

Brief report

Studies on the Heteroptera of the Khorasan province in N.E. Iran. III. Cimicomorpha: Tingidae and Pentatomorpha: Berytidae

Rauno E. Linnavuori & Mehdi Modarres

Linnavuori, R. E. & Modarres, M. 1999: Studies on the Heteroptera of the Khorasan province in N.E. Iran. III. Cimicomorpha: Tingidae and Pentatomorpha: Berytidae. — Entomol. Fennica 10: 233–234.

A list of the Tingidae and Berytidae of the Khorasan province in N.E. Iran is published.

Rauno E. Linnavuori, Saukkokuja 10, Somersoja, FIN—21220 Raisio, Finland
Mehdi Modarres, College of Agriculture, Ferdowsi University, P.O. Box 91775—1163, Mashhad, Iran

Received 20 May 1999, accepted 9 September 1999

1. Introduction

The present article is a continuation of Parts I and II (Linnavuori & Modarres 1998: 237–241, and 1999: 215–231). It is based on material collected by the senior author from April to July 1994 and May 1996 in Khorasan. The expeditions were made in cooperation with the College of Agriculture of the Ferdowsi University in Mashhad and the Plant Pests and Diseases Research Institute in Evin.

2. Material and methods

Collecting trips were made to the areas mentioned in Part I. The material collected consisted of 16 species of Tingidae and 6 species of Berytidae were found. Two species of are new for Iran. For nomenclature and distribution, the Catalogue of the Heteroptera of the Palaearctic Region II (Aukema & Rieger 1996) and the monographs of the Tingidae and Berytidae by Péricart (1983 and 1984) were consulted.

The material collected is preserved in the Linnavuori collection, the College of Agriculture of the Ferdowsi University, Mashhad, and the Plant Pests and Diseases Research Institute in Evin, Tehran. The material was collected by Rauno Linnavuori, if no other collector is mentioned.

3. List of species

Cimicomorpha

Tingoidea

Tingidae

Tinginae

Campylosteira heissi Péricart, 1981. — Lotfabad, 1 ex, 16.VI.1994. — Collected in light trap. — Eremian, known from Spain, the Sudan, Saudi Arabia, Iraq, and Iran.

Dictyonota opaca (Linnavuori, 1965). — Kahe 30–60 km W of Kashmar, 1 ex, 21–22.VI.1994. — On Chenopodiaceae in a steppe. — Eremian, known from Algeria, Yemen, Saudi Arabia, Palestine, Iraq, Iran, and Turkmenistan.

Galeatus scrophicus Saunders, 1876. — Near Tabas, 3 exx., 14–17.IV and 16–15.V.1994. — On Asteraceae such as *Helianthus* sp. and *Chrysanthemum* sp. — Holomediterranean, extending to Middle and Central Asia and the Ethiopian and Oriental Regions.

Tingis (Tingis) leptochila Horváth, 1906. — Parvand 70–80 km W of Sabzevar, 1 ex, 31.V–1.VI.1994; Zoshk near Shandiz 40 km W of Mashhad, 6 exx., 24.V.1994. — In steppes and hilly meadows. Irano—Turanian.

Tingis (Tingis) auriculata (Costa, 1847). — Khalkanlod 30 km E of Quchan, 2 exx., 7.VI.1994; Zaman Soofi 65

km W of Bojnurd, 2 exx., 12–13.VII.1994; Zard 100 km W of Bojnurd, 2 exx., 13.VII.1994. — On Apiaceae in hilly meadows. — Holomediterranean, extending to Middle Asia.

Tingis (Neolasiotropis) reuteri Horváth, 1906. — Shourlogh 35 km SW of Sarakhs, 2 exx., 30.IV.1994. — In a hilly meadow. In Middle Asia found on *Lamium album*. — Irano-Turanian.

Tingis (Neolasiotropis) pauperata (Puton, 1879). — Golestan Park 150 km W of Bojnurd, 1 ex, 14.VII.1994. — Holomediterranean, extending to Central Asia.

Catoplatus citrinus Horváth, 1897. — Many exx. from Darreh Gaz, 15.VI.1994; Deh Shor 25 km N of Tabas, 16.V.1994; Efine near Esfideh, 20.IV.1994; Lotfabad, 15.VI.1994; Parvand 70–80 km W of Sabzevar, 31.V–1.VI.1994; Sarakhs, 29–30.IV.1994. — On *Lycium depressum* in dry steppes. — Irano-Turanian.

Copium teucris iranum Wagner, 1969. — Near Bosruyeh, several exx., 14.V.1994; Tabas, 1 ex, 16–18.V.1994. — On *Teucrium polium* in hilly steppes. — Endemic for Iran.

Monosteira uncostata (Mulsant & Rey, 1852). — Many exx. from Anbaran, 11.VII.1994; Darreh Gaz, 15.VI.1994; Lake Bazangan 50 km W of Sarakhs, 30.VI.1994; Nodeh 30–40 km ESE of Bojnurd, 11.VII.1994; Mashhad, V–VII.1994; Sabzevar, 3.VII.1994. — On *Populus alba*. — Holomediterranean.

Monosteira discoidalis (Jakovlev, 1883). — Lake Bazangan 50 km W of Sarakhs, 1 ex, 30.VI.1994; Mashhad, 1 ex, V–VII.1994; Sarakhs, 1 ex, 29–30.IV.1994. — On *Populus* sp. — Irano-Turanian.

Monosteira inermis Horváth, 1899. — Kahe 30–60 km W of Kashmar, 1 ex, 21–22.VI.1994; Parvand 70–80 km W of Sabzevar, 31.V–1.VI.1994. — Previously known from Middle Asia. New for Iran.

Agramma laetum (Fallén, 1807). — Nodeh, 30–40 km ESE of Bojnurd, several exx., 11.VII.1994. — On *Juncus* sp. in a moist meadow in the shore of a brook. — Euro-Siberian.

Agramma minutum Horváth, 1874. — Fars: Zarqan, Bamon Nat.Park, alt. 1650 m, 13–14.VI.1996. — On *Juncus* sp. in the shore of a mountain brook. — Pontomediterranean, extending to Central Asia. New for Iran.

Agramma atricapillum (Spinola, 1837). — Lake Bazangan 50 km W of Sarakhs, many exx., 30.VI.1994. — On *Juncus* sp. in moist meadows. — Holomediterranean, extending to Central Asia.

Urentius nanus (Schumacher, 1913). — Tabas — Deh Shor, 1 ex, 16–17.IV.1994. — On *Prosopis farcta* in a salt marsh. — Eremian, extending from Algeria to Iran.

Pentatomorpha

Berytidae

Berytinae

Berytinus (Berytinus) hirticornis (Brullé, 1835). — Golmakan Park, 150 km W of Bojnurd, 1 ex, 14–17.VII.1994.

— On undergrowth in a deciduous forest. — Holomediterranean.

Berytinus (Licinus) distinguendus (Ferrari, 1874). — Mashhad, 1 ex, 11.III.1994, M. Modarres; Zaman Soofi 65 km W of Bojnurd, 1 ex, 12–13.VII.1994; Zard 105 km W of Bojnurd, 3 exx., 13.VII.1994. — On *Juniperus excelsa*. — Holomediterranean.

Neides brevipennis Puton, 1895. — Mashhad, 1 ex, 18.VI.1989, M. Modarres. — Pontomediterranean.

Neides afghanus Seidenstücker, 1968. — 70 km W of Darreh Gaz, 1 ex, 14.VI.1994; Khargh 70 km SW of Quchan, 1 ex, 8–9.VI.1994. — In mountain meadows. — Known from Turkey, Iran and Afghanistan.

Metacanthinae

Metacanthus meridionalis (Costa, 1844). — Anbaran, 3 exx., 19.VII.1994; Golmakan, 2 exx., 10.V.1994. — On *Epilobium* sp. in hilly meadows. — Holomediterranean.

Gampsocoris enslini Seidenstücker, 1953. — Golestan Park 150 km W of Bojnurd, 1 ex, 14.VII.1994. — On undergrowth in a deciduous forest. — Pontomediterranean.

Acknowledgements. The authors are greatly indebted to the Dean, Dr. H.M. Rashed and other members of the Faculty of Agriculture of the Ferdowsi University for all cooperation received during the expedition. We thank the Finnish Society of Sciences and Letters, Helsinki, for financial help.

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