

CATALOGUE OF THE FAMILY DRYOMYZIDAE (DIPTERA) OF CHINA

Muhammad Asghar Hassan*, Noor Fatima and Ding Yang

* Department of Entomology, China Agricultural University, Beijing, CHINA. E-mail: kakojan112@gmail.com

[Hassan, M. A., Fatima, N. & Yang, D. 2019. Catalogue of the family Dryomyzidae (Diptera) of China. Munis Entomology & Zoology, 14 (2): 626-628]

ABSTRACT: A present catalogue of the family Dryomyzidae attempts to all known species (5) including the new country records, *Dryomyza pakistana* Kurahashi, 1989 is updated for the mainland of China. The valid name of all known species for China, their synonyms and distribution including the photographs of new records are provided.

KEY WORDS: Dryomyzidae, *Dryomyza pakistana*, China, new record

The family Dryomyzidae (Diptera: Insecta) comprises about 25 valid species in 8 genera, including 2 fossil genera, each having single species (*Palaeotimia* Meunier, 1908 and *Prodryomyza* Hennig, 1908) and 2 fossil species under genus *Dryomyza* Fallén, 1820, mainly distributed in the northern hemisphere (Mathis & Sueyoshi, 2011). According to the most recent catalog of Dryomyzidae (Mathis & Sueyoshi, 2011), this family comprises four species from the Oriental and Palearctic region of China; genus *Paradryomyza* Ozerov, 19873 includes only one species from Oriental and three species of genus *Dryomyza* Fallén from the Palearctic region. The genus *Paradryomyza* Ozerov currently includes 4 species while *Dryomyza* Fallén comprises 12 species in the world, mainly distributed in the Palearctic region.

Here, we have presented the new record of Palearctic species of the genus *Dryomyza* Fallén, *Dryomyza pakistana* Kurahashi, 1989 from Guizhou Province of China. Now, the geographical range of this species extended from the Indo-Pak subcontinent (India and Pakistan) to the mainland of China.

MATERIALS AND METHODS

This catalogue covers all the valid species of this ground known from China, based on the previous references' literature and present collection of new records from, Guizhou Province, Jiangkou, Fanjingshan, 1600-1800m. The specimens were identified by the help Kurahashi (1989) and Wachkoo et al. (2017). The identified specimens are deposited at Department of Entomology, China Agricultural University, Beijing. An alphabetical arrangement of genera and species are presented hitherto from China. For the generic classification "World catalog and conspectus on the family Dryomyzidae (Diptera: Schizophora)" (Mathis & Sueyoshi, 2011) was followed. Photographs were taken by using Zeiss SteREO Discovery V12 microscope and the figures were cleaned with Adobe Photoshop CS6.

RESULTS AND DISCUSSION

During the present study the species list of family Dryomyzidae are updated from China. A total of 5 species are listed, including one fossil taxa and one new record for the mainland of China. Before Mathis and Sueyoshi (2011), world

catalog of family Dryomyzidae, only a single species, *Neuroctena formosa* (Wiedemann, 1830), was listed from Zhejiang and Hunan provinces of China, and Taiwan (Hua, 2006; List of Chinese Insects, Vol. IV; 159). Later, Mathis and Sueyoshi (2011) added four species to the list for family Dryomyzidae of China. Here we have recorded *Dryomyza pakistana* Kurahashi, 1989 as new record for the fauna of China. This species was previously known from Pakistan (Punjab: Murree; Khyber Pakhunkhawa: Ayubia, Dungagali and Nathiagali, 2000-2500 m; Azad Jammu and Kashmir: Banjosa, 1829 m) and India (Jammu and Kashmir: Srinagar, Kashmir University Botanical Garden, 1600-1640 m). The detail description (Kurahashi, 1989) and diagnosis of this species are provided by (Wachkoo et al., 2017; Hassan et al., 2018). Here, we have provided the detail diagnostic characters on the photographs of lateral and dorsal habitus (Figs. 1A-B) of this species.

Catalogue

Family Dryomyzidae Subfamily Dryomyzinae Genus *Dryomyza* Fallén, 1820

Synonyms: *Dryomyza* Fallén, 1820a: 15. Type species: *anilis* Fallén, by subsequent designation (Zetterstedt 1846: 2082); *Neuroctena Rondani*, 1868: 56; *Neuroctena (Stenodryomyza)* Hendel, 1924: 214; *Stenodryomyza* Hendel, 1937: 186.

Dryomyza formosa Wiedemann, 1830

Synonyms: *Dryomyza formosa* Wiedemann, 1830; *Scatophaga formosa* Wiedemann, 1830: 447; *Dryomyza maculipennis* Macquart, 1851: 246; *Dryomyza formosa* Loew 1858: 112; *Dryomyza gigas* Snellen von Vollenhoven, 1862: 18; *Eggizoneura formosa* Coquillett 1898: 339; *Neuroctena (Stenodryomyza) formosa* Hendel 1924: 214; *Stenodryomyza formosa* Czerny 1930: 5.

Distribution: Oriental: India, Taiwan, Vietnam. **Palaeartic:** China, Japan, Korea, Russia (Hua, 2006; Mathis & Sueyoshi, 2011).

Dryomyza pakistana Kurahashi, 1989

Synonyms: *Dryomyza pakistana* Kurahashi, 1989: 44.

Material Examined: China: Guizhou Prov., Jiangkou, Fanjingshan, 1600-1800 m, 2♂, 2♀, 7.x.18, leg. (4m, China Agricultural University, Beijing), Zhengkun Hu.

Distribution: Oriental: Pakistan, India (Kurahashi, 1989; Mathis & Sueyoshi, 2011; Wachkoo et al., 2017).

Dryomyza puellaris Steyskal, 1957

Synonyms: *Dryomyza puellaris* Steyskal, 1957: 65.

Distribution: Palaeartic: China: Szechwan: Suifu (Sichuan) (Mathis & Sueyoshi, 2011).

Dryomyza shanwangensis Zhang, 1989

Synonyms: *Dryomyza shanwangensis* Zhang, 1989: 364.

Distribution: Palaeartic: China: Fossil species; China. Shandog: Shanwang (Mathis & Sueyoshi, 2011).

Genus *Paradryomyza* Ozerov, 1987

Synonyms: *Paradryomyza* Ozerov, 1987: 38. Type species: *Odontomera setosa* Bigot, by original designation.

***Paradryomyza orientalis* Ozerov & Sueyoshi, 2002**

Synonyms: *Paradryomyza orientalis* Ozerov & Sueyoshi, 2002: 564.

Distribution: Oriental: Taiwan. Taichun xian: Hoping xiang, Suchilanchi (Ozerov & Sueyoshi, 2002; Mathis & Sueyoshi, 2011).

ACKNOWLEDGEMENTS

The authors would like to acknowledge Dr. Hiromu Kurahashi (Department of Medical Entomology, National Institute of Infectious Diseases, Tokyo 162-8640, Japan) and Dr. Aijaz Ahmad Wachkoo (Department of Zoology, University of Kashmir, Srinagar, Jammu and Kashmir, India) for the confirmation of the species. Special thanks to Dr. Zhengkun Hu for providing us the specimens new records for this study.

LITERATURE CITED

- Hassan, M. A., Bodlah, I., Ali, M. & Gull-e-Fareen, A.** 2018. First record of *Dryomyza pakistana* Kurahashi, 1989 (Diptera: Dryomyzidae) from Poonch district, Azad Kashmir, Pakistan. *Plant Protection*, 2 (1): 7-8.
- Hua, L. Z.** 2006. List of Chinese Insects. Vol. IV. Sun Yat-sen University Press, Guangzhou. 540 pp.
- Kurahashi, H.** 1981. A revision of the genus *Dryomyza* (Diptera, Dryomyzidae) from Japan. *Kontyu*, 49: 437-444.
- Kurahashi, H.** 1989. A new species of *Dryomyza* (Diptera: Dryomyzidae) from Pakistan. *Proceedings of the Japanese Society of Systematic Zoology. The Japanese Society of Systematic Zoology*, pp. 43-47.
- Mathis, W. N. & Sueyoshi, M.** 2011. World catalog and conspectus on the family Dryomyzidae (Diptera: Schizophora). *Myia*, 12: 207-233.
- Ozerov, A. L. & Sueyoshi, M.** 2002. Two new species of *Paradryomyza* Ozerov (Diptera, Dryomyzidae) from Asia. *Studia dipterologica*, 8 (2): 563-570.
- Steyskal, G. C.** 1957. A revision of the family Dryomyzidae (Diptera, Acalyptatae). *Pap. Mich. Acad. Sci. Arts Lett.* (1956), 42: 55-68.
- Wachkoo, A. A., Kurahashi, H., Khurshid, N. & Akbar, S. A.** 2017. First record of *Dryomyza pakistana* Kurahashi, 1989 (Diptera, Dryomyzidae) from India. *Oriental Insects*, 52 (1): 96-100.

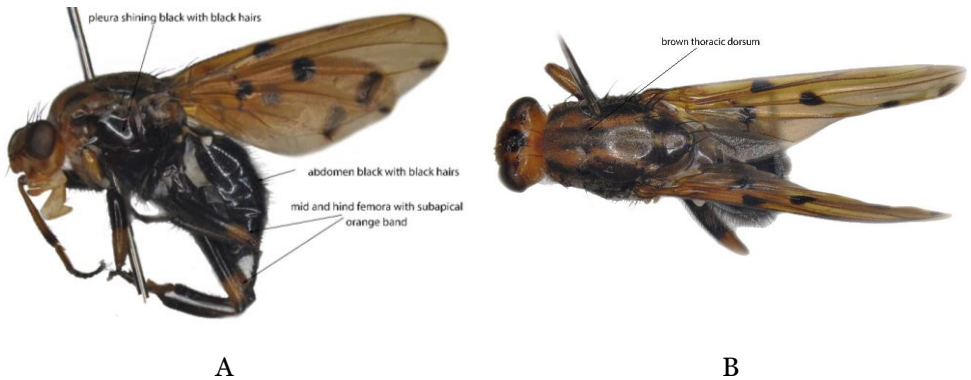


Figure 1. *Dryomyza pakistana* Kurahashi, 1989. Photo: M. A. Hassan: A; Lateral habitus, B; dorsal habitus.