HESPERIIDAE*****Carcharodus (s.str.) alceae alceae (Esper, [1780])****

Papilio alceae Esper, [1780], Die Schmett. 1(2): 4, pl. 51 fig.1 Type(s): Süddeutschland: Erlangen.

Material studied: İdris Mountain, 1600 m, 21.07.2001, 1♂.

Carcharodus (Reverdinus) orientalis orientalis (Reverdin, 1913)

Carcharodus orientalis Reverdin, 1913, Bull. Soc. lepid. Geneve 2 (4): 232, Pl. 21, fig. 14; pl. 22, Figs., 1, 8. Syntypes: Greece: Peloponnes (MHNG).

Remarks: It has been reported only by Seven (1996) for İdris Mountain.

Erynnis marloyi marloyi (Boisduval, [1834])

Thanaos marloyi Boisduval, [1834], Icon. hist. Lepid. Europe 1: 241, pl. 47, figs., 6, 7. Syntypes: Greece.

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♀.

***Erynnis tages unicolor* (Freyer, [1848])**

Hesperia unicolor Freyer, [1848], Neuere Beitr. Schmett. 6(85): 37, Taf. 505, fig.1. Type(s): Griechenland auf den griechischen Inseln.

Material studied: Yeşildere, 1200 m, 15.06.2002, 1♂; 1250 m, 24.06.2003, 2♂.

Muschampia nomas nomas* (Lederer, 1855)

Hesperia nomas Lederer, 1855, Verh. zool.-bot. Ver. Wien 5: 193, Taf.1 fig. 7. Syntypes: [Lebanon]: Beirut, am Hundflusse (ZMHB).

Material studied: İdris Mountain, 1600-1720 m, 30.06.2001, 2♀.

***Muschampia proteides proteides* (Wagner, 1929)**

Hesperia proto ssp. *proteides* Wagner, 1929, Mitt. münch. ent. Ges. Taf. 2, fig. 26 Type ♂: [Türkei]: Akschehir [15 Feb.1929].

Remarks: It has been reported only by Seven & Kemal (2000) for İdris Mountain.

Muschampia tessellum tessellum* (Hübner, [1802])

Papilio tessellum Hübner, [1802], Samml. eur. Schmett. 1: pl. 93, figs. 469-470. Syntypes: Europe.

Material studied: Yeşildere, 1200-1300 m, 29.06.2002, 1♀; İdris Mountain, 1600-1720 m, 30.06.2001, 1♂.

***Spialia (Neospialia) orbifer hilaris* (Staudinger, 1901)**

Hesperia orbifer var. *hilaris* Staudinger, 1901, Cat. Lepid. palaeart. Faunengeb. 1: 96. Syntypes: [Türkei]: Mardin, Syria.

Material studied: Yeşildere, 1250 m, 15.06.2002, 1♂ 1♀; 24.05.2003, 3♂; Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂ 1♀; İdris Mountain, 1550 m, 23.06.2001, 1♂ 1♀; 1600-1720 m, 30.06.2001, 1♂ 1♀; 1500-1600 m, 29.06.2002, 4♂ 1♀.

Hesperia comma pallida* (Staudinger, 1901)

Augiades comma var. *pallida* Staudinger, 1901, Cat. lepid. palaearkt. Faunengeb. 3 (1): 92, nr. 670c. Syntypes: Syr.; Taur.; Kurd. oc.; Pont.; Sic. Graec. Srp.

Material studied: İdris Mountain, 1500 m, 21.07.2001, 3♂.

Thymelicus lineolus lineolus* (Ochsenheimer, 1808)

Papilio lineolus Ochsenheimer, 1808, Schmett. Eur. 1(2): 230-231. Type(s): Germania.

Material studied: İdris Mountain, 1550 m, 23.06.2001, 1♂; 1600-1720 m, 30.06.2001, 1♂; 1500 m, 21.07.2001, 1♂; Gölköy, 1310 m, 23.06.2001, 1♂.

***Thymelicus sylvestris syriacus* (Tutt, [1905])**

Adopaea flava var. *syriaca* Tutt, [1905], Nat. Hist. Br. Butts. 1 (2): 107. Type ♂: Syria (BMNH).

Material studied: İdris Mountain, 1400 m, 23.06.2001, 1♂; 1550 m, 23.06.2001, 1♂; 1600-1720 m, 30.06.2001, 1♂; 1500-1600 m, 21.07.2001, 4♂ 2♀; 1600 m, 29.06.2002, 5♂; Gölköy, 1250 m, 30.06.2001, 3♂; 1310 m, 23.06.2001, 3♂; 30.06.2001, 1♂; Yeşildere, 1200 m, 15.06.2002, 3♂; 1200-1300 m, 29.06.2002, 4♂.

Pyrgus melotis ponticus* (Reverdin, 1914)

Hesperia pontica Reeverdin, 1914, Bull. Soc. lepid. Geneve 3(1): 66, Pl. 3, figs., 6, 12; Pl. 4, figs., 2, 3. Syntypes: Turquie: Amasia (in MHNG).

Material studied: Yeşildere, 1250 m, 15.06.2002, 1♂ 1♀

Pyrgus sidae sidae* (Esper, [1784])

Papilio sidae Esper, [1784], Die Schmett. 1(2): 178, pl. 90, fig. 3. Syntypes: Russia: Wolga

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂.

Pyrgus serratulae major* (Staudinger, 1878)

Syrichthus serratulae var. *major* Staudinger, 1878, Horae Soc. ent. Ross. 14: 292. Syntypes: [Türkei]: Amasia (ZMHB).

Material studied: Kalecik-Gölköy, 900-1000 m, 19.05.2001, 1♂; Yeşildere, 1250 m, 24.05.2003, 1♂.

Discussion

The İdris Mountain region has a rich butterfly fauna comprising 112 species. During March 2001 to September 2003 an extensive survey of the fauna of this region was carried out and 58 new species were recorded for the region and two new species for the Ankara province. The number of newly recorded species clearly shows how little is known about the distribution of butterfly species at localities in this region.

In the following we discuss some interesting species from the region:

***Polyommatus (Agrodiaetus) actis*:** The males of the species are easily distinguishable from other *Agrodiaetus* due to its upperside dark violet purple color and wide black submarginal band. The flight period of this taxon endemic to Turkey is from the end of July until August. They fly at moderate heights between 1000-2200 meters (Hesselbarth, et al., 1995). There has been no data about pre-adult stages of this species. The adults are known to utilize *Marrubium globosum*, *Mentha* sp., *Sideritis* sp., *Acantholimon* sp., *Daphne oleoides* as their main nectar source (Koçak, 1983) This species was caught on İdris Mountain between 1400-1750 meters on rocky and arid mountainous pastures predominantly around water sources. The habitat here is mesophile grasslands with abundant gramineas on the borders of the pastures. The adults were observed while feeding on *Marrubium* sp. This is the first record for the Ankara province. It was previously recorded from the provinces of Afyon, Amasya, Erzincan, Erzurum, Eskişehir, Isparta, İçel, Konya, Niğde, and Tokat (Hesselbarth, et al., 1995). The first adults in the İdris Mountain were seen already in June, much earlier than it was known.

***Plebeius (Vaccinia) alcedo*:** A single male was caught in the subalpine zone of the İdris Mountain. It was flying on damp meadows and thickets at a height of 1500 meters. The flight season of this species is June and July (Hesselbarth, et al., 1995) which is in line with our record. This species is present generally in eastern part of Turkey where it is known from the province of Artvin, Bitlis, Erzincan, Erzurum, Gaziantap, Gümüşhane, Hakkari, Isparta, Kars, Kayseri, Nevşehir, Niğde, Sivas, Tunceli, Van, Bayburt, Şırnak, and Iğdır (Hesselbarth, et al., 1995). This is the first record for Ankara.

***Euphydryas (Eurodryas) orientalis*:** This species is rare and local throughout its range. In İdris Mountain region it was seen in good numbers around Kalecik

Gölköy. This could be explained by sheltered habitats with abundant larval food plant *Scabiosa* sp.

The major concern for the butterfly fauna of this region is the further development of agriculture at lower elevations. The area around Kalecik and Gölköy between 800-1200 m is known for Kalecik wine production. The pesticides used and the expansion of vineyards have a negative impact on local butterfly fauna. The region between 1200 and 1350 m is affected by expansion of gardening along rivers. Above this some pastures are heavily overgrazed and some of the rare species from this region are in danger of extinction.

During the survey the following species considered endangered in Turkey were recorded (threat categories according to Koçak & Seven, 1998): *Zegris eupheme* RA; *P. machaon*, *Z. cerisyi*, *A. grueneri* VU and 44 taxa IN. Also, according to Hampson (1996-2004), *A. admetus*, *A. iphigenia*, *I. iolas*, *R. bavius*, *R. vicrama*, *T. endymion*, *U. anteros*, *T. nogelii*, *S. ledereri*, *M. cinxia*, *M. didyma*, *M. phoebe*, *Z. cerisyi*, *A. grueneri*, *Z. eupheme*, *K. roxelana*, *E. climene*, *P. afra* are considered endangered.

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