

Records of some rare noctuid moths (Lepidoptera: Noctuidae) in the Rostov-on-Don area (Russia) in 2007–2009

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Abstract. Nine rare Noctuidae moth species were caught in the Rostov-on-Don area of Russia during the field-seasons 2007–2009: *Nola cucullatella* (Linnaeus, 1758), *Nola chlamitulalis* (Hübner, [1813]), *Odice arcuinna* (Hübner, [1790]), *Macrochilo cribrumalis* (Hübner, [1793]), *Zekelita ravalis* (Staudinger, 1851), *Schinia cognata* (Freyer, 1833), *Victrix umovii* (Eversmann, 1846), *Photedes morrisii* (Dale, 1837), *Dichagyris vallesiaca* (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930.

Samenvatting. Meldingen van zeldzame Noctuidae-soorten (Lepidoptera) uit de streek van Rostov-on-Don (Rusland)

Negen zeldzame soorten Noctuidae werden in de streek van Rostov-on-Don verzameld in de periode 2007–2009: *Nola cucullatella* (Linnaeus, 1758), *Nola chlamitulalis* (Hübner, [1813]), *Odice arcuinna* (Hübner, [1790]), *Macrochilo cribrumalis* (Hübner, [1793]), *Zekelita ravalis* (Staudinger, 1851), *Schinia cognata* (Freyer, 1833), *Victrix umovii* (Eversmann, 1846), *Photedes morrisii* (Dale, 1837) en *Dichagyris vallesiaca* (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930.

Résumé. Captures de quelques espèces rares de noctuelles (Lepidoptera: Noctuidae) dans la région de Rostov-sur-Don (Russie)

Neuf espèces rares de noctuelles ont été capturés dans la région de Rostov-sur-Don dans la période 2007–2009: *Nola cucullatella* (Linnaeus, 1758), *Nola chlamitulalis* (Hübner, [1813]), *Odice arcuinna* (Hübner, [1790]), *Macrochilo cribrumalis* (Hübner, [1793]), *Zekelita ravalis* (Staudinger, 1851), *Schinia cognata* (Freyer, 1833), *Victrix umovii* (Eversmann, 1846), *Photedes morrisii* (Dale, 1837) et *Dichagyris vallesiaca* (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930.

Key words: Rare species – Monitoring – Faunistics – Rostov-on-Don area – Noctuidae.

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The first report about the rarest Heterocera moths of the Rostov-on-Don area was published two years ago (Poltavsky *et al.* 2007). As it was mentioned, a new species is found here every year. There are two supposed reasons: 1) spatial localisation of rare moth's populations, which can not be easily detected by any methods of catching; 2) environmental changes (especially climate), which provoke a local populations growth or migrations from adjacent territories.

The first years of the 21st century show convincing examples how the new species for this regional fauna became common and wide spread. The olive-shaded bird-dropping moth – *Tarachidia candefacta* (Hübner, 1831) invaded the Rostov-on-Don area from the south. It was introduced from Canada and the U.S.A. into the Krasnodar area in 1966, but only in 2001 it appeared in the Rostov-on-Don area (Poltavsky & Artokhin 2006; Poltavsky *et al.* 2008). Also, *Xestia trifida* (Fischer von Waldheim, 1820), originally living in the semideserts of north Daghestan and the Stavropol area, invaded the southern half of the

Rostov-on-Don area in 2005 and in 2009 it became a pest of wheat (Artokhin *et al.* 2009).

But all noctuid species, presented in the present paper, belong to a local population's group, and have supposedly no potential to become a mass-occurring species or a pest.

During 2007–2009 Noctuidae moths monitoring was carried out with light-traps equipped with mercury lamps "Osram" 160 W or DML 500 W and the day-flying species were collected with a net.

Abbreviation: ZIN = Zoological Institute of the Russian Academy of Sciences, St.-Petersburg.

Nola cucullatella (Linnaeus, 1758) – West-Palaeartic, mesophyllous.

Larval food plants: *Prunus* spp., *Malus* spp., *Crataegus* spp.

Rostov-on-Don area: 1.– Ust-Donetzk distr., v. Konygin, 2–16.06.2007, 3 ex.; 2.– Millerowsky distr., v. Ternovoy, 12.06.2009, 1 ex.; 3.– Taganrog (Alpheraky 1876).

Nearest localities: 1.– Kabardino-Balkaria Republic, t. Naltchik, 13.06.1986 (Matov & Bolov 2006); 2.– Stavropol area, t. Essentuky, 11.07.1926, 05.07.1927 (ZIN: V. Zrakovsky); 3.– t. Stavropol, 26.07.1913, 05.06.1920, 29.05–2.07.1921 (ZIN: I. N. Filipyev) (Poltavsky *et al.* 2009).

Status: first record in the Rostov-on-Don area since the 19th century.

Nola chlamitulalis (Hübner, [1813]) – Transpalaeartic, xerophyllous.

Larval food plants: *Odontites* spp., *Teucrium* spp., *Scabiosa* spp.

Rostov-on-Don area: 1.– Ust-Donetzk distr., v. Razdorskaja, 09.09.2008, 1 ex.; 2.– Mjasnikovsky distr., Donskoj Tchulek, 11.05.2007, 6 ex.; 3.– t. Rostov-on-Don, Botanical garden, 13.05.2009, 1 ex., 4.– Aksay distr., v. Rasswet, 01.05.2007 1 ex.; 5.– Azov distr., v. Rogozhkino, 08.08.2000 (1 ex.); 6.– Bagaevsky distr., v. Kalinin, 10.07.2005, 1 ex., 25.06.2008, 2 ex.

Nearest localities in Krasnodar area: 1.– Majorovsky, 11.05.2007; 2.– Yasenskaja Peresip, 30.04.2007 (Poltavsky *et al.* 2009).

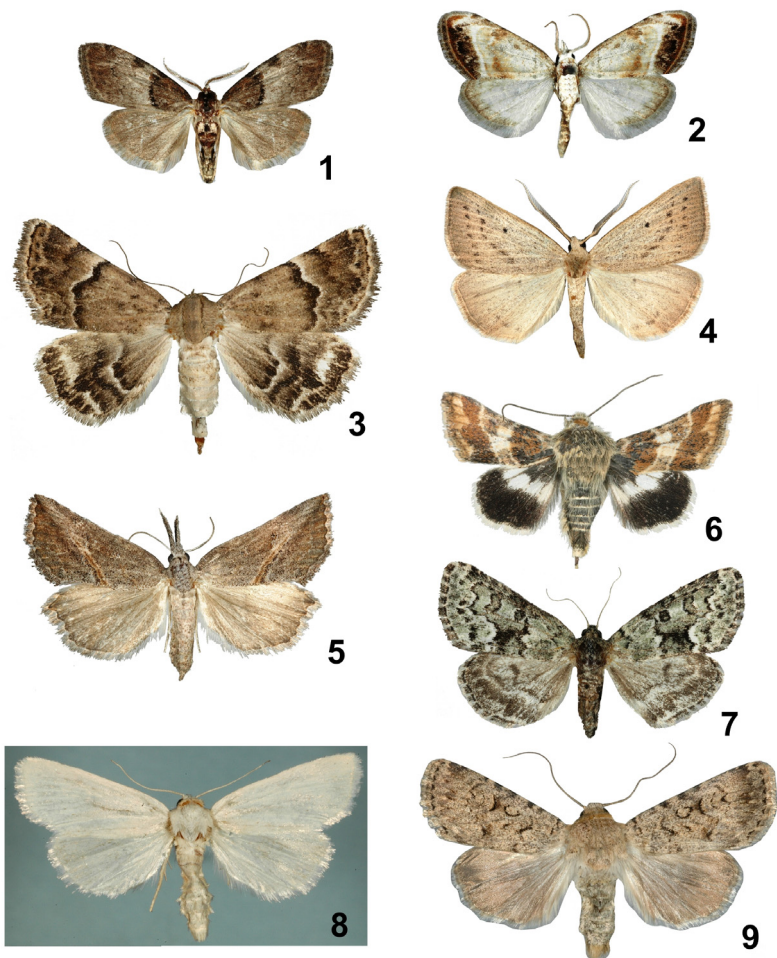
Status: new species for the Rostov-on-Don area.

Odice arcuinna (Hübner, [1790]) – Mediterranean, hemixerophyllous.

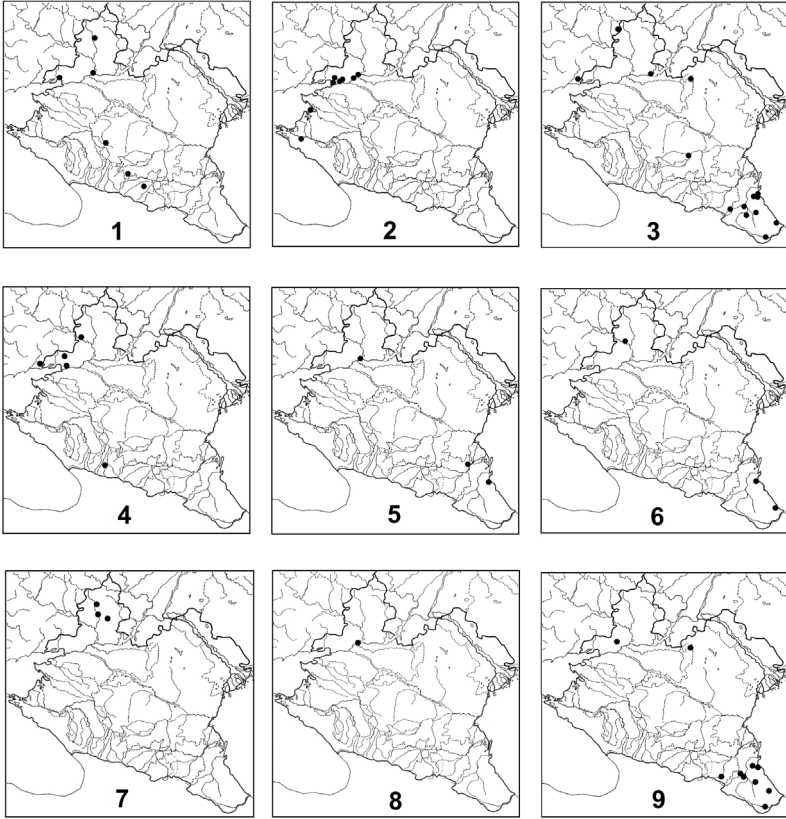
Larval food plants: *Onosma* spp.

Rostov-on-Don area: 1.– Zavetnoe distr., v. Kiseleska, 22–24.07.2008, 18 ex.; 2.– t. Cymliansk (Alberti & Soffner 1962).

Nearest localities in south Russia: 1.– Stavropol area, Budennovsk, 15.08.1952 (ZIN: N. Goryshin); 2.– t. Astrakhan (Lvovsky, 1971); Daghestan Republic: 3.– v. Tindi, 30.07.2004, 1 ex.; 4.– v. Tarki; 5.– v. Ahti; 6.– v. Kaptchugaj (ZIN: M. A. Rjabov, no dates); 7.– v. Maidanskoe, 25.06.1999, 15.07.2000, 20.07.2001; 8.– Dune Sarykum; 9.– v. Balahany (no date) (Poltavsky *et al.* 2009).



Figs. 1–9. Moths observed in the Rostov-on-Don area during 2007–2009; 1.– *Nola cucullatella* (Linnaeus, 1758); 2.– *Nola chlamitulalis* (Hübner, [1813]); 3.– *Odice arcuinna* (Hübner, [1790]); 4. – *Macrochilo cribrumalis* (Hübner, [1793]); 5.– *Zekelita ravalis* (Staudinger, 1851); 6.– *Schinia cognata* (Freyer, 1833); 7.– *Victrix umovii* (Eversmann, 1846); 8.– *Photedes morrisii* (Dale, 1837); 9.– *Dichagyris vallesiaca* (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930.



Figs. 1–9. Localities of rare moths in the south of Russia; 1.– *Nola cucullatella* (Linnaeus, 1758); 2.– *Nola chlamitulalis* (Hübner, [1813]); 3.– *Odice arcuinna* (Hübner, [1790]); 4. – *Macrochilo cribrumalis* (Hübner, [1793]); 5.– *Zekelita ravalis* (Staudinger, 1851); 6.– *Schinia cognata* (Freyer, 1833); 7.– *Victrix umovii* (Eversmann, 1846); 8.– *Photedes morrisii* (Dale, 1837); 9.– *Dichagyris vallesiaca* (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930.

Nearest localities in the east of Ukraine: 1.– Streletskaja steppe reserve, 2.– Homutovskaja steppe reserve (Klyuchko *et al.* 2001).

Status: first record in the Rostov-on-Don area after mid of the 20th century.

Macrochilo cribrumalis (Hübner, [1793]) – Euro-Siberian hygrophyllous.

Larval food plants: *Carex*, *Juncus*, *Luzula*, *Phragmites*, *Salix*, *Taraxacum*.

Rostov-on-Don area: 1.– t. Rostov-on-Don, Botanical garden, 02.06.1980, 1 ex.; 2.– Rodionovo-Nesvetajsky distr., v. Bolshekrepinskaja, 28.05.2005 (1 ex.); 3.– t. Kamensk, forest wet-lands of North-Donets river, 27.06.2009, 1 ex.

Nearest localities in south Russia: Kabardino-Balkaria Republic, v. Terskol (Poltavsky *et al.* 2009).

Nearest localities in the east of Ukraine: Homutovskaja steppe reserve (Klyuchko *et al.* 2001).

Status: third record in the Rostov-on-Don area.

Zekelita ravalis (Staudinger, 1851) – Irano-Turanish, xerophyllous.

Larval food plants: *Alhagi* spp.

Rostov-on-Don area: Ust-Donetzk distr., v. Konygin, 02.06.2007, 1 ex.

Nearest localities: 1.– Daghestan Republic, t. Mahatchkala (Poltavsky *et al.* 2009); 2.– Chechen Republic, v. Voskresenskoe (Herczig *et al.* 1990).

Status: new species for the Rostov-on-Don area.

Schinia cognata (Freyer, 1833) – East-Mediterranean, xerophyllous.

Larval food plants: *Chondrilla* spp., *Prenanthes* spp.

Rostov-on-Don area: Kamensk distr., v. Kalitvinskaja, 06.08.2008, 1 ex. (daytime).

Nearest locality in Daghestan Republic: 1.– t. Derbent, 07.08.1928 (ZIN: M. A. Rjabov); 2.– t. Mahatchkala, 20.06.1948 (ZIN: M. A. Rjabov).

Nearest localities in Ukraine: Donetsk area, Crimea peninsula (Klyuchko *et al.* 2001).

Status: new species for Rostov-on-Don area.

Victrix umovii (Eversmann, 1846) – European, mesophyllous.

Larval food plants: lichenes *Alectoria* spp., *Cladonia* spp.

Rostov-on-Don area: 1.– Tarasovsky distr., Efremo-Stepanovka, 03.05.2000, 1 ex.; 2.– Miljutinsky dist., v. Ternovoy-1, 29.05.2007, 2 ex.; 3.– Millerowsky distr., v. Ternovoy, 11.06.2009, 2 ex.

Nearest localities in Ukraine: single specimen from Kharkov area (Klyuchko *et al.* 2001).

Status: new species for the south of Russia.

Photedes morrisii (Dale, 1837) – European, mesophyllous.

Larval food plants: *Phragmites* spp.

Rostov-on-Don area: Ust-Donetzk distr., v. Razdorskaja, 26.06.2008, 1 ex.

Nearest localities in Ukraine: south-east bank of the Crimea peninsula (Klyuchko *et al.* 2001).

Status: new species for the south of Russia.

Dichagyris vallesiaca (Boisduval, 1837) ssp. *subsqualorum* Kozhanchikov, 1930 – East-Mediterranean, xerophyllous.

Larval food plants: *Artemisia* spp.

Rostov-on-Don area: 1.– Otkjabersky distr., v. Persianovka, 04.06.1979, 1 ex; 2.– Zavetnoe distr., v. Kiselevka, 23.07.2008, 1 ex.

Nearest localities in the Dagestan Republic: 1.– v. Ingishi, 27.06.2003, 1 ex.; 2.– v. Hapil, 04.06.2006, 1 ex., 13.08.2006, 3 ex.; 3.– v. Tarki, 15.06.1947, 06.07.1947; 4.– v. Ahti, 28.07.1933; 5.– v. Kumtor-Kale, 16.07.1947; 6.– v. Levaschi, 31.07.1940 (ZIN: M.A. Rjabov); 7.– v. Balahani (no date); 8.– Chechen Republic, v. Itum-Kale (Herczig *et al.* 1990).

Status: second record in the Rostov-on-Don area.

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