

NOTES ON A COLLECTION OF GALERUCINAE
(COLEOPTERA : CHRYSOMELIDAE) FROM N. E. INDIA

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INTRODUCTION

This report is based on the collection of Chrysomelidae subfamily Galerucinae—which have been collected by various survey parties from the Zoological Survey of India in Assam, Sikkim and N.E.F.A. regions.

These surveys were conducted by our colleagues as shown below :—

Dr. A. G. K. Menon	Sikkim, 1959	(A.G.K.M.)
Dr. K. C. Jayramakrishnan	N.E.F.A., 1961	(K.C.J.)
Shri S. Biswas	N.E.F.A., 1961	(S.B.)
Shri G. Ramakrishna	Sikkim, 1962	(G.R.)
Dr. S. K. Bhattacharyya & Dr. A. N. T. Joseph	Assam, 1965	(S.K.B. & A.N.T.)

This collection comprises 22 species, spread over 13 genera. One new species *Merista jayrami* Vazirani, has also been described earlier by the senior author (1970). There are ten species which constitute new records from Sikkim. Many species known from Assam etc. are also now reported from N.E.F.A.

LIST OF SPECIES OF THE SUBFAMILY GALERUCINAE

1. *Merista dohrni* (Baly)
2. *M. sexmaculata* (Kollar & Redtenbacher)
3. *M. trifasciata* (Hope)
4. *M. fallax* Harold
5. *Oides maculata* (Olivier)
6. *O. scutellata* (Hope)
7. *Aulacophora foveicollis* (Lucas)
8. *Agetocera hopei* Baly
9. *Hoplasoma unicolor* (Illiger)
10. *Paridea (Paridea) octomaculata* (Baly)
11. *P. (P.) perplexa* (Baly)

12. *Mimastra cyanura* (Hope)
13. *Cneorane rubricollis* (Hope)
14. *C. rugulipennis* Baly
15. *Dercetis flavocincta* (Hope)
16. *Monolepta signata* (Olivier)
17. *Aplosonyx chalybaeus* Hope
18. *A. duvivieri* (Jacoby)
19. *Leptarthra abdominalis* Baly
20. *L. collaris* Baly
21. *Gallerucida bicolor* (Hope)
22. *Hylaspes longicornis* Baly

SYSTEMATIC ACCOUNT

Order	COLEOPTERA
Family	CHRYSOMELIDAE
Subfamily	GALERUCINAE

1. *Merista dohrni* (Baly)

1861. *Leptarthra dohrni* Baly, *J. Ent. Lond.*, London, 1: 203.
 1936. *Merista dohrni*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 143.

Material.—1 ex., Western Sikkim, 8.iv.1959 A.G.K.M. Coll.;
 2 exs., Kameng N.E.F.A., Membachur, 9.vi.1961, K.C.J. Coll.

Remarks.—It is known to occur in Darjeeling, Khasi hills, Manipur, Burma (Ruby mines) and is now being reported from Sikkim and Kameng Div. of N.E.F.A.

2. *Merista sexmaculata* (Kollar & Redtenbacher)

1848. *Galleruca sexmaculata* Kollar & Redtenbacher, in Hugel's, *Kaschmir und des Reich der Siek*, Stuttgart, 4: 555.
 1936. *Merista sexmaculata*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 145.

Material.—2 exs., Sikkim: Thombyak, 30.v.1959, A.G.K.M. Coll.; 1 ex., Sikkim: Twing, 10.v.1962, S. Ali; 2 exs., N.E.F.A.: Kameng Div., 20.vi.1961, K.C.J. Coll.

Remarks.—It is so far reported from Western Himalayas (Kashmir, Mukteswar, Almora, Mussoorie, Sundedhung valley), Eastern Himalayas (Kurseong, Darjeeling, Gangtok, Gopaldhara) and Orissa. The new record from N.E.F.A. adds to the range of its distribution in Eastern Himalayas.

3. *Merista trifasciata* (Hope)

1831. *Galleruca trifasciata* Hope in Gray's, *Zool. Miscellany*, London: 28.

1936. *Merista trifasciata*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 147.

Material.—Sikkim: 9 exs., Thombe, 13-14.vi.1959; 6 exs., Yanthang, 31.vii.1959; 23 exs., Lachen, 24.vi.1959; 1 ex., Yoong, 31.viii.1959; 5 exs., Rishikola, 8.v.1959; 1 ex., Mangan, 11.viii.1959; 1 ex., Dentam, 4.iv.1959; 1 ex., Lingship, 24.iv.1959, all A.G.K.M. Coll. N.E.F.A.: Kameng Div., Bomdila, 30.vi.1961, K.C.J. Coll.

Remarks.—This species is distributed throughout Himalayan region including Sikkim, and the present record from N.E.F.A. adds to its range of distribution in the Eastern Himalayas.

4. *Merista fallax* Harold

1880. *Merista fallax* Harold, *Stettin. ent. Ztg.*, 41: 143.

1936. *Merista fallax*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 148.

Material.—Sikkim: 3 exs., Mangan 9.v.1959; 1 ex., Teng, 30.vii.1959; 1 ex., Chungthang, 12.v.1959; 1 ex., Lachung, 6.vii.1959; 1 ex., Tothapani, 10.iv.1959, all A.G.K.M. Coll.; 1 ex., Lingship, 18.v.1959, G.R. N.E.F.A.: Kameng Div., 2 exs., Ankaling, 17.v.1961; 1 ex., Dengzi, 29.v.1961; Kalktang, 30.v.1961; 1 ex., Bokklar, 28.v.1961, all K.C.J. Coll.

Remarks.—This species is reported throughout the Eastern Himalayas including Sikkim: Gangtok; Assam: Mishmi hills; W Bengal: Buxar Duars.

5. *Oides maculata* (Oliver)

1807. *Adorium maculata* Olivier, *Entomologie, ou Histoire Naturelle des Insectes* 5, no. 92 bis, p. 611.

1936. *Oides maculata*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 113.

Material.—Sikkim: 1 ex., Rishikhola, 7.v.1959, A.G.K.M. Coll. N.E.F.A.; Kameng Div., 1 ex. Ankaling, 24.vi.1961, K.C.J. Coll.

Remarks.—This species is very widely distributed in India: Uttar Pradesh, W Bengal, Assam, Andaman Islands and also recorded from Sikkim; Burma; Indonesia and Cambodia.

6. *Oides scutellata* (Hope)

1831. *Adorium scutellata* Hope, in Gray's, *Zool. Miscellany*, London: 28.

1936. *Oides scutellata*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 119.

Material.—1 ex., Sikkim: Famthang, 17.xi.1959, A.G.K.M. Coll.

Remarks.—This is a very widely distributed species. Originally reported from Nepal, it has also been reported from Himachal Pradesh: Simla; Uttar Pradesh: Almora, Kumaon, Ranikhet, Nainital; Assam: Khasi hills. It is now being reported from Sikkim for the first time.

7 *Aulacophora foveicollis* (Lucas)

1849. *Galeruca foveicollis* Lucas, *Exploration scientifique de l'Algerie.....Zoologie*, 2, Insectes, Paris: 542.

1936. *Aulacophora foveicollis*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 173.

Material.—N.E.F.A.; 1 ex. Kameng Div., 4.vii.1961 S.B. Coll.

Remarks.—It is a widely distributed species extending from North Africa (Algeria, Egypt, Cyprus) Himalayan and sub-himalayan regions in India, to Burma and Andaman Islands.

8. *Agetocera hopei* Baly

1865. *Agetocera hopei* Baly, *Trans. ent. Soc. Lond.*, (3) 2 (5): 438.

1936. *Agetocera hopei*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 130.

1963. *Agetocera hopei*: Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B: 496.

Material.—Sikkim: 1 ex., Manshithang, 26.vii.1959; 1 ex., Bichhu, 14.vii.1959; 1 ex., Lingship, 24.iv.1959, all A.G.K.M. Coll.; N.E.F.A.: Kameng Div., Ankaling 26.v.1961, K.C.J. Coll.

Remarks.—It is distributed throughout the Himalayan range, extending to Burma and Java. It is reported in India from Uttar Pradesh, N. Bengal, Assam, Manipur and also from Sikkim and Tibet.

9. *Hoplasoma unicolor* (Illiger)

1800. *Galeruca unicolor* Illiger, in Wiedemann, *Arch. fur Zool. u. Zoot.*, 1 (2): 135.

1936. *Hoplasoma unicolor*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 161.

1963. *Hoplasoma unicolor* : Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B : 499.

Material.—N.E.F.A. : 1 ex., Kameng Div., Ankaling, 24.v.1961, *K.C.J* : Assam : 3 exs., Missimari, 1.xi.1965, *S.K.B.* & *A.N.T.J* Coll.

Remarks.—It is a very widely distributed species in Oriental Region.

10. *Paridea (Paridea) octomaculata* (Baly)

1886. *Aulacophora octomaculata* Baly, *J. Linn. Soc.*, 20 : 17.

1936. *Paridea octomaculata* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 504.

1963. *Paridea (Paridea) octomaculata* : Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B : 514.

Material.—Sikkim : 2 exs., Lachen, 9.vi.1959 ; 1 ex., Thombu, 14.vi.1959 ; 1 ex., Yathang, 15.vi.1959 ; 1 ex., Lathung, 15.v.1959 ; 4 exs., Sachu, 16.v.1959, all *A.G.K.M.* Coll. ; 1 ex., Dickchu, 6.v.1962 ; 1 ex., Shishney, 2.v.1962, *G.R.* Coll. N.E.F.A. : 1 ex., Kameng Div., 8.v.1961, *K.C.J.* Coll.

Remarks.—It is earlier reported in India : Assam, Manipur, Uttar Pradesh : Mussoorie and Almora (in Western Himalayas) and Tibet. It is now being reported from Sikkim and N.E.F.A. region for the first time.

11. *Paridea (Paridea) perplexa* (Baly)

1879. *Aulacophora perplexa* Baly, *Cistula Entomologica*, London, 2 : 447.

1936. *Paridea perplexa* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 505.

1963. *Paridea (Paridea) perplexa* : Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B : 514.

Material.—Sikkim : 1 ex., Chu fun fun, 14.v.1959, *A.G.K.M.* Coll. ; 1 ex., Singhik, 14.v.1962, *G.R.* Coll.

Remarks.—It is known to occur in Assam, Manipur, W Bengal (Mungphu) and Burma. It is now being recorded from Sikkim for the first time.

12. *Mimastra cyanura* (Hope)

1831. *Auchenia cyanura* Hope, in Gray's, *Zool. Miscellany*, London : 29.

1936. *Mimastra cyanura* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 529.

1963. *Mimastra cyanura* : Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B : 536.

Material.—Sikkim : 1 ex., Mangan, 9.v.1959, A.G.K.M. Coll.

Remarks.—It occurs in Kashmir, Northern India, Manipur and also in Burma, Nepal and S. China. It is now being reported from Sikkim for the first time.

13. *Cneorane rubricollis* (Hope)

1831. *Galleruca rubricollis* Hope, in Gray's *Zool. Miscellany*, London : 29.

1936. *Cneorane rubricollis* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 338.

Material.—Sikkim : 2 exs., Yanthang, 16.vi.1959, A.G.K.M. Coll. ; 1 ex., Kewzing, 19.v.1962, G.R. Coll. ; N.E.F.A. : 1 ex., Kameng Div., Moshing, 3.vi.1961, K.C.J. Coll., 1 ex., Nyukmar, 21.iv.1961, K.C.J. Coll.

Remarks.—Earlier reported from Nepal ; India : North Bengal, Bihar and Assam, it is now being recorded from Sikkim for the first time.

14. *Cneorane rugulipennis* Baly

1886. *Cneorane rugulipennis* Baly, *Trans. ent. Soc.*, 1886 : 27.

1936. *Cneorane rugulipennis* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 339.

Material.—N.E.F.A. : 1 ex., Kameng Div., 22.iv.1961, K.C.J. Coll.

Remarks.—It is distributed through out Himalayan belt including Burma. Its record from N.E.F.A. fills in one of the gaps in its known distribution.

15. *Dercetes flavocincta* (Hope)

1831. *Galleruca flavocincta* Hope, in Gray's, *Zool. Miscellany*, London, 1831 : 29.

1936. *Dercetes flavocincta* : Maulik, *Fauna Brit. India, Chrysomelidae : Galerucinae*, London : 355.

Material.—Sikkim : 1 ex., Phom, 28.vi.1959 ; 1 ex., Gangtok, 17.vii.1959, all A.G.K.M. Coll. ; 1 ex., Dickchu, 15.v.1962, 4 exs., Kewzing, 19.v.1962, all G.R. Coll.

Remarks.—Earlier reported from Nepal ; India : W Bengal and Assam, it is now being reported from Sikkim for the first time.

16. *Monolepta signata* (Olivier)

1808. *Galleruca signata* Oliver, *Entomologie, ou Histoire Naturelle des Insectes*, Paris, 6, no. 93: 665.
1936. *Monolepta signata*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 410.
1963. *Monolepta signata*: Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B: 633.
Material.—Assam: 6 exs., Missimari, 1.xi.1965, S.K.B. & A.N.T.J Coll.

Remarks.—This species is known from India: Assam, S. India; Ceylon, Burma, Tibet, S. China, Thailand, Indo-China, and Hong Kong.

17 *Aplosonyx chalybaeus* (Hope)

1831. *Calleruca chalybaeus* Hope, in Gray's, *Zool. Miscellany*, London, 1831: 28.
1936. *Aplosonyx chalybaeus*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 614.
1963. *Aplosonyx chalybaeus*: Gressit and Kimoto, *Pac. Ins. Mon.*, 1 B: 653.

Material.—Sikkim: 3 exs., Rishikhola, 5.iv.1959; 1 ex., Naga, 2.viii.1959; 1 ex., Thombyak, 2.vi.1959, all A.G.K.M. Coll.; 1 ex., Singhik, 14.v.1962; 1 ex., Kewzing, 19.v.1962, all G.R. Coll.; 1 ex., Rhanack, 3.v.1962; 1 ex., Rongli, 2.v.1962, S. Ali. Coll. N.E.F.A.: Kameng Div.: 1 ex., Milankang, 19.iv.1961; 5 exs., Salari, 23.vii.1961; 1 ex., Dengzi, 29.v.1961, all K.C.J. Coll.

Remarks.—It is found along the Himalayan Range from Nepal to Burma, also Tibet and Vietnam. Its present record from Sikkim and N.E.F.A. fills gaps in its distribution.

18. *Aplosonyx duvivieri* (Jacoby)

1900. *Haplosonyx duvivieri* Jacoby, *Mem. Soc. Ent. Belg.*, 7: 130.
1936. *Aplosonyx duvivieri*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 618.

Material.—N.E.F.A.: Kameng Div., Bitselling, 16-25.v.1961, K.C.J Coll.

Remarks.—So far known to occur in Assam: Khasi hills, it is now being reported from N.E.F.A.

19. *Leptarthra abdominalis* Baly

1861. *Leptarthra abdominalis* Baly, *J. Ent. Lond.*, 1: 203.
1936. *Leptarthra abdominalis*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 610.

Material.—Sikkim : 1 ex., Rishikhola, 7.v.1959 ; 1 ex., Manul, 10.v.1959, 1 ex., Grazing, 27.iv.1959, all A.G.K.M. Coll.

Remarks.—It is known to occur in Eastern Himalayas, Darjiling, Mungphu and is now being reported from Sikkim.

20. *Leptarthra collaris* Baly

1878. *Leptarthra collaris* Baly, *Cistula Entomologica*, London, 2: 382.

1936. *Leptarthra collaris*: Maulik, *Fauna Brit. India, Chrysomelidae, Galerucinae*, London: 611.

Material.—Sikkim : 1 ex., 1959, A.G.K.M. Coll.

Remarks.—It is known to occur in Western Himalayas: Murree, Thobba, Chamb. Present record from Sikkim adds to the eastwards range of its distribution.

21. *Gallerucida bicolor* (Hope)

1831. *Galleruca bicolor* Hope, in Gray's, *Zool. Miscellany*, London, 1831: 29.

1936. *Gallerucida bicolor*: Maulik, *Fauna Brit. India, Chrysomelidae, Galerucinae*, London: 554.

Material.—Sikkim : 1 ex., Lingship, 25.iv.1959 ; 1 ex., Bugtan, 9.iv.1959 ; 1 ex., Lachen, 25.v.1959, all A.G.K.M. Coll. ; 7 ex., Makai Bari, 30.vi.1962 ; 3 exs., Shishney, 2.v.1962 ; 1 ex., Rongli, 29.iv.1962, all G.R. Coll.

Remarks.—This species is widely distributed in sub-himalayan region, lower Burma and Western Ghats. It is now being recorded from Sikkim for the first time.

22. *Hylaspes longicornis* Baly

1865. *Hylaspes longicornis* Baly, *Trans. ent. Soc.*, (3) 2: 436.

1936. *Hylaspes longicornis*: Maulik, *Fauna Brit. India, Chrysomelidae: Galerucinae*, London: 602.

Material.—Sikkim : 1 ex., Lachen, 6.vi.1959, A.G.K.M. Coll.

Remarks.—It is already known from Assam and Burma and Sikkim. Gresseit and Kimoto, 1963, have placed this genus as a synonym of *Gallerucida* Motschulsky, as synonym nov., but in the absence of any reasons given by them, we retain it as a separate genus.

SUMMARY

Twenty two species of Chrysomelidae: Galerucinae are recorded in this paper from Sikkim and N.E.F.A. regions of

India. Ten of these species constitute new records from Sikkim and many species so far known from Assam are also now recorded from N.E.F.A.

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