

New Distribution Record of Halophilic Psammotettix Leafhopper (Auchenorrhyncha, Cicadellidae, Deltocephalinae) from Japan

Kamitani, Satoshi
Entomological Laboratory, Faculty of Agriculture, Kyushu University

<https://doi.org/10.5109/1517834>

出版情報 : ESAKIA. 54, pp.103-104, 2014-03-31. Entomological Laboratory, Faculty of
Agriculture, Kyushu University
バージョン :
権利関係 :

New Distribution Record of Halophilic *Psammotettix* Leafhopper (Auchenorrhyncha, Cicadellidae, Deltocephalinae) from Japan

Satoshi KAMITANI

Entomological Laboratory, Faculty of Agriculture,
Kyushu University, Fukuoka, 812-8581 Japan

Abstract. A halophilic leafhopper, *Psammotettix koreanus* (Matsumura, 1915), was newly recorded from Honshu, Shikoku and Kyushu, Japan.

Key words: *Psammotettix*, *Carex*, new record, endangered species, sand dune vegetation.

The Japanese halophilic *Psammotettix* leafhopper, which had been identified as *P. maritimus* (Perris, 1857), was correctly identified as *P. kurilensis* Anufriev, 1976 (Kamitani 2011). It is an endangered species designated by Red List 2012 (Ministry of the Environment of Japan), because the habitat of this leafhopper, sand dune vegetation predominant to *Carex kobomugi* Ohwi (Cyperaceae), has been significantly disturbed. The leafhoppers identified as *P. kurilensis* by Kamitani (2011) had been recognized as the geographical variation in some important morphological characters: coloration, shape of body and male genitalia. In the course of my taxonomic investigation, it is revealed that the specimens from western Japan must be identified as *P. koreanus* (Matsumura, 1915).

Psammotettix koreanus (Matsumura, 1915)

This species is distinguishable from *P. kurilensis* by the following morphological features: relatively slender body, long fore wing, small black and brown markings on fore wing, and shape of large apical lobe of aedeagal shaft. Although this species had been recorded from Sugadaira Highlands, Nagano Prefecture, by Hayashi & Higashikawa (1997), the specimens are very similar to this species in the appearance but that is a misidentification of *P. striatus* (Linnaeus, 1758). As a result, *P. koreanus* is new to Japan.

All specimens, which have the large apical lobe of aedeagal shaft and were collected from sandy beach of western Honshu, Shikoku and Kyushu are identical to this species. *Specimens examined.* [Honshu] 4♂ 7♀,

Nijigahama, Hikari, Yamaguchi Pref., 25.X.2008, N. Ohara & K. Kogure; 2♂, same locality, 18.VIII.2009, S. Kamitani. [Shikoku] 16♂ 15♀, Tsukigahama, Toyohisa, Matsushige, Tokushima Pref., 3.XII.2007, M. Hayashi; 2♂ 3♀, same locality, 20.IX.2008, K. Ôhara; 17♂ 18♀, same locality, 26.X.2008, M. Hayashi; 4♂ 2♀, Komatsu Beach, Kawauchi, Tokushima, Tokushima Pref., 30.X.2004, M. Hayashi; 16♂ 15♀, same data except 3.XII.2007; 17♂ 10♀, same locality, 21.IX.2008, K. Ôhara; 2♂ 1♀, Kami-Fukui, Nakagawa, Anan, Tokushima Pref., 26.X.2008, M. Hayashi; 5♂ 2♀, Awashima Beach, Hari-cho, Anan, Tokushima Pref., 29.X.2004, M. Hayashi; 122♂ 118♀, 26.X.2008, M. Hayashi; 7♂ 8♀, same locality, 10.I.2010, K. Ôhara; 2♀, same locality, 20.III.2010, M. Hayashi. [Kyushu] 1♀, Uminonakamichi, Fukuoka, Fukuoka Pref., 5.X.2003, S. Kamitani; 58♂ 43♀, Imazunagahama, Fukuoka, Fukuoka Pref., 31.X.2003, S. Kamitani; 9♂ 14♀, same data except 2.XII.2003; 19♂ 43♀, Nogita, Shima, Fukuoka Pref., 2.XII.2003, S. Kamitani; 1♂, Ichiki, Ichiki-Kushikino, Kagoshima Pref., 15.V.2005, S. Kamitani; 3♂ 6♀, Iriki-hama, Fukiage, Hioki, Kagoshima Pref., 13.VIII.2009, K. Ôhara; 12♂ 30♀, same data except 29.XII.2009.

Acknowledgements

I would like to express my sincere thanks to Prof. M. Hayashi (Saitama University) for his useful information and to Mr. K. Ôhara (formerly, Tokushima Prefectural Museum) for offering valuable material.

References

- Hayashi, M. & Higashikawa, O., 1997. Homoptera-Auchenorrhyncha and Heteroptera (Insecta, Rhynchota) from Sugadaira, Central Honshu, Japan. *Bulletin of Sugadaira Montane Research Center*, **14**:15-56.
- Kamitani, S., 2011. Correction of a misidentification of the Japanese halophilic *Psammotettix* leafhopper (Auchenorrhyncha: Cicadellidae: Deltocephalinae), with new collecting records from Kyushu, Japan. *Rostria*, (53): 1-4.