

INSECTA : COLEOPTERA : STAPHYLINIDAE

ON A COLLECTION OF STAPHYLINIDAE (INSECTA :
COLEOPTERA) FROM NAMDAPHA, WILD LIFE
SANCTUARY, TIRAP DISTRICT, ARUNACHAL
PRADESH, INDIA

By

D. N. BISWAS AND S. BISWAS

Zoological Survey of India, Calcutta

The present paper deals with the material collected from Namdapha Wild Life Sanctuary (at present National Park and Tiger Reserve) of Tirap district, Arunachal Pradesh, India. The material under report consists of 70 examples belonging to 26 species under 12 genera, 6 tribes and 2 subfamilies. Of these species reported here one species *Holusus tirapensis* has been described as new and four species, namely *Priochirus (Cephalomerus) sanguinosus* (Mots.), *Osorius peguanus* Bernh. *O. punctipennis* Fauvel and *Philonihus poephagus* Cameron have been recorded for the first time from India.

Selected reference, material studied and geographical distribution have been included.

All the material including type have been deposited in the collection of Zoological Survey of India, Calcutta.

SYSTEMATIC ACCOUNT

Family : STAPHYLINIDAE

Subfamily : OXYTELINAE

Tribe : PIESTINI

1. *Eupiestus feae* Fauvel

1895. *Eupiestus feae* Fauvel, *Rev. d'Ent.*, 14, : 187.

1930. *Eupiestus feae*, Cameron, *Fauna Brit. India*. Col. Staph. 1 : 37-38.

Material examined : 1 ex., Arunachal Pradesh, Namdapha Wild Life Sanctuary. 14.v.1981, S. Biswas coll.

Distribution : Earlier reported from India and Burma. In India it is recorded from Abor country and Namdapha, Arunachal Pradesh.

2. *Holosus* sp. (nr. *fossulatus* Motschulsky)

Material examined : 2 exs., Arunachal Pradesh, Namdapha Wild Life Sanctuary, 14.iv.1981, S. Biswas coll.

Distribution : India ; Arunachal Pradesh, Namdapha.

3. *Holosus tirapensis*, sp. nov.

Reddish brown, shining and subparallel, thorax with large deep fossa at the posterior angles, transversely impressed before the base which is connected at the fossa, in the middle with fine longitudinal sulcus. Elytra deeply bisulcated along the suture. Antennae ferruginous. Legs reddish testaceous.

Head small and narrower than thorax, moderately closely and finely punctured, on each side of the anterior portion of head vertically impressed. Antennae small, segment 3 slightly longer than broad, segments 2 and 4-7 as long as broad, segments 8-10 slightly transverse. Thorax slightly transverse, sides rather parallel, anterior angles broadly rounded and posterior angles angulated, surface densely and distinctly punctured. Elytra distinctly longer and broader than thorax, sides slightly rounded, a 'u' shaped deep sulcus along the suture and a ridge on the middle of the sulcus, near the lateral margins a broad and shallow impression from the anterior margin to posterior margin, puncturations fine and close. Abdomen finely punctures.

Measurements of holotype : Total length 2.10 mm, width of head across the eyes 0.35 mm ; length of thorax 0.35 mm and width of thorax 0.45 mm ; length of elytra 0.50 mm and width of elytra 0.50 mm.

Holotype : 1 ex. India : Arunachal Pradesh, Namdapha Wild Life Sanctuary, Tirap dist., 21.iv.1981, S. Biswas coll.

Distribution : India (Arunachal Pradesh).

Remarks : The new species is closely related to *Holosus feveolatus* Motschulsky but can be easily separated from the latter species by its base of thorax devoid of four foveae and elytra near suture a 'u'-shaped sulcus with a vertical ridge on the middle of the sulcus, puncturations on thorax coarser. Regd. No. 10041/H4A.

4. *Lispinus quadrinotatus* Fauvel

1904. *Lispinus quadrinotatus* Fauvel, *Rev. d'Ent.*, 23, : 80.

1930. *Lispinus quadrinotatus* Cameron, *Fauna Brit. India*, Col. Staph. I : 54.

Material examined : 4 exs., Namdapha Wild Life Sanctuary, 21.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Perak, Java, Celebes and India. In India it is recorded from Arunachal Pradesh : Abor country, Namdapha.

Tribe : ELEUSIINI

5. *Eleusis humilis* Erichson

1840. *Eleusis humilis* Er., *Gen. Spcc. Staph.*, : 839

1930. *Eleusis humilis*, Cameron. *Fauna Brit. India*. Col. Staph. I : 83-84.

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 5.iv.1981, S. Biswas coll.

Distribution : Generally distributed throughout the tropics. In India it is recorded from Andamans, Tamil Nadu, Uttar Pradesh and Arunachal Pradesh (Present record).

6. *Eleusis* sp. (nr. *Vermicular* Fauvel)

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 21.iv.1981, S. Biswas coll.

Tribe : LEPTOCHIRINI

7. *Leptochirus (Strongylochirus) quadridens* Motschulsky

1857. *Leptochirus quadridens* Motschulsky, *Bull. Mosc.*, 30(4), p. 501.

1930. *Leptochirus (Strongylochirus) quadridens*, Cameron, *Fauna Brit. India* Col. Staph 1 : 91.

Material examined : 21 exs., 3 exs., Namdapha, Mina Reserve Forest, 5.iv.1981, S. Biswas coll. ; 2 exs., Chiria camp., 5.iv.1981, S. Biswas coll., 6 exs., Hornbill, 14.iv.1981, S. Biswas coll., 7 exs., Namdapha, 21.iv.1981, S. Biswas coll., 3 exs., Deban, 28.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Sumatra, Java, Borneo, Burma and India. In India it is recorded from Nagaland, Meghalaya and Arunachal Pradesh (Present record).

8. *Leptochirus (Strongylochirus) laevis* Cast.

1840. *Leptochirus laevis* Cast., *Hist. Nat.*, 1, p. 186.

1930. *Leptochirus (Strongylochirus) laevis*, Cameron, *Fauna Brit. India* Col. Staph. I : 91.

Material examined : 2 exs., 1 ex., Namdapha, Hornbill, 14.iv.1981, S. Biswas coll., 1 ex., Namdapha Wild Life Sanctuary, 21.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Singapore, Sumatra, Java, Lombok, Borneo, Thailand and India. In India it is recorded from Nagaland, Meghalaya and Arunachal Pradesh (present record).

9. *Leptochirus (Strongylochirus) atkinsoni* Fauvel

1895. *Leptochirus atkinsoni* Fauvel, *Rev. d'Eni.*, 14, : 182.

1930. *Leptochirus (Strongylochirus) atkinsoni*, Cameron, *Fauna Brit. India*. Col. Staph. I : 92.

Material examined : 3 exs., 2 exs., Namdapha, Hornbill, 14.iv.1981, S. Biswas coll., 1 ex., Deban, 23.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma, Thailand and India. In India it is recorded from Meghalaya and Arunachal Pradesh (present record).

10. *Borolinus sikkimensis* Bernhauer

1919. *Borolinus sikkimensis* Bernhauer, *Deut. ent. Zeit.* : 359.

1930. *Borolinus sikkimensis*, Cameron, *Fauna Brit. India*. Col. Staph. 1 : 94.

Material examined : 3 exs., 1 ex., Namdapha, 21.iv.1981, S. Biswas coll., 2 exs., Deban, 24.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma and India. In India it is recorded from Sikkim and Arunachal Pradesh (present record).

11. *Borolinus minutus* (Cast.)

1840. *Leptochirus minutus* Cast., *Hist., Nat.* 1, 186.

1930. *Borolinus, minutus*, Cameron, *Fauna Brit. India*. Col. Staph. I : 94-95.

Material examined : 1 ex., Namdapha, Deban, 28.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma, Thailand, Sumatra, Java, Lombok, Borneo and India. In India it is recorded from Nagaland, Sikkim and Arunachal Pradesh.

12. *Priochirus (Triacanthochirus) bipunctatus* (Fauvel)

1895. *Leptochirus bipunctatus* Fauvel, *Rev.d'Fnt.*, 9, p. 180.

1930. *Priochirus (Triacanthochirus) bipunctatus*, Cameron, *Fauna Brit. India. Col. Staph. I* : 97-98.

Material examined : 4 exs., 1 ex., Namdapha, Hornbill, 14.iv.1981, S. Biswas coll., 2 exs., Deban, 21.iv.1981, S. Biswas coll., 1 ex., Giffonland, 30.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma and India. In India it is recorded from Sikkim and Arunachal Pradesh (present record).

13. *Priochirus (Triacanthochirus) tridens* (Motschulsky)

1857. *Leptochirus tridens* Motschulsky, *Bull. Mosc.*, 30(2), 502.

1930. *Priochirus (Triacanthochirus) tridens*, Cameron, *Fauna Brit. India. Col. Steph. I* : 99.

Material examined : 3 exs., Namdapha, 8.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma, Malay Peninsula, Java, Sumatra and India. In India the species is recorded from Nagaland and Arunachal Pradesh (Namdapha).

14. *Priochirus (Cephalomerus) rubiginosus* Cameron

1930. *Priochirus (Cephalomerus) rubiginosus* Cameron, *Fauna Brit. India. Col. Staph. I*, 105-106.

Material examined : 3 exs., 1 ex., Namdapha, Zero Camp, 9.iv.1981, S. Biswas coll., 2 exs., Hornbill, 13.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Sikkim, Nagaland. Now it is being recorded from Arunachal Pradesh (present record).

15. *Priochirus (Cephalomerus) sanguinosus* (Motschulsky)

1857. *Leptochirus sanguinosus* Motschulsky, *Bull. Mosc.*, 30(4) ; : 501.

1930. *Priochirus (Cephalomerus) sanguinosus*, Cameron, *Fauna Brit. India. Col. Staph. I* : 103.

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 14.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma. Now it is being recorded from Arunachal Pradesh (Namdapha).

Tribe : OXYTELINI

16. *Oxytelus (Tanykraerus) sp. (nr. dohertyi cam.)*

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 19.iv.1981, S. Biswas coll.

Distribution : India : Arunachal Pradesh, Namdapha.

17. *Platystethus crassicornis* Motschulsky

1857. *Platystethus crassicornis*, Motschulsky, *Bull. Mosc.*, 30(4), : 506.

1930. *Platystethus crassicornis*, Cameron, *Fauna Brit. India*. Col. Staph. I : 269.

Material examined : 1 ex., Namdapha Wild Life Sanctuary, Deban, 6.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Srilanka, Perak and India. In India it is recorded from Tamil Nadu, Uttar Pradesh and Arunachal Pradesh (present record).

Tribe : OSORIINI

18. *Osorius callifrons* Bernhauer

1926 *Osorius callifrons* Bernhauer, *Wien ent. Zt.*, 43 : 24.

1930. *Osorius callifrons*, Cameron, *Fauna Brit. India*. Col. Staph. 1 : 293.

Material examined : 1 ex., Namdapha, Gibbonland, 30.iv.1981, S. Biswas coll.

Distribution : The species recorded from Assam and Arunachal Pradesh (present record).

19. *Osorius peguanus* Bernhauer

1914. *Osorius peguanus* Bernhauer, *W. Z. B.*, 64, : 87.

1930. *Osorius peguanus*, Cameron, *Fauna Brit. India*. Col. Staph. I : 298.

Material examined : 3 exs., Namdapha, Hornbill, 14.iv.1981, S. Biswas coll.

Distribution : Earlier known from Pegu. Now it is being recorded from India in Arunachal Pradesh (Namdapha).

20. *Osorius kempi* Bernhauer

1926. *Osorius kempi* Bernhauer, *Wien. ent. Zt.*, 43 : 24.

1930. *Osorius kempi*, Cameron. *Fauna Brit. India*. Col. Staph. I : 299-300.

Material examined : 2 exs., Namdapha, Hornbill, 13.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Assam. Now it is recorded from Arunachal Pradesh.

21. **Osorius** sp. (nr. **kempi** Bernhauer)

Material examined : 1 ex., Namdapha, Hornbill, 13.iv.1981, S. Biswas coll.

22. **Osorius** sp. (nr. **calvus** Epp.)

Material examined : 1 ex., Namdapha, Firm Base, 14.iv.1981, S. Biswas coll.

23. **Osorius punctipennis** Fauvel

1895. *Osorius punctipennis* Fauvel, *Rev. d'Ent.*, 14 : 195.

1930. *Osorius punctipennis*, Cameron, *Fauna Brit. India. Col. Staph.*, I : 300.

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 24.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Burma. Now it is being recorded from Arunachal Pradesh (Namdapha).

Subfamily : STAPHYLININAE

Tribe : STAPHYLININI

24. **Philonthus poephagus** Cameron

1928. *Philonthus poephagus* Cameron, *Ann. Mag. Nat. Hist.*, 10(2) : 562.

1932. *Philonthus poephagus* Cameron, *Fauna Brit. India. Col. Staph.* 3 : 80.

Material examined : 1 ex., Namdapha Wild Life Sanctuary, 21.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Tibet. It is now being recorded from Arunachal Pradesh (Namdapha).

25. **Philonthus fimetarius** (Gr.)

1802. *Staphylinus fimetarius* Gr., *Col. Micr. Brunsv.* : 210.

1932. *Philonthus fimetarius*, Cameron. *Fauna Brit. India. Col. Staph.* 3 : 92-93.

Material examined : 2 exs., Namdapha, Miao, 5.v.1981, S. Biswas coll.

Distribution : Widely distributed in Europe. In India it was known from Uttar Pradesh and now it is being recorded from Arunachal Pradesh.

26. *Thoracostrongylus elegans* (Cameron)

1920. *Amichrotus elegans* Cameron, *Ent. Month. Mag.* 56 : 218.

1932. *Thoracostrongylus elegans* Cameron, *Fauna Brit, India Col. Staph*, 3 : 214-215.

Material examined : 1 ex, Namdapha, Miao, 5.iv.1981, S. Biswas coll.

Distribution : Earlier reported from Tamil Nadu. Now it is being recorded from Arunachal Pradesh.

SUMMARY

This paper records the systematic account of twenty six species of staphylinidae from Arunachal Pradesh. Among them *Holosus tirapensis* has been described as new and four species namely, *Priochirus* (*Cephalomerus*) *sanguinosus* (Motschulsky), *Osorius peguanus* Bernhauer, *O. punctipennis* Fauvel, *Philonthus poephagus* Cameron are recorded for the first time from India and fifteen species namely, *Eupiestus feae* Fauvel, *Lispinus quadrinotatus* Fauvel, *Eleusis humilis* Erichson, *Leptochirus* (*Strongylochirus*) *quadridens* Motschulsky, *L. (S.) laevis* Cast., *L. (S.) atkinsoni* Fauvel, *Borolinus sikkimensis* Bernhauer, *Priochirus* (*Triacanthochirus*) *bipunctatus* (Fauvel), *P. (T.) tridens* (Motschulsky), *P. (Cephalomerus)* *rubiginosus* Cameron, *Platystethus crassicornis* Motschulsky, *Osorius callifrons* Bernhauer, *O. kempfi* Bernhauer, *Philonthus fimetarius* (Gr.) and *Thoracostrongylus elegans* (Cameron) are also recorded for the first time from Arunachal Pradesh.

ACKNOWLEDGEMENT

The authors are thankful to the present Director, Dr. B. K. Tikader, for laboratory facilities and keen interest in the work and ex-Director Dr. K. K. Tiwari for allowing one of the authors (S. B) to undertake the Survey. Our thanks are also due to Dr. A. K. Ghosh, Deputy Director and Dr. T. Sengupta, Superintending Zoologist for their interest and encouragement.

REFERENCES

- CAMERON, M. 1930. *The fauna of British India including Ceylon and Burma. Coleoptera : Staphylinidae*, Vol I. Taylor and Francis, London.
- CAMERON, M. 1932. *The fauna of British India including Ceylon and Burma. Coleoptera : Staphylinidae*, Vol 3. Taylor and Francis, London.