

NEW SYNONYMY FOR *TENTHREDO ABDOMINALIS* (MATSUMURA) (HYMENOPTERA: TENTHREDINIDAE)

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Abstract

Two subspecies i.e. *Tenthredo sortitor brunneicornis* Malaise and *Tenthredo sortitor brunneipennis* Malaise are suppressed into synonymy to *Tenthredo abdominalis* (Matsumura). The exactly similar external genitalia and other morphological characters barring certain insignificant variations mainly pertaining to colour and sculpture confirm their status as the junior synonyms.

Keywords

Synonymy, *Tenthredo sortitor brunneicornis*,
Tenthredo sortitor brunneipennis, *Tenthredo abdominalis*

Introduction

The studies on the type materials and determined specimens of subspecies of *Tenthredo* Linnaeus together with the examination of external genitalia and on the basis of their sympatric distribution (i.e. availability of the taxa from the same locality) confirm the suppression of the two subspecies i.e. *Tenthredo sortitor brunneicornis* Malaise and *Tenthredo sortitor brunneipennis* Malaise, as the junior synonyms of *Tenthredo abdominalis* (Matsumura) which is given below. This species shows a high degree of sexual dimorphism. However the other minor colour and sculpture differences are taken as individual/population variations.

Tenthredo abdominalis (Matsumura)

Tenthredopsis abdominalis Matsumura, 1912: 44-45.

Tenthredo sortitor Malaise, 1938: 94; Malaise, 1945: 271; Singh & Saini, 1986: 79; Taeger & Blank, 1996: 267.

Tenthredo abdominalis Taeger & Blank, 1996: 267.

Tenthredo sortitor brunneicornis Malaise, 1945: 271. syn. nov.

Tenthredo sortitor brunneipennis Malaise, 1945: 272. syn. nov.

Material depository

Holotypes: Female (*Tenthredopsis abdominalis* Matsumura), untraceable; female (*Tenthredo sortitor* Malaise), NR, Stockholm; female (*Tenthredo sortitor brunneicornis* Malaise), ZNHM, Leningrad; female (*Tenthredo sortitor brunneipennis* Malaise), USNM, Washington, D.C., USA.

Paratypes: Female (*Tenthredopsis abdominalis* Matsumura), untraceable; 19 females (*Tenthredo sortitor* Malaise), 10 males (*Tenthredo sortitor* Malaise), NR, Stockholm.

Determined specimens: One female (*Tenthredo sortitor brunneicornis* Malaise), det. B. Singh, PUZM, Patiala; one female (*Tenthredo sortitor brunneipennis* Malaise), det. B. Singh, PUZM, Patiala; one female (*Tenthredo sortitor* Malaise), one male (*Tenthredo sortitor* Malaise), det. M.S. Saini, PUZM, Patiala; one female (*Tenthredopsis abdominalis* Matsumura), det. B. Singh, PUZM, Patiala.

Materials examined

Holotypes: Female (*Tenthredo sortitor brunneipennis* Malaise) appended with labels as: female, *Tenthredo sortitor brunneipennis* Malaise, R. Malaise, USNM, Washington, D.C., USA.

Paratypes: One female (*Tenthredo sortitor* Malaise) appended with labels as: female, *Tenthredo sortitor* Malaise, R. Malaise, NR, Stockholm; one male (*Tenthredo sortitor* Malaise) appended with labels as: male, *Tenthredo sortitor* Malaise, R. Malaise, NR, Stockholm.

Determined specimens: One female (*Tenthredo sortitor brunneicornis* Malaise) appended with labels as: female, 25.vii.1982, Kalatop, 2400m, coll. B. Singh, det. B. Singh, PUZM, Patiala; one female (*Tenthredo sortitor brunneipennis* Malaise) appended with labels as: female, 19.vii.1982, Khajjiar, coll. B. Singh, det. B. Singh, PUZM, Patiala; one female (*Tenthredo sortitor* Malaise) appended with labels as: female, 15.vi.1983,

Chopta, 2100m, det. M.S. Saini, coll. M.S. Saini; one male (*Tenthredo sortitor* Malaise) appended with labels as: male, 15.vi.1983, Chopta, 2100m, coll. M.S. Saini, det. M.S. Saini, PUZM, Patiala; one female (*Tenthredopsis abdominalis* Matsumura) appended with labels as: female, 23.v.1982, Kufri, 2500m, coll. M. S. Saini, det. B. Singh, PUZM, Patiala.

Specimens examined: Two females, 19.vii.1982, Khajjiar, Himachal Pradesh, coll. B. Singh; three females, 25.vii.1982, Kalatop, 2400m, coll. B. Singh; two females, one male, 23.v.1984, Kufri, 2500m, coll. M.S. Saini; two males, 25.v.1984, Narkanda, 2000m, coll. M.S. Saini; one female, one male, 1.vi.1984, Kothi, 2400m, coll. M.S. Saini; two females, 12.vi.1983, Mandal, Uttaranchal, 2100m, coll. M.S. Saini; one female, 15.vi.1983, Chopta, 2100m, coll. M.S. Saini; two females, 15.vi.1994, coll. V. Vasu. two females, 29.vi.1984, Jammu & Kashmir, Gulmarg, 2700m, coll. M.S. Saini. two females, 17.v.1995, Sikkim, Lachen, 2400m, coll. M.S. Saini; one female, one male, 18.v.1995, coll. V. Vasu.

Individual/population variations

Whitish spot on labrum in some females, narrow posterior margin of propodeum yellowish to pale; abdomen faintly cross-striated in some females; abdomen with few, inconspicuous punctures in some males; microsculpture on head sometimes faint in both sexes; anterolateral aspects of profemur dirty yellow to yellowish-brown in female.

Sexual dimorphism

This species show a significant degree of sexual dimorphism. The male of this species has the following characters in addition to its counter part that are: labrum with broad whitish spot, lateral spots of clypeus almost confluent, yellow spot on legs more distinct and covering anterior aspects of front four coxae and trochanters; entire profemur, mesofemur except basal 2/3 posteriorly, tip of femur and tibia of metaleg yellow, abdomen with deep, scattered punctures.

Distribution

Japan; India: Himachal Pradesh, Uttaranchal, Jammu & Kashmir, Sikkim.

Diagnosis

Taeger and Blank (1996) synonymized a species *Tenthredo sortitor* Malaise with *Tenthredo abdominalis* (Matsumura), but the taxonomic status of its subspecies i.e. *Tenthredo sortitor brunneicornis* Malaise and *Tenthredo sortitor brunneipennis* Malaise remained untreated. Following this work, I thoroughly examined the available material of the species and subspecies in question, and as a result I suppress both the subspecies of former into the synonymy to the latter.

The key character of the species *Tenthredo abdominalis* (Matsumura) is as follows: body black with strong metallic cyneous luster on abdomen. The other significant characters of taxonomic importance are: head strongly shining; antenna distinctly longer than head and thorax combined, 3x head width, flagellum distinctly compressed, scape and pedicel 5:2, segments 3 and 4 as 6:5; pronotal dorsal aspect pale; median fovea deep ditch-like and clearly reaching median ocellus; post-, inter-, circum furrows distinct, and lateral furrows quite deep and distinct; postocellar area wider than long as 2:1; mesepisternum obtusely raised; subapical tooth of tarsal claw shorter than apical one.

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