



Urytalpa chandleri sp. n. (Diptera: Keroplatidae) from Turkey, with a key to the Western Palaearctic species of the genus

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Abstract

Urytalpa chandleri **sp. n.** from southwest Asiatic Turkey is described and illustrated. *Platyura maritima* Becker is transferred to *Urytalpa* based on examination of the type specimen. A key to the Western Palaearctic species of *Urytalpa* is provided.

Key words: Keroplatidae, *Urytalpa*, Western Palaearctic, taxonomy, Turkey

Introduction

Urytalpa was described by Edwards (1929) as a subgenus of *Platyura* Meigen with the type species *Platyura ochracea* Meigen, 1818. Matile (1977) considered it as genus and this view is accepted in the modern system of Keroplatidae: Orfeliini (Evenhuis 2006). *Urytalpa* differs from other genera of Orfeliini by the following characters: mouthparts shorter than head; R4 ending in C; base of M absent; empodium absent; laterotergite bare; branches of M and CuA setose above; prothoracic spiracle without hairs; fine tibial setae irregularly arranged; A1 reaching wing margin.

The genus is known from only six species in the Western Palaearctic, five in the Eastern Palaearctic and one in Uttar Pradesh, Northern India (Bechev 2000; Uesugi 2004; Evenhuis 2006). Our objectives are to provide a key to the Western Palaearctic species of the genus, describe a new species from southwest Asiatic Turkey, transfer *Platyura maritima* Becker to *Urytalpa*, and augment the description of *Urytalpa nussbaumi* Chandler.

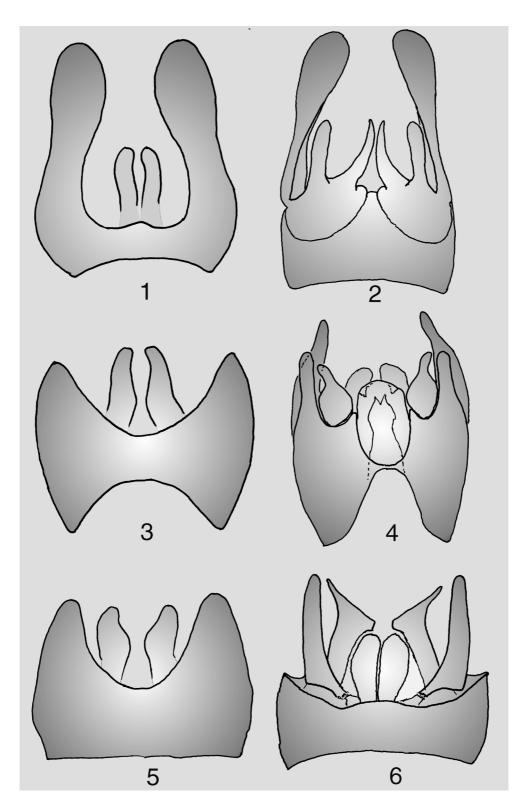
Material and methods

The material of the new species was collected using an aerial net, is preserved in alcohol and is deposited in the collection of University of Plovdiv. The male terminalia were studied in glycerol after maceration in warm potassium hydroxide (10% KOH).

Figures 1 to 12 are redrawn from literature as follows: Figs. 1, 3 and 7 from Edwards (1913); Figs. 9 and 10 from Lundström (1914); Figs. 2, 4 and 8 from Hutson *et al.* (1980); Figs. 11 and 12 from Chandler (1994); Figs. 5 and 6 from Chandler (1995). Setae are not shown.

Morphological terminology follows Søli et al. (2000).

Distribution of the Western Palaearctic species of the genus (Fig. 21) follows the information provided by the Fauna Europaea (Chandler, 2004).



FIGURES 1–6. Male terminalia: **1**. *Urytalpa macrocera*—dorsal view. **2**. *U. macrocera*—ventral view. **3**. *U. atriceps*—dorsal view. **4**. *U. atriceps*—ventral view. **5**. *U. rhapsodica*—dorsal view. **6**. *U. rhapsodica*—ventral view.

Key to males of the Western Palaearctic species of Urytalpa

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-	Antenna not longer than head and thorax together. Fore metatarsus distinctly shorter than tibia
2.	Costa extending $\frac{1}{3} - \frac{1}{2}$ of distance from tip of R5 to that of M1. Male terminalia—Figs. 3 and 4
-	Costa extending about ¼ or less of distance from tip of R5 to M1
3.	Abdomen black
-	Abdomen with yellow or yellow-brown markings or bands
4.	Distal margin of tergite 9 in great part convex, only medially with small emargination (Fig. 16). Male ter-
	minalia—Figs. 16 – 19
-	Distal margin of tergite 9 for the greater part emarginate
5.	Distal margin of tergite 9 with U-shaped emargination (Fig. 5). Male terminalia—Figs. 5 and 6
-	Distal margin of tergite 9 with trapezium-shaped emargination
6.	Gonostyle not prolonged more than gonocoxite (Fig. 8). Male terminalia—Figs. 7 and 8
_	Gonostyle prolonged more than gonocoxite (Figs. 10, 12)
7.	Distal margin of tergite 9 convex, only medially with trapezium-shaped emargination (Fig. 9). Apex of
	gonostyle inwardly directed (Fig. 10)
_	Distal margin of tergite 9 not convex, all with large trapezium-shaped emargination. (Fig. 11). Gonostyle
	outwardly directed (Fig. 12)

Urytalpa chandleri sp. n.

(Figs. 13-19)

Diagnosis. *U. chandleri* differs from other species of the genus in having a very characteristic hoe-shaped appendage of gonostyle (Fig. 17) and in convex distal margin of tergite 9 (Fig. 16) with small medial emargination.

Holotype male: Turkey, Aydın, Koçarlı, Tekeli Village (37°46′ N / 27°38′ E), 25 m a.s.l, 09.04.2005, leg. H. Koç (in University of Plovdiy).

Head (Fig. 13). Dark brown. Clypeus and mouthparts yellowish. Antenna about as long as head and thorax together, brownish yellow, only basal third of first flagellomere yellow. Flagellomeres 2 and 3 about 1,5 longer as broad. Terminal flagellomere with apical papilla.

Thorax. Scutum dark brown, paler laterally. Pleura and mediotergite brown, scutellum brown yellowish. Mesoscutal setae arranged in irregular rows of acrostichals and dorsocentrals and in rows of strong lateral setae. Antepronotum and proepisternum with setae. Antepisternum with small setae on upper part. Preepisternum, anepimeron, laterotergite and mediotergite bare. Anterior spiracle without bristles.

Legs. Yellow, tarsi brownish. Fore metatarsus shorter than fore tibia (about 0,7:1). Claws of the fore legs with two small spines below (visible at 150x). Mid and hind legs have one spine and possibly a second smaller one apparent.

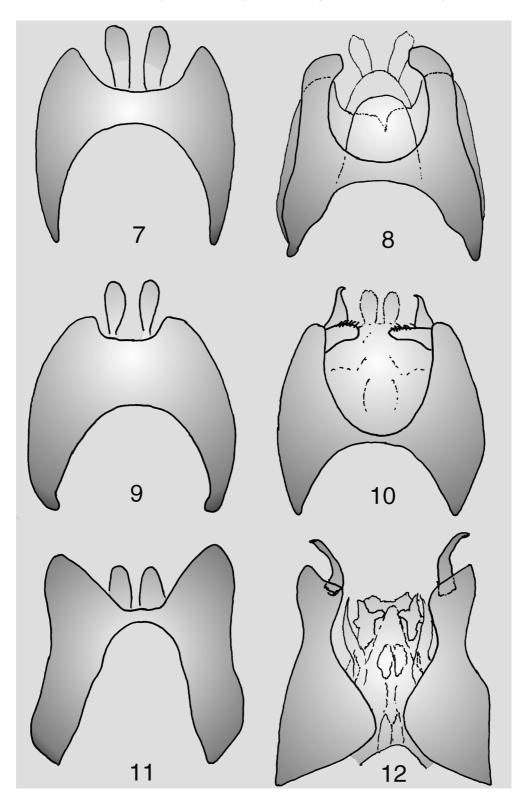
Wing (Fig. 15). Yellowish, length 5 mm. Veins dark brown. C extending beyond tip of R5. Sc ending in C almost on the level of the base of Rs.

Abdomen. Brownish yellow. Tergite 1 brownish, T2–T4 brownish yellow, with yellow posterior part; T5–T6 brownish yellow, with yellow posterior margin; T7–T8 brownish yellow.

Male terminalia —Figs. 16–19.

Female, Unknown,

Etymology. The species is named in honour of Peter J. Chandler.



FIGURES 7–12. Male terminalia: 7. *Urytalpa ochracea* - dorsal view. 8. *U. ochracea* - ventral view. 9. *U. trivittata* - dorsal view. 10. *U. trivittata* - ventral view. 11. *U. nussbaumi* - dorsal view. 12. *U. nussbaumi* - ventral view.

Urytalpa maritima (Becker, 1907) comb. n.

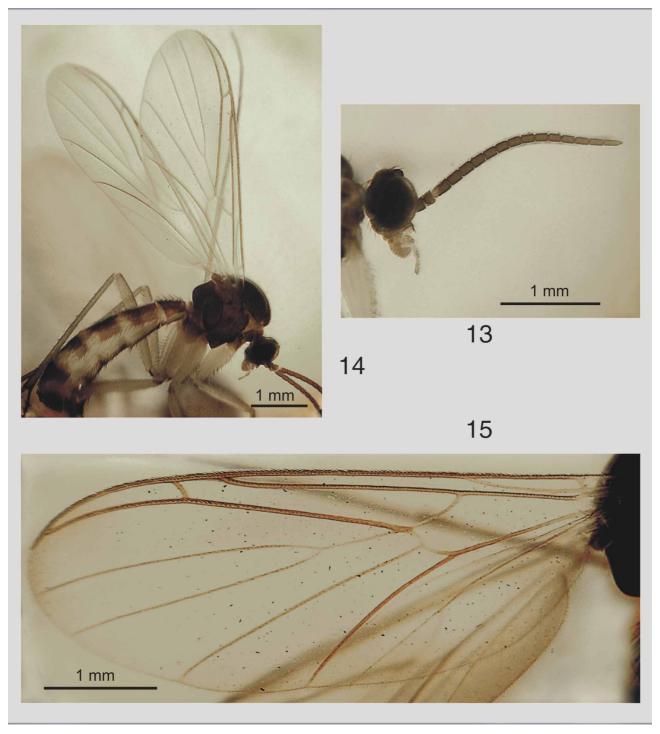
Platyura maritima Becker, 1907: 233. (Fig. 20)

Material examined. Holotype: labelled "Tabarka, Holotype" (Zoologisches Museum der Humboldt Universität, Berlin). The type specimen is in poor condition, without abdomen.

Locus typicus: Tunisia: Tabarka.

Head. Black brown. Mouthparts yellowish. Flagellomeres dark, apical absent. Pedicel yellow about distal margin.

Thorax. Mesoscutum black. Pleura and mediotergite black brown. Mesoscutal setae arranged in irregular rows of acrostichals and dorsocentrals and in a rows of lateral setae. Scutellum with setae on periphery. Antepronotum and anepisternum with setae. Preepisternum, anepimeron, laterotergite and mediotergite bare. Anterior spiracle without bristles.



FIGURES 13-15. Urytalpa chandleri sp. n.: 13. Head. 14. Habitus. 15. Wing.



FIGURES 16–19. *Urytalpa chandleri* **sp. n.**—male genitalia: **16**. Dorsal view. **17**. Appendage of gonostyle - ventral view. **18**. Ventral view. **19**. Lateral view

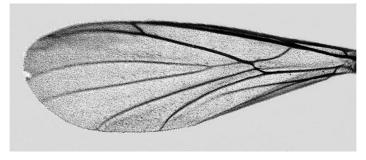


FIGURE 20. Urytalpa maritima - wing.

Legs. Yellowish, tarsi brownish. Fine tibial setae irregular. Empodium absent. Claws of the legs with small spines below (visible by 150x). Fore metatarsus distinctly shorter than tibia.

Wing (Fig. 20). Costa extending beyond tip of R5. R4 ending in C. Base of M absent. A1 almost reaching wing margin. Branches of M and Cu with small macrotrichia.

Abdomen. Black (according to the original description).

Discussion. The species is transferred to *Urytalpa* on the base of the generic characters given in the Introduction.

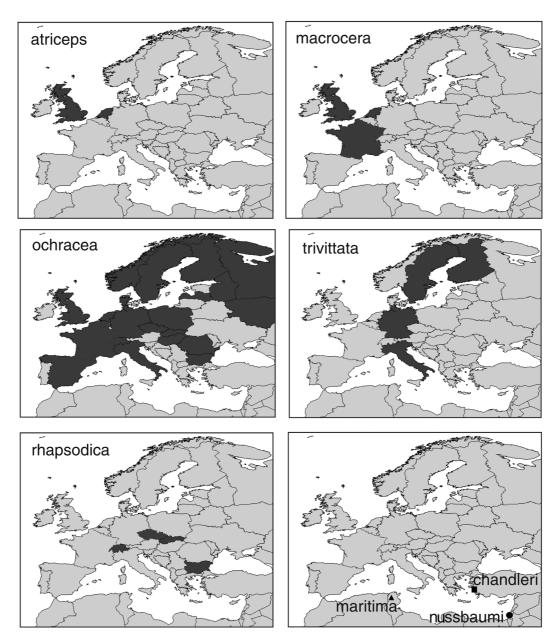


FIGURE 21. Distribution of the Western Palaearctic species of Urytalpa.

Urytalpa nussbaumi Chandler, 1994

Data for the length of the fore tibia and metatarsus are not given in the original description.

New measurement. Fore metatarsus shorter than fore tibia; ratio about 0,8:1 (measured by N. Wyatt in Natural History Museum, London).

Material examined. Paratype, male: labelled "Israel, Haifa, 12.III.1924, O. Theodor" (Natural History Museum, London).

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Conclusions

The existing data for *Urytalpa* shows a disjunct distribution in the Palaearctic with two centers: in the Western Palaearctic (eight species) and in the Eastern Palaearctic (five species). Until now the genus was not known from Siberia. In the Western Palaearctic five species are distributed in Europe and three in the Mediterranean Region (Fig. 21). *Urytalpa vicina* (Brunetti, 1912) from Uttar Pradesh, India was described from only two females and its systematic position is in need of revision.

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