

TETRIGIDAE (ORTHOPTERA) OF AZAD JAMMU AND KASHMIR, PAKISTAN

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ABSTRACT

This paper represents the only study of Tetrigidae of Azad Jammu and Kashmir since it became independent in 1947. The study focuses on seven species viz: *Oxyphyllum pennantum* Hancock; *Cingalotettix pterugodes* Blackith; *Bolivaritettix nilgircus* (Hebard); *Bolivaritettix ghumtianus* (Hancock); *Thoradonata nodulosa spiculoba* (Hancock); *Coptotettix annandalei* Hancock and *Tetrix mundus* Walker, which were recorded for the first time from this area.

ABSTRAK

Kertas ini mempersembahkan kajian hanya ke atas Tetrigidae dari Azad Jammu dan Kashmir sejak ia mencapai kemerdekaan pada tahun 1947. Kajian ini memfokuskan ke atas tujuh spesies antaranya ialah *Oxyphyllum pennantum* Hancock; *Cingalotettix pterugodes* Blackith; *Bolivaritettix nilgircus* (Hebard); *Bolivaritettix ghumtianus* (Hancock); *Thoradonata nodulosa spiculoba* (Hancock); *Coptotettix annandalei* Hancock dan *Tetrix*

mundus Walker, di mana telah direkodkan buat pertama kalinya dari kawasan tersebut.

INTRODUCTION

There are few published records available in literature on Tetrigidae of Azad Jammu and Kashmir (Bei-Binko and Mishchenko, 1951). The systematics of family Tetrigidae of India, Pakistan and Sri Lanka have been studied by some earlier workers (Hancock, 1909; 1912, 1915; Kirby, 1914; Hebard 1929; Gunther 1938 a, b, 1939; Blackith, 1988 and Wagan and Kevan, 1992), but no faunal survey of Tetrigidae of Azad Jammu and Kashmir exists. The present study discusses seven species which all are new records from Azad Jammu and Kashmir. It is likely that this number will increase further when more extensive surveys will be under taken. In the text we have only given the deviating characters if any or additional characters which were not given in the original description.

Family Tetrigidae Subfamily Cladonotinae

Oxyphyllum pennantum Hancock 1908

Oxyphyllum pennantum Hancock, 1909. Trans. Ent. Soc. Lond. 1908, p.393.

Our family specimens show the same characters as described for the holotype by Hancock (1909) except that it is a little smaller in size.

Measurements (mm) (Holotype, last from Hancock (1908))

Sex	Length of pronotum	Height of dorsum from humeral angle to the summit of the crest	Length of hind femur	Wing passing the pronotal apex
Female	14.7-15	4.2-4.5	5.6-6	1-1.5

Material examined: Azad Jammu and Kashmir, Bagh, 10.ix. 2001, Maqsood A., 2 females

Subfamily Amorphopinae (=Metrodorinae)

***Bolivaritettix nilgircus* (Hebard), 1929**

Mazarredia nigirica Hebard, 1929 Rev. Suisse. Zool.36.p.582. Figs.7,8,9.

Our female specimen fits *B. nilgircus* except for the 2 mm longer pronotum. The flagella of antennae each have 11-12 articles most of which are longer than wide.

Material examined: Azad Jammu and Kashmir, Rawalakot, 19. viii. 2001, Maqsood A., 1 female.

***Bolivaritettix ghumtianus* (Hancock, 1915)**

Mazarredia ghumtianus Hancock, 1915, Rec.Ind. Mus. (Ent.) 11.p.100

Material examined: Azad Jammu and Kashmir, Rawalakot, 19. viii. 2001, Maqsood A., 1 female

***Cingalotettix pterugodes* Blackith, 1988**

Cingalotettix pterugodes Blackith, 1988. Ent. Scand. Suppl. 30 p.94, fig.1

The specimens studied generally agree with the description given by the Blackith except that they are larger in size and alary sinus of lateral lobes of pronotum are present. We confirm the presence of this species and distribution extended to Azad Jammu and Kashmir.

Measurements (mm) [Holotype (HT) and Allotype (AT) after Blackith (1988)]

Sex	Body length	Pronotum length	Wing length	Hind femur length
Female HT	-	10.2	1.0x0.3	6.2
Male AT	-	8.2	-	-
Female (material examined)	8.2	11.19	1.75x0.72	5.6
Male (material examined)	7.9	9.8	1.54x0.6	4.9

Material examined: Azad Jammu and Kashmir, Bagh, 10. ix. 2001, Maqsood A., 1 male, 1 female.

Subfamily Tetriginae***Thoradonota nodulosa spiculoba* Hancock, 1912**

Thoradonota spiculoba Hancock 1912. Mem. Dept. Agric. Ind. Ent. 4. p. 138

Our specimens seems to have the slightly longer pronota in keeping with the measurements of Hancock, 1912 than with those of Gunther, 1938 or Wagan and Kevan, 1992. Pronotal length is as follows:

Sex	After (Hancock)	After (Gunther)	After (Wagan and Kevan)	Material examined
Male	8.0	5.8-6.0	7.0-7.5	7.8-8.0
Female	9.5	6.0-7.0	7.5-8.1	9.5-9.8

Material examined: Azad Jammu and Kashmir, Rawalakot, 19.viii. 2001, Maqsood A., 1 female

***Coptotettix annandalei* Hancock, 1915**

Coptotettix annandalei Hancock, 1915. Rec. Ind. Mus. (Ent) 11. p. 119

This species seems to be the commoner species in Azad Jammu and Kashmir. We have studied a number of specimens. In all, the distal end of the pronotum surpasses the apices of hind femora, and the hind wings at rest extend a little beyond the pronotal apex.

Material examined: Azad Jammu and Kashmir, Arja, 21. vii. 2002, Maqsood, A., 8 females, 2 males; Bagh, 10.ix.2001, Maqsood, A., 4 males, 9 females; Hajeera, 20.viii.2002, Maqsood, A., 15 males, 38 females.

***Tetrix mundus* (Walker, 1871)**

Tetrix mundus (Walker, 1871) Catal. Dermap. Saltat. Brit. Mus. 5. p. 823

This is one of the most important and widely distributed tetrigid species in Azad Jammu and Kashmir.

Material examined: Azad Jammu and Kashmir, Rawalakot, 19. viii. 2001, Maqsood, A., 3 females, 2, males: Bagh, 10. ix. 2001, Maqsood, A., 1 male, 1 female; Hajeera, 20.viii.2001, Maqsood, A. 2 females; Arja, 21.viii.2002, Maqsood, A., 4 females, 2 males.

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