On *Megalepthyphantes lydiae* Wunderlich, 1994 (Araneae: Linyphiidae)

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Abstract: *Megalepthyphantes lydiae* Wunderlich, 1994 is redescribed and illustrated on the basis of new material from Greece. Judging from the structure of the palp, this species is similar to the north-African *M. auresensis* Bosmans, 2006 and *M. bkheitae* (Bosmans & Bouragba, 1992). In the peculiar shape of its embolus *M. lydiae* resembles the Irano-Caucasian *M. camelus* (Tanasevitch, 1990). From these species *M. lydiae* is clearly distinguished by structural details of the genitalia in both sexes.

Keywords: Spiders - Micronetinae - redescription - Mediterranean - Greece.

INTRODUCTION

*Megalepthyphantes lydiae* Wunderlich, 1994 was originally described from Greece on the basis of a male and a female from Naxos Island, and a female from Epidaurus (Wunderlich, 1994). A re-examination of the male holotype revealed that the author illustrated a left palp with a broken distal part of the lamella caracteristica, while the right palp is intact. Spider material collected by Antoine Senglet from Greece in 1972 contains a male and two females of *M. lydiae*. The redescription and illustration of this species is the subject of the present paper.

MATERIAL AND METHODS

This paper is based on material kept at the Muséum d’histoire naturelle de Genève, Switzerland (MHNG) and the Senckenberg Museum Frankfurt am Main, Germany (SMF). Specimens preserved in 70% ethanol were studied using a MBS-9 stereomicroscope. The terminology of copulatory organs mainly follows that of Merrett (1963) and Saaristo & Tanasevitch (1996). The chaetotaxy is given in a formula, e.g., Ti I: 2-1-1-2(3), which means that tibia I has two dorsal spines, one pro-, one retrolateral spine, and two or three ventral spines (the apical spines are disregarded). The sequence of leg segment measurements is as follows: total length (femur+patella+tibia+metatarsus+tarsus). All measurements are given in mm. All scale bars in the figures correspond to 0.1 mm.

RESULTS

*Megalephytynes lydiae* Wunderlich, 1994

Figs 1-13

Type material examined: SMF, #39732 and #39756; male holotype and female paratype of *M. lydiae*; GREECE, Naxos; XI.1983; leg. J. Wunderlich.

Other material examined: MHNG; 1 male, 2 females; GREECE, Aetolia-Acarnania, between Chrisovergi and Aitolikó; 14.IX.1972; leg. A. Senglet.

Abbreviations

Ca carina sensu Saaristo & Tanasevitch (1996)
DPS distal part of scape sensu Saaristo & Tanasevitch (1996)
E embolus
EP embolus proper sensu Saaristo (1971)
L lamella caracteristica
MM median membrane sensu Helsdingen (1965)
PMP posterior median plate sensu Helsdingen et al. (1977)
PS proscape sensu Saaristo & Tanasevitch (1996)
SS serrate surface of embolus sensu Saaristo & Tanasevitch (1996)
T tooth
TA terminal apophysis
TmI position of trichobothrium on metatarsus I

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Description of male from Aetolia-Acarnania: Total length 4.25. Carapace 1.90 long, 1.45 wide, unmodified, pale brown to yellow, dorsally with a narrow, dark, longitudinal stripe becoming bifurcated in cephalic part. Chelicerae 0.75 long, unmodified. Legs yellow, distal ends and middle parts of segments darkened. Leg I 11.30 long (3.00+0.55+3.00+3.00+1.75), IV 8.20 long (2.50+0.45+1.95+2.05+1.25). Chaetotaxy.

Figs 1-10. Megalephyphantes lydiae Wunderlich, 1994, details of left palp of male specimen from Aetolia-Acarnania. (1) Distal part of palp, retrolateral view. (2-4) Tibia, prolateral, dorsal and retrolateral view, respectively. (5) Paracymbium, retrolateral view. (6) Lamella characteristica, retrolateral view. (7) Embolic division, retrolateral view. (8-10) Embolus, different aspects.
characteristica massive, bent in distal third, with a beak-shaped apex. Terminal apophysis consisting of three parts: a small, straight, wide ridge and two narrow processes: one straight, pointed, stylet-shaped, other one bent and blunt. Embolus relatively large, its serrate surface extended forwards, forming a spear-shaped apex. Carina very small, thumb large, rounded. Embolus proper short, pointed. Abdomen 2.50 long, 1.50 wide, dorsally pale, with two longitudinal rows of grey sports interconnected by transverse stripes.

**Description of female from Aetolia-Acarnania:** Total length 4.35. Carapace 1.75 long, 1.30 wide. Chelicerae 0.80 long. Leg I 9.85 long (2.65+2.55+0.6+2.50+1.55), IV 8.70 (2.60+2.05+0.5+2.25+1.30). TmI 0.16. Metatarsi IV without trichobothrium. Abdomen 2.55 long, 1.75 wide. Epigyne (Figs 11-13): Proscape strongly sclerotized, slightly narrowed at its base. Distal part of scape swollen, lateral lobes and stretcher totally reduced. Posterior median plate blackish, with a deep median notch in distal margin. Body and leg coloration, and chaetotaxy as in male.

**Taxonomic remarks:** The structure of the palp of this species is similar to that of the north-African *M. auresensis* Bosmans, 2006 and *M. bkheitae* (Bosmans & Bouragba, 1992). The shape of the embolus, particularly the serrate surface extended forwards and forming a spear-shaped apex, of *M. lydiae* resembles that of the Irano-Caucasian *M. camelus* (Tanasevitch, 1990). From the three species mentioned above *M. lydiae* is clearly distinguished by the structural details of its male palp, especially by the shape of the apophysis on the palpal tibia, and by the structure of the paracymbium and the lamella characteristica. The shape of the epigyne of *M. lydiae* is similar to that of many congeners, but differs clearly by the deeply notched posterior median plate.

**Distribution:** Known only from Greece: Naxos Island and Epidaurus (Wunderlich, 1994), as well as Aetolia-Acarnania (new data).

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