

	<b>SAKARYA UNIVERSITY JOURNAL OF SCIENCE</b>		 <b>SAKARYA UNIVERSITY</b>
	e-ISSN: 2147-835X <a href="http://www.saujs.sakarya.edu.tr">http://www.saujs.sakarya.edu.tr</a>		
	<u>Received</u> 09-02-2018 <u>Accepted</u> 24-10-2018	<u>Doi</u> 10.16984/saufenbilder.392685	

**On the Butterflies of Savur District (Mardin Province, Southeastern Turkey)**Erdem Seven<sup>\*1</sup> Cihan Yıldız<sup>2</sup>**Abstract**

In this study, butterfly species collected from Savur district of Mardin Province in 2016 and 2017, are presented. A total of 35 species are given in the Papilionidae (2), Pieridae (11), Satyridae (8), Argynnididae (4), Lycaenidae (5) and Hesperiididae (5) families from the research area that has not been studied previously on the butterflies. Original reference, synonyms, examined materials and distributions of each species are added. However, 6 species: *Euchloe ausonia* (Hübner, [1804]), *Pieris brassicae* (Linnaeus, 1758) (Pieridae), *Melitaea phoebe* (Goeze, 1779) (Argynnididae), *Plebejus zephyrinus* (Christoph, 1884) (Lycaenidae), *Carcharodus lavatherae* (Esper, [1783]) and *Eogenes alcides* Herrich-Schäffer, [1852] (Hesperiididae) are the first record for Mardin Province.

**Keywords:** Fauna, Butterfly, Savur, Mardin**1. INTRODUCTION**

In Turkey, 5577 Lepidoptera species are known and, among them 412 species belong to the Rhopalocera (Butterfly) group [1]. When compared to other nearby areas in Turkey, it is seen that studies on the Lepidoptera fauna of Mardin Province is not adequate and comprehensive researches have not been undertaken. In the 19th century, collected samples of Lepidoptera species from Mardin Province by Armenian collectors were generally described by O. Staudinger and most of them were stored in various Natural History Museums in Germany.

In 1995, Hesselbarth et al., [2], were given Turkey's butterfly fauna and they also included some species captured from Mardin Province, on their extensive studies in 3 volumes. Otherwise,

Kemal and Koçak [3] were presented first exhaustive study on the synonymic list of 81 butterflies species in 2006 and afterwards, Kemal et al., [4] were listed totally 274 Lepidopteran species from Mardin Province. Furthermore, the last current list of 83 butterfly species were given by Koçak and Kemal [5] again, in their paper on Mardin's Lepidoptera species. Also, Kocak and Kemal was published a revised synonymous and distributional list of butterfly and moth species showing distribution in Turkey in 2018. But, there is no study on the butterfly fauna of Savur district so far. Therefore, presented research results will contribute to the Lepidoptera fauna of Savur district and Mardin Province.

In addition to these papers, studies carried out in the nearby areas: Seven [6, 7], Özkol [8], Hardy [9], Koçak and Kemal [10], Akın [11], Kemal and

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Aydın [12, 13] and Tshikolovets et al. [14] were also evaluated.

## 2. MATERIAL AND METHOD

547 samples were collected from Savur district of Mardin Province between April 2016 and April-July 2017. The materials, which were packed and taken to the storage boxes, were caught with the aid of insect nets. Researches were conducted in 6 localities (Figure 1). For each locality, habitat type, altitude, collecting date and coordinate informations are as follows:

1. Savur: Sparse oak field, 840 m, 12.04.2016, 37°33'20"N 40°54'33"E.
2. Kırdirek: Steppe area, 740 m, 27.05.2017, 37°40'24"N 40°44'26"E.
3. Hisarkaya 12 km SW: Moorland area, 750 m, 14-15.05.2017, 37°38'03"N 40°53'39"E.
4. Savur road 15 km NE: Arable field and steppe area, 900 m, 20-27.04.2017, 37°33'10"N 40°56'03"E.
5. Şenocak road 4 km E: Steppe area with sparse oaks, 800 m, 13.06.2017, 37°38'17"N 40°41'35"E.
6. Çınarönü road 3 km NW: Moorland area, 1000 m, 02-03.07.2017, 37°35'52"N 40°40'38"E.

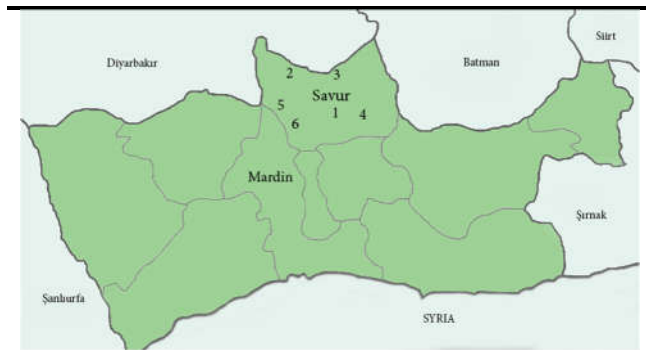


Figure 1. Studied locations in Savur district

Afterwards, the samples, which were stretched by being softened, were diagnosed according to Hesselbarth et al. [2]. Species that have been systematically identified are protected in Batman University, Faculty of Science and Arts, Biology Laboratory.

For each species original reference, synonyms, examined materials and distributions are presented. In regulating the distribution areas of the species, paper of Koçak and Kemal [1] was used. International country codes have been utilized to indicate the distribution of the species in the world and following spread of the species in Turkey are given with the plate code of the provinces.

### Abbreviations used herein:

For the distribution of the species in the World: **AF** Afghanistan, **AL** Albania, **AM** Armenia, **AU** Australia, **AT** Austria, **AZ** Azerbaijan, **BE** Belgium, **BF** Burkina-Faso, **BG** Bulgaria, **BH** Bahrain, **B-H** Bosnia-Herzegovina, **BI** Baluchistan, **BJ** Benin, **BY** Byelorussia, **BW** Botswana, **BZ** Belize, **CA** Canada, **CF** Central African Republic, **CG** Congo, **CH** Switzerland, **CI** Ivory Coast, **CM** Cameroon, **CN** China, **CY** Cyprus, **CZ** Czech Republic, **DE** Deutschland, **DJ** Djibuti, **DK** Denmark, **DZ** Algeria, **EE** Estonia, **EG** Egypt, **EH** Western Sahara, **ER** Eritrea, **ES** Spain, **ET** Ethiopia, **FI** Finland, **FR** France, **GA** Gabon, **GB** United Kingdom, **GG** Georgia, **GH** Ghana, **GM** Gambia, **GN** Guinea, **GO** Equatorial Guinea, **GW** Guinea-Bissau, **GR** Greece, **HU** Hungary, **HV** Croatia, **IE** Ireland, **IL** Israel, **IN** India, **IQ** Iraq, **IR** Iran, **IS** Iceland, **IT** Italy, **JO** Jordan, **JP** Japan, **KE** Kenya, **KG** Kazakhstan, **KK** Kyrgyzstan, **KM** Comoro Islands, **KP** North Korea, **KR** South Korea, **KW** Kuwait, **LB** Lebanon, **LT** Lithuania, **LR** Liberia, **LS** Lesotho, **LU** Luxemburg, **LV** Latvia, **LY** Libya, **MA** Morocco, **MD** Moldova, **MG** Madagascar, **ML** Mali, **MK** Makedonia, **MN** Mongolia, **MT** Malta, **MR** Mauretania, **MW** Malawi, **MX** Mexico, **MZ** Mozambik, **NA** Namibia, **NE** Niger, **NG** Nigeria, **NL** Netherlands, **NO** Norway, **NP** Nepal, **OM** Oman, **PH** Philippine Islands, **PK** Pakistan, **PL** Poland, **PT** Portugal, **QA** Qatar, **RO** Romania, **RU** Russia Federation, **RW** Rwanda, **SA** Saudi Arabia, **SC** Seychelles, **SD** Sudan, **SE** Sweden, **SI** Sikkim, **SK** Slovakia, **SL** Sierra Leone, **SN** Senegal, **SO** Somalia, **SS** Slovenia, **ST** Sao Tome & Principe Islands, **SY** Syria, **SZ** Swaziland, **TD** Chad, **TG** Togo, **TH** Thailand, **TJ** Tajikistan, **TM** Turkmenistan, **TN** Tunisia, **TR** Turkey, **T-S** Tian Shan Mountains, **TW** Taiwan, **TZ** Tanzania, **UA** Ukraine, **UG** Uganda, **US** United States of America, **UZ** Uzbekistan, **VI** Virgin Islands, **VN** Viet Nam, **YE** Yemen, **YU** Yugoslavia, **ZA**

Republic of South Africa, **ZM** Zambia, **ZR** Zaire, **ZW** Zimbabwe.

And for the distribution of the species in Turkey: **01** Adana, **02** Adıyaman, **03** Afyon, **04** Ağrı, **05** Amasya, **06** Ankara, **07** Antalya, **08** Artvin, **09** Aydın, **10** Balıkesir, **11** Bilecik, **12** Bingöl, **13** Bitlis, **14** Bolu, **15** Burdur, **16** Bursa, **17** Çanakkale, **18** Çankırı, **19** Çorum, **20** Denizli, **21** Diyarbakır, **22** Edirne, **23** Elazığ, **24** Erzincan, **25** Erzurum, **26** Eskişehir, **27** Gaziantep, **28** Giresun, **29** Gümüşhane, **30** Hakkâri, **31** Hatay, **32** Isparta, **33** İçel, **34** İstanbul, **35** İzmir, **36** Kars, **37** Kastamonu, **38** Kayseri, **39** Kırklareli, **40** Kırşehir, **41** Kocaeli, **42** Konya, **43** Kütahya, **44** Malatya, **45** Manisa, **46** Kahramanmaraş, **47** Mardin, **48** Muğla, **49** Muş, **50** Nevşehir, **51** Niğde, **52** Ordu, **53** Rize, **54** Sakarya, **55** Samsun, **56** Siirt, **57** Sinop, **58** Sivas, **59** Tekirdağ, **60** Tokat, **61** Trabzon, **62** Tunceli, **63** Şanlıurfa, **64** Uşak, **65** Van, **66** Yozgat, **67** Zonguldak, **68** Aksaray, **69** Bayburt, **70** Karaman, **71** Kırıkkale, **72** Batman, **73** Şırnak, **74** Bartın, **75** Ardahan, **76** Iğdır, **77** Yalova, **78** Karabük, **79** Kilis, **80** Osmaniye, **81** Düzce.

### 3. RESULTS

In this study, a total of 35 butterfly species are presented within the families in alphabetical order as follows:

#### Papilionidae

*Archon apollinaris* (Staudinger, [1892])

**Original reference:** *Doritis apollinus* var. *apollinaris* Staudinger, [1892], Dt. ent. Z., Iris 4: 225. Syntypes: [Türkei]: nordöstlichen Kleinasien: Goman Otti, 1500 m. **Synonym(s):** *apollinaris* Staudinger, [1892]; *pallidior* Spuler, 1892; *#mardina* Stichel, 1907. **Examined materials:** 3♂ 1♀ Savur, 840 m, 12.04.2016. **Distribution in the world:** IR IQ TR. **Distribution in Turkey:** 13 21 23 24 30 47 49 56 62 65 73.

*Zerynthia deyrollei* (Oberthür, 1869)

**Original reference:** *Thais deyrollei* Oberthür, 1869, Pet. Nouv. Ent. (2): 7. Syntypes: [Turquie]: Alpes-Pontiques [Gümüşhane]. **Synonym(s):** *deyrollei* Oberthür, 1869; *eisneri* Bernardi, 1970; *lycaoniae* Eisner & Wagener, 1974; *#flavomaculata* Verity, 1905; *#ochracea* Verity, 1905; *#obscurior* Verity, 1905; *#subflava* Schultz,

1908; *#deflexa* Schultz, 1908; *#charis* Schultz, 1908; *#separata* Sheljuzhko, 1927. **Examined materials:** 7♂ 2♀ Savur road 15 km NE, 900 m, 27.04.2017. **Distribution in the world:** IL IQ IR JO LB TR. **Distribution in Turkey:** 01 02 03 05 06 07 12 13 14 15 18 19 21 23 24 25 26 27 28 29 30 31 32 33 37 38 42 43 44 46 47 49 50 51 56 58 60 62 63 64 65 66 68 70 71 73 80.

#### Pieridae

*Anthocharis cardamines* (Linnaeus, 1758)

**Original reference:** *Papilio cardamines* Linnaeus, 1758, Syst. Nat. (Edn.10)1: 468. Type: [Europe]. **Synonym(s):** *cardamines* Linnaeus, 1758; *hesperides* Newman, 1894; *britannica* Verity, 1908; *meridionalis* Verity, 1908 nec Lederer, 1852; *montivaga* Turati & Verity, 1911. **Examined materials:** 8♂ 4♀ Savur road 15 km NE, 900 m, 27.04.2017. **Distribution in the world:** AL AM AT BE BG B-H BY CH CN CY CZ DE DK EE ES FI FR GB GR HU HV IE IL IQ IR IT KG KK LB LT LU LV MK NL NO PL PT RO RU SE SK SS SY TM TR T-S UA VI YU. **Distribution in Turkey:** 01 03 04 05 06 07 08 09 10 13 14 15 16 17 18 20 21 23 24 25 27 28 29 30 31 32 33 34 35 36 37 39 41 42 43 44 45 46 47 48 51 52 53 55 56 58 60 61 62 65 66 70 71 73 74 75 76 78.

*Anthocharis gruneri* Herrich-Schäffer, [1851]

**Original reference:** *Anthocharis gruneri* Herrich-Schäffer, [1851], Syst. Bearb. Schmett. Eur. 6: 20 ibid. I: pl. 115, figs. 551- 554 [uninominal]. Syntypes: ? Creta [Kleinasien]. **Synonym(s):** *gruneri* Herrich-Schäffer, [1851]; *#diluta* Röber, 1907; *eros* Röber, 1907. **Examined materials:** 4♂ 2♀ Savur road 15 km NE, 900 m, 20.04.2017. **Distribution in the world:** AM AZ BG GG GR IL IQ IR LB MK SY TR. **Distribution in Turkey:** 01 02 03 04 05 06 07 12 13 21 24 25 27 29 30 31 32 33 35 36 38 42 43 44 45 46 47 50 51 56 58 60 62 65 66 70 71 73 76.

*Aporia crataegi* (Linnaeus, 1758)

**Original reference:** *Papilio crataegi* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 467. Type: [Europe]. **Synonym(s):** *crataegi* Linnaeus, 1758; *nigronervosus* Retzius, 1783; *minör* Verity, 1907; *basanius* Fruhstorfer, 1910; *crataegiaugusta* Verity, 1937. **Examined materials:** 6♂ 2♀ Kirdirek, 740 m, 27.05.2017. **Distribution in the world:** AF AL AM AT AZ BE BG B-H BY CH CN CY CZ DE DK DZ EE ES FI FR GG GR HU

HV IL IQ IR IT JP KG KK KP LB LT LU LV JO  
MA MK MN NL NO PT RO RU SE SK SS SY TJ  
TM TR UA VI T-S TN. **Distribution in Turkey:**  
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16  
17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33  
34 35 36 37 38 39 40 41 42 43 44 46 47 48 49 50  
51 53 54 55 56 58 60 61 62 63 65 66 69 70 71 72  
73 74 75 76 78 80 81.

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

**Original reference:** *Papilio croceus* Fourcroy, 1785, Entomologia Parisiensis: 250. Type: [France]: Paris. **Synonym(s):** *crocea* Fourcroy, 1785; *pyrenaica* Groum-Grshimailo, 1893. **Examined materials:** 2♂ Savur, 840 m, 12.04.2016; 6♂ 1♀ Kirdirek, 740 m, 27.05.2017; 5♂ Şenocak road 4 km E, 800 m, 13.06.2017; 5♂ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AL AM AT AZ BE BG B-H BY CH CY CZ DE DK DZ EG ES FI FR GB GG GR HV IQ IR IT KG LB LT LU LY LV MA MK MT NL NO PL PT RO RU SA SD SE SK SS SY TR TN UA VI YU TD. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 68 69 70 71 72 73 74 75 76 77 78 79 80 81.

***Euchloe ausonia*** (Hübner, [1804])

**Original reference:** *Papilio ausonia* Hübner, [1804], Samml. eur. Schmett. 1: pl.113, figs. 582-583; 64-65. Syntypes: Italien. **Synonym(s):** *ausonia* Hübner, [1804]; *marchandae* Geyer, [1832]. **Examined materials:** 3♂ 2♀ Savur road 15 km NE, 900 m, 20.04.2017. **Distribution in the world:** AF AL AM AZ BE BG B-H BY CH CN CY DZ FR GG GR HV IL IQ IR IT JO KG LB LY MA MK RO RU SS SY TM TR TN T-S UA YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 09 10 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 50 51 54 56 58 60 62 63 65 66 68 70 71 73 74 76 77 78 80.

***Pieris ergane*** (Geyer, [1828])

**Original reference:** *Papilio ergane* Geyer, [1828], [in] Hübner, Samml. eur. Schmett. 1: Taf. 184 figs. 904- 907. Syntypes: [Crotia]: Ragusa. **Synonym(s):** *ergane* Geyer, [1828]; *narcaea* Freyer, [1828]. **Examined materials:** 13♂ 4♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AL AM AT AZ BG B-

H ES FR GG GR HU HV IQ IR IT LB MK RO SS  
TR YU. **Distribution in Turkey:** 01 02 03 04 05  
06 07 08 12 13 14 15 16 18 21 23 24 25 26 28 29  
30 31 32 33 36 38 42 43 44 46 47 49 50 51 52 56  
58 60 62 63 65 66 69 71 73 74 76.

***Pieris manni*** (Mayer, 1851)

**Original reference:** *Pont. manni* Mayer, 1851, Stettin ent. Ztg. 12:151. Type: [Croatia]: Spaloto. **Synonym(s):** *manni* Mayer, 1851; *manni* Verity, 1908; *alpigena* Verity, 1911; *roberti* Eitschberger & Steiniger, 1973. **Examined materials:** 2♂ 2♀ Şenocak road 4 km E, 800 m, 13.06.2017; 2♂ 5♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AL AT BG B-H CH CZ ES FR GR HU HV IT IR MA MK RU SK SS TR UA YU. **Distribution in Turkey:** 01 02 03 06 07 08 10 11 13 14 17 18 21 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 42 43 44 45 46 47 48 49 50 51 53 56 61 62 65 67 69 73 74 75 76 78 80.

***Pieris pseudorapae*** Verity, 1908

**Original reference:** *Pieris napi* var. *pseudorapae* Verity, [1908], *Rhopalocera palaeartica*: 144, pl. 32, 33, figs. Lectotype: [Lebanon]: Beyrouth (Bowden & Riley, 1967). **Synonym(s):** *pseudorapae* Verity, 1908. **Examined materials:** 3♂ Savur, 840 m, 12.04.2016; 9♂ 5♀ Kirdirek, 740 m, 27.05.2017; 11♂ 3♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AM AZ BG B-H GG GR HV IQ JO LB MD MK RO RU SY TR UA YU. **Distribution in Turkey:** 01 03 04 05 06 07 08 10 11 12 13 14 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 53 54 56 58 59 60 61 62 63 65 66 67 68 71 73 74 75 76 77 78 80 81.

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

**Original reference:** *Papilio rapae* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 468. Type: [Sweden (Verity, 1947)]. **Synonym(s):** *rapae* Linnaeus, 1758; *nelo* Bergsträßer, 1780; *metra* Stephens, 1827; *alpica* Rossi, 1929. **Examined materials:** 12♂ 6♀ Kirdirek, 740 m, 27.05.2017; 3♀ Hisarkaya 12 km SW, 750 m, 14.05.2017; 7♂ 3♀ Şenocak road 4 km E, 800 m, 13.06.2017; 2♂ 4♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AF AL AM AU AT AZ BE BG BH B-H BY CH CN CY CZ DE DK DZ EE ES FI FR GB GG GR HU HV IE IN IQ IR IS IT JO JP KG KK KW LT LU LV MA MK MN MT MX NL NO OM PK PL PT QA RO RU SA SE SK SS SY TJ TM TN TR T-S TW UA US UZ

VI VN YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 73 74 75 76 77 78 79 80.

*Pieris brassicae* (Linnaeus, 1758)

**Original reference:** *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 468. Type: [Europe].  
**Synonym(s):** *brassicae* Linnaeus, 1758; *chariclea* Stephens, 1827; *#venata* Verity, 1908; *cyniphia* Turati, 1924. **Examined materials:** 5♂ 2♀ Kırđirek, 740 m, 27.05.2017. **Distribution in the world:** AF AL AT BE BG B-H BY CH CN CZ DE DK DZ EE ER ES FI FR GB GR HU HV IE IL IN IQ IR IS IT JO KG KK LB LT LU LV LY MA MK MT NL NO NP PK PL PT RO RU SK SY TM TR UA UZ TN T-S TH. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 12 13 14 15 16 17 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 48 49 50 51 52 53 54 55 56 58 60 61 63 65 66 70 71 73 74 75 76 77 78 80 81.

*Pontia edusa* (Fabricius, 1777)

**Original reference:** *Papilio edusa* Fabricius, 1777, Genera Insectorum: 255. Type: [Deutschland]: Chilonii. **Synonym(s):** *edusa* Fabricius, 1777; *bellidice* Ochseneimer, 1808; *persica* Bienert, 1869; *#nitida* Verity, [1908]. **Examined materials:** 6♂ 4♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** BG CN CY DE GG GR IQ IR IT KG KK MK RU SY TJ TM TR T-S UZ YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 38 39 40 41 42 43 44 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 67 68 69 70 71 73 74 75 76 77 78 79 80 81.

Satyridae

*Coenonympha pamphilus* (Linnaeus, 1758)

**Original reference:** *Papilio pamphilus* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 472. Type: Suecia. **Synonym(s):** *pamphilus* Linnaeus, 1758; *menalcas* Poda, 1761; *nephele* Hufnagel, 1766; *marginata* Heyne, 1894; *orantia* Fruhstorfer, 1908; *scota* Verity, 1911; *infrarasa* Verity, 1926; *julduşica* Verity, 1926; *asiaemontium* Verity, 1926; *euxina* Verity, 1926; *posteuxina* Verity, 1926; *londonii* Verity, 1926; *neollyllus* De Lattin, 1950. **Examined materials:** 9♂ 3♀ Hisarkaya 12

km SW, 750 m, 15.05.2017; 4♀ Savur road 15 km NE, 900 m, 27.04.2017; 7♂ 1♀ Şenocak road 4 km E, 800 m, 13.06.2017; 12♂ 2♀ Çınarönü road 3 km NW, 1000 m, 03.07.2017. **Distribution in the world:** AL AM AT AZ BE BG B-H BY CH CN CZ DE DK DZ EE ES FI FR GB GG GR HU HV IE IQ IR IT KG KK LB LT LU LV MA MK MT NL NO PL RO RU SE SK TM TN TR T-S VI UZ YU. **Distribution in Turkey:** 01 03 04 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81.

*Coenonympha saadi* (Kollar, [1849])

**Original reference:** *Satyrus saadi* Kollar, [1849], Denkschr. Akad. Wiss. Wien 1850: 11. Type: [Iran]: Farsistan, Schiraz (NHMW). **Synonym(s):** *saadi* Kollar, [1849]; *iphias* Eversmann, 1851. **Examined materials:** 27♂ 9♀ Kırđirek, 740 m, 27.05.2017. **Distribution in the world:** AM IR TR IQ. **Distribution in Turkey:** 02 12 13 21 23 25 27 30 44 46 47 56 58 62 63 65 72 73 76.

*Hyponephele lycaon* (Rottemburg, 1775)

**Original reference:** *Papilio lycaon* Rottemburg, 1775, Naturforscher 6: 17. Type: Deutschland: Brandenburg. **Synonym(s):** *lycaon* Rottemburg, 1775; *#lycaon* Kuhn, 1774; *eudora* Esper, 1778; *janirula* Esper, 1800; *rufomaculata* Korb, 2005. **Examined materials:** 7♂ Şenocak road 4 km E, 800 m, 13.06.2017; 13♂ 5♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AL AT BG BY CH CN CZ DE EE ES FI FR GR HU IL IT IQ IR KG LB LT LV PL PT RO RU SK SY TR T-S UA VI YU. **Distribution in Turkey:** 01 02 03 04 07 08 09 11 12 13 14 15 16 20 21 23 24 25 26 27 29 30 32 33 35 36 38 42 43 44 46 47 48 49 50 51 56 60 62 63 65 70 73 75 76 78.

*Kirinia roxelana* (Cramer, [1777])

**Original reference:** *Papilio roxelana* Cramer, [1777], Uitl. Kapellen 2:101, pl.161, figs. C-F. Syntypes: [Türkei]: Constantinopel [=Istanbul], Smyrna [=Izmir]. **Synonym(s):** *roxelana* Cramer, [1777]; *#anatolica* Koçak, 1989. **Examined materials:** 3♂ 4♀ Kırđirek, 740 m, 27.05.2017; 5♂ 1♀ Şenocak road 4 km E, 800 m, 13.06.2017; 7♂ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AL BG CY GR RO RU SY LB IQ IR TR UA YU. **Distribution in Turkey:** 01 02 03 05 06 07 08 09 10 11 13 14 15

16 17 19 20 21 22 23 25 26 27 29 30 31 32 33 34  
35 38 39 42 43 44 45 46 47 48 49 51 55 56 58 59  
60 62 65 66 71 72 73 78 80.

***Lasiommata megera*** (Linnaeus, 1767)

**Original reference:** *Papilio megera* Linnaeus, 1767, Syst. Nat. (Edn. 12) 1(2): 771, nr. 142.  
**Synonym(s):** *megera* Linnaeus, 1767; *caledonia* Verity, 1911; *alticola* Verity, 1911; *pseudoadrasta* Stauder, 1922; *infrapallens* Verity, 1922; *ocellator* Verity, 1923; *pallidedepulverata* Verity, 1923. **Examined materials:** 7♂ 2♀ Kırtdirek, 740 m, 27.05.2017; 3♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AL AT BE BG B-H BY CH CY CZ DE DK DZ EE ES FI FR GB GR HU HV IE IL IQ IR IT JO LB LT LU LV MA MK MT NL NO PL PT RO RU SE SK SS SY TM TN TR UA VI YU. **Distribution in Turkey:** 01 02 05 06 07 08 09 10 11 12 13 14 15 16 17 20 21 22 23 24 25 26 27 28 30 31 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57 58 59 60 62 63 65 66 67 70 71 72 73 74 75 76 77 80.

***Maniola telmessia*** (Zeller, 1847)

**Original reference:** *Hipparchia telmessia* Zeller, 1847, Isis 1847: 4. Syntypes 2\*4+: [Türkei]: Makri [Fethiye]: [Greece]: Rhodus. Lectotype\*: Marmaris (designated by Olivier, 1993) (in BMHN). **Synonym(s):** *telmessia* Zeller, 1847; *pallescens* Butler, 1868; *kurdistana* Heyne, 1894; *oreas* Le Cerf, 1912; *manioides* Le Cerf, 1912; *ornata* Turati & Fiori, 1930; *marenigrans* Verity, 1938; *pelekasii* Kattulas & Koutsaftikis, 1978. **Examined materials:** 11♂ 6♀ Kırtdirek, 740 m, 27.05.2017. **Distribution in the world:** GR IL IQ IR JO LB SY TR. **Distribution in Turkey:** 01 02 03 07 09 10 12 13 15 17 20 21 23 27 30 31 32 33 35 42 44 45 46 47 48 51 56 62 63 65 70 72 73 80.

***Melanargia grumi*** Standfuss, 1892

**Original reference:** *Melanargia grumi* Standfuss, 1892, [in] Romanoff, Mém. Lépid. 6: 661-664, pl.15 figs. 2a-c. Syntypes: [Türkei]: Mardin. **Synonym(s):** *grumi* Standfuss, 1892. **Examined materials:** 4♂ Kırtdirek, 740 m, 27.05.2017; 8♂ 7♀ Şenocak road 4 km E, 800 m, 13.06.2017; 9♂ 5♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** IQ TR IR. **Distribution in Turkey:** 02 13 21 23 30 47 56 63 72 73.

***Pararge aegeria*** (Linnaeus, 1758)

**Original reference:** *Papilio aegeria* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 473. Syntypes: Europa, Mauritania. **Synonym(s):** *aegeria* Linnaeus, 1758; *meone* Cramer, 1782; *egeria* Ochsenheimer, 1807; *sardoa* Verity, 1908. **Examined materials:** 7♂ 1♀ Hisarkaya 12 km SW, 750 m, 14-15.05.2017; 3♂ 1♀ Şenocak road 4 km E, 800 m, 13.06.2017; 6♂ 2♀ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** AL AM AT AZ BE BG BY CH CY CZ DE DK DZ EE ES FI FR GB GG GR HU IE IQ IR IT LB LT LU LV MA MT NL NO PL PT RO RU SE SK SY TN TR UA VI YU. **Distribution in Turkey:** 01 05 06 07 08 09 11 13 14 15 16 17 18 20 21 25 26 27 28 29 30 31 32 33 34 35 38 39 41 42 44 46 47 48 52 53 55 56 58 60 61 65 67 73 74 75 77 80 81.

**Argynnidæ**

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

**Original reference:** *Papilio pandora* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 176. Type: Austria: Vienna district. **Synonym(s):** *pandora* [Denis & Schiffermüller], 1775; *maja* Cramer, 1775 nec Fabricius, 1775; *cynara* Fabricius, 1777; *cyrnea* Schwerda, 1926; *transcaucasica* Moucha, 1967; *deserticola* Gross & Ebert, 1975. **Examined materials:** 7♂ 2♀ Kırtdirek, 740 m, 27.05.2017; 11♂ 3♀ Şenocak road 4 km E, 800 m, 13.06.2017; 5♂ Çınarönü road 3 km NW, 1000 m, 03.07.2017. **Distribution in the world:** AF AL AM AT AZ BG B-H BY CH CN CY CZ DZ DE EE ES FR GG GR HU HV IQ IR IT KK LB MA MK PK PL PT RO RU SK SS SY TJ TM TN TR T-S UA UZ VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 46 47 48 49 50 51 52 53 55 56 58 60 61 62 63 65 66 67 69 70 71 72 73 74 76 77 78 80 81.

***Melitaea phoebe*** (Goeze, 1779)

**Original reference:** *Papilio phoebe* Goeze, 1779, Ent. Beyträge 3(1) 365. **Synonym(s):** *#phoebe* [Denis & Schiffermüller], 1775; *phoebe* Goeze, 1779; *paedotropos* Bergsträßer, [1780]; *tremulae* Piller & Mitterpacher, 1783. **Examined materials:** 3♂ Savur road 15 km NE, 900 m, 27.04.2017. **Distribution in the world:** AL AM AT AZ BE BG B-H BY CH CN CZ DE EE ES FR GG GR HU HV IT IR KG LT LU LV MK MN PL PT RO RU SK SS TR UA VI YU. **Distribution in**

**Turkey:** 01 04 05 06 08 10 11 13 14 16 17 22 23  
24 25 26 27 30 31 33 34 36 39 41 42 44 46 50 51  
55 58 59 60 61 62 65 66 69 71 73 75 77 78 80.

*Melitaea arduinna* (Fabricius, 1787)

**Original reference:** *Papilio arduinna* Fabricius, 1787, Mant. Ins. 2: 60, nr.577. Type: [Russia]: Russia australiori. **Synonym(s):** *arduinna* Fabricius, 1787; *rhodopensis* Freyer, [1836]; *uralensis* Eversmann, 1844; *evanescens* Staudinger, 1886; *#fulminans* Staudinger, 1886; *kocaki* Wagener & Gross, 1976. **Examined materials:** 3♂ 2♀ Savur road 15 km NE, 900 m, 27.04.2017. **Distribution in the world:** AF BG CN GR IQ JO KG KK MK RO RU TJ TR T-S UA UZ. **Distribution in Turkey:** 01 02 05 07 10 13 21 24 25 27 30 31 32 36 39 42 43 44 46 47 49 56 65 72 73 80.

*Vanessa cardui* (Linnaeus, 1758)

**Original reference:** *Papilio cardui* Linnaeus, 1758, Syst. Nat. (Edn. 10) 1: 475. Syntypes: Europa, Africa [Sweden (Verity, 1950)]. **Synonym(s):** *cardui* Linnaeus, 1758; *carduelis* Cramer, 1775; *elymi* Rambur, 1829; *kershawi* McCoy, 1868; *pallida* Schoyen, 1881; *japonica* Stichel, 1908; *universa* Verity, 1919; *takesakiana* Kato, 1925; *jacksoni* Clark, 1927. **Examined materials:** 4♂ Hisarkaya 12 km SW, 750 m, 14.05.2017; 3♂ 1♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AF AL AM AO AZ AT BE BF BG BH B-H BI BJ BW BY BZ CF CG CH CI CM CN CY CZ DE DK DJ DZ EE EG EH ER ET ES FI FR GA GB GG GH GM GN GO GR GW HU HV IE IL IN IQ IR IS IT JO KE KG KM JP KK KP KR KW LB LR LS LT LU LV LY MA MD MG MK ML MN MR MT MW MX MZ NA NE NG NL NO NP PH PK PL PT QA RO RU RW SA SC SD SE SL SI SK SN SO ST SS SY SZ TJ TD TG TM TN TR T-S TZ UA UG US UZ YE YU ZA ZM ZR ZW. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 67 68 69 70 71 72 73 74 75 76 78 80 81.

**Lycaenidae**

*Glaucopsyche alexis* (Poda, 1761)

**Original reference:** *Papilio alexis* Poda, 1761, Insecta Musei Graecensis.: 77. Type: [Austria]: Steiermark. **Synonym(s):** *alexis* Poda, 1761;

*damaetas* [Denis & Schiffermüller, 1775; *#sublugens* Strand, 1909; *#insulicola* Turati & Fiori, 1930; *mironi* Coutsis, 1976. **Examined materials:** 3♂ 5♀ Savur road 15 km NE, 900 m, 20.04.2017. **Distribution in the world:** AF AL AM AT AZ BE BG BY CH CZ DE DK DZ EE ES FI FR GG GR HU IL IR IQ IT KG LT LB LU LV MK NO PL PT RO RU SE SK TM TN TR UA VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 56 58 60 61 62 65 66 68 69 70 71 73 74 76 80.

*Lycaena phlaeas* (Linnaeus, 1761)

**Original reference:** *Papilio phlaeas* Linnaeus, 1761, Fauna Suecica (2) : 285. Type: Sweden, Westermannia. **Synonym(s):** *phlaeas* Linnaeus, 1761; *virgaureae* Fourcroy, 1785 nec Linn., 1758; *eleus* Fabricius, 1798; *aestivus* Zeller, 1850; *schmidtii* Gerhard, 1853. **Examined materials:** 7♂ 1♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AF AL AM AT AZ BE BG BI BY CA CH CN CY CZ DE DK DZ EE ES ET FI FR GB GG GR HU IE IL IN IQ IR IT JO JP KG KK LB LT LU LY LV MA MK MN MT NL NO PK PL PT RO RU SA SK SY TM TR UA UG US VI YE YU TN ZR. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 68 69 71 72 73 74 76 78 80 81.

*Plebejus zephyrinus* (Christoph, 1884)

**Original reference:** *Lycaena zephyrus* var. *zephyrinus* Christoph, 1884, [in] Romanoff, Mem. Lépid. 1:102. Syntypes: [Turkmenistan]: Ashkhabad. **Synonym(s):** *zephyrinus* Christoph, 1884. **Examined materials:** 8♂ Çınarönü road 3 km NW, 1000 m, 02.07.2017. **Distribution in the world:** TR AZ GG IQ IR KG TM RU UZ. **Distribution in Turkey:** 13 30 56 65 72 73 76.

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

**Original reference:** *Papilio agestis* [Denis & Schiffermüller], 1775 Ankündigung syst. Werkes Schmett., Wienergegend: 184. Type: [Austria]: Vienna district. **Synonym(s):** *medon* Hufnagel, 1766 nec Linn., 1763; *alexis* Rottemburg, 1775 nec Poda, 1761; *agestis* [Denis & Schiffermüller], 1775; *astrarche* Bergsträßer, [1779]. **Examined**

**materials:** 4♂ 2♀ Kirdirek, 740 m, 27.05.2017; 2♂ 4♀ Savur road 15 km NE, 900 m, 27.04.2017.  
**Distribution in the world:** AF AL AM AT AZ BE BG B-H BY CH CN CY CZ DE DK FR GB GG GR ES HU HV IL IN IQ IR IT JO KG KK LB LT LU MK MT NL PK PL RO RU SE SK SS SY TM TR T-S UA VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49 50 51 54 55 56 58 60 61 62 63 65 66 68 69 70 71 72 73 75 76 78 81.

#### *Polyommatus icarus* (Rottemburg, 1775)

**Original reference:** *Papilio icarus* Rottemburg, 1775, Naturforscher 6: 21. Type: Saxonia.  
**Synonym(s):** *argus* Poda, 1761 nec Linn., 1758; *alexis* Scopoli, 1763 nec Pda, 1761; *thetis* Esper, 1777 nec Dru., 1773; *icarus* Rottemburg, 1775; *pampholyge* Bergsträßer, 1779; *candybus* Bergsträßer, 1779; *candiope* Bergsträßer, 1779; *candaon* Bergsträßer, 1779; *oceanus* Bergsträßer, 1779; *fusciolus* Fourcroy, 1785; *icarinus* Scriba, 1795; *pusillus* Gerhard, 1851; *neglectus* Stradomsky & Arzanov, 1999. **Examined materials:** 8♂ 4♀ Kirdirek, 740 m, 27.05.2017; 4♂ 1♀ Hisarkaya 12 km SW, 750 m, 14.05.2017.  
**Distribution in the world:** AF AL AZ AT BE BG B-H BI BY CH CN CY CZ DE DK DZ EE ES FI FR GB GR HU HV IE IL IQ IR IT JO KG KK LB LT LU LV LY MA MK MN MT NL NO PK PL PT RO RU SE SK SS SY TJ TM TN TR T-S UA UZ VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 75 76 78 80 81.

#### Hesperiidae

##### *Carcharodus lavatherae* (Esper, [1783])

**Original reference:** *Papilio lavatherae* Esper, [1783], Die Schmett. 1(2) : 148-149, pl. 82 fig. 4. Syntypes: Frankreich Schweis. **Synonym(s):** *lavatherae* Esper, [1783]; *australior* Verity, 1919; *pyrenaicus* Ricard, 1948. **Examined materials:** 5♂ 1♀ Hisarkaya 12 km SW, 750 m, 14.05.2017; 2♂ Çınarönü road 3 km NW, 1000 m, 02.07.2017.  
**Distribution in the world:** AL AT BG B-H BY CH DE DZ ES FR GR HU HV IT IR MA MK RO RU SK SS TR TN UA VI YU. **Distribution in Turkey:** 01 03 04 05 06 07 08 12 13 14 17 18 19 21 23 24 25 29 30 32 33 36 37 38 39 40 41 42 44

46 49 50 51 56 58 60 62 65 66 68 70 72 73 74 75 76 78.

##### *Carcharodus alceae* (Esper, [1780])

**Original reference:** *Papilio alceae* Esper, [1780], Die Schmett. 1 (2): 4, pl. 51, fig. 1. Type: Süddeutschland: Erlangen. **Synonym(s):** *alceae* Esper, [1780]; *malvae* Hufnagel, 1766 nec Linn., 1758; *malvarum* Hoffmannsegg, 1804; *magnaustralis* Verity, 1924; *corsicus* Picard, 1948. **Examined materials:** 4♂ 1♀ Çınarönü road 3 km NW, 1000 m, 02-03.07.2017. **Distribution in the world:** AF AL AM AT AZ BE BG B-H BY CH CN CY CZ DE DZ ES FR GG GR HU HV IL IN IQ IR IT KG LB LU MA MK NL PK PL PT RO RU SK SS TM TN TR UA VI YE YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 09 10 12 13 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 38 39 41 42 43 44 45 46 47 48 49 50 51 53 56 58 60 62 63 65 66 67 70 71 72 73 74 75 76 78 79 80.

##### *Eogenes alcides* Herrich-Schäffer, [1852]

**Original reference:** *Hesperia alcides* Herrich-Schäffer, [1852], Syst. Bearb. Schmett. Eur. 6: 38; ibidem 1: pl. 7, figs. 41-42. Syntypes: [Turkei]: Amasia. **Synonym(s):** *alcides* Herrich-Schäffer, [1852]. **Examined materials:** 3♂ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AM AZ BI CN GG KG IR IQ PK TM TR T-S. **Distribution in Turkey:** 05 08 20 23 24 25 30 35 36 42 50 56 60 62 63 65 66 72 73.

##### *Thymelicus lineolus* (Ochsenheimer, 1808)

**Original reference:** *Papilio lineola* Ochsenheimer, 1808, Schmett. Eur. 1 (2) : 230-231. Type: Germania. **Synonym(s):** *lineolus* Ochsenheimer, 1808; *virgula* Hübner, 1813 nec Retz., 1783; *ludoviciae* Mabilie, 1883; *pallida* Tutt, 1896; *clara* Tutt, 1905; *hemmingi* Romei, 1927; *melissus* Zerny, 1932; *fornax* Hemming, 1934. **Examined materials:** 9♂ 4♀ Kirdirek, 740 m, 27.05.2017; 12♂ 5♀ Hisarkaya 12 km SW, 750 m, 14.05.2017. **Distribution in the world:** AF AL AT AZ BG B-H BL BY CH CN CZ DE DK DZ EE ES FI FR GB GG GR HU HV IL IR IT JO KG KK LB LT LU LV MA MK NL NO PL PT RO RU SE SK SS TM TN TR T-S UA US VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 10 12 13 14 15 16 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 36 38 39 40 42 43 44 46 47 48 49 50 51 56 58 60 62 63 65 66 69 70 71 73 74 75 76 78 80.



*Thymelicus sylvestris* (Poda, 1761)

**Original reference:** *Papilio sylvestris* Poda, 1761, Insecta Musei Graecensis: 79. Type: [Austria]: Graz. **Synonym(s):** *sylvestris* Poda, 1761; *flava* Brünnich, 1763; *linea* Müller, 1764; *thaumas* Hufnagel, 1766; *divaricatus* Fourcroy, 1785; *venula* Hübner, [1813]; *obscura* Verity, 1905. **Examined materials:** 6♂ 3♀ Kırdirek, 740 m, 27.05.2017; 7♂ 2♀ Hisarkaya 12 km SW, 750 m, 14.05.2017; 4♂ 3♀ Şenocak road 4 km E, 800 m, 13.06.2017. **Distribution in the world:** AL AM AT AZ BE BG BY CH CZ DE DK DZ EE ES FR GB GG GR HU IR IT IQ JO LB LT LU LV MA MK NL PL PT RO RU SK SY TR UA VI YU. **Distribution in Turkey:** 01 02 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 56 58 60 61 62 63 64 65 66 67 69 70 71 72 73 74 75 76 78 81.

#### 4. DISCUSSION AND CONCLUSION

According to the results of the research, 35 species are presented within the Papilionidae, Pieridae, Satyridae, Argynnididae, Lycaenidae and Hesperiididae families from Savur district, whose butterfly fauna is unknown until now. This paper is intended to contribute to the fauna of the area by conducted random field studies between April and July. Moreover, the results show that research region is comprised approximately 42 % of the species, when compared to the total number of butterfly species in the province of Mardin [5]. In addition, 6 species: *Euchloe ausonia* (Hübner, [1804]), *Pieris brassicae* (Linnaeus, 1758) (Pieridae), *Melitaea phoebe* (Goeze, 1779) (Argynnididae), *Plebejus zephyrinus* (Christoph, 1884) (Lycaenidae), *Carcharodus lavatherae* (Esper, [1783]) and *Eogenes alcides* Herrich-Schäffer, [1852] (Hesperiididae) are recorded as new to Mardin Province.

It is expected that the number of samples will increase with the future researches, when habitat and land conditions are evaluated and compared to other nearby districts [6, 8, 11, 13] and areas [7, 9, 10, 12, 14]. In this respect, it is thought that entomological researches should be more supported and increased in the region.

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