

DISTRIBUTIONAL RECORDS OF INDIAN ACRIDIDAE.

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The Zoological Survey of India recently sent to me for identification the entire collection of Acrididae in the Indian Museum. The present paper, which is the first of the series, contains exact records of localities of the relatively well-known species, as information about the distribution of the Indian Acrididae is still very meagre. All doubtful or new species in the collection that require more detailed study will be dealt with in a subsequent communication.

Before proceeding with the list, I would like to draw the attention of field-entomologists in India to the relatively little information which we possess about the Indian Acrididae. Undescribed species and even genera are continually found in collections, and in view of the fact that practically no part of India has been sufficiently investigated for the Acrididae, a careful collector can do very useful work almost anywhere. The most interesting and promising areas are, however, the Himalayas, especially the western part (as Assam and Burma are better explored than many other parts of India), and the Indian desert regions. Collections of Acrididae from India would be thankfully received by me ¹ and worked out as early as possible. I shall also be very pleased to offer any advice and help to collectors.

Sub-family ACRIDINAE.

Acrida exaltata (Wlk.).

- Srinagar, 6000 ft., Kashmir, N. W. Himalayas, vii-ix-16 (*H. T. Pease*).
Kashmir, N. W. Himalayas, 1915 (*H. T. Pease*).
Lucknow, United Provinces, 360 ft., 2-xii-06 (*E. Brunetti*).
Kandaghar, Simla hills, 3,500-4,600 ft., viii-25 (*B. Chopra*).
Asmi, Simla hills, 3,000-4,000 ft., vii-ix-25 (*B. Chopra*).
Ghuma, Simla hills, 3,700 ft., 6-8-ix-25 (*B. Chopra*).
Pareshnath, Bihar, 4,000-4,400 ft., 12-iv-09 (*N. Annandale*).
Kulti, near Sitarampore, Bengal, 8-viii-09 (*B. Lord*).
Monghyr, Bihar, 24-ix-09 (*J. T. Jenkins*).
Hoshangabad, Central Provinces, 14-18-iii-19 (*F. H. Gravely*).
Amanhar, Bijnor district, United Provinces, 12-ii-07.
Barkul, Puri district, Orissa, 9-13-xi-12 (*F. H. Gravely*).
Balighai, near Puri, Orissa, 16-20-viii-11 (*N. Annandale and F. H. Gravely*).
Calcutta, 2-ix-07 ; 25-ix-12.
Cherrapunji, Khasi Hills, Assam, 19-v-09 (*B. Warren*).

¹ The specimens may be sent pinned or in papers either direct to the author c/o the British Museum (Natural History), London, S. W. 7, or c/o The Zoological Survey of India, Indian Museum, Calcutta.

- Shillong, Khasi Hills, Assam, ca. 5000 ft. 22-ix-26 (*R. B. S. Sewell*).
 Kalimpong, Darjiling district, E. Himalayas, 600-4,500 ft., 24-iv-10-v-25 (*F. H. Gravely*).
 Sikkim, vii-12.
 Tambi, Koyna valley, Satara district, ca. 2,100 ft., 24-26-iv-12 (*F. H. Gravely*).
 Medha, Yenna valley, Satara district, ca. 2,200 ft., 17-23-iv-12 (*F. H. Gravely*).

Aulacobothrus luteipes (Wlk.).

- Newadin, Bengal.
 Mazbat, Mangaldai district, Assam, 11-15-x-10 (*S. W. Kemp*).

Aulacobothrus decius (Wlk.).

- Chiplun and Pimpli, Vashisti valley, Ratnagiri district, 0-300 ft., 25-v-12 (*F. H. Gravely*).

Leva indica (Bol.).

- Khargpur, Bengal, 25-v-07 (*E. Brunetti*).
 Kulti, near Sitarampore, Bengal, 6-viii-09 (*B. Lord*).
 Representatives of the genus *Leva* are known from the Central Indian plains, from South India, Ceylon and Africa, but apparently do not penetrate into hills at all.

Sjostedia darjeelingensis (Bol.).

- Majkkali, 6,000 ft., Kumaon, 3-x-07 (*L. L. Fermor*).
 Sikkim (*E. T. Atkinson*).
 Bhoraikund and the Doiphang valley, Assam-Bhutan frontier, Darrang district, 18-22-x-12 (*S. W. Kemp*).
 Rungeet valley, 700-800 ft., Darjiling district, E. Himalayas, 29-v-16 (*F. H. Gravely*).
 Sibsagar, R. Saffree, N. E. Assam (*S. E. Peal*).
 The species is very typical for Assam and the Kumaon record is the most western known.

Ceracris nigricornis (Wlk.).

- Ukhual, Manipur, 6,400 ft. (*V. Pettigrew*).
 Bhim Tal, 4,500 ft., Kumaon, 19-22-ix-06 (*N. Annandale*).
 Kurseong, 5,000 ft., E. Himalayas, 6-ix-09.

Aiolopus affinis (Bol.).

- Bombay, ix-19.
 Allahabad, United Provinces, 16-viii-09 (*B. Lord*).
 Satpara, Orissa, 16-ix-13 (*N. Annandale*).
 Balugaon, Puri district, Orissa, 21-30-vii-18 (*N. Annandale*).
 Barkul, Puri district, Orissa, 13-xi-12 (*F. H. Gravely*).

Sub-family OEDIPODINAE.

Oedaleus senegalensis Kr.

Srinagar, 6,000 ft., Kashmir, N. W. Himalayas, vii-ix-16 (*H. T. Pease*).

Calcutta.

This species is distributed from Senegal to Mesopotamia, Transcaucasia, Persia, Turkestan and into the Indian plains, but its occurrence at a considerable altitude in Kashmir is somewhat surprising.

Oedaleus abruptus (Thnbg.).

A very common Indian species represented in the collection from numerous localities, hardly worth recording individually.

Gastrimargus transversus (Thnbg.).

Rawalpindi, Punjab, vi-vii-17 (*R. Hodgart*).

Paresnath, Bihar, 4,000-4,400 ft., 13-iv-09 (*N. Annandale*).

Kumaon (*L. L. Fermor*).

Chiplun, Ratnagiri district, Bombay Presidency 8-v-13 (*S. P. Agharkar*).

Bamnoli, Satara district to Akaipa, Ratnagiri district, 27-x-12 (*S. P. Agharkar*).

Dhom, Krishna valley, 2,400 ft., 29-30-iv-13 (*S. P. Agharkar*).

Sikkim, 7,000 ft., vii-12.

Cherrapunji, Khasi Hills, Assam, 19-v-09 (*B. Warren*).

Nongpriang, Khasi Hills, Assam, ix-v-09 (*B. Warren*).

Udalguri, Assam, 23-x-12 (*S. W. Kemp*).

Heteropternis respondens (Wlk.).

Kalimpong, Darjiling district, E. Himalayas, 600-4,500 ft., 24-iv-10-v-15 (*F. H. Gravely*).

Tea Gardens below Kurseong, E. Himalayas, 1,500-5,000 ft. (*B. Chopra*).

Northern Shan hills, Upper Burma (*J. C. Brown*).

Thingannyinaung to Myawadi, Lower Burma, 900 ft., 24-26-xi-11 (*F. H. Gravely*).

Pternoscirta cinctifemur (Wlk.).

Tea Gardens below Kurseong, E. Himalayas, 1,500-5,000 ft., iii-24 (*B. Chopra*).

Morphacris fasciata sulcata (Thnbg.).

Jubbulpore, 1,300 ft., 3-10-iv-05 (*E. Brunetti*).

Quilon, Travancore, v-15 (*G. P. Pillai*).

Marikuppam, S. India, 2,500 ft., 21-x-10.

Acrotylus humbertianus Sauss.

Large numbers of specimens from various localities.

Sphingonotus rubescens (Wlk.).

Peshawar.

A typical member of the Palaearctic desert fauna.

Sphingonotus longipennis Sauss.Rungeet valley, 700-800 ft., Darjiling district, E. Himalayas, 29-v-16
(*F. H. Gravely*).Doiphang valley, Assam-Bhutan frontier, Darrang district, 21-x-12
(*S. W. Kemp*).

Sub-family PYRGOMORPHINAE.

Atractomorpha himalayica Bol.

Siliguri, N. Bengal, 18-20-vii-07.

Pashok, 5,000 ft., Darjiling district, E. Himalayas, 26-v-16 (*F. H. Gravely*).Ghunti, 4,000 ft., Darjiling district, E. Himalayas, vii-11 (*F. H. Gravely*).Darjiling, 6,-7,000 ft., 12-vi-14 (*F. H. Gravely*).Kurseong, E. Himalayas, 6,200 ft., 4-viii-09 (*E. A. D'Abreau*).

Sub-family CATANTOPINAE.

Patanga japonica (Bol.).

Siliguri, N. Bengal, 18-20-vii-07.

Dow Hill, Kurseong, E. Himalayas, 6,000 ft., 8-iii-24 (*B. Chopra*).**Pachyacris vinosa** (Wlk.).Almora, Kumaon, 5,500 ft., xii-11 (*C. Paiva*).Monda, Nepal, 12-v-08 (*R. Hodgart*).Base of hills, S. of Chakardharpur, Chota Nagpur, 29-ix-11 (*F. H. Gravely*).Pass between Chakardharpur and Chota Nagpur, 2-4-iii-13 (*F. H. Gravely*).**Cyrtacanthacris tatarica** (Linn.).Barkuda I., Chilka lake, Ganjam district, Madras Presidency, 3-vi-22
(*N. Annandale*).

Calcutta.

Nilgiris.

Paraconophyma scabra (Wlk.).Bhim Tal, 4,500 ft., Kumaon, 19-22-ix-10 (*N. Annandale*).Originally described from Burdwan, Bengal, I have recorded it (*Ann. Mag. Nat. Hist.*, (9) vii, p. 501, 1921) from the Pusa collection without an exact locality, but now I am able to state that the specimens were from Mussoorie, 7,500 ft.

Oxya nitidula* (Wlk.).**Garia, near Calcutta, 13-xii-10 (*S. W. Kemp*).Fraserganj, 24 Perganas, Sunderbuns, 13-xi-09 (*J. T. Jenkins*).Oxya fuscovittata* (Marsch.).**Rawalpindi, Punjab, vi-vii-17 (*R. Hodgart*).Calcutta and environs, 20-xi-04 ; 13-viii-07 (*E. Brunetti*).***Oxya uvarovi* Will. f. *brachyptera*.**Shillong, Khasi hills, Assam, 26-ix-26 (*R. B. S. Sewell*).***Oxya intricata* St.**Bhubaneswar, Puri district, Orissa, 4-6-xi-12 (*F. H. Gravely*).***Hieroglyphus banian* F. var. *elongata* Uv.**Barkul, Puri district, Orissa, 9-13-xi-12 (*F. H. Gravely*).***Hieroglyphus nigrorepletus* Bol. f. *macroptera*.**Allahabad, United Provinces, 13-viii-09 (*B. Lord*).***Oxyrrhepes extensa* (Wlk.).**Sikkim (*E. T. Atkinson*).***Spathosternum prasiniferum* (Wlk.).**

One of the commonest grasshoppers represented in the collection by many specimens from various localities.

***Traulia azureipennis* (Serv.).**Kachin Hills (*Topin*).

Mergui.

***Eucoptacra saturata* (Wlk.).**

Rampore Chaka, Bijnor district, United Provinces, 23-31-ii-07.

Barkul, 0-1,000 ft., Orissa, 1-3-viii-14 (*F. H. Gravely*).Assam-Bhutan frontier, Mangaldai district, 26-xii-10 (*S. W. Kemp*).***Eucoptacra binghami* Uv.**

Thingannyinaung to Sukli, Dawna hills, 900-2,100 ft., 23-27-xi-11 (*F. H. Gravely*).

Goktek gorge, below viaduct, L. Burma, 8-x-11 (*C. G. Rogers*).***Apalacris varicornis* (Wlk.).**

Rangamati, Chittagong Hill Tracts, Bengal, 11-16-vii-15 (*R. Hodgart*).

Kurseong, 5,000 ft., E. Himalayas, 8-ix-09 (*N. Annandale*).

Pirithous ramachendrai Bol.

Waltair, Madras presidency, 22-iv-10 (*S. W Kemp*).

Catantops humilis (Serv.).

Dekhat Bhuli, Nepal Terai, 30-iv-07

Assam-Bhutan frontier, Mangaldai district, 26-xii-10 (*S. W. Kemp*).

Kurseong, E. Himalayas, 6,000 ft.

Eagles Crag, Kurseong, 5,000 ft., 9-iii-24 (*B. Chopra*).

Tea Gardens below Kurseong, 1,500-5,000 ft., iii-24 (*B. Chopra*).

Port Blair, Andamans, 15-ii—15-iii-15 (*S. W Kemp*).

Catantops innotabile Wlk.

Jumnagwar, Gharwal district, base of W. Himalayas, 16-iv-10.

Simla, v-22 (*S. H. Ribeiro*).

Jubbulpore, Central Provinces.

Base of hills, S. of Chakardharpur, Chota Nagpur, 29-ix-11 (*F. H. Gravely*).

Chandipore, Orissa, 17-27-x-20 (*C. Dover*).

Khandagiri, Puri district, Orissa, 7-8-xi-12 (*F. H. Gravely*).

Chota Nagpur, 29-ix-11 (*F. H. Gravely*).

Puri, Orissa coast, 21-iii-09 (*N. Annandale*).

Satpara, Orissa, 17-ix-13 (*N. Annandale*).

Balugaon, Puri district, Orissa, 21-30-vii-13 (*N. Annandale*).

Bhubaneswar, Puri district, Orissa, 4-6-xi-12 (*F. H. Gravely*).

Pusa, Bihar, 26-30-viii-25 (*H. S. Pruthi*).

Paresnath, Bihar, 4,000-4,400 ft., v-09 (*J. T Jenkins*).

Siripur, Saran, Bihar, 25-ix-10.

Calcutta, 8-vii-07.

Calcutta environs, 29-ix-04 (*E. Brunetti*).

Cheria I., Chilka lake, 22-vii-14.

Appa ently very common in the plains, but scarcely ranging into hills.

Catantops henryi Bol.

Khemsra, W. Ghats, 2,650 ft., 5-v-13 (*S. P. Agharkar*).

Helvak, Koyna valley, Satara district, 2,000 ft., 28-30-iv-12 (*F. H. Gravely*).

Dhankai near Helvak, Satara district, 2,400-2,600 ft., 4-v-13 (*S. P. Agharkar*).

Caloptenopsis glaucopsis (Wlk.).

Between Kantadih and base of hills, Manbhum district, Chota Nagpur, 11-ii-12 (*N. Annandale* and *F. H. Gravely*).

Caloptenopsis insignis (Wlk.).

Mahabaleshwar, Satara district, 4,200 ft., 13-16-iv-12 (*F. H. Gravely*).

Kas, Satara district, 3,700 ft., 23-24-iv-12 (*F. H. Gravely*).

Peripolus pedarius (St.).

Sikkim.

Hygracris palustris Uv.Tezpur, Mangaldai district, Assam, 8-9-x-10 (*S. W Kemp*).**Euprepcnemis alacris** (Serv.).Base of hills, S. of Chakardharpur, Chota Nagpur, 29-ix-11 (*F. H. Gravely*).Yenangyaung, Magwe, Upper Burma, 300 ft., viii-ix-11 (*J. Coggin Brown*).Coonor, 6,000 ft., Nilgiris, vi-12 (*R. B. S. Sewell*).**Tyloptropidius varicornis** (Wlk.).Helvak, Koyna valley, Satara district, 2,000 ft., 28-30-iv-12 (*F. H. Gravely*).Kas, Satara district, 3,700 ft., 23-24-iv-12 (*F. H. Gravely*).Medha, Yenna valley, 2,200 ft., 17-23-iv-12 (*F. H. Gravely*).Chiplun, Vashishti valley, Ratnagiri district, 0-360 ft., 3-6-v-12 (*F. H. Gravely*).

The size is smaller and the elytra shorter in the specimens from higher altitudes.

Thisoecetrus pulcher Bol.Dharampur, W. Himalayas, 5,000 ft., ix-v-13 (*Phaku Ram*).Balugaon, Puri district, Orissa, 21-30-vii-13 (*N. Annandale*).

Calcutta.

Eupreponotus inflatus Uv.

Calcutta, July 911.

I have described this remarkable genus and species from a single male from unknown locality, but later found out that it was from Cuttack. The Indian Museum collection contains both sexes and a description of the female will be given by me elsewhere.