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# New findings of the tribe Oxyptilini Arenberger, 1995 in Iran (Lepidoptera: Pterophoridae, Pterophorinae)

H. Alipanah & P. Ustjuzhanin

## Abstract

A checklist of the species belonging to the tribe Oxyptilini in Iran as well as new data on the distribution of previously reported species are provided. The genera *Procapperia* Adamczewski, 1951 and *Sphenarches* Meyrick, 1886, and four species namely, *Procapperia amira* Arenberger, 1988, *P. linariae* (Chrétien, 1922), *Capperia fusca* (Hofmann, 1898) and *Sphenarches anisodactyla* (Walker, 1864) are newly reported from Iran.

KEYS WORD: Lepidoptera, Pterophoridae, Pterophorinae, Oxyptilini, Iran.

## Nuevas conclusiones de la tribu Oxyptilini Arenberger, 1995 en Irán (Lepidoptera: Pterophoridae, Pterophorinae)

## Resumen

Se proporciona una lista de las especies conocidas de Irán de la tribu Oxyptilini así como datos sobre la distribución de las citadas previamente. Se citan como nuevos para Irán los género *Procapperia* Adamczewski, 1951 y *Sphenarches* Meyrick, 1886, y cuatro especies a saber, *Procapperia amira* Arenberger, 1988, *P. linariae* (Chrétien, 1922), *Capperia fusca* (Hofmann, 1898) y *Sphenarches anisodactyla* (Walker, 1864).

PALABRAS CLAVE: Lepidoptera, Pterophoridae, Pterophorinae, Oxyptilini, Irán.

## Introduction

The tribe Oxyptilini Arenberger, 1995 is one of the six known tribes of Pterophorinae which is the largest subfamily of Pterophoridae (GIELIS, 2003). This tribe is constituted by 121 known species in 20 genera (ROSE & POONI, 2005; ALIPANAH *et al.*, 2010, 2011; USTJUZHANIN & KOVTUNOVICH, 2010, 2011; GIELIS, 2011). Presence of symmetrical valvae in the male genitalia, two longitudinal rows of venous scales on the underside of the hindwing, extension of the venulae of sternite II to the end of the sternite in the male abdomen, and an inverse, nearly V-shaped sclerotized structure at the distal half of sternite II in the male, support the monophyly of the tribe (ALIPANAH *et al.*, 2011).

As many as 91 species of the family Pterophoridae are reported from Iran so far (LEDERER, 1869, 1870; STAUDINGER & REBEL, 1901; ZERNY, 1940; AMSEL, 1959; BIGOT, 1968; BIGOT & POPESCU-GORJ, 1974; HANNEMANN, 1977; BURMANN, 1986; SUTTER, 1991; ARENBERGER, 1995a, b, 1999, 2005; GIELIS, 2003; ALIPANAH & USTJUZHANIN, 2005, 2006; ALIPANAH & GIELIS, 2010) of which 18 species belong to the tribe Oxyptilini. In the present study, two genera *Procapperia* Adamczewski and *Sphenarches* Meyrick, and four species are recorded from this country for the first time bringing, the total number of members of this tribe in Iran reaches 22. Furthermore, a checklist of the species of the tribe Oxyptilini in Iran as well as new data on the

distribution of previously reported species is provided. All the examined specimens are preserved in the Hayk Mirzayans Insect Museum (HMIM) of the Iranian Research Institute of Plant Protection (IRIPP).

#### Genus *Procopperia* Adamczewski, 1951

##### *Procopperia amira* Arenberger, 1988

Material examined: 2 ♂♂, Bināloud Mt. (Khorāsān-e Razavi province), 2800-3000 m, 24-VII-2000, Møllet leg.

Distribution: Afghanistan (ARENBERGER, 2002).

##### *Procopperia linariae* (Chrétien, 1922)

Material examined: 3 ♀♀, 2 ♂♂, Khodāāfarin, Arasbārān forest, Gandomnān (Āzarbāijān-e Sharghi province), N 38° 52' 25", E 48° 52' 12", 1280 m, 15-VII-2005, Zahiri, Golmohammadzādeh-Khiābān leg., Miyāneh, Bozghoush Mt., Turkmenchāy, Kalhor vill. (Āzarbāijān-e Sharghi province), N 37° 42' 27", E 47° 22' 25", 2150 m, 12-VII-2005, Zahiri leg., 3 ♀♀, 3 ♂♂, Kaleybar, Āinālou, Alhord, Arasbārān forest (Āzarbāijān-e Sharghi province), N 38° 55' 1.1", E 46° 47' 38", 1440 m, 28-VII-2007, Zahiri, Ālipanāh, Falsafi leg.; 3 ♂♂, Ardebil-Meshkin Shahr Rd., Sabalān (Ardebil province), N 33° 27' 10.7", E 47° 50' 38.8", 1680 m, 15-IX-2008, Ālipanāh, Buszko, Falsafi leg.; 4 ♀♀, 2 ♂♂, Gorgān, Shāhkuh-e Bālā (Golestān province), 2400 m, 19-VII-2003, Ālipanāh, Ebrāhimi leg.; 3 ♀♀, Karkas Mt. (Natanz-Tārgh), Mazdeh (Esfahān province), N 33° 23' 45", E 51° 61' 03", 2150 m, 15-VI-2005, Zahiri, Nematīān, Falsafi leg.; 1 ♀, Shingerā (Bāft- Jiroft) (Kermān province), 2800 m, 22-25-V-2004, Rajāie leg.; 3 ♀♀, Yāsuj, Sisakht (Kohgiluyeh Va Boyerahmad province), N 30° 53' 46", E 51° 25' 10", 2430 m, 22-VI-2005, Zahiri, Nematīān, Falsafi leg.; 1 ♀, Tālegān, 8 km W Zidasht (Alborz province), 2200 m, 10-13-VI-1977, Pāzuki, Mortazavihā leg., 1 ♂, Sāvobolāgh, E Gatehdeh, Elburz Mts (Alborz province), N 36° 10' 39.6", E 51° 02' 20.9", 2260 m, 31-VII / 01-VIII-2007, Ālipanāh leg.

Distribution: Morocco, France, Croatia, Bulgaria, Greece, Russia (?), Ukraine, Turkey (ARENBERGER, 2002; GIELIS, 2003).

#### Genus *Copperia* Tutt, 1905

##### *Copperia fusca* (Hofmann, 1898)

Material examined: 1 ♀, Golestān National Park, Dasht-e Shād (Golestān province), 1390 m, 25-26-VII-1995, Ebrāhimi, V. Nazari leg., 1 ♀, Golestān National Park, Tang-e Gol (Golestān province), 700 m, 27-VII-1995, Ebrāhimi, V. Nazari leg.

Distribution: Belgium, France, Spain, Germany, Switzerland, Italy, Poland, Czech, Austria, Croatia, Romania, Bulgaria, Greece, Crete, Turkey, Russia (South of the European part, the Caucasus, the southern Ural), Kazakhstan (GIELIS, 2003).

#### Genus *Sphenarches* Meyrick, 1886

##### *Sphenarches anisodactyla* (Walker, 1864)

Material examined: 1 ♂, 15 km S Orumiye (Āzarbāijān-e Gharbi province), 2-IV-1975, Abāi leg.

Distribution: Palaearctic; Oriental; Australasian; Afro-Tropical; Nearctic; Neotropical; Pacific (GIELIS, 2003).

#### Checklist of the Oxyptilini of Iran

Pterophoridae Zeller, 1841  
 Pterophorinae Zeller, 1841  
 Oxyptilini Arenberger, 1995

*Procapperia amira* Arenberger, 1988

Distribution in Iran: Khorasan-e Razavi (Binaloud Mt.).

*Procapperia linariae* (Chrétien, 1922)

Distribution in Iran: Azarbaijan-e Sharghi (Arasbaran forest, Turkmenchay); Ardebil (Sabalan); Esfahan (Mazdeh); Golestan, (Shahkuh-e Bala); Kerman (Shingera); Kohgiluyeh Va Boyerahmad (Yasuj); Alborz (Taleghan); Alborz (Savojbolagh).

*Paracapperia anatolicus* (Caradja, 1920)

Distribution in Iran: Baneh (ARENBERGER, 2002).

*Capperia celeusi* (Schmid, 1887, in Frey)

Distribution in Iran: Laristan (Bandar Abbas- Sardabad Rd.), Fars (Ardakan, Talkhosrow Rd.) (BIGOT, 1968), Iranshahr, Yasuj (ARENBERGER, 2002).

*Capperia fusca* (Hofmann, 1898)

Distribution in Iran: Golestan (Golestan National Park).

*Capperia maratonica* Adamczewski, 1951

Distribution in Iran: Bushehr (Dayyer Kangan); Esfahan (Daran, Mazdeh, Targh, Tameh); Gilan (Parehsar); Kerman (Dehbakry, Sargaz); Tehran (Firuzkuh).

*Capperia salanga* Arenberger, 1995

Distribution in Iran: Elburz Mts, Arangeh, Karaj (ARENBERGER, 2002); Chaharmahal Va Bakhtiari (Dorahun); Tehran (Rudehen).

*Capperia washbourni* Adamczewski, 1951

Distribution in Iran: Yasuj, Elburz Mts, Tehran (ARENBERGER, 2002). Chaharmahal Va Bakhtiari (Dorahun); Esfahan (Niasar, Mazdeh); Fars (Eghlid, Moshkan); Khorasan-e Shomali (Eizman).

*Sphenarches anisodactyla* (Walker, 1864)

Distribution in Iran: Azarbaijan-e Gharbi (Orumiyeh)

*Oxyptilus parvidactyla* (Haworth, 1811)

Distribution in Iran: Gorgan (Astarabad), Mazandaran, Polur, Damavand (ARENBERGER, 2002); Kordestan (Marivan).

*Oxyptilus pilosellae* (Zeller, 1841)

Distribution in Iran: Elburz (Karaj) (BIGOT, 1968); Gorgan (Astarabad) (LEDERER, 1870; ARENBERGER, 2002).

*Crombrugghia distans* (Zeller, 1847)

Distribution in Iran: Elburz Mts (Karaj, Nesa), Fars (Sineh-Sefid, Mian-Kotal, Ardakan-Talkhosrow Rd.) (BIGOT, 1968); Mazandaran, Emamzadeh, Kazerun, Ardakan, Yasuj, Gorgan (ARENBERGER, 2002); Alborz (Savojbolagh).

*Crombrugghia kollari* (Stainton, 1851)

Distribution in Iran: Gorgan (Lederer, 1870).

*Crombrugghia laetus* (Zeller, 1847)

Distribution in Iran: Kazerun (ARENBERGER, 2002); Chaharmahal Va Bakhtiari (Dopolan,

Surab); Esfahan (Mazdeh, Lakaj); Fars (Dasht-e Arjan, Mian Kotal, Moshkan); Hamedan (Arzanfut, Darreh-e Moradbeyk); Hormozgan (Hajjiabad); Kerman (Ghanat-e Marvan, Gardaneh-e Khaneh Sorkh, Shahdad, Sargaz); Kermanshah (Chaharzebar-e Olya, Eslamabad-e Gharb); Khorasan-e Shomali (Torogh); Khuzestan (Susan, Kushk, Pol-e Dokhtar); Kohgiluyeh-Boyerahmad (Tang-e Sorkh, Meymand); Kordestan (Farsabad, Kanisanan, N W Saghez-Baneh Rd.); Lorestan (Kamandan, Nariman, Hendikosh, Badrabad); Sistan Va Baluchestan (Bakhshan); Tehran (Evin, Parchin).

*Crombrugghia tristis* (Zeller, 1839)

Distribution in Iran: Alborz (Azadbar); Ardebil (Sabalan); Fars (Tang-e Chogan); Golestan (Shirin Abad).

*Stenodacma wahlbergi* (Zeller, 1851)

Distribution in Iran: Kerman (Anbar-Abad) (ARENBERGER, 2002), Kerman (Narab); Sistan Va Baluchestan (Iranshahr).

*Buckleria paludum* (Zeller, 1841)

Distribution in Iran: Ardebil (Sabalan).

*Stangeia siceliota* (Zeller, 1847)

Distribution in Iran: Jahrom, Isin (ARENBERGER, 2002); Ardebil (Sabalan); Azarbaijan-e Gharbi (Ghoushchi); Bushehr (Khalij-e Nayband).

*Megalorhipida leucodactylus* (Fabricius, 1794)

Distribution in Iran: Elburz (Karaj), Sistan Va Baluchestan (Chabahar) (BIGOT, 1968; ARENBERGER, 2002); Khuzestan (Pol-e Dokhtar).

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