

A CHECK LIST OF GRASSHOPPER FAUNA (ORDER: ORTHOPTERA) OF HIMACHAL PRADESH, WESTERN HIMALAYA, INDIA

by

M.S.Thakur¹ and S. K. Thakur

1. Department of Biosciences, Himachal Pradesh University
Shimla-171005, India.

E mail: mahender74@yahoo.co.in

Abstract

An inventory of the grasshopper fauna of Western Himalaya Himachal Pradesh (Latitude 30°21' to 33°12' N latitude and 75°47' to 79°4' E longitude) is prepared first time. It included 151 species under 13 families. Out of these 68 species belongs to family Acrididae; 7 to Pyrgomorphidae; 12 to Tetrigidae; 2 to Tridactylidae; 2 to Gryllotalpidae; 37 to Gryllidae; 1 to Myrmecophilidae; 2 to Trigonidae; 10 to Tettigonidae; 1 to Phaneopteridae; 5 to Concephalidae; 1 to Mecapodidae and 3 to Eneopteridae.

Keywords : Orthopteran Biodiversity, Western Himalaya, Himachal Pradesh

Introduction

India provide an unique habitat for orthopteran insects, because there are humid grasslands in east and Northeast India, semi-arid grasslands in Northeast and Southern parts of India, vast agricultural fields, sub-montaneous forests and scrub jungles, vegetation adjoining lakes, river basins and numerous water bodies scattered throughout the country. The quantitative concentration of the species varies from season to season and also from one region to other region of the country. However, in India, maximum concentration of the species were recorded during monsoon and post monsoon season (June to Sept.) when the growth of all types of vegetation of the natural grass fields as well as in the agriculture fields are in optimum condition. On the other hand, maximum diversity of orthopteran species was encountered in the typical tropical rain forest areas of Northeastern states; Nilgiri, Wynad, silent valley areas of south India, and the terai and dooars regions of the Himalayan foot hills (Tandon and Hazra, 1998).

The number of known species of Orthoptera from the whole world is about 20,000 and out of these 1,750 species (Tandon & Hazra, 1998)

nearly 10% are known from India. They are economically important insects, as some species cause considerable damage to crops, vegetables and forest plantations. Orthopterans of Himachal Pradesh have been studied earlier by Julka, *et.al.* (1982), Bhowmick & Halder (1984), Bhowmick (1985), Mehta *et. al.* (2002), Shishodia *et. al.* (2003), Thakur *et. al.* (2008, 2010, 2012, 2011). But, no check list of orthopteran fauna of Western Himalaya of Himachal Pradesh has been prepared so far. So, present study was carried out to study the orthopteran diversity in different climatic zones of Himachal Pradesh.

Materials and Methods

In the present work, an attempt has been made to study the Orthoptera diversity of Himachal Pradesh (situated at 30°22' to 33°12' N latitude and 75°45' to 79°04' E longitude). The boundaries of the state extend from the plains of Haryana and Punjab to the snowy ranges adjoining Jammu and Kashmir, Uttaranchal and Tibet. The most of the region of the state are mountainous and rugged. The elevation varies from 350 meters in foot hills to 6975 meters in high hills. Average rainfall ranges from 1000 mm

to 2500 mm and temperature varies from +30° C to -30°C, depending upon the localities as well as seasons.

The state has been divided into four physiographic regions viz.

- 1. Shivalik or Outer Himalayas (450-1500m)
- 2. Lower or Lesser Himalayas (1500-3500m)
- 3. Higher or Greater Himalayas (3500-4500m)
- 4 Trans – Himalaya (Above-4500m).

Grasshoppers & nymph were collected from the different places of Western Himalaya of Himachal Pradesh. In every occasion collection were made 9.30 A.M. to 12.30 P.M., after fortnightly intervals. Most of them were collected by sweeping insect net of conventional design of 38 cm diameter made up of thick wire of metal were used. The depth of the net bag was 75 cm. Some califerana were directly picked up from bare ground directly by hand or with the help of fine forceps. Very few were comes under light trap. Collected specimens were killed with the help of killing bottle, made up of glass jar with broad mouth and air tight lid. In this method cotton soaked with benzene solution were kept at the base of glass jar and covered by a filter paper of the size of bottle diameter. For temporary storage in the filed they were kept in insect envelop. Before permanent storage in insect cabinets such collections were washed in ethyl alcohol in laboratory and then specimens were pinned by using entomological pin no. 3, 16, and 20. Smaller specimens, such as Tridactylids, Tetrigidids were mounted on card board triangles staged on pins. Specimens after proper orientation ready for identification (Tandon, 1990). The general venation of wings, antennae and labial palpi have been taxonomically considered as the most reliable and stable characters for the identification *viz-a-viz.*, diagnosis of different taxa of the orthopterans especially grasshoppers. Their examination with precision is thus, an essential pre-requisite for the adequate understanding of various species and genera. Identification was done with help of records of Entomology and Biodiversity Research Laboratory, Department of Biosciences, Himachal Pradesh University, Shimla and High Altitude Zoological Field station

(HAZFS), Zoological survey of India, Solan. These were later on confirmed, by the taxonomists of Zoological survey of India, (ZSI), Kolkata; Indian Agricultural Research Institute (IARI), New Delhi; and Forest Research Institute (FRI), Dehradun.

Results

A total of 151 species of grasshoppers spread over 13 families and 35 genera were recorded from different habitat of Himachal Pradesh. Analysis of collected species reveals that the family Acrididae comprises maximum number of species (68) followed by Gryllidae (37), Tetrigidae (12), Tettigonidae (10), Pyrgomorphidae (7), Concephalidae (5), Eneopteridae (3), Tridactyllidae (2), Gryllotalpidae (2), Trigonididae (2) and Myrmecophilidae, Phaneopteridae & Mecapodidae(01each).

Systematic Account Family: Acrididae

Subfamily: Acridinae

1. *Acrida exaltata* (Walker)

1859. *Traxalis exaltata* Walker, Ann. Mag. Nat. Hist., 4(3): 222.

1914. *Acrida exaltata*, Kirby, Fauna British India, Orthoptera (Acrididae): 99.

Material examined: 3M, 7.ix.2003, Thara (HMR); 2F, 4M, 1M (N), 8.ix.2003, Badhere; 1M, 1.vi.85, Khaliar, Mandi; 1F, 27.ix.84, Bijni, Mandi; 1F, 5.v.85, Panarsa Mandi; 1Nymph, 5.viii.71, Rajgarh road Solan; 1F, 21.vii.82, Mahan, Sirmour; Nymph, 1F, 16.vii.82, Paonta, Sirmour; 1F, 13.ix.84, Larji, Mandi; 1F, 13.xii.76, Tarash Keral; 1M, 30.vii.84, Sunder Nagar, Mandi; 2M, 20.ix.76, Kotala Nala, Solan; 1Nymph, 18.vii.76, Suralu Khud, Solan; 1M, 31.i.2001 Baner Khad, Kangra. 2M, 2F, 28.vii.2002, Jawali, Kangra; 2M, 29.vii.2002, Haripur, Kangra; 1F, 13.x.99, Dehra Pongdam; 1M, 9.x.99, Nagrota Surian, Kangra; 1F, 9.ix.71, Solan; 3M & Nymph, 28.viii.77, Solan; 6F, 8M, 18.ix.80, Pandoh, Mandi; 3M, 2F, 29.ix.80, Near lake Bilaspur; 4M, 29.ix.80, Chakkar, Mandi; 1M, 23.ix.80, River side, Mandi; 3M, 1F, 23.ix.80, Sunder Nagar; 3M, 1F, 2.x.80, Bilaspur; 1M, 29.x.92, Renuka Wet land area.

2. *Acrida indica* Dirsh

Acrida Indica Dirsh, 1954.

Material examined: 1M, 1F, 2.ix.2003, Nangal; 1F, 17.ix.2003, Una.

3. *Ceracris nigricornis nigricornis* (Walker)

1870. *Ceracris nigricornis* Walker, Cat. Derm. Salt. Br. Mus., 4: 791.

1925. *Ceracris nigricornis nigricornis* Uvarov, Ent. Mitt. Beri., 14: 13.

Material examined: 3M, 3F, 7.ix.2003 Thara; 8M, 9F, 22.ix.2003, Thara Jahu; 2M 8.x.76, Bijni, Mandi; 1F, 19.ix.84, Sirmour; 2M, 19.x.81, Sarkaghat, Mandi; 4M, 5F, 12.ix.80, Glen Shimla; 2M, 5F, 15.ix.80, Kufri, Shimla; 3F, 14.ix.80, Taradevi Shimla; 1M, 1F, 7.ix.73, Saproon, Solan.

4. *Ceracris* sp.

Material examined: 1M, 2F, 27.6.1992, Renuka, Sirmour; 1F, 29.ix.92, Renuka, Sirmour.

5. *Sikkimiana darjeelingensis* (Bolivar)

1914. *Sjoestedtia darjeelingensis* Bolivar, Trab. Mus. Nac. Cienc. Nat. Madr. (Zool.), 20: 110.

Material examined: 1F, 5.xi.71, Kiarthu, Sirmour; 10M, 1F, 21.ix.80, Drang, Mandi; 2M, 23.ix.80, River side, Mandi; 2M, 18.ix.80, Pandoh, Mandi; 1M, 18.ix.71, Solan.

6. *Holopercna darjeelingensis* (Bolivar)

1914. *Sjoestedtia darjeelingensis* Bolivar, Trab. Mus. Nac. Cienc. Nat. Madr., 20: 77.

1984. *Holopercna darjeelingensis* Jago, Trans. Amer. Ent. Soc., 109: 78.

Material examined: 1M Nymph, 18.vii.92, Renuka Lake, Sirmour.

7. *Orthochtha indica* Uvarov

1942. *Orthacatha indica* Uvarov, Ann. Mag. Nat. Hist., 9(11): 587.

Material examined: 1F, 1M, 15.x.76, 1M, 1F, 20.ix.76, Kotla Nala, Solan; 1F, 13.ix.76, Jurusu Solan; 1F Khaliar Mandi; 7M, 15.x.76, Solan; 1M, 19.iii.77, Solan; 1F, 24.viii.77, Solan; 1M, 30.vii.76, Saproon, Solan.

8. **Phlaeoba infumata* Brunner

1893. *Phlaloba infumata* Brunner, Annali Mus. Civ. Stor. Nat. Giacomo Doria, 33: 124.

1914. *Phlaloba infumata* Kirby, Fauna British India, Orthoptera (Acridiidae): 103.

Material examined: 1F, 7.viii.2003, Tihra Lambri; 3M, 5.ix.2003, Chamba vicinity; 1F, 7.ix.2003, Thara Jahu; 8F, 2M, 8.ix.2003, Badhere (HMR); 1M, 15.ix.003, Tihra Lambri; 2M, 22.ix.2003, Thara Jahu; 1M, 7.ix.72, Sarkaghat, Mandi; 1M, 1F, 2.iv.72, Bilaspur; 1F, 15.iv.72, Bamta, Bilaspur; 1F, 8.iv.72, Ghumar, Bilaspur;

1M, 11.vi.85, Trella, Chamba; 1M, 4.v.85, Baggi, Mandi; 4Nymph, 4M, 1F, 29.vi.85, Badanu, Mandi; 3M, 3F, 29.vii.2002, Jawali Kangra; 1F, 29.i.2001, Haripur, Pongdam; 1M, 31.i.2001, BanerKhud, Kangra.

9. *Phlaeoba panteli* Bolivar

1902. *Phlaeoba panteli* Bolivar, Anns. Soc. Ent. Fr., 70: 581.

1910. *Phlaeoba walhousci* Kirby, Syn. Cat. Orth., 3: 138.

Material examined: 1F, 5.ix.2003 Chamboh; 1M, 7.ix.2003, Thara; 1F, 22.ix.2003, Thara; 1F, 23.iv.92, Renuka lake, Sirmour; 1F, 25.viii.92, Renuka lake, Sirmour; 1F, 18.x.84, Khaliar, Mandi; 1F 20.x.70, Koti, Jabli, Solan; 1M, 15.vii.75, Poanta, Sirmour; 2M, 20.ix.80, Chakkar, Mandi; 1F, 21.ix.80, Drang, Mandi; 1M 18.ix.80, Pandoh, Mandi; 1F, 23.ix.80, Mandi; 1M, 17.ix.80, PWDRH, Mandi; 1M 17.ix.80, Renuka lake, Sirmour; 1M, 1F 8.iv.72, Bilaspur.

10. *Gonistta sagitta* (Uvarov)

1912. *Gelastorrhinus sagitta* Uvarov, Horae. Soc. Ent. Ross, xl (3): 10.

1902. *Gelastorrhinus tryxaloides* Bolivar, Anns. Soc. Ent. Fr., 70: 617.

Material examined: Renuka lake, Sirmour; 1M, 1F 8.iv.72, Bilaspur.

11. *Gelastorrhinus laticornis* Serville

1839. *Opomala laticornis* Serville, Hist. Nat. Insects, Orth.: 590.

1914. *Gelastorrhinus laticornis* Kirby, Fauna British India, 1: 217.

Material examined: 2M, 12.vii.76, Rabourn Khad, Solan.

Subfamily: Truxalinae**12. *Truxalis grandis fitzgeraldis* Dirsh**

1950. *Truxalis grandis fitzgeraldis* Dirsh, Eos. Tomo. Extraond (1951): 119-241.

Material examined: 1F, 22.vii.82, Nahan, Sirmour.

Subfamily: Calliptaminae**13. *Caloptenopsis glaucopsis collina* Uvarov**

1950. *Caloptenopsis glaucopsis collina* Uvarov, Eos. Tomo. Extraond: 387

Material examined: 1M Saproon, 25.ii.74,

Solan.

Subfamily: Gomphocerinae

14. *Chorthipus (Chorthipus) Indus (Uvarov)*

1942. *Chorthipus almoranus*, Uvarov, Eos. Tomo. Extraord, 18: 97-98.

Material examined: 1M, 8.x.76, Kotla Nala, Solan; 1M 12.v.70, Koatgharh, Shimla; 1F, 10.xi.70, Dagshai; 1M, 30.viii.71, Sissu, Lahaul Spiti.

15. *Chorthipus (Glyptobothrus) hammerstraeni (Miram)*

1906. *Corthippus hammerstroemi* Miram, Bey-Bienko and Mistshenko, 1951. Zool. Inst. USSR. Acad. Sci. No.2, Part 2: 171.

Material examined: 2M(9Nymph), 2.x.80, Sunder Nagar; 4M, 8F, 27.ix.80, Manali, Kullu; 14M, 6F, 25.ix.80, Vaishisht, Manali Kullu; 5M, 26.ix.80, Rhotang Pass, Manali Kullu; 1F, 26.ix.80, Mandi; 3M, 20.iv.77, Solan.

16. *Dnopherula (Aulacobothrus) luteipes (Walker)*

1871. *Stenobothrus luteipes* Walker, Cat. Derm. Salt. Br. Mus., 5: 82.

1971. *Dnopherula (Aulacobothrus) luteipes* Jago, Proc. Acad. Sci. Nat. Philad., 123(8): 243.

Material examined: 1F, 1.xi.72, Shimla; 1F, 18.vi.70, Ashni Khad, Shimla; 2M, 1F, 14.ix.2002, Pandoh, Mandi; 1M, 2F, 18.ix.80, Mandi; 2F, 2.x.80, Bilaspur; 1M, 4F 20.ix.80, Chakkar, Mandi; 5M, 12.ix.80, Glen, Shimla; 2M, 1F, 2.x.80, Sunder Nagar; 1M, 26.ix.80, Rohtang Pass, Manali Kullu; 2M, 5(Nymph), 25.ix.80, Vashisht, Manali; 8M, 7F, 30.xi.76, Solan; 12M, 13F, 15.xi.76, Solan; 4M, 3F, 9.ix.77, Solan.

17. *Dnopherula (Aulacobothrus) socius (Bolivar)*

1902. *Aulacobothrus socius* Bolivar, Anns. Soc. Ent. Fr., 70: 599;

1971. *Dnopherula (Aulacobothrus) socius* Jago, Proc. Acad. Sci. Nat. Philad., 123(8): 243.

Material examined: 1F, 15.x.76; 1F, 14.x.81, Happy valley, Solan; 1M, 7.ii.74, Dev Ghat, Solan; 1F, 15.x.76; 1F, 13.ix.84, Larji, Kullu; 1F, 19.x.81, Saranh, Sirmour; 1M, 31.i.2001, Baner Khad, Kangra.

18. *Dnopherula (Aulacobothrus) strictus (Bolivar)*

1902. *Aulacobothrus strictus* Bolivar, Anns. Soc. Ent. Fr., 70: 598;

1971. *Dnopherula (Aulacobothrus) strictus* Jago, Proc. Acad. Sci. Nat. Philad., 123(8): 247.

Material examined: 1M, 18.v.71, Sadhu Pool, Solan; 1M, 10.xi.70, Dagshai, Solan. **19. *Dnopherula (Aulacobothrus) sp.***

Material examined: 1M, 5.ix.2003 Chamboh vicinity; 1M, 7.ix.2003, Thara Sulgwan; 2M, 8.ix.2003, Badhere; 1F, 9.ix.2003, Jahu Khad; 2M, 22.ix.2003, Thara Jahu; 1F, 14.x.2003, Manyoh Tihra; 1F, 23.x.2003, Sajaopipalu; 1F, 30.vi.85, Hanogi Mandi; 3M, 7F, 29.vi.85, Badanu, Mandi; 2M, 3.vi.85, Hanogi Mandi; 1M, 1F, i.vi.85, Khaliar Mandi; 1M, 1F, 30.vi.85, Hanogi, Mandi; 1M, 21.i.2001, Ambota, Kangra.

SUBFAMILY: OEDIPODINAE

20. *Aioloppus halasinus thalasinus (Fabricius)*

1781. *Gryllus thalassinus* Fabricius, Species Insectorum, 1: 367.

1968. *Aiolopus thalassinus* Hollis, Bull. Br. Mus. Nat. Hist. (Ent.), 22(7): 340-343.

Material examined: 1F, 23.x.2003, Sajaopipalu; 1F, 30.vi.85, Hanogi Mandi; 3M, 7F, 29.vi.85, Badanu, Mandi.

21. *Aioloppus thalasinus tamulus (Fabricius)*

1798. *Gryllus tamulus* Fabricius, 1798. Ent. Syst. Suppl.: 195.

1968. *Aiolopus thalassinus tamulus* Hollis, Bull. Br. Mus. Nat. Hist. (Ent.) 22 (1): 347-350.

Material examined: 2F, 1M, 21.v.86, Nahan, Sirmour; 1M, 3.vi.85, Hanogi, Mandi; 1M, 13.ix.84, Larji Kullu; 2M, 31.i.2001, Baner Khad, Kangra; 5M, 1F, 29.ix.80, Bilaspur Lake; 1M, 1F, 20.ix.80, Chakkar, Mandi.

22. *Trilophidia annulata (Thunberg)*

1815. *Gryllus annulatus* Thunberg, Mem. Acad. Sci. St.-Petersb, 5: 234.

1888. *Trilophidia annulata* var. *mongoloca* Saussure, ibid., 30 (1): 54.

1914. *Trilophidia annulata* Kirby, Fauna British India, Orthoptera, 1:149.

Material examined: 2F, 14.iv.84, Khaliar, Mandi; 1M, 13.vii.85, Drang, Mandi; 1M, 25.ix.84, Khaliar, Mandi; 1M, 25.ix.84, Bijni, Mandi; 1F,

3.vi.85, Brot, Mandi; 3F, 11.vi.85, Tarella, Chamba; 2F, 18.x.81, Habban, Shimla; 1F, 14.iv.84, Dhiar village, Bilaspur; 1M, 25.viii.84, Khaliar, Mandi; 1F, 30.vi.85, Panarsapul; 1M, 19.vii.76, Saproon Khad, Solan; 3F, 14.x.84, Saru valley Pooh, Kinnour; 1F, 21.x.84, Nichar Kinnour; 1M, 3F, 13.ix.84, Larji, Kullu; 1F, 27.vi.98, Siol Khad, Kangra; 1F, 23.i.2001, Dhemata Kangra; 1M, 28.vii.2002, Nagrota Surya Kangra; 1F, 29.viii.02, Jawali Kangra; 1M, 27.viii.02, Haripur, Kangra; 1M, 4.iii.02, Una; 1M, 29.ix.80, Near Lake Bilaspur; 1M, 3F, 23.ix.80, River side Mandi; 3M, 1F, 20.ix.80, Chakkar, Mandi; 2M, 1F, 18.ix.80, Pandoh, Mandi; 2M, 1F, 29.ix.80, Bilaspur; 1F, 28.viii.2003, Nangal; 9M, 1F, 1M Nymph 7.ix.2003 Thara.

23. *Oedaleus abruptus* (Thunberg)

1815. *Gryllus abruptus* Thunberg, Mem. Acad. Sci. St.-Petersb., 5: 233.

1884. *Oedaleus abruptus* Saussure, Mem. Soc. Phys. Hist. Nat. Geneve 28 (1): 117.

Material examined: 1F, 3.vi.85, Brot, Mandi; 1F, 22.x.84, Drung, Mandi; 2M, 25.ix.84, Bijni Mandi; 2F, 1M, 9.vii.82, Paonta Sirmour; 2F, 11.vi.85, Tarella, Chamba; 1M, 5.v.85, Panarsa Mandi; 5M, 25.ix.84, Khaliar, Mandi; 3M, 3F, 3.vi.85, Panarsa Mandi; 1 Nymph, 2M, 6F, 30.vi.85, Panarsa Mandi; 1M, 20.ix.76, Tank road, Solan; 1F, 24.ix.81, Raboun Khud, Solan; 1M, 1F, 14.vii.85, Jalori pass, Kullu; 1M, 7.vi.84, Pooh Kinnour; 1M, 1F, 8.v.97, Dhameta, Hamirpur; 1F, 19.ix.70, Kunihar, Solan; 6M, 2F, 2.x.80, Sunder Nagar; 1M, 1F, 23.ix.80, River side, Mandi; 1M, 25.ix.92, Renuka Lake Sirmour; 2M, 2.ix.2003, Jahu Khad; 1F, 1M, 15.ix.2003, Tihra Lambari.

24. *Sphingonotus longipennis* (Saussure)

1884. *Sphingonotus longipennis* Saussure, Mem. Soc. Phys. Hist. Nat. Geneve, 28 (9): 197-203. 1968. Bei-Benko, Rev. Ent. USSR, 47: 126.

Material examined: 1M, 25.vii.82, Renuka Sirmour; 1F, 22.vii.76, Chhasawra, Solan; 1F, 10.vi.81, Tapri, Kinnour; 1M, 23.i.2001, Pabloya, Kangra; 2M, 2F, 27.vii.01, Haripur, Manikhud, Kangra; 4M, 5F, 23.ix.80, River side Mandi; 3M, 2F, 21.ix.76, Drang, Mandi; 1M, 1F, 18.ix.80, Pandoh Mandi; 1M, 2F, 18.vii.92, Renuka lake Sirmour; 1M, 1F, 23.vii.92, Renuka lake Sirmour; 1M, 1F, 22.ix.92, Renuka lake Sirmour; 3M, 3F,

26.ix.92, Renuka lake Sirmour.

25. *Sphingonotus octofasciatus* (Serville)

Material examined: 1F, 8.x.99, Bari war Dehra Gopipur, Kangra; 1M, 13.ix.84, Larji Kullu.

26. *Sphingonotus kashmirensis* *Uvarov

1925. *Sphingonotus kashmirensis* Uvarov, Mission Babault Inde, Acrididae.

1969. *Sphingonotus kashmirensis* Cejhan, Acta. Mus. Mor. N. Sci. Suppl., 54: 271.

Material examined: 1F, 3.vi.85, Brot, Mandi; 1F, 22.x.84, Drung, Mandi.

27. *Oedipoda himalayana* Uvarov

1925. *Oedipoda himalayana* Uvarov, Mission Babault Inde, Acrididae: 22.

Material examined: 1F, 1M, 8.ix.71, Udaipur, Chamtise, Lahoul Spiti.

28. *Gastrimargus africanus africanus* (Saussure)

1888. *Oedaleus (Gastrimargus) marmoratus* var. *africana* Saussure, Mem. Soc. Phys. Hist. Nat. Geneve, 30 (1): 39.

1982. *Gastrimargus africanus africanus* Ritchie, Bull. Br. Mus. Nat. Hist. (Ent.), 44 (4): 248-250.

Material examined: 1F, 1M, 19.vii.76, Saproon Khad Solan; 1M, 12.vii.76, Rabon Khad Solan; 1M, 14.ix.84, Khaliar, Mandi; 1F, 1M, 13.ix.84, Larji, Kullu; 1M, 27.ix.84, Haripur Dhar, Sirmour; 1M, 1F, 8.x.99, Guglara, Jawali Kangra; 1M, 28.vii.02, Nagrota Surya, Kangra; 5M, 1F, 12.ix.80, Glen, Simla; 1M, 23.ix.80, River side, Mandi; 1F, 25.ix.80, Vashisht, Manali; 5M, 13.ix.2003, Lambari Tihra.

29. *Gastrimargus africanus sulphureus* (Bei-Bienko)

1951. *Gastrimargus sulphureus* Bei-Bienko, Oprel. Faune USSR, 40: 580.

1982. *Gastrimargus africanus sulphureus* Ritchie, Bull. Br. Mus. Nat. Hist. (Ent.), 44(4): 250-251.

Material examined: 1F, 13.x.2003 Manyoh; 1F, 14.x.2003, Jahari Manyoh.

30. *Gastrimargus marmoratus* (Thunberg)

1815. *Gryllus marmoratus* Thunberg, Mem. Acad. Sci. St.-Petersb, 5: 232.

1982. *Gastrimargus marmoratus* Ritchie, Bull. Br. Mus. Nat. Hist. (Ent.), 44(4): 262-666.

Material examined: 1F, 13.x.2003, Manyoh;

1F, 14.x.2003, Jahari, Manyoh; 1F 25.ix.84, Bijni Mandi; 1F, 10.vii.70, Shimla; 1M, 1F, 27.ix.84, Haripur Dhar, Sirmour; 1M, 23.vi.98, Mueguli Khad, Pong Dam Kangra.

31. *Gastrimargus* sp.

Material examined: 1F, 25.ix.84, Bijni, Mandi; 1F, 10.vii.70, Shimla; 1M, 1F, 27.ix.84, Haripur Dhar, Sirmour; 1M, 23.vi.98, Mueguli Khad, Pong dam Kangra.

32. *Scintharista blanchardiana* (Saussure)

1888. *Quiroguesia brullei* var. *blanchardiana* Saussure, Mem. Soc. Phys. Hist. Nat. Geneve, 30(1): 35.

1914. *Quiroguesia blanchardiana* Kirby, Fauna British India, Orthoptera, 1: 133.

Material examined: 1F, 17.ix.70, Arki, Solan; 1M, 17.ix.70, Pandoh, Mandi; 1F, 20.ix.76, water tank, Solan; 1F, 3.x.81, Raboun Khad, Solan.

33. *Scintharista notabilis* (Uvarov)

1870. *Quiroguesia notabilis* Walker, Cat. Derm. Salt. Br. Mus., 4: 745.

1969. *Quiroguesia notabilis* Cejhan, Acta. Mus. Mor. Suppl., 54: 266.

Material examined: 1F, 3.x.81, Raboun Khad, Solan; 1F, 20.ix.76, water tank road, Solan.

34. *Pusana laevis* (Uvarov)

1921. *Pusana laevis* Uvarov, Ann. Mag. Nat. Hist. Soc., 7 (9): 491- 492.

1982. *Pusana laevis* Bhowmik, Halder and Sur, 1982 (in press).

Material examined: 1F, 1M, 30.i.2001, Baner Khad.

35. *Cholebora grossa* (Saussure)

1884. *Cholebora grossa* Saussure, Mem. Soc. Phys. Nat. Geneve, 28 (9):132.

1932. *Scintharista* Punjabi Willemsse, Natuurh Maandbl, v: 21.

Material examined: 1F, 1M, 30.i.2001, Baner Khad.

36. *Acrotylus humbertianus* (Saussure)

1884. *Acrotylus humbertianus* Saussure, Mam. Soc. Phys. Hist. Nat. Geneve, 28 (9): 189.

1969. *Acrotylus humbertianus* Cejchan, Acta. Mus. Mor. N. Sci. Suppl., 54: 268.

Material examined: 1M, 22.ix.2003, Thara.

37. *Acrotylus insubricus inficitus* (Walker)

1870. *Oedipoda inficita* Walker, Cat. Derm. Salt. Br. Mus., 4: 742.

1969. *Actotylus insubricus inficitus* Cejchan, Acta Mus. Mor. Nat. Sci. Suppl., 54: 268.

Material examined: 1M, 4.ix.72, Berighat, Bilaspur.

38. *Acrotylus* sp.

Material examined: 5M, 3F, 30.vi.85, Panarsa, Mandi.

SUBFAMILY: HEMIACRIDINAE

39. *Hieroglyphus banian* (Fabricius)

1798. *Gryllus banian* Fabricius, Ent. Syst. Supple.: 194.

1973. *Hieroglyphus banian* Mason, Bull. Br. Mus. Nat. Hist., (Ent.) 28 (7): 540-541.

Material examined: 11M, 10F, 18.ix.80, Pandoh, Mandi; 6M, 11F, 20.ix.80, Chakkar, Mandi; 2M, 11F, 25.ix.80, Vashisht, Manali.

40. *Hieroglyphus concolor* (Walker)

1893. *Hieroglyphus citrinolimbatus* Brunner Von Wattenwyl: 154.

Material examined: 2M, 3.ix.2003 Nangal, Una; 6F, 9M, 5.ix.2003, Chamboh.

41. *Parahieroglyphus bilineatus* (Bolivar)

1912. *Hieroceryx bilineatus* Bolivar,

1914. *Hieroceryx bilineatus* Kirby, Fauna British India, Orthoptera, 1: 202.

Material examined: 2M, 3.ix.2003 Nangal, Una; 6F, 9M, 5.ix.2003, Chamboh.

42. *Spathosternum prasiniferum prasiniferum* (Walker)

1871. *Heteracris prasinifera* Walker, Cat. Derm. Salt. Brit. Mus., 5: 65.

1936. *Spathosternum prasiniferum prasiniferum*, Tirikham, Lingnan. Sci. Journ. Canton., 15:51.

Material examined: 54M, 8F, 19 M Nymph 22.ix.2003, Thara Jahu; 1M, 13.x.2003, Manyoh, Tihra; 3F, 23.x.2003, Sajaopipalu; 1F, 30.vii.84, Sunder Nagar, Mandi; 1M, 25.ix.84, Bijni, Mandi; 1F, 25.ix.84, Khaliar, Mandi; 1F, 19.ix.84 Bijni, Mandi; 1F, 15.x.76 Solan; 2F, 16.vii.82, Nahan, Sirmour; 1F 4.i.74, Saproon, Solan; 2F, 18.x.85, Sunder Nagar, Mandi; 1M, 1F, 29.vi.85, Badanu, Sunder Nagar; 1F, 4.v.85, Baggi, Mandi; 2F, 25.ix.84, Bijni, Mandi; 2F, 12.vii.74, Rulan Khad, Solan; 2M, 14.vii.85, Jalori Pass, Kullu; 1M, 10.vi.81, Tapri, Kinnaur; 1M, 29.i.2001, Maleta, Haripur Kangra. 3M, 27.vii.2002, Jawali, Kangra; 1M, 2F, 27.vii.2002, Manikhad, Haripur Kangra;

2M, 4F, 18.ix.80, Pandoh; 2M, 2F, 22.ix.80, Mandi; 10M, 4F, 29.ix.80, Bilaspur; 3M, 3F, 20.ix.80, Chakker, Mandi; 3M, 3F, 24.vii.70, Solan; 2M, 25.vii.92, Renuka wet land, Sirmour; 1M, 2F, 26.ix.92, Renuka wet land, Sirmour; 1M, 2F, 27.ix.92, Renuka wet land, Sirmour.

SUBFAMILY: Oxyinae

43. *Oxya h. hyla* Serville

1831. *Oxya hyla* Serville, Ann. Sci. Nat. (Zool.), 22: 287.

1971. *Oxya hyla hyla*, Hollis, Bule. Br. Mus. Nat. Hist. (Ent.) 26(7): 282.

Material examined: 1M, 22.ix.2003, Thihra; 1M, 14.ix.84, Khaliar; 1F, 13.vii.84, Drang Mandi; 2F, 14.vii.85, Jalori Pass, Kullu; 1F, 8.x.99, Dehri Khad, Jawali Kangra; 3M, 2F, 29.vii.02, Jawali, Kangra; 2F, 27.vii.02, Haripur, Kangra; 5M, 10F, 25.ix.80, Vashisht, Manali; 3M, 1F, 23.ix.80, Mandi, river side; 1M, 21.ix.80, Drang, Mandi; 2F, 18.ix.80, Pandoh, Mandi.

44. *Oxya fuscovittata* (Marschall)

1836. *Cryllus fuscovittata* Marschall, Ann. Wien, Mus, Viena 1(2): 211.

1976. *Oxya fuscovittata* Hollis, Bull. Br. Mus. Nat. Hist. (Ent.), 26(7): 289.

Material examined: 1M, 22.ix.2003, Thihra; 2M, 1F, 18.x.81, Habbon; 1F, 20.x.81 Koti, Shimla; 1M, 19.xii.70, Naina Tiker, Sirmour; 1F, 21.iii.71, Saproon, Solan; 2F, 11.vi.85, Tarella, Chamba; 2F, 13.ix.84, Larji, Kullu; 1F, 15.x.99, Batoli, Kangra; 2F, 9.x.99, Samlana Khad, Kangra; 1M, 8.v.97, Dhmeta, Kangra.

45. *Oxya velox (Walker)**

1787. *Gryllus velox* Fabricius, Mant. Inst., 1: 239. 1925. *Oxya squalida* Willemse, Tijdschr, Ent., 68: 58.

Material examined: 1M, 9.x.86, Pandoh, Mandi; 1M, 30.ix.86, Pandoh, Mandi; 2F, 21.ix.80, Drang, Mandi; 3F, 25.ix.80, Vashisht, Manali Kullu.

SUBFAMILY: Coptacridinae

46. *Eucoptacra saturata* (Walker)

1860. *Acridium (Catantops) praemorsum* Stal, Eugenius's Resa, Orthoptera, 3: 330.

1902. *Eucoptacra praemorsa* Bolivar, Annia. Soc. Ent. Fr., 70: 623.

Material examined: 1F, 3.vi.85, Hanogi, Mandi; 2M, 30.vi.85, Hanogi, Mandi; 1M, 20.i.2001, Dehria Khad, Kangra; 1M, 20.i.2001, Dehria Khad, Kangra; 1M, 19.vii.92, Renuka.

47. *Eucoptacra praemorsa* (Stal)

1860. *Acridium (Catantops) praemorsum* Stal, Kongl. Freg. Eug. Resa. Omkring Jorden, Insects: 330.

1914. *Eucoptacra praemorsa* Kirby, Fauna Brit. India, Orthoptera: 240.

Material examined: 2M, 1F, 18.ix.80, Pandoh Mandi; 4M, 3F, 20.ix.80, PWDRH. Mandi; 1M, 3F, 21.ix.80, Drang Mandi; 1M, 3F, 8.xii.75, Solan.

SUBFAMILY: Eyrepreocnemidinae

48. *Choroedocus illustris* (Walker)

1870. *Heteracris illustris* Walker, Cat. Derm. Salt. Br. Mus., 4: 622-623.

1921. *Heteracris illustris* Uvarov, Trans. Res. Ent. Soc. Lond., 69 (1&2): 109.

Material examined: 1F, 15.x.76, Solan; 2F, 19.vii.77, Sunny side, Solan; 1F, 10. x.86, Kullu; 4M, 4F, 17.ix.80, Mandi; 2M, 1F, 18.ix.80, Pandoh Mandi; 4M, 3F, 20.ix.80, PWDRH. Mandi; 1M, 3F, 21.ix.80, Drang Mandi; 1M, 3F, 8.xii.75, Solan; 1F, 3F, 23.ix.92, Renuka Sirmour; 1F, 3F, 1.x.92, Renuka, Sirmour.

49. *Choroedocus robustus* (Serville)

1839. *Acridium robustus* Serville, Ins. Orthoptera: 647.

1921. *Choroedocus robustus* Uvarov, Trans. Ent. Soc. Lond., 69: 109.

Material examined: 2M, 1F, 18.ix.80, Pandoh Mandi; 4M, 3F, 20.ix.80, PWDRH. Mandi; 1M, 3F, 21.ix.80, Drang Mandi; 1M, 3F, 8.xii.75, Solan

50. *Heteracris nobilis* (Uvarov)

1942. *Thisoicetrus nobilis* Uvarov, Ann. Mag. Nat. Hist., 9 (11): 596.

Material examined: 1F, 26.ix.84, Narla, Mandi; 1F, 15.ix.86, Khaliar Mandi; 4M, 2F, 18.ix.80, Pandon, Mandi; 4M, 4F, 21.ix.89, Drang, Mandi; 8M, 3F, 17.ix.80, PWDRH, Mandi; 8M, 1F, 25.ix.80, Vashisht, Manali.

51. *Tylotropidius varicornis* (Walker)

1870. *Heteracris varicornis* Walker, Cat. Derm. Salt. Br. Mus. 4: 667.

1914. *Tylotrypidius varicornis* Kirby, Fauna British India, Orthoptera: 265.

Material examined: 1F, 2M, 2M Nymph, 13.x.2003, Manyoh Tihra; 1M, 1F, 14.x.2003, Jihari Manyoh; 8M, 7F, 15.ix.2003, Tihra Lambari; 1F, 27.vii.77; 1F, 10.vii.70, Shimla; 2F, 3.vi.85, Hanogi Mandi; 1M, 16.xii.84, Kotla Nala Solan; 1F, 12.vii.70, Raboun Khad, Solan; 1M, 16.vii.70, Jakho Hill, Shimla; 3M, 3F, 15.xi.76, Saproon Solan; 1M, 27.xii.73, Solan; 1M, 5.xi.74, Dharidurool, Solan; 4M, 15.xi.76, Dharidurool, Solan; 1F, 5.iv.77, Dharidurool, Solan; 2M, 31.xii.76, Dharidurool, Solan; 1M, 1F, 6.v.71, Dharidurool, Solan.

525. *Eyprepocnemis a. alacris* (Serville)

1839. *Acridium alacre* Serville, Ins. Orthoptera: 682.

Material examined: 1M, 5.v.85, Panarsa, Mandi; 1F, 1.ii.85, Khaliar, Mandi; 1F, 1.vii.86, Bogdha & vicinity Kinnaur; 1M, 3.v.85, Badanu, Mandi; 2M, 1F, 15.ix.2003, Lambri Tihra; 1M, 23.x.2003, Sajaopipalu.

53. *Eyprepocnemis rosea* Uvarov

1942. *Eyprepocnemis rosea* Uvarov, Ann. Mag. Nat. Hist., 9(11): 597.

1976. *Eyprepocnemis rosea* Tandon. Rec. Zool. Surv. India. Occ. Paper.

Material examined: 2M, 2F, 23.x.2003 Sajaopipalu; 1M, 1F, 4.vii.82, Paonta Sirmour; 1F, 16.vii.82, Nahan Sirmour; 1M, 4F, 29.vi.85, Badanu, Mandi; 1F, 19.vi.85 Khaliar, Mandi; 1F, 7.iv.72, Meri, Bilaspur; 1M, 2F, 17.ix.80, PWDRH, Mandi; 2M, 2F, 23.ix.80, Mandi; 3M, 3F, 18.ix.80, Water supply office, Mandi; 5M, 2F, 20.ix.80 Chakkar, Mandi; 3M, 6F, 22.ix.90, Pandoh, Mandi; 5M, 2F, 18.ix.80, Chakkar Mandi; 5M, 2F, 21.ix.80, Drang, Mandi; 1M, 2F, 23.ix.80, River side, Mandi; 1M, 4F, 18.ix.80 Pandoh Mandi; 6M, 7F, 17.ix.80, Mandi; 1M, 1F, 8.xi.73, Deoghat and its vicinity, Solan; 16M, 12F, 8.xi.76, Saproon, Solan; 6M, 2F, 22.xi.76, Solan; 6M, 1F, 19.vii.92, Renuka Lake Sirmour.

SUB FAMILY: Catantopinae

54. *Xenocatantops karnyi* (Kirby)

1910. *Canatantops karnyi* Kirby, Syn. Cat. Orthoptera, 3: 483.

1914. *Canatantops karnyi* Kirby, Fauna

British India, Orthoptera, 1: 151-152.

1982. *Xenocatantops karnyi* Jago, Trans. Amer. Ent. Soc., 108 (3): 454-455.

Material examined: 1F, 19.ix.80, Kunihar, Solan; 1F, 2.iv.72, Bilaspur; 2M, 19.ix.80, Mandi; 2M, 18.vii.92, Renuka, Sirmour.

58. *Xenocatantops h. humilis* (Serville)

1839. *Acridium humile* Serville, Ins. Orthoptera: 662.

1982. *Xenocatantops humilis* Jago, Trans. Amer. Ent. Soc., 108 (3): 454.

Material examined: 9M, 13.x.2003, Manyoh Tihra; 2M, 23.x.2003, Sajaopipalu; 1F, 24.x.74, Arki, Solan; 1M, 8.ix.86, Khaliar, Mandi; 1M, 28.vii.02, Nagrota Surya; 1M, 6F, 17.ix.80 PWDRH, Mandi; 1M, 1F, 24.x.2011, Arki, Solan; 1M, 1F, 28.ix.92, Renuka.

56. *Cantantops pinguis innotabilis* (Walker)

1870. *Acridium innotabile* Walker, Cat. Derm. Salt. Br. Mus., 4: 629.

1935. *C. pinguis innotabilis* Dirsh & Uvarov, Tijdschr. Ent., 96(3): 233

1956. *C. pinguis innotabilis* Dirsh, Comp. Diam. Angola. Publ. Cult., 28: 150.

Material examined: 3M, 2F, 27.vii.82, Renuka, Sirmour; 1M, 28.ix.75, Solan; 1M, 14.x.81, Happy valley, Solan; 1M, 16.vii.82, Nahan Sirmour; 1F, 10.x.86, Kullu; 1F, 9.x.86, Pandoh, Mandi; 1F, 22.x.84 Shouling near Ponda, Kinnour; 1M, 13.ix.84, Larji, Kullu; 4M, 8F, 21.ix.80, Drang, Mandi; 4M, 17F, 18.ix.80, Pandoh, Mandi; 3F, 17.ix.80, PWDRH, Mandi;

57. *Cantantops simlae* Dirsh

1966. *Cantantops simlae* Dirsh: 95.

Material examined: 1F, 25.vii.82, Renuka Sirmour; 1F, 24.xi.77, Shimla; 3F, 29.vi.85, Badanu, Mandi; 1F, 10.v.70, Sathlathana Dhan, Solan.

58. *Paraconophyma scabra* (Walker)

1870. *Catoptenus scaber* Walker, Cat. Derm. Salt. Br. Mus., 4: 707.

1921. *Paraconophyma scabra* Uvarov, Ann. Mag. Nat. Hist., 7 (9): 501-502.

Material examined: 1M, 15.x.2003, Tihra; 3F, 16.vii.82, Paonta Sahib, Sirmour; 1F, 1M, 21.vii.82, Nahan Sirmour; 1F, 3.xi.72, T.V. Centre, Sarahan, Shimla; 1M, 3.viii.70, Keylong, Lahaul

& Spiti; 2F, 22.x.84, Pooh valley, Kinnour; 20M, 18F, 12.ix.80, Glen Shimla; 1M, 26.ix.80, Rhotang, Manali; 2M, 3F, 15.ix.80, Kufri, Shimla; 1M, 3.x.80, Solan; 1F, 9.ix.80, Solan; 1M, 1F, 2.ix.80, Mandi; 1M, 1F, 18.vii.92, Renuka.

59. *Paraconophyma pcalra* (Walker)

Material examined: 2F, 27.vii.82, Nahan, Sirmour; 3F, 16.vii.82, Poanta Sahib, Sirmour.

60. *Diabolocatantops innotabilis* (Walker)

1870. *Acridium innotabile* Walker, Cat. Derm. Salt. Brit. Mus., 4: 629.

1984. *Diabolocatantops innotabilis* Jago, Trans. Am. Ent. Soc., 110: 371.

Material examined: 1F, 26.ix.92, Renuka.

61. *Gelastorrhinus* (?) *latieornis* (Serville)

1839. *Opomala laticornis* Serville, Ins. Orthoptera: 590.

Material examined: 1F, 26.ix.92, Renuka.

62. *Gelastorrhinus* sp.

Material examined: 1M, 2F, 1F Nymph, 13.x.2003, Manyoh Tihra; 1F, 2.x.2003, Sajaopipalu; 2M, 12.vii.76, Raboun Khad, Solan.

SUBFAMILY: CYRTACANTHACRIDINAE

63. *Chondracris rosea* (De Geer)

1873. *Chondracris rosea* (De Geer),

1923. *Chondracris rosea* Uvarov, Ann. Mag. Nat. Hist.: 39.

Material examined: 1F, 1.xii.84, Khaliar Mandi; 1M, 8.x.86, Bandanu, Mandi; 1F, 10.ix.86, Khaliar, Mandi; 1F, 18.ix.80, Pandoh, Mandi; 2M, 1F, 17.ix.80, PWDRH Mandi.

64. *Pachyacris vinosa* (Walker)

1870. *Acridium vinosum* Walker, Cat. Derm. Salt. Br. Mus., 3: 588.

1923. *Pachyacris vinosa* Uvarov, Ann. Mag. Nat. Hist. 11 (9): 478

Material examined: 2M, 8.x.2003, Nangal vicinity (Grassfield).

65. *Pachyacris violascens* (Walker)

1870. *Acridium violascens* Walker, Cat. Derm. Salt. Br. Mus., 3: 387.

1923. *Pachyacris violascens* Uvarov, Ann. Mag. Nat. Hist., 11 (9): 478

Material examined: 1M, 2F, 14.x.2003, Jahari Manyoh Tihra; 1M, 12.vii.76, Raboun Khad, Solan; 1M, 3F, 18.ix.80, Pandoh, Mandi; 1M, 17.ix.80, PWDRH, Mandi; 1F, 19.ix.80,

Mandi; 1F, 20.ix.80, Chakkar, Mandi; 1M, 25.ix.80, Vashisht, Manali.

66. *Patanga succinata* (Johansson)

1763. *Gryllus locusta succinctus* Johansson, Amoen. Acad. 6 Centur, Ins. Rarior: 398.

1923. *Patanga succinctus* Uvarov, Ann. Mag. Nat. Hist., (9) 11: 364.

Material examined: 2F, 10.vii.70, Sirmour; 1M, 5.xi.70, Chial, Shimla; 1M, 1.vii.86, Bhagdhhar vicinity, Kinnour.

67. *Patanga (Patanga) japonica* (Bolivar)

1898. *Acridium japonicum* Bolivar, Anli. Mus. Civ. Stor. Nat. Giacomo Doria Genora, 39:98.

1933. *Acridium japonicum* var. *immaculata* Sjostedt, Art. Zool. Stockholm, 25A (3): 32.

Material examined: 1F, 24.ix.84, Solan.

68. *Cyrtacanthacris tatarica* (Linnaeus)

1758. *Gryllus locusta tataricus* Linnaeus, Syst. Nat. (10th ed): 432.

1923. *Cyrtacanthacris tatarica* Uvarov, Ann. Mag. Nat. Hist., 11(9): 139.

Material examined: 1F, 5.viii.70, Keylong, Lahoul-Spiti

FAMILY: PYRGOMORPHIDAE

69. *Aularches punctatus* Drury

1773. *Gryllus (Locusta) punctatus* Drury, Exot. Ent. II, pl. xli.

Material examined: 1M, 15.ix.73, Banathi; 11M, 2F, 19.ix.80, Mandi; 1F, 30.ix.80, Shalaghat, Bilaspur.

70. *Aularches miliaris* (Linnaeus)

1758. *Gryllus (Locusta) miliaris*, Linnaeus, Syst. Nat. (10th ed.): 432.

1764. *Gryllus (Locusta) miliaris* Linnaeus, Mus. Lud. Ulric.: 142.

1873. *Aularches miliaris* Stal, Recens. Orthoptera: 18.

Material examined: 1F, 17.ix.86, Badanu, Mandi; 1M, 25.ix.81, Solan; 1F, 13.ix.84, Larji, Kullu; 1M, 8.x.86, Badanu, Mandi; 1F, 25.ix.91, Thana, Una; 1F, 1M, 22.ix.73, Renuka, Sirmour; 1F, 25.ix.2000, Dhameta Khad; 3M, 3F, 25.ix.92, Renuka lake Sirmour.

71. *Atractomorpha crenulata* (Fabricius)

1793. *Truxalis crenulatus* Fabricius: 28.

1969. Kevan and Chen: 187.

Material examined: 1M, 1F, 16.viii.82,

Paonta, Sirmour; 1M, 1F, 16.viii.82, Nahan Sirmour; 1M, 30.vi.85, Hanogi Mandi; 2F, 18.x.81, Habbon Shimla; 1M, 1F, 13.ix.84, Larji, Kullu; 1F, 11.iv.74, Renuka lake, Sirmour; 1M, 22.vii.76, Chhwarsa, Solan; 2M, 26.xii.75, Ochhaghat, Solan; 1F, 27.i.2001, Baglara Pong, Kangra; 1F, 28.i.2001, Batoli, Kangra; 1F, 21.i.2001, Dehriyan Khad, Kangra; 1M, 28.vii.02, Nagrota Surya, Kangra; 3F, 2M, 29.vii.02 Jawali Kangra; 1F, 26.iv.92, Renuka lake Sirmour; 2F, 2M, 18.vii.92, Renuka Lake Sirmour; 1M, 7.ix.03, Thara Jahu; 1M, 9.ix.2003, Jahu Khad.

72. *Atractomorpha burri* Bolivar

1905. *Atractomorpha burri* Bolivar, Bol. Soc. Esp. Hist. Nat., 5: 197, 203.

1969. *Atractomorpha burri*, Kevan & Chen, Zool. J. Linn. Soc., 48: 158, 160, 193.

Material examined: Renuka lake Sirmour; 2F, 2M, 18.vii.92, Renuka Lake Sirmour; 1M, 7.ix.03, Thara Jahu.

73. *Atractomorpha* sp.

Material examined: 1F, 26.i.2001, Manni Khad, Kangra; 2F, 26.i.2001, Dehriyan Khad, Kangra; 1F, 4.vi.84, Arki, Solan.

74. *Chrotogonus (chr.) tr. trachypterus* (Blanchard)

1836. *Ommexycha trachypterus trachypterus* Blanchard, Ann. Soc. Ent. France: 618.

Material examined: 4F+2F, 25.ix.84, Bijni, Mandi; 1F+2F, 25.ix.84, Khaliar Mandi; 6F+1F, 29.ix.84, Khaliar Mandi; 3F, 2.vii.85, Towrds Tikkan, Mandi; 2F, 3.vii.85, Hanoghi, Mandi; 2M, 8F, 5.v.85, Panarsa, Mandi; 8 Nymph, 2M, 7F, 6.vi.85, Panarsa Mandi; 5F, 6.vii.85, Bharmour, Chamba; 1F, 19.ix.70, Kunihar, Solan; 1Nymph, 1M, 3.vi.85, Panarsa, Mandi; 1F, 3.vi.85, Brot, Mandi; 3M, 2F, 3.vi.85 Hanogi, Mandi; 13F, 29.ix.84, Khaliar Mandi; 1Nymph, 10 F, 13.ix.84, Larji, Kullu; 2Nymph, 1M, 3F, 14.ix.84, Larji, Kullu; 1F, 2M, 27.vii.82, Sirmour; 1M, 1F, 30.vii.84, Sunder Nagar, Mandi; 1M, 13.vii.85, Drang Mandi; 2F, 5.v.85, Hanoghi, Mandi; 1F, 31.v.85, Baggi, Mandi; 1F, 8.vii.85, Khaliar Mandi; 1M, 4F, 4.vi.85, Palampur, Kangra; 1F, 20.x.76, Kotla Nala Solan; 1Nymph 2F, 1M, 27.vii.82, Nahan, Sirmour; 1F, 16.vii.82, Poouhri, Sirmour; 1F, 10.vi.81, Tapari, Kinnaur; 2F, 23.vii.70, Kullu Lahoul Spiti; 2M, 2F,

26.i.2001, Mani Khad, Pong dam; 1F, 27.iv.92, Renuka Lake; 1M, 1F, 23.vii.92, Renuka Lake.

75. *Poeciloceris pictus* (Fabricius)

1775. *Gryllus pictus*, Fabricius, Syst. Ent.: 289.

1831. *Poeciloceris sonneratii*, Serville, Ann. Sci. Nat., xxxii: 276

1966. *Poeciloceris pictus* Akbar, Sind Univ. Sci. Res. J.: 1.

Material examined: 1F, 19.vii.74, Kangra; 1F, 11.x.99, Thangar, Jawali Kangra; 1F, 22.vi.98, Chalwara, Jawaali, Kangra; 2M, 3F, 29.vii.2002, Jawal Kangra.

FAMILY: TETRIGIDAE

76. *Hedotettix costatus* (Hancock)

1912. *Hedotettix costatus* Hancock, Mem. Dep. Agric. India Ent. Ser., 4: 147-148.

Material examined: 1M, 29.ix.2000, Water Supply Complex, Pong Dam Kangra; 1F, 25.ix.92, Renuka.

77. *Hedotettix* sp.

Material examined: 1F, 1.iv.71, Pooh Kinnour.

78. *Hedotettix attenuatus* (Hancock)

1904. *Hedotettix attenuatus* Hancock, Spolia Zeylan, 2: 108.

Material examined: 1M, 22.vii.92, Renuka Sirmour; 2M, 23.vii.92, Renuka, Sirmour; 3M, 3F, 30.ix.92, Renuka Sirmour.

79. *Hedotettix gracilis* (De Haan)

1842. *Acridium (Tetrix) gracile* De Haan, Temminck, Verhandl. Orthoptera: 167.

1914. *Hedotettix gracilis* Kirby, Fauna, Brit. India, Orthoptera: 72.

Material examined: 1F, 25.ix.92, Renuka Sirmour; 1F, 25.vi.92, Renuka, Sirmour; 1F, 19.vii.92, Renuka Sirmour; 1M, 1F, 25.ix.92, Renuka Sirmour.

80. *Ergatettix dorsifera* (Walker)

1871. *Tettix dorsifera* Walker, Cat. Derm. Salt. Brit. Mus., 5: 825.

1929. *Ergatettix dorsifera* Hebard, Revue Suisse. Zool., 36: 588.

Material examined: 1F, 30.vi.85, Hanogi, Mandi; 1F, 19.vii.76, Saproon; 1M, 26.iv.92, Jalul Brige, Renuka Sirmour; 2M, 27iv.92, Renuka

Lake, Sirmour; 1M, 26.iv.92, Renuka Lake, Sirmour; 2M, 25.vii.92, Renuka Lake, Sirmour; 3M, 23.ix.92, Renuka Lake, Sirmour.

81. *Eucriotettix grandis* (Hancock)

1912. *Criotettix grandis* Hancock, Mem. Dep. Agric. India, Ent. Ser., 4: 134.

1929. *Eucriotettix grandis* Hebard, Revue Suisse Zool., 36: 573.

Material examined: 2F, 25.ix.84, Bijni, Mandi; 1F, 30.vi.92, Hanog, Mandi; 1F, 20.ix.76, Kotla Nala, Solan.

82. *Euparatettix tenuis* Hancock

1912. *Euparatettix tenuis* Hancock, Mem. Dep. Agric. India, Ent. Ser., 4: 153.

Material examined: 2F, 25.ix.84, Bijni, Mandi; 1F, 30.vi.92, Hanog, Mandi.

83. *Acrydium* sp.

Material examined: 2M, 1.iv.71, Pooh, Kinnour.

84. *Thoradonta apiculata* Hancock

1915. *Thoradonta apiculata* Hancock, Rec. Indian Mus., 11: 81.

Material examined: 1F, 20.iii.71, Kuthar, Solan; 1M, 23.iv.92, Chandni, Renuka, Sirmour.

85. *Ergatettix guentheri* Steinmann

1912. *Euparatettix nodulosus* Hancock, Mem. Dep. Agric. India Ent. Ser., 4: 155.

1970. *Ergatettix guentheri* Steinmann, Acta Zool. Hung., 16: 234.

Material examined: 1F, 30.ix.92, Renuka Sirmour.

86. *Teradorus frontalis* Hancock

1915. *Teradorus frontalis* Hancock, Rec. Indian Mus., 11: 110.

Material examined: 1M, 22.x.84, Drung, Mandi; 2M, 19.vii.76, Saproon Khad; 1F, 23.iv.92, Chandni, Renuka, Sirmour.

87. *Coptotettix conspersus* Hancock

1915. *Coptotettix conspersus* Hancock, Rec. Indian Mus., 11: 119.

1987. *Coptotettix conspersus* Shishodia, Fauna of Orissa: State Fauna Series No. 1: 96.

Material examined: 1F, 10.v.85, Gugli Khad, Mandi; 2M, 12.vii.76, Raboun Khad; 1F, 13.ix.84, Larji, Kullu.

FAMILY: TRIDACTYLLIDAE

88. *Tridactylus thoracicus* (Guerin)

Material examined: 2F, 25.ix.84, Bijni, Mandi; 1F, 30.vi.92, Hanog, Mandi; 1F, 20.ix.76, Kotla Nala, Solan.

89. *Xya* sp.

Material examined: 1F, 3.vi.79, Old Bilaspur; 1F, 24.vii.73, Ransheel, Kullu; 1F, 31.i.2001, Baner Khad.

FAMILY: GRYLLOTALPIDAE

90. *Gryllotalpa africana* (Beauvois)

1805. *Gryllotalpa africana* Beauvois, Ins. Afr. Amer.,: 229.

1967. *Gryllotalpa africana* Chopard, Orthopterorum Catalogus, Part 12: 449.

Material examined: 1Nymph, 30.vi.85, Hanogi, Mandi; 1M, 26.i.2001, Manni Khad, Kangra.

91. *Gryllotalpa fossor* (Scudder)

Material examined: 1M, 9.iv.70, Sarahan, Sirmour.

FAMILY: GRYLLIDAE

92. *Modicogryllus facialis* (Walker)

Material examined: 1F, 31.i.2001, Baner Khad.

93. *Modicogryllus blennus* (Saussure)

1877. *Gryllodes blennus* Saussure, Mem. Soc. Geneve, 25: 216.

1967. *Modicogryllus blennus*, Orth. Cat., 10: 82.

Material examined: 1M, 23.ix.92, Renuka, Sirmour.

94. *Modicogryllus confirmatus* (Walker)

1859. *Acheta confirmata* Walker, Ann. Mag. Nat. Hist., (3) 4: 221.

1975. *Modicogryllus flavus*, Biswas, Proc. Zool. Soc., Calcutta, 28: 25.

Material examined: 2M, 23.ix.92, Renuka, Sirmour.

95. *Acheta domesticus* Linnaeus

1758. *Gryllus acheta domesticus* Linn. Syst. Nat. (10th ed), 1: 428.

1967. *Acheta domesticus* Chopard, Orthopterorum Catalogus, 10: 62.

Material examined: 1F, 2.viii.86, Karo Forest, Mandi.

96. *Turarnogryllus rufoniger* (Chopard)

1925c. *Gryllodes rufoniger* Chopard, Ann.

- Soc. Ent. Fr., 94: 292.
1969. *Grylloides rufoniger* Chopard, Fauna Ind. Grylloidea, 2: 71.
Material examined: 1F, 18.vii.72, Kyan Nala, Sirmour.
- 97. *Turarnogryllus histrio* (Saussure)**
1877. *Grylloides histrio* Saussure, Mem. Soc. Geneve, 25: 229.
1975. *Grylloides pubercens* Biswas, Proc. Zool. Soc., Calcutta, 28: 24 [Misidentification, partim].
Material examined: 1M, 26.i.2001, Manni Khad, Kangra.
- 98. *Turarnogryllus jamuensis* (Bhowmik)**
Material examined: 1M, 23.ix.92, Renuka, Sirmour.
- 99. *Teleogryllus blennus* (Serville)**
Material examined: 1M, 26.i.2001, Manni Khad, Kangra.
- 100. *Teleogryllus mitratus* (Burmeister)**
1838. *Gryllus mitratus* Burmeister, Handb. Ent., 2: 34. Lectotype Male.
1980. *Teleogryllus mitratus*, Townsend, J. Nat. Hist., 14: 158.
Material examined: 2F, 8.ix.86, Khaliar, Mandi; 1F, 12.iii.86, Bijni Mandi; 1M, 23.ix.92, Renuka, Sirmour.
- 101. *Teleogryllus occipitalis* (Serville)**
1838. *Gryllus occipitalis* Serville, Ins. Orthoptera: 339. (Same specimen as Neotype of *G. per spicillatus* Serville).
1980. *Teleogryllus occipitalis*, Townsend, J. Nat. Hist., 14: 154.
Material examined: 1F, 22.ix.92, Renuka, Sirmour; 1F, 25.ix.92, Renuka, Sirmour.
- 102. *Teleogryllus testaceus* (Walker)**
1869. *Gryllus testaceus* Walker, Cat. Derm. Salt. Brit. Mus., 1: 38
1967. *Teleogryllus testacus* Chopard, Orthoptera, Cat., 10: 99.
Material examined: 1F, 16.ix.72, Nauni Bilaspur; 1F, 1.viii.86, Larji Kullu.
- 103. *Plebeiogryllus guttiventris* (Walker)**
1871. *Gryllus guttiventris* Walker, Cat. Derm. Salt. Br. Museum, 5, suppl., 6 Male.
1967. *Plebeiogryllus guttiventris*, Chopard, Orthoptera Cat., 10: 94.
Material examined: 1M, 21.iv.92, Renuka Sirmour.
- 104. *Grylloides sigillatus* (Walker)**
1869. *Gryllus sigillatus* Walker, Cat. Derm. Salt. Brit. Museum, 1: 46.
1969. *Gryllus sigillatus*, Chopard, Fauna Ind. Grylloidea, 2: 85.
Material examined: 1M, 13.ix.2003, Lambari Tihra.
- 105. *Tridactylus thoracicus* Gudrin**
1844. *Tridactylus thoracicus* Guer, Icon. R. An., 3: 336.
1925. *Tridactylus thoracicus* Chopard, Ann. Mag. Nat. Hist., (9) 15: 506.
Material examined: 2F, 1M, 13.ix.2003, Lambari Tihra.
- 106. *Trigonidium humbetianum* (Saussure)**
Material examined: 1F, 26.iii.71, Solan.
- 107. *Velarifictorus dehradunensis* Tandon & Shishodia**
Material examined: 1F, 28.ii.2001, Batoli, Kangra.
- 108. *Velarifictorus lambi* sp.nov.**
Material examined: 1M, 1F, 28.ii.2001, Batoli, Kangra.
- 109. *Loxoblemmus equestris* Saussure**
1877. *Loxoblemmus equestris* Saussure, Mem. Soc. Geneve, 25: 252.
1972. *Loxoblemmus taicoun*, Tandon and Shishodia, Oriental Ins. 6(3): 288.
Material examined: 1F, 22.ix.92, Renuka, Sirmour; 1F, 25.ix.92, Renuka, Sirmour.
- 110. *Loxoblemmus detectus* (Serville)**
1838. *Platyblemmus detectus* Serville, Ins. Orthoptera: 356.
1972. *Loxoblemmus longipalpis*, Tandon and Shishodia, Oriental Ins., 6 (3): 287.
Material examined: 1F, 28.i.2001, Batoli, Kangra.
- 111. *Loxoblemmus taicoun* Saussure**
Material examined: 1M, 1F, 16.viii.82, Paonta, Sirmour; 1M, 1F, 16.viii.82, Nahan Sirmour; 1M, 30.vi.85, Hanogi Mandi.
- 112. *Loxoblemmus fascuoes* (Walker)**
Material examined: ; 2F, 18.x.81, Habbon Shimla; 1M, 1F, 13.ix.84, Larji, Kullu; 1F, 11.iv.74, Renuka lake, Sirmour.
- 113. *Loxoblemmus macrocephalus***

Chopard

1967. *Loxoblemmus macrocephalus*, Chopard, Orth. Cat., 10: 127.

1972. *Loxoblemmus macrocephalus* Tandon and Shishodia, Oriental Ins., 6 (3): 288.

Material examined: ; 1M, 22.vii.76, Chhwarsa, Solan; 2M, 26.xii.75, Ochhaghat, Solan; 1F, 27.i.2001, Baglara Pong, Kangra.

114. Pteronemobius csikii (Bolivar)

1901. *Nemobius csikii* Bolivar, Zichy. Zool. Ergebn., 2: 243.

1969. *Pteronemobius csikii* Chopard, Fauna Ind. Grylloidea, 2: 165.

Material examined: 1M, 29.ix.92, Renuka Sirmour; 1M, 23.iv.92, Chandni Sirmour.

115. Pteronemobius fasciiceps (Walker)

1869. *Eneoptera fasciiceps* Walker, Cat. Derm. Salt. Br. Museum, 1: 67.

1972. *Pteronemobius csikii*, Tandon and Shishodia, Oriental Ins., 6(3): 289.

Material examined: ; 1F, 28.i.2001, Batoli, Kangra; 1F, 21.i.2001, Dehriyan Khad, Kangra.

116. Pteronemobius taprobanensis (Walker)

1869. *Trigonidium taprobanense* Walker, Cat. Derm. Salt. Br. Museum, 1: 102.

1969. *Pteronemobius taprobanensis* Chopard, Fauna Ind. Grylloidea, 2: 163.

Material examined: 1M, 28.vii.02, Nagrota Surya, Kangra; 3F, 2M, 29.vii.02 Jawali Kangra.

117. Pteronemobius pantechopardorum Shishodia & Varshney

1967. *Pteronemobius pantelianus* Chopard: 168 (nomen nudum)

1969. *Pteronemobius panteli* Chopard: 176.

Material examined: 1F, 26.iv.92, Renuka lake Sirmour; 2F, 2M, 18.vii.92, Renuka Lake

118. Pteronemobius sp.

Material examined: 1F, 31.i.2001, Baner Khad, Kangra.

119. Gryllus brunneri Saussure

Material examined: 1F, 28.i.2001, Batoli, Kangra; 1F, 8.ii.71, Saproon, Solan.

120. Gryllus bimaculatus De Geer

1773. *Gryllus bimaculatus* De Geer, Mem. Ins., 3: 521.

1964. *Gryllus bimaculatus*, Bandell, Canad. Ent., 96: 1592.

Material examined: 2F, 4.iv.76, Berighat, Solan; 1F, 27.vii.70, Manali; 1F, 1.viii.86, Larji, Kullu; 1F, 28.i.2001, Batoli, Kangra; 1F, 8.ii.71, Saproon, Solan; 1F, 9.x.86, Pandoh, Mandi.

121. Gryllus histrio (Saussure)

Material examined: 1F, 30.vi.85, Hanogi, Mandi; 1F, 19.vii.76, Saproon; 1M, 26.iv.92, Jalul Brige, Renuka Sirmour.

122. Xenogryllus sp.

Material examined: 1F, 8.ix.86, Khaliar, Mandi; 1M, 10.ix.86, Khaliar.

123. Platygryllus melanocephalus (Serville)

Material examined: 2M, 27iv.92, Renuka Lake, Sirmour; 1M, 26.iv.92, Renuka Lake, Sirmour; 2M, 25.vii.92, Renuka Lake, Sirmour; 3M, 23.ix.92, Renuka Lake, Sirmour.

124. Acanthoplistus birmanus Saussure

1877. *Acanthoplistus birmanus* Saussure, Mem. Soc. Geneve, 25: 322.

1969. *Acanthoplistus birmanus*, Chopard, Fauna Ind. Grylloidea, 2: 207.

Material examined: 2M, 1F, 31.i.2001, Baner Khad, Kangra.

125. Gotwendia albipennis Chopard

Material examined:

126. Gymnogryllus kashmirensis Bhowmik

Material examined: 3M, 3F, 7.ix.2003 Thara; 8M, 9F, 22.ix.2003, Thara Jahu.

127. Onebius sp.

Material examined: 1Nymph, 8.ii.92, Swarghat, Bilaspur.

128. Homoeogryllus cincticornis (Walker)

1870. *Meloimorpha cincticornis* Walker, Cat. Derm. Salt. Br. Museum, 3: 469.

1969. *Homoeogryllus cinctiornis*, Chopard, Fauna Ind. Grylloidea, 2: 242.

Material examined: 1M, 29.ix.2000, Pong Dam Kangra.

FAMILY: MYRMECOPHILIDAE**129. Myrmecophilus albicinctus (Chopard)**

Material examined: ; 2M 8.x.76, Bijni, Mandi; 1F, 19.ix.84, Sirmour; 2M, 19.x.81, Sarkaghat, Mandi.

FAMILY: TRIGONIDIDAE**130. *Anaxipha longipennis* (Serville)**

1838. *Trigonidium longipenne* Serville, Ins. Orthoptera: 351.

1969. *Anaxipha longipennis* Chopard, Fauna Ind. Grylloidea. 2: 278.

Material examined: 3F, 14.ix.80, Taradevi Shimla; 1M, 1F, 7.ix.73, Saproon, Solan.

131. *Trigonidium cicindeloides* Rambur

1839. *Trigonidium cicindeloides* Rambur, Faune Andal., 2: 39.

1969. *Trigonidium cicindeloides* Chopard, Fauna Ind. Grylloidea, 2: 303.

Material examined: 1F, 21.vi.98, Dehra Khad, Kangra; 1F, 21.vi.98, Kangra.

FAMILY: TETIGONIDAE**132. *Elimaea (Orthilaemaea) securigera* (Brunner)**

1878. *Elimaea securigera* Brunner, Monogr. Phaneropt: 93.

1990. *Elimaea (Orthelimaea) securigera* Ingrisch, Spixiana, 13 (2): 157.

Material examined: 1F, 5.ix.2003, Chamboh; 1F 15.ix.2003, Lambari Tihra.

133. *Letana linearis* Walker

Material examined: 1M, 17.ix.86, Hanogi, Mandi; 2F, 1M, 10.ix.86 Khaliar, Mandi; 1M, 8.iv.71, Solan; 1F, 5.ix.2003, Chamboh; 1F 15.ix.2003, Lambari Tihra.

134. *Letana despecta* (Brunner)

1878. *Pyrrhicea despecta* Brunner, Mon. Phan.: 115.

1906. *Letana despecta* Kirby, Syn. Cat. Orthoptera, 2: 400.

Material examined: 3M, 1F 15.ix.2003, Lambari Tihra.

135. *Isopsera pedunculata* Brunner

Material examined: 1M, 9.x.86, Pandoh Mandi.

136. *Plicigera Himalayana* Uvarov

Material examined:

137. *Duceitia japonica* (Thunberg)

1815. *Locusta japonica* Thunberg, Mem. Acad. Sci. St.-Petersb., 5: 282.

1961. *Duceitia japonica* Ragge, Bull. Br. Mus. Nat. Hist. (Ent.), 10 (5): 187.

Material examined: 1F, 29.ix.84, Khaliar,

Mandi; 1M, 13.ix.84, Largi Kullu.

138. *Decticus albifron*

Material examined: 2F, 6.ix.71, Udaipur, Chamba; 2F, 16.viii.70, Thiroth, Lohoul & Spiti.

139. *Letana megastridula* Ingrisch

1990. *Letana megastridula* Ingrisch, Ent. Scand., 21 (3): 258.

Material examined: 1M, 17.ix.86, Hanogi Mandi H.P. 17-ix-86; 1F, 6.xii.87, Mangarh, Kangra; 1F, 21.vi.98, Dehra Khad, Kangra; 1F, 21.vi.98, P.W.D.R.H. Kangra; 1M, 19.ix.91, P.W.D. R. H. Gagret, Una.

140. *Phaneroptera myllocera* Ragga

Material examined: 1M, 20.ix.76, Kotla Nala, Solan; 1F, 2M, 5.ix.2003, Chamboh; 1M, 8.ix.2003, Badhere.

141. *Decticides* sp.

Material examined: 1F, 24.ix.71, Patta, Solan.

FAMILY: PHANEROPTERIDAE**142. *Himertula kinnaeri* (Uvarov)**

Material examined: 1M, 20.xii.2003, nangal, Una.

FAMILY: CONOCEPHALIDAE**143. *Paraconocephalus* sp.**

Material examined: 1F, 7.viii.2003, Tihra Lambri; 3M, 5.ix.2003, Chamba vicinity; 1F, 7.ix.2003, Thara Jahu; 8F, 2M, 8.ix.2003, Badhere, Hamirpur.

144. *Conocephalus maculatus* (Le Guillou)

1815. *Xiphidion maculatum* Le Guillou. Revue Zool., 4: 294.

1980. *Conocephalus maculatus* Pitkin, Bull. Br. Mus. Nat. Hist. (Ent.), 41(5): 344.

Material examined: 1F, 31.i.2001, Baner Khad, Kangra; 1F, 24.ix.74, Kotla Nala, Solan.

145. *Euconocephalus pallidus* (Radtb)

1891. *Conocephalus pallidus* Redtenbacher, Verh. Zool.-bot. Ges. Wien. 41: 414.

1922. *Euconocephalus pallidus* Bebard, Proc. Acad. Nat. Sci. Philad., 74: 239.

Material examined: 1M, 18.viii.83, Naglok, Mandi.

146. *Neoconocephalus polustris*

Material examined: 1F, 8.x.99, Kangra; 1F, 16.vi.98, Haripur, Kangra.

147. *Pseudorrhynchus* sp.**Material examined:** 1F, 25.iv.71, Solan.**FAMILY: MECAPODIDAE****148. *Mecapoda elongata* (Linnaeus)**1758. *Gryllus elongates* Linnaeus, Syst. Nat. (10th ed.) 1: 429.1922. *Macopada elongata* Habard, Proc. Acad. Nat. Sci. Philad. 74: 182.**Material examined:** 1F, 25.xi.71, Solan; 2F+2F, 9.x.86, Pandoh, Mandi; 1F, 7.ix.99, Dehra Gopipur.**FAMILY: ENEOPTERIDAE****149. *Euscyrthus hemelytrus* (Haan)**1842. *Gryllus (Eneoptera) hemelytrus* Haan, Temminck Verhandl., Orthoptera: 231.1969. *Euscyrthus hemelytrus* Chopard, Fauna of India, Orthoptera, Grylloid. 2: 392.**Material examined:** 2M, 2.viii.86, Kara forest, Mandi; 1F, 21.viii.98, Dehra Khad, Kangra.**150. *Sathrophyllia femorata* (Fabricius)**1787. *Locusta femorata* Fabricius, Mantissa Ins., 1: 233.1963. *Sathrophyllia femorata* Beier, Orthopterorum Catalogus, part 5: 64.**151. *Holochlora indica* Kirby**1906. *Holochlora indica* Kirby, Syn. Cat. Orthoptera, 2: 430**Material examined:** 1M, 9.x.99, Jwali, Pong Dam, 09-x-99.**References**

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