



## Two new records of Lithosiini (Lepidoptera: Erebidae: Arctiinae) from India

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**ABSTRACT:** Two Lithosiin species, *Dolgoma rectoides* Dubatolov, 2012 and *Microlithosia pseudodecreta* Bucek, 2012 are reported from India. Diagnosis, photographs of adults and male genitalia of both the species are provided. © 2018 Association for Advancement of Entomology

**KEYWORDS:** Arctiinae, Lithosiini, *Dolgoma rectoides*, *Microlithosia pseudodecreta*, new records, India

### INTRODUCTION

The tribe Lithosiini of subfamily Arctiinae (Erebidae) is known by an estimated number of 3445 species in the World, with 909 species from Oriental region (Heppner, 1991) and 387 species from India (Singh *et al.*, 2014; Kirti & Singh, 2015, 2016; Joshi *et al.*, 2015, 2015a, 2016, 2017; Singh *et al.*, 2017, 2017a). Majority of the Lithosiin species are lichen feeders and therefore, act as important environmental indicators of air-pollution as lichens are sensitive to different types of air pollutants. Therefore, the study of Lithosiin diversity, distributional ranges or limits of these species will help in assessing environmental health and zoogeographical affinities of a particular area. This paper deals with addition of two Lithosiin species to Indian fauna: *Dolgoma rectoides* Dubatolov and *Microlithosia pseudodecreta* Bucek, earlier recorded from Vietnam and Malaysia, respectively.

### MATERIALS AND METHODS

Adult moths were collected with the help of vertical sheet light trap. The specimens collected were killed using ethyl acetate vapors and processed as per standard techniques in Lepidopterology. Dry preservation is done in fumigated entomological boxes and registered in the National Zoological Collections of ZSI, Gangetic Plains Regional Centre, Patna.

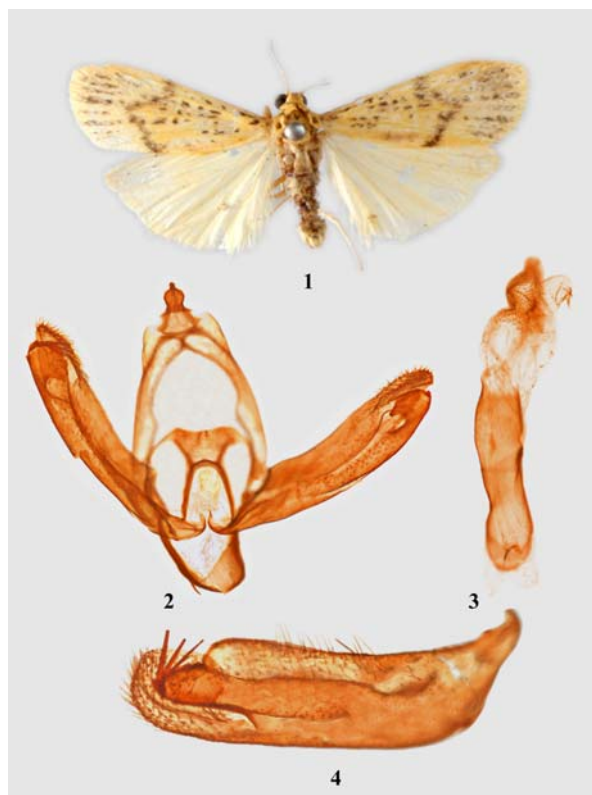
### RESULTS AND OBSERVATIONS

#### Genus *Dolgoma* Moore, 1878

Proc. Zool. Soc. London 1878: 20.

**Type species:** *Lithosia reticulata* Moore, 1865 (by original designation).

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FIGURES: 1, 2, 3, 4. *Dolgoma rectoides* Dubatolov: 1. Adult moth, 2. Male genitalia, 3. Aedeagus, 4. Valvae from inner side

***Dolgoma rectoides* Dubatolov, 2012 (Figs. 1, 2, 3, 4)**

*Dolgoma rectoides* Dubatolov, 2012; *Euroasian Entomological Journal*, 11(6): 507-512

**Material examined:** INDIA: Arunachal Pradesh, Ziro, 1♂, 28.viii.2005; Coll. Singh, N.; INDIA: Arunachal Pradesh, Ziro, 2♂, 02.iv.09; Coll. Joshi, R.

**Distribution:** India (Arunachal Pradesh) (New record); Vietnam.

**Taxonomic note:** The adults are yellow, dusted with diffuse black dots, densely placed in basal and outer area of forewing; latter with a medial line, strongly angled outward at vein  $M_3$ . Male genitalia with valve having cucullus apex broad, rounded, covered with fine hairs; distal saccular process bears three long and strong downwardly directed spines.



FIGURES: 5, 6, 7. *Microlithosia pseudodecreta* Bucsek: 5. Adult moth, 6. Male genitalia, 7. Aedeagus.

**Remarks:** At present the genus *Dolgoma* is known by 15 species from the world and five species: *D. reticulata* Moore, *D. angulifera* (Felder), *D. oblitterans* (Felder), *D. xanthocraspis* (Hampson), and *D. recta* Èerný are known from India. *D. rectoides* is the sixth species of *Dolgoma* from India. It is very similar to *D. recta* and *D. angulifera*, but can be distinguished from the two species as well from all its other congeners by the presence of three long and strong downwardly directed spines at the apex of sacculus.

**Genus *Microlithosia* Daniel, 1954**

Daniel, 1954, *Bonn. Zool. Beitr.* 5 (1-2): 135.

**Type species:** *Microlithosia shaowuica* Daniel, 1954 (by monotypy).

***Microlithosia pseudodecreta* Bucsek, 2012 (Figs. 5, 6, 7)**

*Microlithosia pseudodecreta* Bucsek, 2012; *Erebidae, Arctiinae (Lithosiini, Arctiini) of Malay Peninsula – Malaysia*, 2012: 136.

**Material Examined:** INDIA: Bihar, East Champaran, Valmiki Tiger Reserve (VTR), Bhediari gate, 4♂, 09.x.2017; VTR, Naurangia Don, 4♂, 13.x.2017; VTR, Govardhana, 1♂, 14.x.2017; Coll. Singh, N. & Ahmad, J.

**Distribution:** India (Bihar) (New Record); Malaysia.

**Taxonomic note:** The adults are ochreous with forewing light brown, basal portion lighter in coloration, underside with broad black patch at termen, hindwing straw yellow. Male genitalia with valve having basal saccular process reduced to a knob like structure; cucullus triangular at apex; vesica with single group of large spines.

**Remarks:** Genus *Microlithosia* is readily diagnosed by a long process originating from the aedeagus. The process having its apex covered with small spines. The genus is known by seven species from the World with two: *M. champhaiensis* Singh & Kirti, 2016 and *M. jagbiri* Singh & Joshi, 2017 from India. *M. pseudodecreta* is the third species from India and is closely similar to *M. decreta* but is distinct due to the shape of the distal saccular process and ornamentation of spines in vesica.

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