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## Faunistic study of *Eublemma* Hubner, [1821] (Lepidoptera: Noctuidae: Eublemminae) species in Iran

**Ehsan Kazemi****Abstract**

Until now, 43 *Eublemma* species are known in Iran. Some records were obtained from the study of material deposited in the Collection of Entomology, Shahid Bahonar University of Kerman, as well as the recent expeditions carried out on the fauna of Noctuidae family in Iran. The Iranian records in different provinces are presented and also, some new faunal of species are added.

**Keywords:** *Eublemma*, Iran, fauna, Noctuidae.

**1. Introduction**

*Eublemma* was first described by Hübner in 1821. This genus belongs to the family Noctuidae and subfamily Eublemminae of Order Lepidoptera. Some species of the genus *Eublemma* are predators of some insects, such as *Eublemma scitula* which is an important predator of brown scale, [24] and most species of this genus are known as pest such as *Eublemma amabilis* which is very destructive to lac insect and lac encrustation [25]. Therefore it is an economically important genus [20]. The larvae feed oligophagously on various species of Asteraceae (Compositae). Most of the Eublemminae are multivoltine. In this paper provincial distribution, citation of the original description, type locality, and synonymy of each species and subspecies is presented.

**2. Material and Methods**

During the recent expeditions, moth specimens were collected by using both portable and permanent light traps in different provinces of Iran, mainly in South and Southeast of the country. Data of collected materials were obtained from a four years sampling program following 2008. The collected specimens were transferred to the laboratory and were spread on spreading boards. In order to identify the species properly, the genitalia of both male and female sexes (if available) were extracted and then mounted by using Canada balsam, Entellan or Euparal mounting mediums. The specimens finally, were identified based on both external and genital characteristics [16, 17].

**3. Checklist****Genus: *Eublemma* Hubner, [1821]**

Type species: *Noctua amoena* Hubner [1803]

[Synonyms: *Anthophila* Ochseneimer, 1816; *Porphyrinia* Hübner, [1821]; *Eromene* Hübner, [1821]; *Trothisa* Hübner, [1821]; *Ecthetis* Hübner, [1823]; *Heliomanes* Sodoffsky, 1837; *Microphisa* Boisduval, 1840; *Micra* Guenée, 1841; *Microphysa* Guenée, 1841; *Microphysa* Agassiz, 1846; *Thalpocharis* Lederer, 1853; *Mixocharis* Lederer, 1853; *Thalomicra* Spuler, 1907; *Polyorycta* Warren, 1911; *Gyophora* Warren, 1913]

***Eublemma aftob* (Brandt, 1938)**

*Porphyrinia aftob* Brandt, 1938, *Ent. Rdsch.* 55: 558. L. t.: Iran, Fars.

**Iranian record:** Fars [2].

***Eublemma ochreola* (Staudinger, 1900)**

*Thalpocharis wagneri* var. *ochreola* Staudinger, 1900, *Dt. Ent. Z. Iris* 12: 385. L. t.: Turkey.

**Iranian record:** Fars [10].

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***Eublemma agnella* (Brandt, 1938)**

*Porphyrinia agnella* Brandt, 1938, *Ent. Rdsch.* **55**: 559. L. t.: Iran, Fars.

**Iranian record:** Fars <sup>[2]</sup>

***Eublemma albida* (Duponchel, [1843])**

*Anthophila albida* Duponchel, [1843]; 382, pl. 81, f. 1. L. t.: France.

[Synonymys: *Thalpochares compuncta* Lederer, 1871; *Thalpochares albida* var. *gratissima* Staudinger, 1892; *Thalpochares transmittens* Christoph, 1893; *Porphyrinia albida* var. *peralba* Schawerda, 1924; *Porphyrinia albida* f. *peralbida* Turati & Krüger, 1936]

**Iranian records:** Kordestan, Kermanshah <sup>[10]</sup>

***Eublemma argentifera* Hacker & Fibiger, 2002**

*Eublemma argentifera* Hacker & Fibiger, 2002, *Esperia* **9**: 264. L. t.: Iran, Khorasan.

**Iranian record:** Khorasan <sup>[13]</sup>

***Eublemma apicipunctalis* (Brandt, 1939)**

*Porphyrinia apicipunctalis* Brandt, 1939, *Ent. Rdsch.* **56**: 244. L. t.: Iran, Sistan va Balouchestan, Lorestan.

[Synonymy: *guichardi* Wiltshire, 1977]

**Iranian records:** Sistan va Balouchestan, Lorestan <sup>[3]</sup>

***Eublemma boursini* (Bytinski-Salz & Brandt, 1937)**

*Porphyrinia boursini* Bytinski-Salz & Brandt, 1937, *Entomologist's Rec. J. Var.* **49**: (6). L. t.: Iran, Tehran, Karaj.

**Iranian records:** Tehran <sup>[5]</sup>, Sistan va Balouchestan.

***Eublemma caelestis* (Brandt, 1938)**

*Porphyrinia caelestis* Brandt, 1938, *Ent. Rdsch.* **55**: 558. L. t.: Iran, Fars.

**Iranian records:** Fars <sup>[2]</sup>, Kerman.

***Eublemma candidana* (Fabricius, 1794)**

*Phalaena candidana* Fabricius, 1794, *Ent. Syst.* **3** (2): 245. L. t.: France.

[Synonymys: *minuta* Hubner, [1809]; *perlana* Geyer, [1830]; *skafiota* Herrich-Schaffer, 1851; var. *impure* Staudinger, 1871; f. *cantabrica* Rössler, 1877]

**Iranian record:** Fars <sup>[10]</sup>

***Eublemma chlorotica* (Lederer, 1858)**

*Thalpochares chlorotica* Lederer, 1858, *Wien Ent. Monatschrift* **2**: 144. L. t.: Lebanon.

**Iranian records:** Kordestan, Fars <sup>[10]</sup>

***Eublemma cochylionides* (Guenee, 1852)**

*Micra cochylionides* Guenee, 1852, *In Bsd. & Gn. Hist. Nat. Ins. Noct.* **2**: 245. L. t.: France.

[Synonymys: *rosita* Guenee, 1852; *phoenissa* Lederer, 1855; var. *calida* Rebel, 1894; *confuscata* Warren, 1913]

**Iranian record:** Fars <sup>[10]</sup>

***Eublemma conistrotata* Hampson, 1910**

*Eublemma conistrotata* Hampson, 1910, *Cat. Lep. Phal. Br. Mus.* **10**: 192. L. t.: Balouchestan, Queta.

**Iranian record:** Sistan va Balouchestan <sup>[16]</sup>, Fars.

***Eublemma draudti* (Bytinski-Salz & Brandt, 1937)**

*Porphyrinia draudti* Bytinski-Salz & Brandt, 1937, *Entomologist's Rec. J. Var.* **49**: (5). L. t.: Iran, Tehran, Karaj.

**Iranian records:** Tehran <sup>[5]</sup>, Fars, Khuzestan <sup>[10]</sup>

***Eublemma fugitiva* (Christoph, 1877)**

*Thalpochares fugitiva* Christoph, 1877, *Horae Soc. Ent. Ross.* **12**: 253. L. t.: Iran, Golestan, Shahroud.

**Iranian record:** Golestan <sup>[7]</sup>

***Eublemma hansa* (Herrich-Schaffer, 1851)**

*Micra hansa* Herrich-Schaffer, 1851, *Syst. Bearb. Schmett. Eur.* **2**: 436. L. t.: Southern Russia.

**Iranian record:** North of Iran <sup>[15]</sup>

***Eublemma jocularis* (Christoph, 1877)**

*Thalpochares jocularis* Christoph, 1877, *Horae Soc. Ent. Ross.* **12**: 245. L. t.: Iran, Golestan, Shahroud.

**Iranian record:** Golestan <sup>[7]</sup>, Tehran, Kordestan, Kermanshah, Zanjan <sup>[10]</sup>

***Eublemma keyserlingi* (Bienert, 1869)**

*Thalpochares keyserlingi* Bienert, 1870, *Lep. Ergebnisse Reise in Persien in den Jahren 1858 und 1859*: 36. L. t.: Iran.

**Iranian record:** Tehran <sup>[1]</sup>

***Eublemma leucota* Hampson, 1910**

*Eublemma leucota* Hampson, 1910, *Cat. Lep. Phal. Br. Mus.* **10**: 154. L. t.: Iran, Hormozgan, Bandar Abbas.

**Iranian records:** Hormozgan <sup>[16]</sup>, Sistan va Balouchestan.

***Eublemma lutosa* (Staudinger, 1891)**

*Thalpochares suppura* var. *lutosa* Staudinger, 1891; 320, L. t.: Syria.

synonymy *substrigula* Staudinger, 1891

**Iranian record:** North of Iran <sup>[15]</sup>

***Eublemma microptera* (Brandt, 1939)**

*Porphyrinia microptera* Brandt, 1939, *Ent. Rdsch.* **56**: 243. L. t.: Iran, Balouchestan.

**Iranian records:** Sistan va Balouchestan <sup>[3]</sup>, Fars, Kerman.

***Eublemma munda* (Christoph, 1884)**

*Thalpochares munda* Christoph, 1884, *In Romanoff Mem. Lep.* **1**: 131. L. t.: Achal Tekke.

**Iranian records:** Tehran, Kordestan, Lorestan, Zanjan, Kermanshah <sup>[10]</sup>

***Eublemma murati* (Brandt, 1939)**

*Porphyrinia murati* Brandt, 1939, *Ent. Rdsch.* **56**: 243. L. t.: Iran, Sistan va Balouchestan.

**Iranian records:** Sistan va Balouchestan [3], Hormozgan.

***Eublemma nives* (Brandt, 1938)**

*Porphyrinia nives* Brandt, 1938, *Ent. Rdsch.* **55**: 559. L. t.: Iran, Fars.

**Iranian record:** Fars <sup>[2]</sup>

***Eublemma ostrina* (Hubner, [1808])**

*Noctua ostrina* Hubner, [1808], *Samml. Eur. Schmett. Noct.* **2** und **3**, Taf. 85, Fig. 399. L. t.: Europe.

[Synonymys: *carthami* Herrich-Schaffer, 1851; *thasia* Koutsaftikis, 1973]

**Iranian records:** Fars, North and South of Iran <sup>[10]</sup>.

***Eublemma pallidula* (Herrich-Schaffer, 1856)**

*Micra pallidula* Herrich-Schaffer, 1856, *Syst. Bearb. Schmett. Eur.* **6**: 178. L. t.: Europe.

[Synonymys: *f. cypriaca* Staudinger, 1878; *var. mardina* Staudinger, 1901; *khalifa* Wiltshire, 1961; *nejdi* Wiltshire, 1961]

**Iranian records:** Fars <sup>[10]</sup>, Sistan va Balouchestan.

***Eublemma parallela* (Freyer, 1842)**

*Anthophila parallela* Freyer, 1842, *Neuere Beitr. Schmett.* **4**: 123, Tab. 360, fig. 2. L. t.: Sarepta.

[Synonymys: *concinula* Herrich-Schaffer, 1851; *ab. densata* Warren, 1912]

**Iranian records:** Mazandaran, Tehran <sup>[10]</sup>.

***Eublemma parva* (Hubner, [1808])**

*Noctua parva* Hubner, [1808], *Samm. Eur. Schmett. Noct.* **2**: Taf. 77. Fig. 354. L. t.: Europe.

**Iranian records:** Tehran, Kordestan, Lorestan, Fars, Kermanshah, Sistan va Balouchestan <sup>[10]</sup>.

***Eublemma ronkayorum* Fibiger & Hacker, 2002**

*Eublemma ronkayorum* Fibiger & Hacker, 2002, *Esperiana* **9**: 263. L. t.: Turkmenistan, Tajikistan.

**Iranian record:** Khorasan <sup>[13]</sup>.

***Eublemma parvoides* (Brandt, 1939)**

*Porphyrinia parvoides* Brandt, 1939, *Ent. Rdsch.* **56**: 244. L. t.: Sistan va Balouchestan.

**Iranian records:** Hormozgan, Sistan va Balouchestan <sup>[3]</sup>.

***Eublemma pseudepistrotia* (Brandt, 1938)**

*Porphyrinia pseudepistrotia* Brandt, 1938, *Ent. Rdsch.* **55**: 559. L. t.: Iran, Fars.

**Iranian record:** Fars <sup>[2]</sup>.

***Eublemma pseudoviridis* (Brandt, 1939)**

*Porphyrinia pseudoviridis* Brandt, 1939, *Ent. Rdsch.* **56**: 242. L. t.: Iran.

**Iranian records:** Fars, Sistan va Balouchestan <sup>[3]</sup>.

***Eublemma purpurina* ([Denis & Schiffermuller], 1775)**

*Noctua purpurina* [Denis & Schiffermuller], 1775, *Ank. Eines. Syst. Werkes von den Schmett der Wienergegend*: 88. L. t.: Austria.

[Synonymy: *var. secunda* Staudinger, 1901]

**Iranian record:** North of Iran <sup>[15]</sup>.

***Eublemma pusilla* (Eversmann, 1837)**

*Erastria pusilla* Eversmann, 1837, *Bull. Soc. Imp. Nat. Moscow* **1837**: 50. L. t.: Orenburg.

synonymy *proxima* Fischer de Waldheim, 1840

**Iranian record:** Northwest of Iran <sup>[15]</sup>.

***Eublemma respersa* (Hubner, 1790)**

*Phalaena Noctua respersa* Hubner, 1790, *Beitr. Gesch. Schmett.* **2** (1): 14, Taf. 2, Fig. H. L. t.: Germany.

[Synonymys: *amoena* Hübner, [1803]; *grata* Treitschke, 1826]

**Iranian record:** North of Iran <sup>[15]</sup>.

***Eublemma rosina sinuata* (Schwingenschuss, 1938)**

*Porphyrinia rosina sinuata* Schwingenschuss, 1938, *Ent.*

*Rdsch.* **55**: 412. L. t.: Turkey.

**Iranian record:** Fars <sup>[10]</sup>.

***Eublemma siticuosa* (Lederer, 1858)**

*halpochares siticuosa* Lederer, 1858; *Wien. ent. Monats.* **2** (5): 145, pl. 3, f. 2. L. t.: Syria.

[Synonymy: *var. albina* (Staudinger, 1898)]

**Iranian records:** Tehran, Kordestan <sup>[10]</sup>.

***Eublemma pallidula squalida* (Staudinger, 1879)**

*Thalpochares squalida* Staudinger, 1879, *Horae Soc. Ent. Ross* **14**: 413. L. t.: N Iran.

**Iranian record:** North of Iran <sup>[15]</sup>.

***Eublemma straminea* (Staudinger, 1892)**

*Thalpochares straminea* Staudinger, 1892, *Dt. Ent. Z. Iris* **4**: 322. L. t.: Turkey.

**Iranian record:** Northwest of Iran <sup>[15]</sup>.

***Eublemma taftana* (Brant, 1941)**

*Porphyrinia taftana* Brant, 1941, *Mitt. Munch. Ent. Ges.* **31**: 854. L. t.: Iran, Sistan va Balouchestan.

**Iranian record:** Sistan va Balouchestan <sup>[4]</sup>, Kerman.

***Eublemma thermobasis* Hampson, 1910**

*Eublemma thermobasis* Hampson, 1910, *Cat. Lep. Phal. Br. Mus.* **10**: 135. L. t.: Yemen.

**Iranian record:** South of Iran <sup>[15]</sup>.

***Eublemma uniformis* (Staudinger, 1897)**

*Thalpochares uniformis* Staudinger, 1897, *Horae Soc. Ent. Ross.* **14**: 414. L. t.: Iran, Golestan, Shahrud.

**Iranian records:** Golestan <sup>[29]</sup>, Azarbaijan-e-Gharbi, Fars, Kordestan <sup>[10]</sup>.

***Eublemma wagneri* (Herrich-Schaffer, 1851)**

*Micra wagneri* (Herrich-Schaffer, 1851, *Syst. Bearb. Schmett. Eur.* **2**: 441. L. t.: Turkey.

[Synonymy: *ochreola* Staudinger, 1900]

**Iranian records:** Kordestan, Hormozgan <sup>[10]</sup>.

***Eublemma aureola* Fibiger & Hacker, 2002**

*Eublemma aureola* Fibiger & Hacker, 2002, *Esperiana* **9**: 262. L. t.: Iran, Turkey.

**Iranian records:** Tehran, Kordestan, Mazandaran <sup>[13]</sup>.

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