

ON A COLLECTION OF TETRANYCHID MITES FROM JAMMU AND KASHMIR  
WITH DESCRIPTION OF ONE NEW SPECIES OF *EOTETRANYCHUS*  
(ACARINA : TETRANYCHIDAE)

Y. N. GUPTA

Zoological Survey of India, Calcutta

ABSTRACT

Ten species belonging to seven genera are reported from Jammu and Kashmir which includes one new species of *Eotetranychus*. All are new reports for the State.

INTRODUCTION

Tetranychid fauna of Jammu and Kashmir is very inadequately known and only *Eutetranychus orientalis* (Klein), (Prasad, 1974) is in record. So far only 37 species of tetranychid mites are known from India (Prasad, 1974 ; Gupta, 1976). The author along with Dr. S. K. Gupta made a good collection from different areas of Jammu and Kashmir during 1976 and the present paper is based on that collection. Altogether 10 species belonging to 7 genera were treated in this paper which includes a new species, *Eotetranychus ladakheensis* sp. n. and the same is described here. Incidentally all the species are recorded here for the first time from the State. Types and other material treated in this paper are deposited in the Zoological Survey of India, Calcutta. Classification as<sup>1</sup> of Pritchard and Baker (1955) was followed.;

Family TETRANYCHIDAE

***Bryobia eharai* Pritchard and Keifer**

*Bryobia eharai* Pritchard and Keifer, 1958, *Ann. ent. Soc. Am.*, 51 : 506.

*Bryobia eharai* Pritchard and Keifer : Menon and Ghai, 1968, *Indian J. Ent.*, 30 : 86,

*Material examined* : 6 ♀ ♀, India : Jammu and Kashmir : Achhabal, 7. xi. 1976, on chrysanthemum.

*Distribution in India* : Delhi, Punjab, Karnataka, Gujarat, Jammu and Kashmir (new record).

***Bryobia praetiosa* Koch**

*Bryobia praetiosa* Koch, 1836, *Deutsche Crustacea Myriopoda, Arachnida*, 1 : 8.

*Bryobia praetiosa* Koch : Menon and Ghai, 1968, *Indian J. Ent.*, 30 : 88.

*Material examined* : 1 ♀, Pahalgam, 30. x. 1976, on cherry ; 1 ♀, Gulmarg, 20. x. 1976, on an unidentified plant.

*Distribution in India* : Delhi, Punjab, West Bengal, Assam, Jammu and Kashmir (new record).

***Petrobia (Petrobia) latens* (Müller)**

*Acarus latens* Müller, 1867, *Zool., Dan. Prodr.*, 187.

*Petrobia latens* Müller : Oudemans, 1915. *Arach. Natur.*, 81 : 44.

*Petrobia latens* Müller : Ehara, 1961, *Rec. Indian Mus.*, 59 : 143-144.

*Material examined* : 6 ♀ ♀, Phalgam; 30. x. 1976, on grass.

*Distribution in India* : Punjab, Rajasthan, Madhya Pradesh, Bihar, Jammu and Kashmir (new record).

**Eutetranychus orientalis** (Klein)

*Anychus orientalis* (Zacher) : Klein, 1936, *Bull. Agr. Res. Sta. Rehovot*, 21 : 3.

*Anychus ricini* Klein : Rahman and Sapra, 1940, *Proc. Indian Acad. Sci.*, 11B : 194.

*Eutetranychus orientalis* Klein : Baker and Pritchard, 1960, *Hilgardia*, 29 : 464-467.

*Material examined* : 10 ♀ ♀, Katra, 30. x. 1976, on grass.

*Distribution in India* : Punjab, West Bengal, Orissa, Gujarat, Delhi, Andaman Islands, Assam, Jammu and Kashmir, Karnataka, Maharashtra.

**Panonychus citri** (McGregor)

*Tetranychus citri* McGregor, 1916, *Ann. ent. Soc. Am.*, 9 : 284.

*Panonychus citri* (McGregor) : Ehara, 1956, *J. Fac. Sci. Hokkaido Univ. Zool.*, 12 (6) : 500.

*Metatetranychus citri* McGregor : Gupta, 1970, *Sci. Cult.*, 36 : 98.

*Material examined* : 12 ♀ ♀, 2 ♂ ♂, Bijbehara Soil Conservation Farm, 5. xi. 1976, on apple.

*Distribution in India* : Assam, Meghalaya, Manipur, Tripura, West Bengal, Jammu and Kashmir (new record).

**Eotetranychus frosti** (McGregor)

*Tetranychus frosti* McGregor, 1952, *Proc. ent. Soc. Wash.*, 54 : 142.

*Eotetranychus frosti* McGregor : Gupta and Gupta 1976, *Acarology Newsletter*, No. 3 : 6-7.

*Material examined* : 10 ♀ ♀, 1 ♂, Srinagar : Nishat Bag, 21. x. 1976, on apple.

*Distribution in India* : Gujarat, Madhya Pradesh, Jammu and Kashmir (new record).

**Eotetranychus ladakhensis** sp. n.

(Figs. 1 A—H)

*Male* : Body 408 $\mu$  long, 204  $\mu$  wide, terminal sensillum of palpus twice as long as wide. Dorsal sensillum slender. Tibia I with three sensory and seven tactile setae ; tarsus I with two sensory and five tactile setae proximal to the duplex setae. Tibia II with one sensory and six tactile setae ; tarsus II with one sensory and four tactile setae proximal to the duplex setae. Dorsal setae of idiosoma longer than interval between their longitudinal bases. The aedeagus in very long and slender as figured.

*Female* : Body 510  $\mu$  long, 280  $\mu$  wide. Terminal sensillum of palpus three times as long as wide. Dorsal sensillum slender. Peritreme ends in a simple bulb. Tibia I with one sensory and five tactile setae, tarsus I with one sensory and five tactile setae proximal to the duplex setae. Tibia II with one sensory and seven tactile setae, tarsus II with one sensory and three tactile setae proximal to the duplex setae. Dorsal setae of idiosoma much longer than interval between their longitudinal bases. Outer and inner sacral same in length. Post anal setae thin and small. Medio ventral setae moderate in size. Genital flap with transverse striae.

*Holotype* : ♂ (Reg. No. 3139/17), India : Jammu and Kashmir : Ladakh, Kalsi, on an undetermined plant, 28. x. 1976 coll. S. K. Gupta and Y. N. Gupta.

*Paratypes* : 1 ♀ (Reg. No. 3140/17) on slide and 15 ♀ ♀ in Spirit, data same for holotype.

*Remarks* : This species resembles *Eotetranychus carpini* (Oudemans, 1905) redescribed by Pritchard and Baker, 1955 but differs from it in shape of aedeagus, and dorsolateral and dorso-central setae being not equal in length.

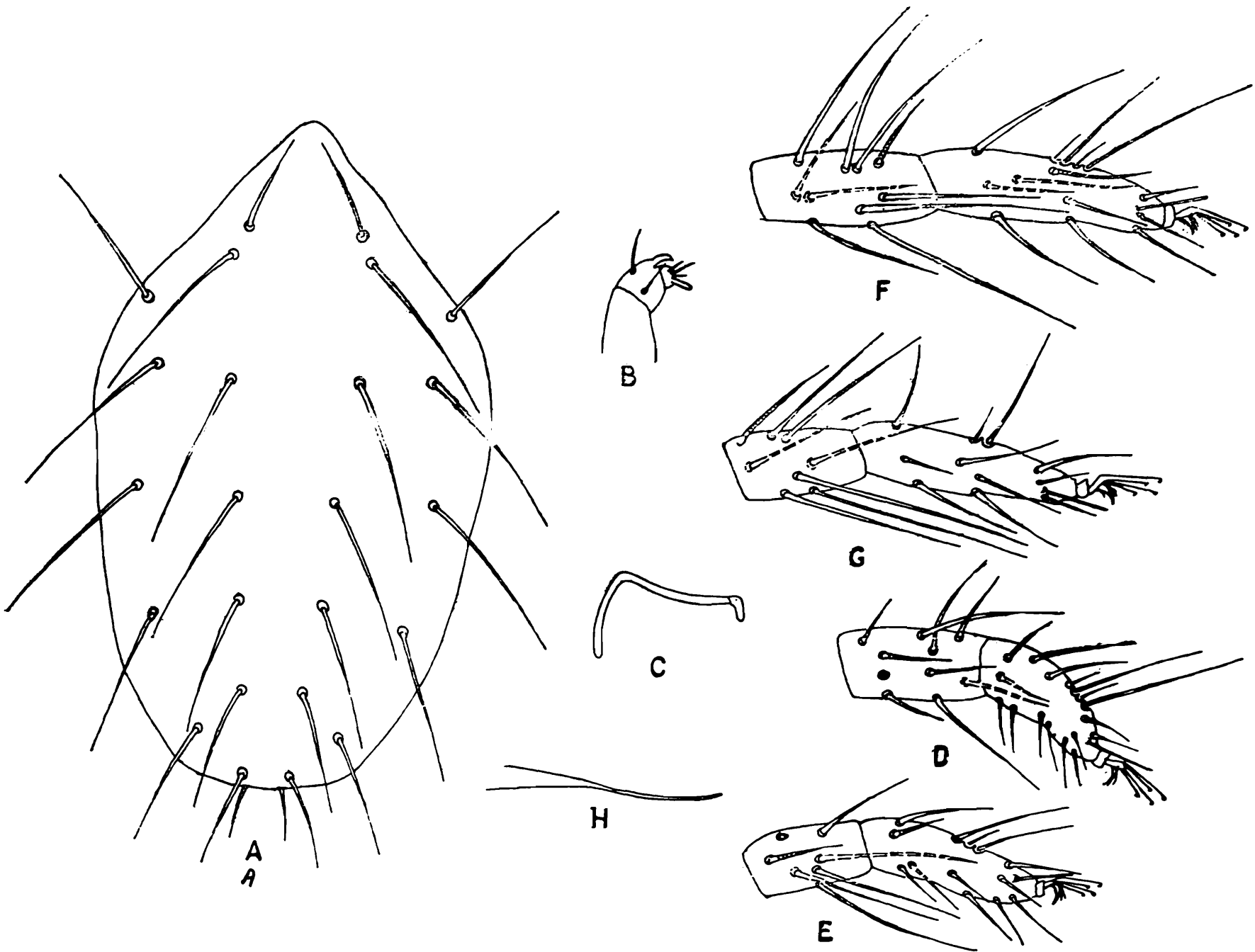


Fig. 1. *Eotetranychus ladakhensis* sp. n. A. Dorsum of Female, B. Terminal Portion of Palp, C. Peritreme, D. Tibia and Tarsus I of male, E. Tibia and Tarsus II of male, F. Tibia and Tarsus G. Tibia and Tarsus II of female, H. Aedeagus, I. of female

**Oligonychus mangiferus** (Rahman and Sapra)

*Paratetranychus mangiferus* Rahman and Sapra, 1940, *Proc. Indian Acad. Sci.*, 11B : 192.

*Oligonychus mangiferus* Rahman and Sapra : Pritchard and Baker, 1955, *Pacific Coast Ent. Soc. Mem. Soc.*, 2 : 330.

*Material examined* : 15 ♀♀, 2 ♂♂, Katra, 12. xi. 1976, on mango; 28 ♀♀, 2 ♂♂, Nagrota, 14. x. 1976, on mango.

*Distribution in India* : Punjab, Himachal Pradesh, Haryana, West Bengal, Jammu and Kashmir (new record).

**Tetranychus neocaledonicus** Andre

*Tetranychus neocaledonicus* Andre, 1923, *Bull. Mus. natn. Hist. nat.*, Paris 5 (2) : 302.

*Tetranychus cucurbitae* Andre : Rahman and Sapra, 1940, *Proc. Indian Acad. Sci.*, 11B : 179-182.

*Tetranychus equatorius* McGregor : Khot and Patel, 1956, *Indian J. Ent.*, 18 : 149-160.

*Material examined* : 1 ♀, 1 ♂, Anantnag, 3. xi. 1976, on chiner; 12 ♀♀, 1 ♂ Jammu Rly. Station, 10. xi. 1976, on an unidentified plant; 8 ♀♀, 1 ♂ Phalgam, 31. x. 1976 on grass; 28 ♀♀, 2 ♂♂, Pahalgam, 30. x. 1976, on "Sag".

*Distribution in India* : Punjab, Delhi, West Bengal, Assam, Karnataka, Maharashtra, Jammu and Kashmir (new record).

**Tetranychus cinnabarinus** (Boisduval)

*Acarus cinnabarinus* Boisduval, 1867, *Ent. Hort.*, : 88.

*Tetranychus biomaculatus* Harvey : Wood Mason, 1884, *Report on tea mite and bug of Assam*, : 1-20.

*Tetranychus biomaculatus* Boisduval : Mishra, 1913, *Agric. J. India*, 8 : 309.

*Tetranychus cinnabarinus* Boisduval : Tuttle and Baker, 1968, Tucson, *Ariz. Univ. Ariz. Press* : 129.

*Material examined* : 12 ♀♀, 1 ♂ Achhabal, 7. xi. 1976, on Dahlia; several ♀♀, ♂♂ Bijbehara, 4. xi. 1976, on chrysanthemum, several

♀♀, ♂♂, Leh, 26. x. 1976, on cucurbit plant; 22 ♀♀, 2 ♂♂, Leh : I. T. B. F. compound, 26. x. 1976, on cucurbit plant; several ♀♀, ♂♂ Batkut, 3. xi. 1976, on undetermined plant; 4 ♀♀, 1 ♂ Srinagar : Pologround, 18. x. 1976, on rose.

*Distribution in India* : ihBar, Haryana, Karnataka, Meghalaya, Punjab, Rajasthan, Tamil Nadu, New Delhi, West Bengal, Jammu and Kashmir (new record).

## ACKNOWLEDGEMENTS

The author is grateful to the Director, Zoological Survey of India, Calcutta for laboratory facilities and to Dr. D. C. M. Manson, Horticultural Research Centre, Department of Agriculture, Lenin, New Zealand for confirming the novelty of the species. The author is also grateful to Dr. S. K. Gupta, Superintending Zoologist, Zoological Survey of India, Calcutta for providing tetranychid mites from Jammu and Kashmir at the disposal of the author for study.

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