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# New records to the Pyraloidea fauna of the Republic of Daghestan (Russia) (Lepidoptera: Crambidae, Pyralidae)

A. N. Poltavsky & E. V. Ilyina

## Abstract

There are 10 new snout-moth species first reported for the fauna of the Republic of Daghestan (North-East Caucasus, Russia): *Praeepischnia iranella* Amsel, 1953; *Eurhodope rosella* (Scopoli, 1763); *Ancylosis dumetella* Ragonot, 1887; *Euchromius bleszynskiellus* Popescu-Gorj, 1964; *Crambus monochromellus* Herrich-Schäffer, 1855; *Xanthocrambus lucellus* (Herrich-Schäffer, 1848); *Evergestis manglialis* Erschoff, 1877; *Hellula undalis* (Fabricius, 1794), *Udea olivalis* ([Denis & Schiffermüller], 1775) and *Pyrausta aerealis* (Hübner, 1793).

KEY WORDS: Lepidoptera, Pyraloidea, Pyralidae, Crambidae, new records, Daghestan, Russia.

## Nuevos registros de Pyraloidea a la fauna de la república de Daguestán (Rusia) (Lepidoptera: Crambidae, Pyralidae)

## Resumen

Se incluyen 10 especies de pirálidos registrados por primera vez para la fauna de la república de Daguestán (Nordeste del Cáucaso, Rusia): *Praeepischnia iranella* Amsel, 1953; *Eurhodope rosella* (Scopoli, 1763); *Ancylosis dumetella* Ragonot, 1887; *Euchromius bleszynskiellus* Popescu-Gorj, 1964; *Crambus monochromellus* Herrich-Schäffer, 1855; *Xanthocrambus lucellus* (Herrich-Schäffer, 1848); *Evergestis manglialis* Erschoff, 1877; *Hellula undalis* (Fabricius, 1794), *Udea olivalis* ([Denis & Schiffermüller], 1775) y *Pyrausta aerealis* (Hübner, 1793).

PALABRAS CLAVE: Lepidoptera, Pyraloidea, Pyralidae, Crambidae, nuevos registros, Daguestán, Rusia.

## Introduction

Modern investigations of Heterocera moths in the Republic of Daghestan have been undertaken annually since 1998. Originally it was the Noctuidae moth family (POLTAVSKY & ILYINA, 2002, 2003; MATOV, ILYINA & POLTAVSKY, 2012). Now we have begun the study of the Pyraloidea moths, which were collected simultaneously with noctuids. The current Pyraloidea list of Daghestan includes 93 species. Most of them are listed for the North-East Caucasus (Chechenia and Daghestan) (SINEV, 2008a, 2008b), basing on a few earlier publications (CHRISTOPH, 1877; RAGONOT, 1901; ROMANOFF, 1887). We report here 10 species as new for Daghestan.

## Material and methods

Snout-moths were collected by hand-catching on white screen, attracted by mercury vapour lamps (HQM) 'DRL' 300 W. We have analysed 483 Pyraloidea specimens altogether during the total period of study. The collecting sites of the new species are listed below (with geographical coordinates). They belong to 5 mountain areas at different heights above sea level (a.s.l.). Species

determination was checked by Dr. Sergey Sinev, Zoological Institution of the Russian Academy of Sciences (St. Petersburg) and Tatyana Trofimova, Samara State university. Digital photos of Pyraloidea moths were made with a Nikon D-90 camera and retouched for publication using CorelPhotoPaint-5 program. Represented material is stored in the private collection of A. Poltavsky (Rostov-on-Don, Russia).

Collecting sites in Daghestan:

Lowlands: Karaman-2 - village in the suburb of Makhatchkala town (43 02' 07.8"N, 47° 26' 25.2"E).

Foothills: Sarykum - large single sand dune in the Kumtor-Kale District (43 00' 33"N, 47 13' 51"E).

Front mountain-ranges: Barshamay - village in Kajtaghsy District, 400 m a.s.l. (42 06' 42.7"N, 47° 50' 52.9"E); Dylm - village in Kazbekovsky District, 655 m a.s.l. (43° 04' 29.0"N, 46° 37' 43.5"E); Ersa - village in Tabasaransky District, 800 m a.s.l. (42° 01' 20.5"N, 48° 00' 26.8"E); Gertma - village in Kazbekovsky District, 1200 m a.s.l. (42° 59' 26.8"N, 46° 45' 01.1"E).

Central mountain area: Chirkata - village in Gumbetovsky District, 425 m a.s.l. (42° 46' 56.0"N, 46° 42' 59.6"E); Salda - village in Tljara District, 1800 m a.s.l. (41° 58' 28.6"N, 46° 30' 34.4"E); Upper Kazanische - village in Buinaksk District, 1000 m a.s.l. (42° 43' 18.9"N, 47° 08' 08.8"E).

Highlands: Kala village in Rutul District, 1500 m a.s.l. (41° 34' 40.8"N, 47 21' 12.3"E); Kurush - village in Dokuzparinsky District, 2500 m a.s.l. (43° 22' 56.4"N, 46° 46' 03.7"E); Rutul - village, centre of Rutul District, 1300 m a.s.l. (41° 32' 03.9"N, 47° 26' 24.0"E).

## Results

### PYRALIDAE

#### Phycitinae

*Praeepischnia iranella* Amsel, 1953 (Figs. 15-17)

Material examined: 1 ♂, 2 ♀♀, Daghestan, Kala, 10-VII-2011 (coll.: P. Alieva). **New record for Russia.**

General distribution: North-eastern Iran (AMSEL, 1953; MOHAMMADIAN, 2006).

*Eurhodope rosella* (Scopoli, 1763) (Fig. 10)

Material examined: 1 ♀, Daghestan, Upper Kazanische, 25-VI-1999; 1 ♀ (coll.: E. Ilyina). Daghestan, Salda, 25-VII-2014 (coll.: E. Ilyina). **New record for Daghestan.**

General distribution: European-Caucasus. Southern and Central Europe, Transcaucasus (available from <http://www.lepiforum.de>), European Russia, South Ural, North-West Caucasus (SINEV, 2008a).

*Ancylois dumetella* Ragonot, 1887 (Figs. 8, 9)

Material examined: 1 ♀, Daghestan, Chirkata, 15-VII-2013 (coll.: G.-M. Habiev). **New Record for Daghestan.**

General distribution: original description and type locality (Kuldsha, NW China) (RAGONOT, 1887); Iran (KOÇAK & KEMAL, 2012); South Siberia (SINEV, 2008a). Afro-Iranian-Siberian, Algeria, Iran, Turkey (available from <http://en.wikipedia.org/>);

### CRAMBIDAE

#### Crambinae

*Euchromius bleszynskiellus* Popescu-Gorj, 1964 (Figs. 5, 6)

Material examined: 1 ♂, Daghestan, Dylm, 3-VIII-2014 (coll.: G.-M. Habiev). **New record for Daghestan.**

General distribution: Euro-Anatolien: Wolga-Don area, South Ural (SINEV, 2008b); South Ukraine (GOVORUN, 2008); Greece, Romania (KARSHOLT & RAZOWSKI, 1996); Turkey (KOÇAK & KEMAL, 2009).

*Crambus monochromellus* Herrich-Schäffer, 1855 (Figs. 11-14)

Material examined: 1 ♂, Daghestan, Kurush, 2-VII-2014 (coll.: E. Ilyina). **New record for Daghestan.**

General distribution: Euro-Asian mountainous: Alpes, Caucasus, Transcaucasus, Asia Minor, Central Asia (BURMANN, 1976), North-West Caucasus (SHCHUROV & LAGOSHINA, 2013), Tibet, Central China (available from <http://baike.baidu.com/>).

Remarks: A single specimen collected has an extremely dark color and gnathos much shorter in comparison to specimen from Alpes. SLAMKA (2008) referred *Crambus monochromellus* as a valid species, but then it was synonymized with *Crambus perlellus* (Scopoli, 1763) (KARSHOLT *et al.*, 2013).

*Xanthocrambus lucellus* (Herrich-Schäffer, 1848) (Figs. 4, 7)

Material examined: 1 ♂, Daghestan, Ery, 6-VII-2008 (coll.: E. Ilyina). **New record for Daghestan.**

General distribution: Amphipalaeartic. Europe, North-West Caucasus, South Siberia, Far East (SINEV, 2008b), Europe, Korea, China and Japan (available from <http://en.wikipedia.org/>).

#### Evergestinae

*Evergestis manglisalis* Erschoff, 1877 (Figs. 1, 3)

Material examined: 1 ♀, Daghestan, Rutul, 10-VIII-2014 (coll.: E. Ilyina). **New record from Daghestan.**

General distribution: Type locality: Transcaucasus (Georgia, Manglis) (ERSCHOFF, 1877), Armenia (KOÇAK & KEMAL, 2012). North-West Caucasus (SINEV, 2008b). Endemic to Caucasus.

#### Glaphyriinae

*Hellula undalis* (Fabricius, 1794) (Figs. 20-22)

Material examined: 1 ♂, Daghestan, Karaman-2, 25-VIII-2014 (coll.: E. Ilyina); 1 ♂, same locality, 18-X-2014 (coll.: E. Ilyina); 1 ♀, Daghestan, Sarykum, 24-VIII-2013 (coll.: E. Ilyina). **New Record for Daghestan.**

General distribution: Euro-Paleotropical: European Russia (SINEV, 2008b); Western Europe, Africa, Asia Minor, Iraq, Pakistan, China, India, Malaysia, South-East Asia, Philippines, Hawaii Islands, Australia (available from <http://www.plantwise.org/>).

#### Pyraustinae

*Udea olivalis* ([Denis & Schiffermüller], 1775) (Fig. 2)

Material examined: 2 ♂♂, 1 ♀, Daghestan, Salda, 25-VII-2014 (coll.: E. Ilyina). **New record for Daghestan.**

General distribution: Euro-Anatolian. Western Europe, European Russia, South Ural, North-West Caucasus (SINEV, 2008b); Turkey (KOÇAK & KEMAL, 2009).

*Pyrausta aerealis* (Hübner, 1793) (Figs. 18-19)

Material examined: 1 ♂, Daghestan, Chirkata, 14-VII-2014 (coll.: E. Ilyina). **New record for Daghestan.**

General distribution: Mediterranean-Centralasian. Europe, Algeria, Kyrgyzstan, Kazakhstan,

Afghanistan, China, Algeria (available from <http://en.wikipedia.org/>), North-West Caucasus (SHCHUROV & LAGOSHINA, 2013); Iran, Turkey (KOÇAK & KEMAL, 2012).

## Discussion

Of the ten reported snout-moth species - nine are new for the fauna of Daghestan republic and one (*Praeepischnia iranella* Amsel) is new for the fauna of Russia. All species have different types of geographical ranges. Their presence in Daghestan is not surprise, since they are known in the adjacent regions. Among the reported species there is one potential agricultural pest – a Cabbage Webworm *Hellula undalis* (F.). It's findings in some regions of European Russia (SINEV, 2008b), could be explained by occasional introduction with vegetables, but on the territory of Daghestan this thermophilic species may find suitable climate conditions for stable development. Three specimens of *Hellula undalis* collected here were rather worn, which could be a result of migratory activity.

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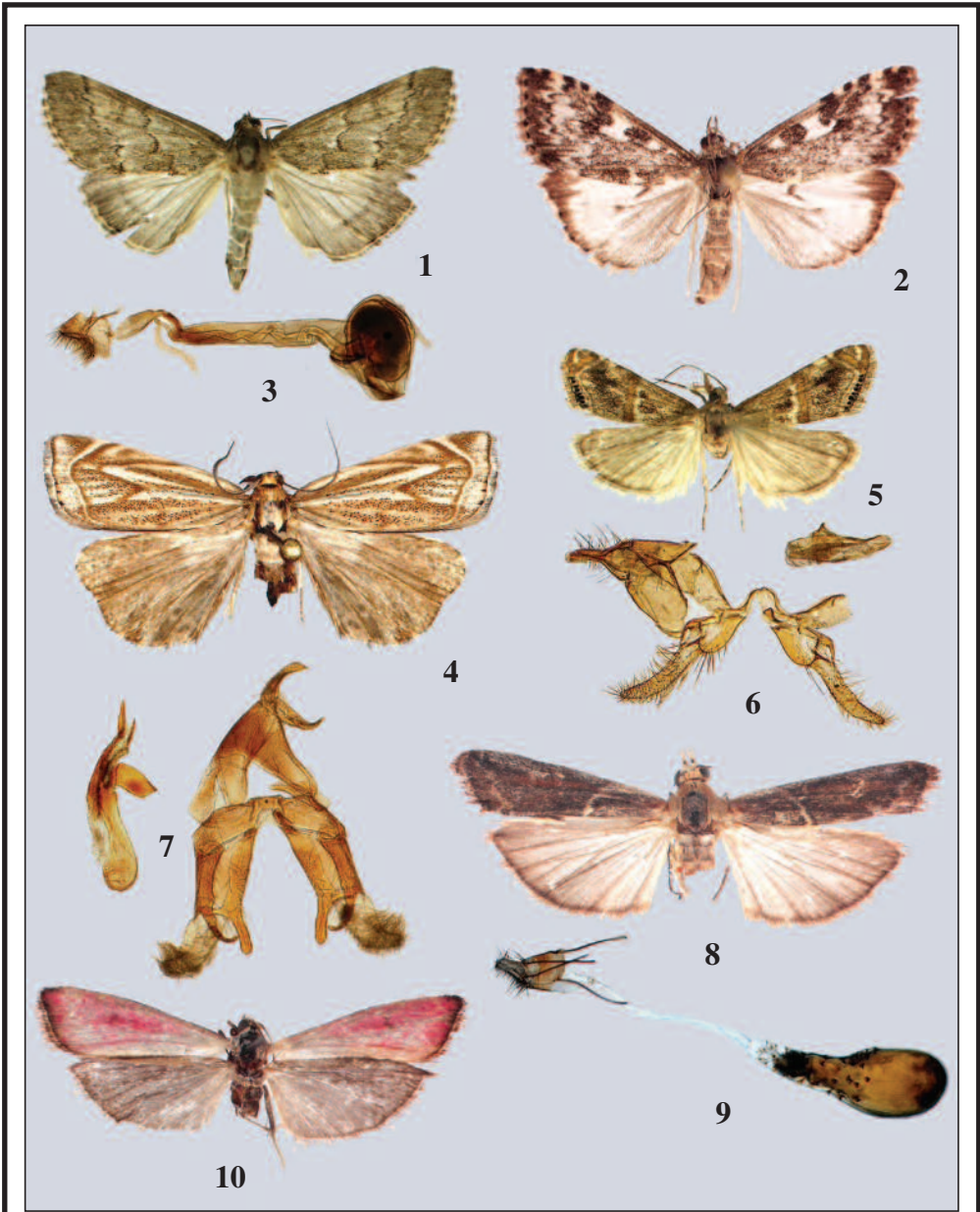
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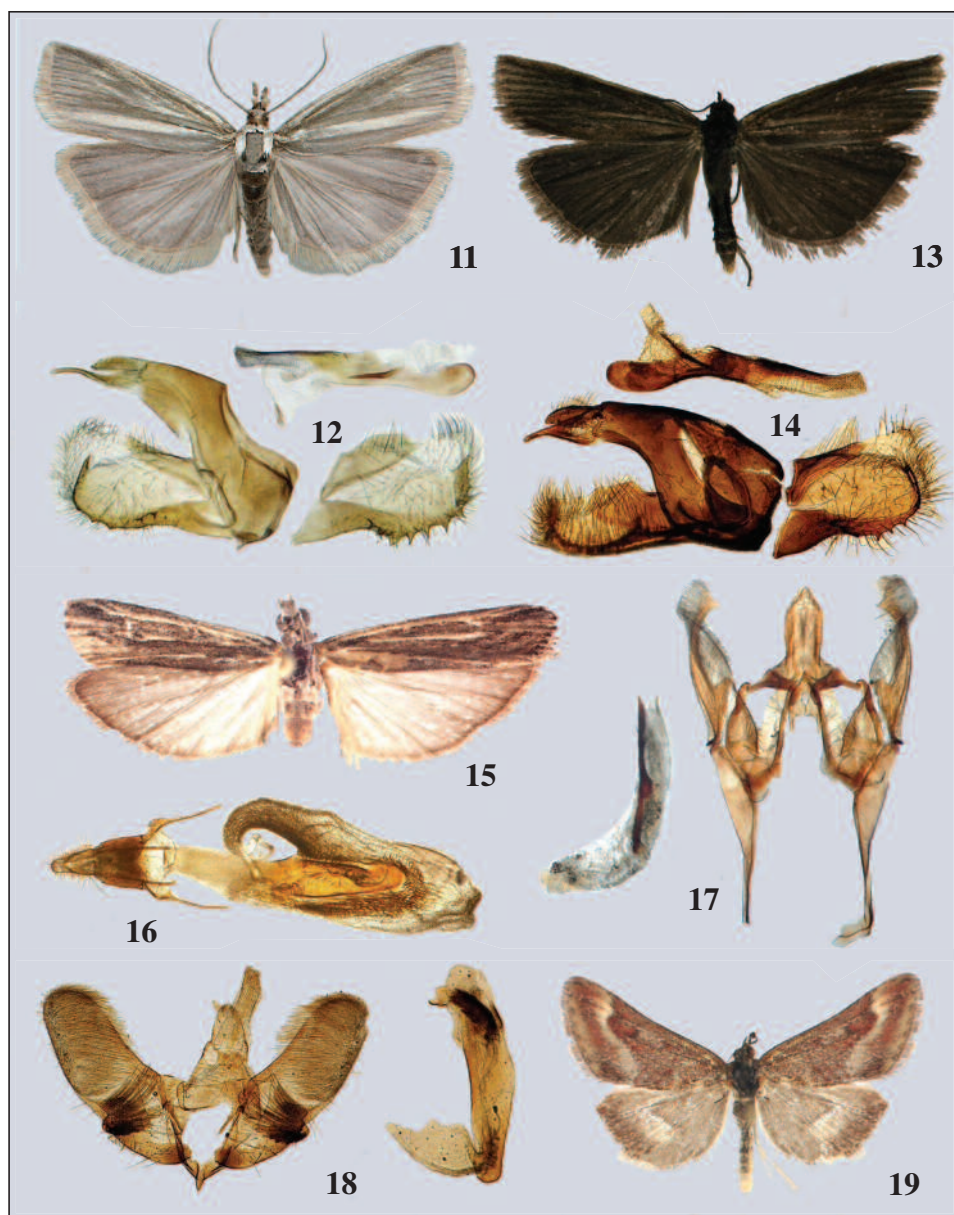
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**Figures 1-10.**– 1. *Evergestis manglialis* female imago, 2. *Udea olivalis* female imago, 3. *Evergestis manglialis* female genitalia, 4. *Xanthocrambus lucellus* male imago, 5. *Euchromius bleszynskiellus* male imago, 6. *Euchromius bleszynskiellus* male genitalia, 7. *Xanthocrambus lucellus* male genitalia, 8. *Ancylosis dumetella* female imago, 9. *Ancylosis dumetella* female genitalia, 10. *Eurhodope rosella* female imago.





**Figures 11-19.**– 11. *Crambus monochromellus* male imago from Alpes (<http://www.lepiforum.de>), 12. *Crambus monochromellus* male genitalia from Europe (<http://www.dissectiongroup.co.uk>), 13. *Crambus monochromellus* male imago from Daghestan, 14. *Crambus monochromellus* male genitalia Daghestan, 15. *Praeepischnia iranella* female imago, 16. *Praeepischnia iranella* female genitalia, 17. *Praeepischnia iranella* male genitalia, 18. *Pyrausta aerealis* male genitalia, 19. *Pyrausta aerealis* male imago.



