

INSECTA : COLEOPTERA : PASSALIDAE AND LUCANIDAE

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INTRODUCTION

Passalid beetles are usually found in decaying wood and larvae of both Passalidae and Lucanidae develop in decaying wood. Abundance of dead tree and decaying wood in Namdapha forest has made it a very suitable home for members of these two families.

In this paper, altogether 144 examples belonging to 16 species under 9 genera have been dealt with, of these 11 species under 7 genera are from Passalidae and 5 species under 2 genera are from Lucanidae. Specific identity of a species has not been attempted due to lack of more material. References and synonymies for the species have been cited wherever necessary.

SYSTEMATIC ACCOUNT

Subfamily : AULACOCYCLINAE

Genus 1. *Aulacocyclus* Kaup 1868

1. *Aulacocyclus bicuspis* Kaup

1868. *Aulacocyclus bicuspis* Kaup, *Col. Hefte*, 3 : 5.

1914. *Taeniocerus bicuspis* Gravely, *Mem. Indian Mus.*, 3 : 210, pl. 11, fig. 9.

1949. *Aulacocyclus bicuspis*, Arrow *Fauna Brit. India*, 4 : 243-244.

Material examined : 19 exs., (9 exs., 40th Mile camp, 24.iv.1981 ; 7 exs., Hornbill, 13.iv.1981, 13.iv.1981 ; 3 exs., Namdapha, 23.iv.1981), S. Biswas coll.

Distribution : Malacca ; Burma ; India ; West Bengal (Darjeeling dist.), Assam. Now it is being recorded for the first time from Arunachal Pradesh (Namdapha).

Genus 2. *Ceracupes* Kaup 1871

2. *Ceracupes fronticornis* (Westwood)

1842. *Passalus fronticornis* Westwood, *Ann. Mag. nat. Hist.*, 8 124.

1914. *Ceracupes fronticornis* Gravely, *Mem. Indian Mus.*, 3 : 277.

1949. *Ceracupes fronticornis*, Arrow, *Fauna Brit. India*, 4 : 245.

Material examined : 1 ex., Firmbase, 18.iv.1981, S. Biswas coll.

Distribution : Burma, Thailand, Vietnam and India : West Bengal, Uttar Pradesh and Assam. Now it is being recorded for the first time from Arunachal Pradesh (Namdapha).

Subfamily : PASSALINAE

Genus 3. **Leptaulax** Kaup 1868

3. **Leptaulax dentatus** (Fabricius)

1792. *Passalus dentatus* Fabricius, *Ent. Syst.*, 1(2) : 241.

1914. *Leptaulax dentatus* Gravely, *Mem. Indian Mus.*, 3 : 252, pl. 13, fig. 52.

1949. *Leptaulax dentalus*, Arrow, *Fauna Brit. India*, 4 : 247-248.

Material examined : 14 exs., (7 exs., Gibbon's land, 30.iv.1981 ; 1 ex., Namdapha, 21.iv.1981 ; 5 exs., Zero camp, 9.iv.1981 ; 1 ex., Gibbon's land, 2.v.1981), S. Biswas coll.

Distribution : Burma, Vietnam, Thailand, Malaysia, Indonesia, Philippines, Sulawesi, Indonesia and India : West Bengal, Assam, Andaman, Islands and Arunachal Pradesh (Namdapha).

4. **Leptaulax cyclotaenius** Kuw

1891. *Leptaulax cyclotaenius* Kuw., *Dt. ent. Z.*, p. 188.

1949. *Leptaulax cyclotaenius*, Arrow, *Fauna Brit. India*, 4 : 248.

Material examined : 17 exs., (4 exs., Chiria camp, 25.iv.1981 ; 1 ex., Deban, 27.iv.1981 ; 2 ex., Namdapha, 21.iv. & 23.iv.1981 ; 5 ex., 40th Mile camp, 24.iv.1981 ; 5 exs., Hornbill, 13.iv. & 14.iv.1981), S. Biswas coll.

Distribution : Burma, Vietnam, Malaysia, Sulawesi, Indonesia and India : In India the species was known from Assam. Now it is being recorded from Arunachal Pradesh (Namdapha).

5. **Leptaulax bicolor** (Fabricius)

1801. *Passalus bicolor* Fabricius, *Syst. Eleuth.*, 2 : 256.

1918. *Leptaulax bicolor*, Gravely, *Mem. Indian Mus.*, 7 : 114.

1949. *Leptaulax bicolor*, Arrow, *Fauna Brit. India*, 4 : 249.

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

Distribution : Burma, Vietnam, Thailand, Hainan, Malaysia, Indonesia, Philippine, Sulawesi, Gilolo, New Guinea and India : West Bengal, Assam, Madras, Nicobar Islands, Arunachal Pradesh (Namdapha).

6. *Leptaulax roepstorffi* Kuw

1898. *Leptaulax roepstorffi* Kuw., Nov. Zool., 5 : 288.

1849. *Leptaulax roepstorffi*, Arrow, *Fauna Brit. India*, 4 : 249-250.

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

Distribution : Burma and India : Assam, Andaman Islands and Arunachal Pradesh (Namdapha).

Genus 4. *Tiberioides* Gravely 19137. *Tiberioides austeni* Gravely

1914. *Tiberioides austeni* Gravely, *Mem. Indian Mus.*, 3 : 216, pl. 11, fig. 15.

1949. *Tiberioides austeni*, Arrow, *Fauna Brit. India*, 4 : 254.

Material examined : 1 ex., Hornbill, 12.iv.1981, S. Biswas coll.

Distribution : Burma and India : Assam, Arunachal Pradesh (Namdapha).

Genus 5. *Episphenus* Kaup 18718. *Episphenus* sp. near *indicus* (Stoliczka)

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

Remarks : The specimen agrees in general with *E. indicus* whose known distribution is only in South India. As we have a single teneral specimen with us, we have not named the species.

9. *Episphenus neelgheriensis* (Percheron)

1841. *Passalus neelgheriensis* Percheron, *Mag. Zool.*, 11 : 4, pl. 41, fig. 1.

1914. *Episphenus neelgheriensis*, Gravely, *Mem. Ind. Mus.*, 3 : 222, pl. 11, fig. 21.

1949. *Episphenus neelgheriensis*, Arrow, *Fauna Brit. India*, 4 : 256.

Material examined : 6 exs., Namdapha, 21.iv.1981, S. Biswas coll.

Distribution : The species was known from South India and it is being recorded from Arunachal Pradesh (Namdapha).

Genus 6. *Aceraius* Kaup 186810. *Aceraius helferi* Kuw

1891. *Aceraius helferi* Kuw., *Dt. ent. Z.*, p. 163.

1914. *Aceraius tavoyanus* Gravely, *Mem. Indian Mus.*, 3 : 237.

1949. *Aceraius helferi*, Arrow, *Fauna Brit. India*, 4 : 261.

Material examined : 17 exs., (9 exs., Hornbill, 11, 14, 16.iv.1981 ; 3 exs., Namdapha, 22, 23.iv.1981 ; 5 exs., Gibbonland, 29.iv.1981) S. Biswas coll.

Distribution : Burma, Vietnam, Thailand, Malaysia and India : West Bengal, Assam, Sikkim and Arunachal Pradesh (Namdapha).

Genus 7. **Macrolinus** Kaup 186811. **Macrolinus sikkimensis** (Stoliczka)

1873. *Basilianus sikkimensis* Stoliczka, *Journ. Asiat. Soc. Bengal* 62(2) : 161.
 1914. *Macrolinus sikkimensis* Gravely, *Mem. Indian Mus.*, 3 : 243.
 1949. *Macrolinus sikkimensis*, Arrow, *Fauna Brit. India*, 4 : 266.

Material examined : 59 exs., (30 exs., Hornbill, 11, 14.iv.1981 ; 2 exs., Zero camp, 9.iv.1981 ; 10 exs., Namdapha, 22, 23.iv.1981 ; 3 exs., 40th Mile camp, 24.iv.1981 ; 2 exs., Chiria camp, 25.iv.1981 ; 3 ex., Deban, 28.iv.1981 ; 9 exs., Gibbon, 29, 30.iv.1981), S. Biswas coll.

Distribution : N. E. Burma, Indochina and India : West Bengal, Assam, Arunachal Pradesh (Namdapha).

Family : LUCANIDAE

Subfamily : LUCANINAE

Genus 1. **Dorcus** Macleay 18191. **Dorcus curvidens** (Hope)

1841. *Lucanus curvidens* Hope, *Trans. linn. Soc. Lond.*, 18 : 589.
 1845. *Dorcus dehaani* Hope, *Trans. linn. Soc. Lond.*, 19 : 106.
 1913. *Dorcus curvidens* Boil, *Trans. Ent. Soc. Lond.*, p. 253.
 1949. *Dorcus curvidens*, Arrow, *Fauna Brit. India*, 4 : 88-90.

Material examined : 1 ex., Miao, 6.v.1981, S. Biswas coll.

Distribution : Indonesia, Bhutan and India : West Bengal, Arunachal Pradesh (Namdapha).

2. **Dorcus occipitalis** (Hope & Westwood)

1845. *Lucanus occipitalis* Hope & Westwood, *Cat. Luc. Col.*, p. 13.
 1847. *Cladognathus marginatus* Burmister, *Handb. Ent.*, 5 : 369.
 1913. *Metopadontus occipitalis* Boil., *Trans. Ent. Soc. Lond.*, p. 226.
 1935. *Cladognathus marginatus* Arrow, *Trans. R. ent. Soc. Lond.*, 83 : 107.
 1949. *Dorcus occipitalis*, Arrow, *Fauna Brit. India*, 4 : 147-149.

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

Distribution : Burma, Malaysia, Indonesia, Philippines and India : Andaman Islands, Arunachal Pradesh (Namdapha).

3. **Dorcus oweni** (Hope & Westwood)

1845. *Lucanus oweni* Hope & Westwood, *Cat. Luc. Col.*, p. 14.
 1864. *Cladognathus oweni* Parry, *Trans. Ent. Soc. Lond.*, 2(3) : 82.
 1913. *Prosopocoelus oweni* Boil, *Cat. Luc. Col.*, p. 229.
 1949. *Dorcus oweni*, Arrow, *Fauna Brit. India*, 4 : 151-153.

Material examined : 1 ex., Hornbill, 11.iv.1981, S. Biswas coll.

Distribution : Vietnam, Bhutan and India : West Bengal, Assam, Arunachal Pradesh (Namdapha).

4. *Dorcus foveatus* (Hope)

1841. *Lucanus foveatus* Hope, *Trans. linn. Soc. Lond.*, 18 : 590.
 1845. *Lucanus fraternus* Hope & Westwood, *Cat. Luc. Col.*, p. 12.
 1869. *Cladognathus impressus* Wat., *Trans. Ent. Soc., Lond.*, p. 17.
 1870. *Metopodontus impressus* Parry, *Trans. Ent. Soc. Lond.*, p. 78, pt. 3, fig. 1.
 1913. *Metopodontus foveatus* Boil, *Trans. Ent. Soc. Lond.*, p. 224.
 1949. *Dorcus foveatus*, Arrow, *Fauna Brit. India*, 4 : 165-167.

Material examined : 2 exs., (1 ex., Miao, 2.iv.1981 ; 1 ex., Miao, 6.v.1981), S. Biswas coll.

Distribution : Burma, Bhutan and India : West Bengal, Assam, Manipur, Andaman Islands and Arunachal Pradesh (Namdapha).

Genus 2. *Calcodes* Westwood, 1834

5. *Calcodes siva* (Hope & Westwood)

1845. *Lucanus siva* Hope & Westwood, *Cat. Luc. Col.*, p. 16.
 1885. *Odontolabis siva* Leuthner, *Trans. Zool. Soc. Lond.*, p. 436, pl. 86, fig. 1-7.
 1937. *Calcodes siva* Arrow, *Trans. R. ent. Soc. Lond.*, 86 : 241, pl. 1, fig. 2.
 1949. *Calcodes siva*, Arrow, *Fauna Brit. India*, 4 : 200-201.

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

Distribution : Vietnam, Bangladesh and India : West Bengal, Assam, Arunachal Pradesh (Namdapha).

SUMMARY

16 species under 9 genera of Lamellicorn beetles of families Passalidae and Lucanidae have been recorded. Of these 7 genera and 11 species are of Passalidae and 2 genera and 5 species are of Lucanidae. *Macrolinus sikkimensis* is the most common species of the area.

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